APPENDIX C

2022 Laboratory Analytical Reports (Including Chain-of-Custody Forms, Cation-Anion Balance Data, Laboratory QA/QC Documentation), and Eurofins Denver Laboratory ORELAP Certification

Spring 2022

Compliance Groundwater

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

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JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Compliance Wells - Apr Oct

JOB NUMBER

280-162989-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

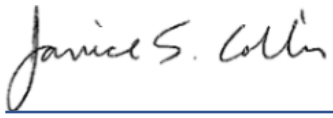
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Definitions/Glossary

Client: Waste Management
Job ID: 280-162989-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-162989-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-162989-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 06/02/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.4 C.

Holding Times

The holding times were met.

Method Blanks

All Method Blanks met method criteria.

Laboratory Control Samples (LCS)

The Method 8260B laboratory control sample (LCS) for analytical batch 280-577411 recovered outside control limits for the following analytes: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The Method 8260B RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-577411 recovered outside control limits for the following analytes: Chloromethane, Chloroethane, and Vinyl chloride. Both the LCS and LCSD passed within limits; therefore the data is reported.

All other Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with Method 8260B analytical batch 280-577411.

All other MS and MSD results were within established control limits.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte

Job ID: 280-162989-1 (Continued)

Laboratory: Eurofins Denver (Continued)

and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-162989-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-162989-1

No Detections.

Client Sample ID: FB5 — Lab Sample ID: 280-162989-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Total Anions	0.00				meq/L	1		SM 1030E	Total/NA
Total Cations	0.00				meq/L	1		SM 1030E	Total/NA
Percent Difference	NC				%	1		SM 1030E	Total/NA
Calcium	0.00				mg/L	1		SM 1030E	Total/NA
Magnesium	0.00				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	0.00				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	0.00				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	NC				%	1		SM 1030E	Total/NA
Calculated TDS	0.00				mg/L	1		SM 1030E	Total/NA
TDS Ratio	NC				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	0.00				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA

Client Sample ID: MW-21B — Lab Sample ID: 280-162989-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	44000		500		ug/L	1		6010B	Dissolved
Iron	510		30		ug/L	1		6010B	Dissolved
Magnesium	18000		200		ug/L	1		6010B	Dissolved
Manganese	1600		3.0		ug/L	1		6010B	Dissolved
Potassium	810		500		ug/L	1		6010B	Dissolved
Sodium	28000		1000		ug/L	1		6010B	Dissolved
Chloride	14		0.50		mg/L	1		300.0	Total/NA
Ammonia as N	0.43		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	2.5		1.0		mg/L	1		9060	Total/NA
Total Anions	4.8				meq/L	1		SM 1030E	Total/NA
Total Cations	5.0				meq/L	1		SM 1030E	Total/NA
Percent Difference	1.9				%	1		SM 1030E	Total/NA
Calcium	44				mg/L	1		SM 1030E	Total/NA
Magnesium	18				mg/L	1		SM 1030E	Total/NA
Potassium	0.81				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-21B (Continued)

Lab Sample ID: 280-162989-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Sodium	28				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.43				mg/L	1		SM 1030E	Total/NA
Chloride	14				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	220				mg/L	1		SM 1030E	Total/NA
Alkalinity	220				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	1.9				%	1		SM 1030E	Total/NA
Calculated TDS	240				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	290				mg/L	1		SM 1030E	Total/NA
Iron	0.51				mg/L	1		SM 1030E	Total/NA
Calcium	2.2				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.021				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.2				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.031				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.39				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	220				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	4.4				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.027				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	220		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	290		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP5

Lab Sample ID: 280-162989-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	51000		500		ug/L	1		6010B	Dissolved
Iron	610		30		ug/L	1		6010B	Dissolved
Magnesium	20000		200		ug/L	1		6010B	Dissolved
Manganese	1900		3.0		ug/L	1		6010B	Dissolved
Potassium	890		500		ug/L	1		6010B	Dissolved
Sodium	33000		1000		ug/L	1		6010B	Dissolved
Chloride	14		0.50		mg/L	1		300.0	Total/NA
Ammonia as N	0.54		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	2.6		1.0		mg/L	1		9060	Total/NA
Total Anions	4.8				meq/L	1		SM 1030E	Total/NA
Total Cations	5.7				meq/L	1		SM 1030E	Total/NA
Percent Difference	8.8				%	1		SM 1030E	Total/NA
Calcium	51				mg/L	1		SM 1030E	Total/NA
Magnesium	20				mg/L	1		SM 1030E	Total/NA
Potassium	0.89				mg/L	1		SM 1030E	Total/NA
Sodium	33				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.54				mg/L	1		SM 1030E	Total/NA
Chloride	14				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	220				mg/L	1		SM 1030E	Total/NA
Alkalinity	220				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP5 (Continued)

Lab Sample ID: 280-162989-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Anion/Cation Balance	8.8				%	1		SM 1030E	Total/NA
Calculated TDS	250				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	290				mg/L	1		SM 1030E	Total/NA
Iron	0.61				mg/L	1		SM 1030E	Total/NA
Calcium	2.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.6				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.023				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.4				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.039				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.39				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	220				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	4.4				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.033				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	220		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	290		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-162989-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-162989-1	TRIP BLANK	Water	06/01/22 08:00	06/02/22 10:00
280-162989-2	FB5	Water	06/01/22 09:45	06/02/22 10:00
280-162989-3	MW-21B	Water	06/01/22 10:15	06/02/22 10:00
280-162989-4	DUP5	Water	06/01/22 10:20	06/02/22 10:00

Method Summary

Client: Waste Management
Job ID: 280-162989-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-162989-1

Client Sample ID: TRIP BLANK
Date Collected: 06/01/22 08:00
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/08/22 10:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/08/22 10:59	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/08/22 10:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/08/22 10:59	1
1,1-Dichloroethane	ND		1.0		ug/L			06/08/22 10:59	1
1,1-Dichloroethene	ND		1.0		ug/L			06/08/22 10:59	1
1,1-Dichloropropene	ND		1.0		ug/L			06/08/22 10:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/08/22 10:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/08/22 10:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/08/22 10:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			06/08/22 10:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/08/22 10:59	1
1,2-Dichloroethane	ND		1.0		ug/L			06/08/22 10:59	1
1,2-Dichloropropane	ND		1.0		ug/L			06/08/22 10:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			06/08/22 10:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			06/08/22 10:59	1
1,3-Dichloropropane	ND		1.0		ug/L			06/08/22 10:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/08/22 10:59	1
2,2-Dichloropropane	ND		5.0		ug/L			06/08/22 10:59	1
2-Butanone (MEK)	ND		6.0		ug/L			06/08/22 10:59	1
2-Chlorotoluene	ND		1.0		ug/L			06/08/22 10:59	1
2-Hexanone	ND		5.0		ug/L			06/08/22 10:59	1
4-Chlorotoluene	ND		1.0		ug/L			06/08/22 10:59	1
4-Isopropyltoluene	ND		1.0		ug/L			06/08/22 10:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			06/08/22 10:59	1
Acetone	ND		10		ug/L			06/08/22 10:59	1
Benzene	ND		1.0		ug/L			06/08/22 10:59	1
Bromobenzene	ND		1.0		ug/L			06/08/22 10:59	1
Bromochloromethane	ND		1.0		ug/L			06/08/22 10:59	1
Bromodichloromethane	ND		1.0		ug/L			06/08/22 10:59	1
Bromoform	ND		1.0		ug/L			06/08/22 10:59	1
Bromomethane	ND	*+	2.0		ug/L			06/08/22 10:59	1
Carbon disulfide	ND		2.0		ug/L			06/08/22 10:59	1
Carbon tetrachloride	ND		1.0		ug/L			06/08/22 10:59	1
Chlorobenzene	ND		1.0		ug/L			06/08/22 10:59	1
Chloroethane	ND	*1	2.0		ug/L			06/08/22 10:59	1
Chloroform	ND		1.0		ug/L			06/08/22 10:59	1
Chloromethane	ND	*1	2.0		ug/L			06/08/22 10:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/08/22 10:59	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/08/22 10:59	1
Dibromochloromethane	ND		1.0		ug/L			06/08/22 10:59	1
Dibromomethane	ND		1.0		ug/L			06/08/22 10:59	1
Dichlorodifluoromethane	ND		2.0		ug/L			06/08/22 10:59	1
Ethylbenzene	ND		1.0		ug/L			06/08/22 10:59	1
Hexachlorobutadiene	ND		1.0		ug/L			06/08/22 10:59	1
Isopropylbenzene	ND		1.0		ug/L			06/08/22 10:59	1
Methylene Chloride	ND		5.0		ug/L			06/08/22 10:59	1
Naphthalene	ND		1.0		ug/L			06/08/22 10:59	1
n-Butylbenzene	ND		1.0		ug/L			06/08/22 10:59	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-162989-1
Date Collected: 06/01/22 08:00
Matrix: Water
Date Received: 06/02/22 10:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			06/08/22 10:59	1
sec-Butylbenzene	ND		1.0		ug/L			06/08/22 10:59	1
Styrene	ND		1.0		ug/L			06/08/22 10:59	1
tert-Butylbenzene	ND		1.0		ug/L			06/08/22 10:59	1
Tetrachloroethene	ND		1.0		ug/L			06/08/22 10:59	1
Toluene	ND		1.0		ug/L			06/08/22 10:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/08/22 10:59	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			06/08/22 10:59	1
Trichloroethene	ND		1.0		ug/L			06/08/22 10:59	1
Trichlorofluoromethane	ND		2.0		ug/L			06/08/22 10:59	1
Vinyl chloride	ND	*1	1.0		ug/L			06/08/22 10:59	1
Xylenes (total)	ND		2.0		ug/L			06/08/22 10:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/08/22 10:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*		*06/08/22 10:59*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*06/08/22 10:59*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 120*		*06/08/22 10:59*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*06/08/22 10:59*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		06/07/22 17:37	06/08/22 06:15	1
1,2-Dibromoethane	ND		0.050		ug/L		06/07/22 17:37	06/08/22 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*93*		*70 - 130*	*06/07/22 17:37*	*06/08/22 06:15*	*1*

Client Sample ID: FB5

Lab Sample ID: 280-162989-2
Date Collected: 06/01/22 09:45
Matrix: Water
Date Received: 06/02/22 10:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/08/22 13:28	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/08/22 13:28	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/08/22 13:28	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/08/22 13:28	1
1,1-Dichloroethane	ND		1.0		ug/L			06/08/22 13:28	1
1,1-Dichloroethene	ND		1.0		ug/L			06/08/22 13:28	1
1,1-Dichloropropene	ND		1.0		ug/L			06/08/22 13:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/08/22 13:28	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/08/22 13:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/08/22 13:28	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			06/08/22 13:28	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/08/22 13:28	1
1,2-Dichloroethane	ND		1.0		ug/L			06/08/22 13:28	1
1,2-Dichloropropane	ND		1.0		ug/L			06/08/22 13:28	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			06/08/22 13:28	1

Client Sample ID: FB5
Date Collected: 06/01/22 09:45
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			06/08/22 13:28	1
1,3-Dichloropropane	ND		1.0		ug/L			06/08/22 13:28	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/08/22 13:28	1
2,2-Dichloropropane	ND		5.0		ug/L			06/08/22 13:28	1
2-Butanone (MEK)	ND		6.0		ug/L			06/08/22 13:28	1
2-Chlorotoluene	ND		1.0		ug/L			06/08/22 13:28	1
2-Hexanone	ND		5.0		ug/L			06/08/22 13:28	1
4-Chlorotoluene	ND		1.0		ug/L			06/08/22 13:28	1
4-Isopropyltoluene	ND		1.0		ug/L			06/08/22 13:28	1
4-Methyl-2-pentanone	ND		5.0		ug/L			06/08/22 13:28	1
Acetone	ND		10		ug/L			06/08/22 13:28	1
Benzene	ND		1.0		ug/L			06/08/22 13:28	1
Bromobenzene	ND		1.0		ug/L			06/08/22 13:28	1
Bromochloromethane	ND		1.0		ug/L			06/08/22 13:28	1
Bromodichloromethane	ND		1.0		ug/L			06/08/22 13:28	1
Bromoform	ND		1.0		ug/L			06/08/22 13:28	1
Bromomethane	ND	*+	2.0		ug/L			06/08/22 13:28	1
Carbon disulfide	ND		2.0		ug/L			06/08/22 13:28	1
Carbon tetrachloride	ND		1.0		ug/L			06/08/22 13:28	1
Chlorobenzene	ND		1.0		ug/L			06/08/22 13:28	1
Chloroethane	ND	*1	2.0		ug/L			06/08/22 13:28	1
Chloroform	ND		1.0		ug/L			06/08/22 13:28	1
Chloromethane	ND	*1	2.0		ug/L			06/08/22 13:28	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/08/22 13:28	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/08/22 13:28	1
Dibromochloromethane	ND		1.0		ug/L			06/08/22 13:28	1
Dibromomethane	ND		1.0		ug/L			06/08/22 13:28	1
Dichlorodifluoromethane	ND		2.0		ug/L			06/08/22 13:28	1
Ethylbenzene	ND		1.0		ug/L			06/08/22 13:28	1
Hexachlorobutadiene	ND		1.0		ug/L			06/08/22 13:28	1
Isopropylbenzene	ND		1.0		ug/L			06/08/22 13:28	1
Methylene Chloride	ND		5.0		ug/L			06/08/22 13:28	1
Naphthalene	ND		1.0		ug/L			06/08/22 13:28	1
n-Butylbenzene	ND		1.0		ug/L			06/08/22 13:28	1
N-Propylbenzene	ND		1.0		ug/L			06/08/22 13:28	1
sec-Butylbenzene	ND		1.0		ug/L			06/08/22 13:28	1
Styrene	ND		1.0		ug/L			06/08/22 13:28	1
tert-Butylbenzene	ND		1.0		ug/L			06/08/22 13:28	1
Tetrachloroethene	ND		1.0		ug/L			06/08/22 13:28	1
Toluene	ND		1.0		ug/L			06/08/22 13:28	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/08/22 13:28	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			06/08/22 13:28	1
Trichloroethene	ND		1.0		ug/L			06/08/22 13:28	1
Trichlorofluoromethane	ND		2.0		ug/L			06/08/22 13:28	1
Vinyl chloride	ND	*1	1.0		ug/L			06/08/22 13:28	1
Xylenes (total)	ND		2.0		ug/L			06/08/22 13:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/08/22 13:28*	*1*

Client Sample ID: FB5

Date Collected: 06/01/22 09:45
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*06/08/22 13:28*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*06/08/22 13:28*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 120*		*06/08/22 13:28*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*06/08/22 13:28*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		06/07/22 17:37	06/08/22 06:39	1
1,2-Dibromoethane	ND		0.050		ug/L		06/07/22 17:37	06/08/22 06:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*90*		*70 - 130*	*06/07/22 17:37*	*06/08/22 06:39*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		06/10/22 08:39	06/11/22 08:15	1
Iron	ND		30		ug/L		06/10/22 08:39	06/11/22 08:15	1
Magnesium	ND		200		ug/L		06/10/22 08:39	06/11/22 08:15	1
Manganese	ND		3.0		ug/L		06/10/22 08:39	06/11/22 08:15	1
Potassium	ND		500		ug/L		06/10/22 08:39	06/11/22 08:15	1
Sodium	ND		1000		ug/L		06/10/22 08:39	06/11/22 08:15	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**0.00**				meq/L			06/20/22 11:15	1
Total Cations (SM 1030E)	**0.00**				meq/L			06/20/22 11:15	1
Percent Difference (SM 1030E)	**NC**				%			06/20/22 11:15	1
Calcium (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Magnesium (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Potassium (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Sodium (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Ammonia as N (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Chloride (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Sulfate (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Bicarbonate Alkalinity (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Alkalinity (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Anion/Cation Balance (SM 1030E)	**NC**				%			06/20/22 11:15	1
Calculated TDS (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
TDS Ratio (SM 1030E)	**NC**				NONE			06/20/22 11:15	1
Total Dissolved Solids (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Iron (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1
Calcium (SM 1030E (meq))	**0.00**				meq/L			06/20/22 11:15	1
Magnesium (SM 1030E (meq))	**0.00**				meq/L			06/20/22 11:15	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			06/20/22 11:15	1
Sodium (SM 1030E (meq))	**0.00**				meq/L			06/20/22 11:15	1
Ammonia as N (SM 1030E (meq))	**0.00**				meq/L			06/20/22 11:15	1
Chloride (SM 1030E (meq))	**0.00**				meq/L			06/20/22 11:15	1
Sulfate (SM 1030E (meq))	**0.00**				meq/L			06/20/22 11:15	1
Alkalinity (SM 1030E (meq))	**0.00**				mg/L			06/20/22 11:15	1

Client Sample ID: FB5

Date Collected: 06/01/22 09:45
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E (meq))	0.00				meq/L			06/20/22 11:15	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			06/20/22 11:15	1
Iron (SM 1030E (meq))	0.00				meq/L			06/20/22 11:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		0.50		mg/L			06/16/22 03:50	1
Sulfate (EPA 300.0)	ND		1.0		mg/L			06/16/22 03:50	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			06/18/22 10:03	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			06/16/22 12:42	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			06/03/22 20:53	1
Bicarbonate Alkalinity (SM 2320B)	ND		10		mg/L			06/06/22 20:47	1
Total Dissolved Solids (SM 2540C)	ND		10		mg/L			06/03/22 09:42	1

Client Sample ID: MW-21B

Date Collected: 06/01/22 10:15
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/08/22 13:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/08/22 13:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/08/22 13:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/08/22 13:50	1
1,1-Dichloroethane	ND		1.0		ug/L			06/08/22 13:50	1
1,1-Dichloroethene	ND		1.0		ug/L			06/08/22 13:50	1
1,1-Dichloropropene	ND		1.0		ug/L			06/08/22 13:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/08/22 13:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/08/22 13:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/08/22 13:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			06/08/22 13:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/08/22 13:50	1
1,2-Dichloroethane	ND		1.0		ug/L			06/08/22 13:50	1
1,2-Dichloropropane	ND		1.0		ug/L			06/08/22 13:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			06/08/22 13:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			06/08/22 13:50	1
1,3-Dichloropropane	ND		1.0		ug/L			06/08/22 13:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/08/22 13:50	1
2,2-Dichloropropane	ND		5.0		ug/L			06/08/22 13:50	1
2-Butanone (MEK)	ND		6.0		ug/L			06/08/22 13:50	1
2-Chlorotoluene	ND		1.0		ug/L			06/08/22 13:50	1
2-Hexanone	ND		5.0		ug/L			06/08/22 13:50	1
4-Chlorotoluene	ND		1.0		ug/L			06/08/22 13:50	1
4-Isopropyltoluene	ND		1.0		ug/L			06/08/22 13:50	1
4-Methyl-2-pentanone	ND		5.0		ug/L			06/08/22 13:50	1
Acetone	ND		10		ug/L			06/08/22 13:50	1
Benzene	ND		1.0		ug/L			06/08/22 13:50	1
Bromobenzene	ND		1.0		ug/L			06/08/22 13:50	1
Bromochloromethane	ND		1.0		ug/L			06/08/22 13:50	1
Bromodichloromethane	ND		1.0		ug/L			06/08/22 13:50	1

Client Sample ID: MW-21B
Date Collected: 06/01/22 10:15
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0		ug/L			06/08/22 13:50	1
Bromomethane	ND	*+	2.0		ug/L			06/08/22 13:50	1
Carbon disulfide	ND		2.0		ug/L			06/08/22 13:50	1
Carbon tetrachloride	ND		1.0		ug/L			06/08/22 13:50	1
Chlorobenzene	ND		1.0		ug/L			06/08/22 13:50	1
Chloroethane	ND	*1	2.0		ug/L			06/08/22 13:50	1
Chloroform	ND		1.0		ug/L			06/08/22 13:50	1
Chloromethane	ND	*1	2.0		ug/L			06/08/22 13:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/08/22 13:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/08/22 13:50	1
Dibromochloromethane	ND		1.0		ug/L			06/08/22 13:50	1
Dibromomethane	ND		1.0		ug/L			06/08/22 13:50	1
Dichlorodifluoromethane	ND		2.0		ug/L			06/08/22 13:50	1
Ethylbenzene	ND		1.0		ug/L			06/08/22 13:50	1
Hexachlorobutadiene	ND		1.0		ug/L			06/08/22 13:50	1
Isopropylbenzene	ND		1.0		ug/L			06/08/22 13:50	1
Methylene Chloride	ND		5.0		ug/L			06/08/22 13:50	1
Naphthalene	ND		1.0		ug/L			06/08/22 13:50	1
n-Butylbenzene	ND		1.0		ug/L			06/08/22 13:50	1
N-Propylbenzene	ND		1.0		ug/L			06/08/22 13:50	1
sec-Butylbenzene	ND		1.0		ug/L			06/08/22 13:50	1
Styrene	ND		1.0		ug/L			06/08/22 13:50	1
tert-Butylbenzene	ND		1.0		ug/L			06/08/22 13:50	1
Tetrachloroethene	ND		1.0		ug/L			06/08/22 13:50	1
Toluene	ND		1.0		ug/L			06/08/22 13:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/08/22 13:50	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			06/08/22 13:50	1
Trichloroethene	ND		1.0		ug/L			06/08/22 13:50	1
Trichlorofluoromethane	ND		2.0		ug/L			06/08/22 13:50	1
Vinyl chloride	ND	*1	1.0		ug/L			06/08/22 13:50	1
Xylenes (total)	ND		2.0		ug/L			06/08/22 13:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/08/22 13:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*06/08/22 13:50*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*06/08/22 13:50*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 120*		*06/08/22 13:50*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*06/08/22 13:50*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		06/07/22 17:37	06/08/22 07:02	1
1,2-Dibromoethane	ND		0.050		ug/L		06/07/22 17:37	06/08/22 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*97*		*70 - 130*	*06/07/22 17:37*	*06/08/22 07:02*	*1*

Client Sample ID: MW-21B

Date Collected: 06/01/22 10:15
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-3

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	44000		500		ug/L		06/10/22 08:39	06/11/22 08:19	1
Iron	510		30		ug/L		06/10/22 08:39	06/11/22 08:19	1
Magnesium	18000		200		ug/L		06/10/22 08:39	06/11/22 08:19	1
Manganese	1600		3.0		ug/L		06/10/22 08:39	06/11/22 08:19	1
Potassium	810		500		ug/L		06/10/22 08:39	06/11/22 08:19	1
Sodium	28000		1000		ug/L		06/10/22 08:39	06/11/22 08:19	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	4.8				meq/L			06/20/22 11:15	1
Total Cations (SM 1030E)	5.0				meq/L			06/20/22 11:15	1
Percent Difference (SM 1030E)	1.9				%			06/20/22 11:15	1
Calcium (SM 1030E)	44				mg/L			06/20/22 11:15	1
Magnesium (SM 1030E)	18				mg/L			06/20/22 11:15	1
Potassium (SM 1030E)	0.81				mg/L			06/20/22 11:15	1
Sodium (SM 1030E)	28				mg/L			06/20/22 11:15	1
Ammonia as N (SM 1030E)	0.43				mg/L			06/20/22 11:15	1
Chloride (SM 1030E)	14				mg/L			06/20/22 11:15	1
Sulfate (SM 1030E)	0.00				mg/L			06/20/22 11:15	1
Bicarbonate Alkalinity (SM 1030E)	220				mg/L			06/20/22 11:15	1
Alkalinity (SM 1030E)	220				mg/L			06/20/22 11:15	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			06/20/22 11:15	1
Anion/Cation Balance (SM 1030E)	1.9				%			06/20/22 11:15	1
Calculated TDS (SM 1030E)	240				mg/L			06/20/22 11:15	1
TDS Ratio (SM 1030E)	1.2				NONE			06/20/22 11:15	1
Total Dissolved Solids (SM 1030E)	290				mg/L			06/20/22 11:15	1
Iron (SM 1030E)	0.51				mg/L			06/20/22 11:15	1
Calcium (SM 1030E (meq))	2.2				meq/L			06/20/22 11:15	1
Magnesium (SM 1030E (meq))	1.5				meq/L			06/20/22 11:15	1
Potassium (SM 1030E (meq))	0.021				meq/L			06/20/22 11:15	1
Sodium (SM 1030E (meq))	1.2				meq/L			06/20/22 11:15	1
Ammonia as N (SM 1030E (meq))	0.031				meq/L			06/20/22 11:15	1
Chloride (SM 1030E (meq))	0.39				meq/L			06/20/22 11:15	1
Sulfate (SM 1030E (meq))	0.00				meq/L			06/20/22 11:15	1
Alkalinity (SM 1030E (meq))	220				mg/L			06/20/22 11:15	1
Bicarbonate Alkalinity (SM 1030E (meq))	4.4				meq/L			06/20/22 11:15	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			06/20/22 11:15	1
Iron (SM 1030E (meq))	0.027				meq/L			06/20/22 11:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	14		0.50		mg/L			06/18/22 06:39	1
Sulfate (EPA 300.0)	ND		1.0		mg/L			06/18/22 06:39	1
Ammonia as N (EPA 350.1)	0.43		0.030		mg/L			06/18/22 10:05	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			06/16/22 12:44	1
Total Organic Carbon - Average (SW846 9060)	2.5		1.0		mg/L			06/03/22 21:07	1
Bicarbonate Alkalinity (SM 2320B)	220		10		mg/L			06/06/22 20:50	1
Total Dissolved Solids (SM 2540C)	290		10		mg/L			06/06/22 09:59	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-162989-1

Client Sample ID: DUP5
Date Collected: 06/01/22 10:20
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/08/22 14:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/08/22 14:11	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/08/22 14:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/08/22 14:11	1
1,1-Dichloroethane	ND		1.0		ug/L			06/08/22 14:11	1
1,1-Dichloroethene	ND		1.0		ug/L			06/08/22 14:11	1
1,1-Dichloropropene	ND		1.0		ug/L			06/08/22 14:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/08/22 14:11	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/08/22 14:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/08/22 14:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			06/08/22 14:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/08/22 14:11	1
1,2-Dichloroethane	ND		1.0		ug/L			06/08/22 14:11	1
1,2-Dichloropropane	ND		1.0		ug/L			06/08/22 14:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			06/08/22 14:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			06/08/22 14:11	1
1,3-Dichloropropane	ND		1.0		ug/L			06/08/22 14:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/08/22 14:11	1
2,2-Dichloropropane	ND		5.0		ug/L			06/08/22 14:11	1
2-Butanone (MEK)	ND		6.0		ug/L			06/08/22 14:11	1
2-Chlorotoluene	ND		1.0		ug/L			06/08/22 14:11	1
2-Hexanone	ND		5.0		ug/L			06/08/22 14:11	1
4-Chlorotoluene	ND		1.0		ug/L			06/08/22 14:11	1
4-Isopropyltoluene	ND		1.0		ug/L			06/08/22 14:11	1
4-Methyl-2-pentanone	ND		5.0		ug/L			06/08/22 14:11	1
Acetone	ND		10		ug/L			06/08/22 14:11	1
Benzene	ND		1.0		ug/L			06/08/22 14:11	1
Bromobenzene	ND		1.0		ug/L			06/08/22 14:11	1
Bromochloromethane	ND		1.0		ug/L			06/08/22 14:11	1
Bromodichloromethane	ND		1.0		ug/L			06/08/22 14:11	1
Bromoform	ND		1.0		ug/L			06/08/22 14:11	1
Bromomethane	ND	*+	2.0		ug/L			06/08/22 14:11	1
Carbon disulfide	ND		2.0		ug/L			06/08/22 14:11	1
Carbon tetrachloride	ND		1.0		ug/L			06/08/22 14:11	1
Chlorobenzene	ND		1.0		ug/L			06/08/22 14:11	1
Chloroethane	ND	*1	2.0		ug/L			06/08/22 14:11	1
Chloroform	ND		1.0		ug/L			06/08/22 14:11	1
Chloromethane	ND	*1	2.0		ug/L			06/08/22 14:11	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/08/22 14:11	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/08/22 14:11	1
Dibromochloromethane	ND		1.0		ug/L			06/08/22 14:11	1
Dibromomethane	ND		1.0		ug/L			06/08/22 14:11	1
Dichlorodifluoromethane	ND		2.0		ug/L			06/08/22 14:11	1
Ethylbenzene	ND		1.0		ug/L			06/08/22 14:11	1
Hexachlorobutadiene	ND		1.0		ug/L			06/08/22 14:11	1
Isopropylbenzene	ND		1.0		ug/L			06/08/22 14:11	1
Methylene Chloride	ND		5.0		ug/L			06/08/22 14:11	1
Naphthalene	ND		1.0		ug/L			06/08/22 14:11	1
n-Butylbenzene	ND		1.0		ug/L			06/08/22 14:11	1

Client Sample ID: DUP5
Date Collected: 06/01/22 10:20
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			06/08/22 14:11	1
sec-Butylbenzene	ND		1.0		ug/L			06/08/22 14:11	1
Styrene	ND		1.0		ug/L			06/08/22 14:11	1
tert-Butylbenzene	ND		1.0		ug/L			06/08/22 14:11	1
Tetrachloroethene	ND		1.0		ug/L			06/08/22 14:11	1
Toluene	ND		1.0		ug/L			06/08/22 14:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/08/22 14:11	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			06/08/22 14:11	1
Trichloroethene	ND		1.0		ug/L			06/08/22 14:11	1
Trichlorofluoromethane	ND		2.0		ug/L			06/08/22 14:11	1
Vinyl chloride	ND	*1	1.0		ug/L			06/08/22 14:11	1
Xylenes (total)	ND		2.0		ug/L			06/08/22 14:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/08/22 14:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*06/08/22 14:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*06/08/22 14:11*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 120*		*06/08/22 14:11*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*06/08/22 14:11*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		06/07/22 17:37	06/08/22 07:26	1
1,2-Dibromoethane	ND		0.050		ug/L		06/07/22 17:37	06/08/22 07:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*89*		*70 - 130*	*06/07/22 17:37*	*06/08/22 07:26*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**51000**		500		ug/L		06/10/22 08:39	06/11/22 08:23	1
Iron	**610**		30		ug/L		06/10/22 08:39	06/11/22 08:23	1
Magnesium	**20000**		200		ug/L		06/10/22 08:39	06/11/22 08:23	1
Manganese	**1900**		3.0		ug/L		06/10/22 08:39	06/11/22 08:23	1
Potassium	**890**		500		ug/L		06/10/22 08:39	06/11/22 08:23	1
Sodium	**33000**		1000		ug/L		06/10/22 08:39	06/11/22 08:23	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**4.8**				meq/L			06/20/22 11:15	1
Total Cations (SM 1030E)	**5.7**				meq/L			06/20/22 11:15	1
Percent Difference (SM 1030E)	**8.8**				%			06/20/22 11:15	1
Calcium (SM 1030E)	**51**				mg/L			06/20/22 11:15	1
Magnesium (SM 1030E)	**20**				mg/L			06/20/22 11:15	1
Potassium (SM 1030E)	**0.89**				mg/L			06/20/22 11:15	1
Sodium (SM 1030E)	**33**				mg/L			06/20/22 11:15	1
Ammonia as N (SM 1030E)	**0.54**				mg/L			06/20/22 11:15	1
Chloride (SM 1030E)	**14**				mg/L			06/20/22 11:15	1
Sulfate (SM 1030E)	**0.00**				mg/L			06/20/22 11:15	1

Client Sample ID: DUP5
Date Collected: 06/01/22 10:20
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E)	220				mg/L			06/20/22 11:15	1
Alkalinity (SM 1030E)	220				mg/L			06/20/22 11:15	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			06/20/22 11:15	1
Anion/Cation Balance (SM 1030E)	8.8				%			06/20/22 11:15	1
Calculated TDS (SM 1030E)	250				mg/L			06/20/22 11:15	1
TDS Ratio (SM 1030E)	1.2				NONE			06/20/22 11:15	1
Total Dissolved Solids (SM 1030E)	290				mg/L			06/20/22 11:15	1
Iron (SM 1030E)	0.61				mg/L			06/20/22 11:15	1
Calcium (SM 1030E (meq))	2.5				meq/L			06/20/22 11:15	1
Magnesium (SM 1030E (meq))	1.6				meq/L			06/20/22 11:15	1
Potassium (SM 1030E (meq))	0.023				meq/L			06/20/22 11:15	1
Sodium (SM 1030E (meq))	1.4				meq/L			06/20/22 11:15	1
Ammonia as N (SM 1030E (meq))	0.039				meq/L			06/20/22 11:15	1
Chloride (SM 1030E (meq))	0.39				meq/L			06/20/22 11:15	1
Sulfate (SM 1030E (meq))	0.00				meq/L			06/20/22 11:15	1
Alkalinity (SM 1030E (meq))	220				mg/L			06/20/22 11:15	1
Bicarbonate Alkalinity (SM 1030E (meq))	4.4				meq/L			06/20/22 11:15	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			06/20/22 11:15	1
Iron (SM 1030E (meq))	0.033				meq/L			06/20/22 11:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	14		0.50		mg/L			06/18/22 06:58	1
Sulfate (EPA 300.0)	ND		1.0		mg/L			06/18/22 06:58	1
Ammonia as N (EPA 350.1)	0.54		0.030		mg/L			06/18/22 10:18	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			06/16/22 12:46	1
Total Organic Carbon - Average (SW846 9060)	2.6		1.0		mg/L			06/03/22 21:24	1
Bicarbonate Alkalinity (SM 2320B)	220		10		mg/L			06/08/22 16:42	1
Total Dissolved Solids (SM 2540C)	290		10		mg/L			06/06/22 09:59	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-162989-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-162989-1	TRIP BLANK	97	104	103	102
280-162989-2	FB5	102	103	106	105
280-162989-3	MW-21B	99	102	105	104
280-162989-4	DUP5	98	102	106	103
LCS 280-577411/4	Lab Control Sample	93	102	100	97
LCSD 280-577411/5	Lab Control Sample Dup	93	102	100	99
MB 280-577411/9	Method Blank	97	101	107	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-162989-1	TRIP BLANK	93
280-162989-2	FB5	90
280-162989-3	MW-21B	97
280-162989-4	DUP5	89
LCS 280-577389/2-A	Lab Control Sample	94
LCSD 280-577389/3-A	Lab Control Sample Dup	92
MB 280-577389/1-A	Method Blank	94

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-577411/9
Matrix: Water
Analysis Batch: 577411

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/08/22 10:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/08/22 10:17	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/08/22 10:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/08/22 10:17	1
1,1-Dichloroethane	ND		1.0		ug/L			06/08/22 10:17	1
1,1-Dichloroethene	ND		1.0		ug/L			06/08/22 10:17	1
1,1-Dichloropropene	ND		1.0		ug/L			06/08/22 10:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/08/22 10:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/08/22 10:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/08/22 10:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			06/08/22 10:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/08/22 10:17	1
1,2-Dichloroethane	ND		1.0		ug/L			06/08/22 10:17	1
1,2-Dichloropropane	ND		1.0		ug/L			06/08/22 10:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			06/08/22 10:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			06/08/22 10:17	1
1,3-Dichloropropane	ND		1.0		ug/L			06/08/22 10:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/08/22 10:17	1
2,2-Dichloropropane	ND		5.0		ug/L			06/08/22 10:17	1
2-Butanone (MEK)	ND		6.0		ug/L			06/08/22 10:17	1
2-Chlorotoluene	ND		1.0		ug/L			06/08/22 10:17	1
2-Hexanone	ND		5.0		ug/L			06/08/22 10:17	1
4-Chlorotoluene	ND		1.0		ug/L			06/08/22 10:17	1
4-Isopropyltoluene	ND		1.0		ug/L			06/08/22 10:17	1
4-Methyl-2-pentanone	ND		5.0		ug/L			06/08/22 10:17	1
Acetone	ND		10		ug/L			06/08/22 10:17	1
Benzene	ND		1.0		ug/L			06/08/22 10:17	1
Bromobenzene	ND		1.0		ug/L			06/08/22 10:17	1
Bromochloromethane	ND		1.0		ug/L			06/08/22 10:17	1
Bromodichloromethane	ND		1.0		ug/L			06/08/22 10:17	1
Bromoform	ND		1.0		ug/L			06/08/22 10:17	1
Bromomethane	ND		2.0		ug/L			06/08/22 10:17	1
Carbon disulfide	ND		2.0		ug/L			06/08/22 10:17	1
Carbon tetrachloride	ND		1.0		ug/L			06/08/22 10:17	1
Chlorobenzene	ND		1.0		ug/L			06/08/22 10:17	1
Chloroethane	ND		2.0		ug/L			06/08/22 10:17	1
Chloroform	ND		1.0		ug/L			06/08/22 10:17	1
Chloromethane	ND		2.0		ug/L			06/08/22 10:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/08/22 10:17	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/08/22 10:17	1
Dibromochloromethane	ND		1.0		ug/L			06/08/22 10:17	1
Dibromomethane	ND		1.0		ug/L			06/08/22 10:17	1
Dichlorodifluoromethane	ND		2.0		ug/L			06/08/22 10:17	1
Ethylbenzene	ND		1.0		ug/L			06/08/22 10:17	1
Hexachlorobutadiene	ND		1.0		ug/L			06/08/22 10:17	1
Isopropylbenzene	ND		1.0		ug/L			06/08/22 10:17	1
Methylene Chloride	ND		5.0		ug/L			06/08/22 10:17	1
Naphthalene	ND		1.0		ug/L			06/08/22 10:17	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-577411/9
Matrix: Water
Analysis Batch: 577411

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			06/08/22 10:17	1
N-Propylbenzene	ND		1.0		ug/L			06/08/22 10:17	1
sec-Butylbenzene	ND		1.0		ug/L			06/08/22 10:17	1
Styrene	ND		1.0		ug/L			06/08/22 10:17	1
tert-Butylbenzene	ND		1.0		ug/L			06/08/22 10:17	1
Tetrachloroethene	ND		1.0		ug/L			06/08/22 10:17	1
Toluene	ND		1.0		ug/L			06/08/22 10:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/08/22 10:17	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			06/08/22 10:17	1
Trichloroethene	ND		1.0		ug/L			06/08/22 10:17	1
Trichlorofluoromethane	ND		2.0		ug/L			06/08/22 10:17	1
Vinyl chloride	ND		1.0		ug/L			06/08/22 10:17	1
Xylenes (total)	ND		2.0		ug/L			06/08/22 10:17	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/08/22 10:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*		*06/08/22 10:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*06/08/22 10:17*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 120*		*06/08/22 10:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*06/08/22 10:17*	*1*

Lab Sample ID: LCS 280-577411/4
Matrix: Water
Analysis Batch: 577411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	23.9		ug/L		96	74 - 121
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	62 - 132
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	72 - 122
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	72 - 128
1,1-Dichloroethane	25.0	25.8		ug/L		103	66 - 130
1,1-Dichloroethene	25.0	26.6		ug/L		106	62 - 130
1,1-Dichloropropene	25.0	25.7		ug/L		103	64 - 133
1,2,3-Trichlorobenzene	25.0	22.2		ug/L		89	70 - 127
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	74 - 123
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		92	73 - 124
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		106	74 - 124
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	77 - 121
1,2-Dichloroethane	25.0	23.7		ug/L		95	61 - 130
1,2-Dichloropropane	25.0	27.1		ug/L		108	68 - 127
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	73 - 127
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	76 - 121
1,3-Dichloropropane	25.0	24.9		ug/L		99	80 - 118
1,4-Dichlorobenzene	25.0	24.1		ug/L		97	76 - 119
2,2-Dichloropropane	25.0	26.1		ug/L		104	57 - 140
2-Butanone (MEK)	100	82.8		ug/L		83	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-577411/4
Matrix: Water
Analysis Batch: 577411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	25.0	24.6		ug/L		99	75 - 123
2-Hexanone	100	81.2		ug/L		81	58 - 134
4-Chlorotoluene	25.0	24.7		ug/L		99	74 - 124
4-Isopropyltoluene	25.0	25.5		ug/L		102	74 - 127
4-Methyl-2-pentanone	100	90.7		ug/L		91	56 - 135
Acetone	100	88.3		ug/L		88	50 - 137
Benzene	25.0	26.9		ug/L		107	69 - 126
Bromobenzene	25.0	24.4		ug/L		98	75 - 122
Bromochloromethane	25.0	25.9		ug/L		104	71 - 130
Bromodichloromethane	25.0	26.5		ug/L		106	67 - 126
Bromoform	25.0	24.6		ug/L		98	57 - 125
Bromomethane	25.0	43.8	*+	ug/L		175	25 - 163
Carbon disulfide	25.0	29.6		ug/L		118	56 - 128
Carbon tetrachloride	25.0	26.1		ug/L		104	60 - 133
Chlorobenzene	25.0	24.6		ug/L		98	78 - 118
Chloroethane	25.0	32.4		ug/L		130	52 - 144
Chloroform	25.0	26.5		ug/L		106	68 - 128
Chloromethane	25.0	31.8		ug/L		127	43 - 142
cis-1,2-Dichloroethene	25.0	26.0		ug/L		104	69 - 126
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	75 - 120
Dibromochloromethane	25.0	25.2		ug/L		101	71 - 122
Dibromomethane	25.0	25.4		ug/L		102	68 - 129
Dichlorodifluoromethane	25.0	32.5		ug/L		130	26 - 152
Ethylbenzene	25.0	24.9		ug/L		100	76 - 121
Hexachlorobutadiene	25.0	25.2		ug/L		101	69 - 133
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 127
Methylene Chloride	25.0	28.7		ug/L		115	64 - 128
Naphthalene	25.0	20.8		ug/L		83	63 - 129
n-Butylbenzene	25.0	26.6		ug/L		107	69 - 130
N-Propylbenzene	25.0	24.3		ug/L		97	73 - 127
sec-Butylbenzene	25.0	24.0		ug/L		96	72 - 127
Styrene	25.0	25.9		ug/L		103	79 - 120
tert-Butylbenzene	25.0	24.6		ug/L		98	72 - 126
Tetrachloroethene	25.0	24.1		ug/L		96	72 - 127
Toluene	25.0	26.5		ug/L		106	68 - 127
trans-1,2-Dichloroethene	25.0	26.4		ug/L		105	66 - 129
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	66 - 127
Trichloroethene	25.0	24.6		ug/L		98	70 - 125
Trichlorofluoromethane	25.0	30.0		ug/L		120	57 - 144
Vinyl chloride	25.0	33.5		ug/L		134	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-577411/5
Matrix: Water
Analysis Batch: 577411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	24.5		ug/L		98	74 - 121	3	20
1,1,1-Trichloroethane			25.0	25.6		ug/L		102	62 - 132	1	20
1,1,2,2-Tetrachloroethane			25.0	24.3		ug/L		97	72 - 122	1	20
1,1,2-Trichloroethane			25.0	26.0		ug/L		104	72 - 128	1	20
1,1-Dichloroethane			25.0	25.9		ug/L		104	66 - 130	0	20
1,1-Dichloroethene			25.0	26.8		ug/L		107	62 - 130	1	21
1,1-Dichloropropene			25.0	26.2		ug/L		105	64 - 133	2	20
1,2,3-Trichlorobenzene			25.0	23.1		ug/L		92	70 - 127	4	20
1,2,3-Trichloropropane			25.0	24.0		ug/L		96	74 - 123	3	20
1,2,4-Trichlorobenzene			25.0	24.0		ug/L		96	73 - 124	4	20
1,2,4-Trimethylbenzene			25.0	26.5		ug/L		106	74 - 124	0	20
1,2-Dichlorobenzene			25.0	25.3		ug/L		101	77 - 121	1	20
1,2-Dichloroethane			25.0	23.4		ug/L		94	61 - 130	1	20
1,2-Dichloropropane			25.0	27.0		ug/L		108	68 - 127	0	20
1,3,5-Trimethylbenzene			25.0	26.0		ug/L		104	73 - 127	1	20
1,3-Dichlorobenzene			25.0	24.6		ug/L		98	76 - 121	1	20
1,3-Dichloropropane			25.0	25.6		ug/L		102	80 - 118	3	20
1,4-Dichlorobenzene			25.0	23.9		ug/L		96	76 - 119	1	20
2,2-Dichloropropane			25.0	25.8		ug/L		103	57 - 140	1	22
2-Butanone (MEK)			100	84.0		ug/L		84	53 - 135	1	20
2-Chlorotoluene			25.0	24.9		ug/L		100	75 - 123	1	20
2-Hexanone			100	80.7		ug/L		81	58 - 134	1	21
4-Chlorotoluene			25.0	25.6		ug/L		102	74 - 124	3	20
4-Isopropyltoluene			25.0	25.9		ug/L		104	74 - 127	2	20
4-Methyl-2-pentanone			100	90.0		ug/L		90	56 - 135	1	20
Acetone			100	88.8		ug/L		89	50 - 137	0	21
Benzene			25.0	26.8		ug/L		107	69 - 126	0	20
Bromobenzene			25.0	24.5		ug/L		98	75 - 122	1	20
Bromochloromethane			25.0	25.9		ug/L		104	71 - 130	0	20
Bromodichloromethane			25.0	26.3		ug/L		105	67 - 126	1	20
Bromoform			25.0	25.2		ug/L		101	57 - 125	3	20
Bromomethane			25.0	39.5		ug/L		158	25 - 163	10	40
Carbon disulfide			25.0	29.6		ug/L		118	56 - 128	0	20
Carbon tetrachloride			25.0	26.5		ug/L		106	60 - 133	2	20
Chlorobenzene			25.0	25.3		ug/L		101	78 - 118	3	20
Chloroethane			25.0	19.3	*1	ug/L		77	52 - 144	51	30
Chloroform			25.0	26.3		ug/L		105	68 - 128	1	20
Chloromethane			25.0	22.0	*1	ug/L		88	43 - 142	36	20
cis-1,2-Dichloroethene			25.0	25.8		ug/L		103	69 - 126	1	20
cis-1,3-Dichloropropene			25.0	25.5		ug/L		102	75 - 120	3	20
Dibromochloromethane			25.0	25.5		ug/L		102	71 - 122	1	20
Dibromomethane			25.0	25.8		ug/L		103	68 - 129	2	20
Dichlorodifluoromethane			25.0	31.0		ug/L		124	26 - 152	5	21
Ethylbenzene			25.0	25.6		ug/L		102	76 - 121	3	20
Hexachlorobutadiene			25.0	24.8		ug/L		99	69 - 133	1	20
Isopropylbenzene			25.0	25.4		ug/L		102	70 - 127	2	20
Methylene Chloride			25.0	28.7		ug/L		115	64 - 128	0	20
Naphthalene			25.0	21.6		ug/L		86	63 - 129	4	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-577411/5
Matrix: Water
Analysis Batch: 577411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene	25.0	27.0		ug/L		108	69 - 130	1	20
N-Propylbenzene	25.0	24.8		ug/L		99	73 - 127	2	20
sec-Butylbenzene	25.0	24.0		ug/L		96	72 - 127	0	20
Styrene	25.0	26.3		ug/L		105	79 - 120	2	20
tert-Butylbenzene	25.0	25.1		ug/L		100	72 - 126	2	20
Tetrachloroethene	25.0	24.9		ug/L		99	72 - 127	3	20
Toluene	25.0	26.4		ug/L		106	68 - 127	0	20
trans-1,2-Dichloroethene	25.0	26.9		ug/L		107	66 - 129	2	20
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	66 - 127	0	20
Trichloroethene	25.0	25.1		ug/L		100	70 - 125	2	20
Trichlorofluoromethane	25.0	23.1		ug/L		92	57 - 144	26	28
Vinyl chloride	25.0	23.1	*1	ug/L		92	53 - 141	37	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-577389/1-A
Matrix: Water
Analysis Batch: 577396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		06/07/22 17:37	06/07/22 22:42	1
1,2-Dibromoethane	ND		0.050		ug/L		06/07/22 17:37	06/07/22 22:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*94*		*70 - 130*	*06/07/22 17:37*	*06/07/22 22:42*	*1*

Lab Sample ID: LCS 280-577389/2-A
Matrix: Water
Analysis Batch: 577396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 577389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.250	0.248		ug/L		99	60 - 140
1,2-Dibromoethane	0.250	0.227		ug/L		91	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*94*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 280-577389/3-A
Matrix: Water
Analysis Batch: 577396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 577389

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.254		ug/L		101	60 - 140	2	10
1,2-Dibromoethane			0.250	0.235		ug/L		94	60 - 140	4	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*92*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-577621/1-A
Matrix: Water
Analysis Batch: 577836

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 577621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		06/10/22 08:39	06/11/22 07:18	1
Iron	ND		30		ug/L		06/10/22 08:39	06/11/22 07:18	1
Magnesium	ND		200		ug/L		06/10/22 08:39	06/11/22 07:18	1
Manganese	ND		3.0		ug/L		06/10/22 08:39	06/11/22 07:18	1
Potassium	ND		500		ug/L		06/10/22 08:39	06/11/22 07:18	1
Sodium	ND		1000		ug/L		06/10/22 08:39	06/11/22 07:18	1

Lab Sample ID: LCS 280-577621/2-A
Matrix: Water
Analysis Batch: 577836

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 577621

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50000	51200		ug/L		102	90 - 111		
Iron			10000	10300		ug/L		103	89 - 115		
Magnesium			50000	50400		ug/L		101	90 - 113		
Manganese			1000	1030		ug/L		103	90 - 110		
Potassium			50000	50800		ug/L		102	89 - 114		
Sodium			50000	51500		ug/L		103	90 - 115		

Lab Sample ID: 280-163025-C-9-B MS
Matrix: Water
Analysis Batch: 577836

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 577621

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	1100		50000	51300		ug/L		100	48 - 153		
Iron	ND		10000	10100		ug/L		101	52 - 155		
Magnesium	1200		50000	51200		ug/L		100	62 - 146		
Manganese	3.4		1000	1020		ug/L		102	79 - 121		
Potassium	650		50000	50100		ug/L		99	76 - 132		
Sodium	6300		50000	55700		ug/L		99	70 - 203		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-163025-C-9-C MSD
Matrix: Water
Analysis Batch: 577836

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 577621

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	1100		50000	47800		ug/L		93	48 - 153	7	20
Iron	ND		10000	9410		ug/L		94	52 - 155	7	20
Magnesium	1200		50000	47600		ug/L		93	62 - 146	7	20
Manganese	3.4		1000	948		ug/L		94	79 - 121	7	20
Potassium	650		50000	46600		ug/L		92	76 - 132	7	20
Sodium	6300		50000	51900		ug/L		91	70 - 203	7	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-630196/4
Matrix: Water
Analysis Batch: 630196

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			06/16/22 03:11	1
Sulfate	ND		1.0		mg/L			06/16/22 03:11	1

Lab Sample ID: LCS 480-630196/5
Matrix: Water
Analysis Batch: 630196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	50.4		mg/L		101	90 - 110
Sulfate	50.0	50.2		mg/L		100	90 - 110

Lab Sample ID: MB 480-630550/28
Matrix: Water
Analysis Batch: 630550

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			06/18/22 01:42	1
Sulfate	ND		1.0		mg/L			06/18/22 01:42	1

Lab Sample ID: LCS 480-630550/29
Matrix: Water
Analysis Batch: 630550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	48.2		mg/L		96	90 - 110
Sulfate	50.0	48.1		mg/L		96	90 - 110

Lab Sample ID: 480-198911-C-3 MS
Matrix: Water
Analysis Batch: 630550

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	37		100	129		mg/L		91	81 - 120
Sulfate	ND		100	92.8		mg/L		93	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-198911-C-3 MSD
Matrix: Water
Analysis Batch: 630550

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37		100	128		mg/L		91	81 - 120	0	15
Sulfate	ND		100	92.4		mg/L		92	80 - 120	0	15

Lab Sample ID: 480-199027-G-1 MS
Matrix: Water
Analysis Batch: 630550

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	150		251	382		mg/L		91	81 - 120
Sulfate	51		250	281		mg/L		92	80 - 120

Lab Sample ID: 480-198665-C-3 MS
Matrix: Water
Analysis Batch: 630196

Client Sample ID: Matrix Spike
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		50.1	46.3		mg/L		92	81 - 120
Sulfate	ND		50.0	46.8		mg/L		92	80 - 120

Lab Sample ID: 480-198665-C-3 MSD
Matrix: Water
Analysis Batch: 630196

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.1	46.3		mg/L		92	81 - 120	0	15
Sulfate	ND		50.0	46.8		mg/L		92	80 - 120	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-578455/19
Matrix: Water
Analysis Batch: 578455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			06/18/22 09:23	1

Lab Sample ID: LCS 280-578455/17
Matrix: Water
Analysis Batch: 578455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.53		mg/L		101	90 - 110

Lab Sample ID: LCSD 280-578455/18
Matrix: Water
Analysis Batch: 578455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	2.50	2.53		mg/L		101	90 - 110	0	10

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 280-162776-A-13 MS
Matrix: Water
Analysis Batch: 578455

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	ND		1.00	1.01		mg/L		101	90 - 110		

Lab Sample ID: 280-162776-A-13 MSD
Matrix: Water
Analysis Batch: 578455

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.02		mg/L		102	90 - 110	1	10

Lab Sample ID: 280-162840-A-2 MS
Matrix: Water
Analysis Batch: 578455

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	ND		1.00	1.00		mg/L		100	90 - 110		

Lab Sample ID: 280-162840-A-2 MSD
Matrix: Water
Analysis Batch: 578455

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.00		mg/L		100	90 - 110	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-578283/23
Matrix: Water
Analysis Batch: 578283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			06/16/22 11:34	1

Lab Sample ID: LCS 280-578283/21
Matrix: Water
Analysis Batch: 578283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite			5.00	4.95		mg/L		99	90 - 110		

Lab Sample ID: LCSD 280-578283/22
Matrix: Water
Analysis Batch: 578283

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite			5.00	4.98		mg/L		100	90 - 110	1	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 280-162841-A-5 MS
Matrix: Water
Analysis Batch: 578283

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	0.44		4.00	4.46		mg/L		101	90 - 110

Lab Sample ID: 280-162841-A-5 MSD
Matrix: Water
Analysis Batch: 578283

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	0.44		4.00	4.52		mg/L		102	90 - 110	1	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-577172/4
Matrix: Water
Analysis Batch: 577172

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			06/03/22 17:08	1

Lab Sample ID: LCS 280-577172/3
Matrix: Water
Analysis Batch: 577172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	24.7		mg/L		99	88 - 112

Lab Sample ID: 280-162989-4 MS
Matrix: Water
Analysis Batch: 577172

Client Sample ID: DUP5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	2.6		25.0	27.3		mg/L		99	88 - 112

Lab Sample ID: 280-162989-4 MSD
Matrix: Water
Analysis Batch: 577172

Client Sample ID: DUP5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	2.6		25.0	27.4		mg/L		99	88 - 112	0	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-578517/1
Matrix: Water
Analysis Batch: 578517

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			06/20/22 11:15	1
Magnesium	0.000				meq/L			06/20/22 11:15	1
Potassium	0.000				meq/L			06/20/22 11:15	1
Sodium	0.000				meq/L			06/20/22 11:15	1

Method: SM 1030E (meq) - Cation Anion Balance (Continued)

Lab Sample ID: MB 280-578517/1
Matrix: Water
Analysis Batch: 578517

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.000				meq/L			06/20/22 11:15	1
Chloride	0.000				meq/L			06/20/22 11:15	1
Sulfate	0.000				meq/L			06/20/22 11:15	1
Alkalinity	0.000				mg/L			06/20/22 11:15	1
Bicarbonate Alkalinity	0.000				meq/L			06/20/22 11:15	1
Nitrate/Nitrite	0.000				meq/L			06/20/22 11:15	1
Iron	0.000				meq/L			06/20/22 11:15	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-577294/32
Matrix: Water
Analysis Batch: 577294

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			06/06/22 16:31	1

Lab Sample ID: MB 280-577294/58
Matrix: Water
Analysis Batch: 577294

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			06/06/22 19:19	1

Lab Sample ID: MB 280-577294/6
Matrix: Water
Analysis Batch: 577294

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			06/06/22 14:10	1

Lab Sample ID: 280-162978-B-12 DU
Matrix: Water
Analysis Batch: 577294

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	990			980		mg/L				0.6	20

Lab Sample ID: MB 280-577614/6
Matrix: Water
Analysis Batch: 577614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			06/08/22 15:52	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-163028-K-1 DU
Matrix: Water
Analysis Batch: 577614

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	310			318		mg/L				1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-577023/1
Matrix: Water
Analysis Batch: 577023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			06/03/22 08:42	1

Lab Sample ID: LCS 280-577023/2
Matrix: Water
Analysis Batch: 577023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			509	502		mg/L		99	88 - 114		

Lab Sample ID: LCSD 280-577023/3
Matrix: Water
Analysis Batch: 577023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			509	501		mg/L		98	88 - 114	0	20

Lab Sample ID: 280-162989-2 DU
Matrix: Water
Analysis Batch: 577023

Client Sample ID: FB5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	ND			ND		mg/L				NC	10

Lab Sample ID: MB 280-577187/1
Matrix: Water
Analysis Batch: 577187

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			06/06/22 09:58	1

Lab Sample ID: LCS 280-577187/2
Matrix: Water
Analysis Batch: 577187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			501	488		mg/L		97	88 - 114		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 280-577187/3
Matrix: Water
Analysis Batch: 577187

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			501	487		mg/L		97	88 - 114	0	20

Lab Sample ID: 160-45698-A-2 DU
Matrix: Water
Analysis Batch: 577187

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	180			173		mg/L				2	10

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-162989-1

GC/MS VOA

Analysis Batch: 577411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-1	TRIP BLANK	Total/NA	Water	8260B	
280-162989-2	FB5	Total/NA	Water	8260B	
280-162989-3	MW-21B	Total/NA	Water	8260B	
280-162989-4	DUP5	Total/NA	Water	8260B	
MB 280-577411/9	Method Blank	Total/NA	Water	8260B	
LCS 280-577411/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-577411/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 577389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-1	TRIP BLANK	Total/NA	Water	8011	
280-162989-2	FB5	Total/NA	Water	8011	
280-162989-3	MW-21B	Total/NA	Water	8011	
280-162989-4	DUP5	Total/NA	Water	8011	
MB 280-577389/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-577389/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-577389/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 577396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-1	TRIP BLANK	Total/NA	Water	8011	577389
280-162989-2	FB5	Total/NA	Water	8011	577389
280-162989-3	MW-21B	Total/NA	Water	8011	577389
280-162989-4	DUP5	Total/NA	Water	8011	577389
MB 280-577389/1-A	Method Blank	Total/NA	Water	8011	577389
LCS 280-577389/2-A	Lab Control Sample	Total/NA	Water	8011	577389
LCSD 280-577389/3-A	Lab Control Sample Dup	Total/NA	Water	8011	577389

Metals

Prep Batch: 577621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-2	FB5	Dissolved	Water	3005A	
280-162989-3	MW-21B	Dissolved	Water	3005A	
280-162989-4	DUP5	Dissolved	Water	3005A	
MB 280-577621/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-577621/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-163025-C-9-B MS	Matrix Spike	Dissolved	Water	3005A	
280-163025-C-9-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 577836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-2	FB5	Dissolved	Water	6010B	577621
280-162989-3	MW-21B	Dissolved	Water	6010B	577621
280-162989-4	DUP5	Dissolved	Water	6010B	577621
MB 280-577621/1-A	Method Blank	Total Recoverable	Water	6010B	577621
LCS 280-577621/2-A	Lab Control Sample	Total Recoverable	Water	6010B	577621
280-163025-C-9-B MS	Matrix Spike	Dissolved	Water	6010B	577621
280-163025-C-9-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	577621

General Chemistry

Analysis Batch: 577023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-2	FB5	Total/NA	Water	SM 2540C	
MB 280-577023/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-577023/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-577023/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-162989-2 DU	FB5	Total/NA	Water	SM 2540C	

Analysis Batch: 577172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-2	FB5	Total/NA	Water	9060	
280-162989-3	MW-21B	Total/NA	Water	9060	
280-162989-4	DUP5	Total/NA	Water	9060	
MB 280-577172/4	Method Blank	Total/NA	Water	9060	
LCS 280-577172/3	Lab Control Sample	Total/NA	Water	9060	
280-162989-4 MS	DUP5	Total/NA	Water	9060	
280-162989-4 MSD	DUP5	Total/NA	Water	9060	

Analysis Batch: 577187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-3	MW-21B	Total/NA	Water	SM 2540C	
280-162989-4	DUP5	Total/NA	Water	SM 2540C	
MB 280-577187/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-577187/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-577187/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
160-45698-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 577294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-2	FB5	Total/NA	Water	SM 2320B	
280-162989-3	MW-21B	Total/NA	Water	SM 2320B	
MB 280-577294/32	Method Blank	Total/NA	Water	SM 2320B	
MB 280-577294/58	Method Blank	Total/NA	Water	SM 2320B	
MB 280-577294/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-577294/57	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-577294/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-162978-B-12 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 577614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-4	DUP5	Total/NA	Water	SM 2320B	
MB 280-577614/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-577614/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-577614/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-163028-K-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 578283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-2	FB5	Total/NA	Water	353.2	
280-162989-3	MW-21B	Total/NA	Water	353.2	
280-162989-4	DUP5	Total/NA	Water	353.2	
MB 280-578283/23	Method Blank	Total/NA	Water	353.2	
LCS 280-578283/21	Lab Control Sample	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 578283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-578283/22	Lab Control Sample Dup	Total/NA	Water	353.2	
280-162841-A-5 MS	Matrix Spike	Total/NA	Water	353.2	
280-162841-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 578455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-2	FB5	Total/NA	Water	350.1	
280-162989-3	MW-21B	Total/NA	Water	350.1	
280-162989-4	DUP5	Total/NA	Water	350.1	
MB 280-578455/19	Method Blank	Total/NA	Water	350.1	
LCS 280-578455/17	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-578455/18	Lab Control Sample Dup	Total/NA	Water	350.1	
280-162776-A-13 MS	Matrix Spike	Total/NA	Water	350.1	
280-162776-A-13 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
280-162840-A-2 MS	Matrix Spike	Total/NA	Water	350.1	
280-162840-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 578517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-2	FB5	Total/NA	Water	SM 1030E	
280-162989-2	FB5	Total/NA	Water	SM 1030E (meq)	
280-162989-3	MW-21B	Total/NA	Water	SM 1030E	
280-162989-3	MW-21B	Total/NA	Water	SM 1030E (meq)	
280-162989-4	DUP5	Total/NA	Water	SM 1030E	
280-162989-4	DUP5	Total/NA	Water	SM 1030E (meq)	
MB 280-578517/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 630196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-2	FB5	Total/NA	Water	300.0	
MB 480-630196/4	Method Blank	Total/NA	Water	300.0	
LCS 480-630196/5	Lab Control Sample	Total/NA	Water	300.0	
480-198665-C-3 MS	Matrix Spike	Dissolved	Water	300.0	
480-198665-C-3 MSD	Matrix Spike Duplicate	Dissolved	Water	300.0	

Analysis Batch: 630550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-162989-3	MW-21B	Total/NA	Water	300.0	
280-162989-4	DUP5	Total/NA	Water	300.0	
MB 480-630550/28	Method Blank	Total/NA	Water	300.0	
LCS 480-630550/29	Lab Control Sample	Total/NA	Water	300.0	
480-198911-C-3 MS	Matrix Spike	Total/NA	Water	300.0	
480-198911-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
480-199027-G-1 MS	Matrix Spike	Total/NA	Water	300.0	

Lab Chronicle

Client: Waste Management
Job ID: 280-162989-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-162989-1
Date Collected: 06/01/22 08:00
Matrix: Water
Date Received: 06/02/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	577411	06/08/22 10:59	TAW	EET DEN
Total/NA	Prep	8011			35.3 mL	35 mL	577389	06/07/22 17:37	KSA	EET DEN
Total/NA	Analysis	8011		1			577396	06/08/22 06:15	KSA	EET DEN

Client Sample ID: FB5
Lab Sample ID: 280-162989-2
Date Collected: 06/01/22 09:45
Matrix: Water
Date Received: 06/02/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	577411	06/08/22 13:28	TAW	EET DEN
Total/NA	Prep	8011			35.1 mL	35 mL	577389	06/07/22 17:37	KSA	EET DEN
Total/NA	Analysis	8011		1			577396	06/08/22 06:39	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	577621	06/10/22 08:39	PFM	EET DEN
Dissolved	Analysis	6010B		1			577836	06/11/22 08:15	MAB	EET DEN
Total/NA	Analysis	300.0		1			630196	06/16/22 03:50	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	578455	06/18/22 10:03	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	578283	06/16/22 12:42	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	577172	06/03/22 20:53	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			578517	06/20/22 11:15	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			578517	06/20/22 11:15	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			577294	06/06/22 20:47	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	577023	06/03/22 09:42	ABW	EET DEN

Client Sample ID: MW-21B
Lab Sample ID: 280-162989-3
Date Collected: 06/01/22 10:15
Matrix: Water
Date Received: 06/02/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	577411	06/08/22 13:50	TAW	EET DEN
Total/NA	Prep	8011			35.2 mL	35 mL	577389	06/07/22 17:37	KSA	EET DEN
Total/NA	Analysis	8011		1			577396	06/08/22 07:02	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	577621	06/10/22 08:39	PFM	EET DEN
Dissolved	Analysis	6010B		1			577836	06/11/22 08:19	MAB	EET DEN
Total/NA	Analysis	300.0		1			630550	06/18/22 06:39	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	578455	06/18/22 10:05	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	578283	06/16/22 12:44	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	577172	06/03/22 21:07	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			578517	06/20/22 11:15	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			578517	06/20/22 11:15	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			577294	06/06/22 20:50	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	577187	06/06/22 09:59	CAI	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-162989-1

Client Sample ID: DUP5

Date Collected: 06/01/22 10:20
Date Received: 06/02/22 10:00

Lab Sample ID: 280-162989-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	577411	06/08/22 14:11	TAW	EET DEN
Total/NA	Prep	8011			35.3 mL	35 mL	577389	06/07/22 17:37	KSA	EET DEN
Total/NA	Analysis	8011		1			577396	06/08/22 07:26	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	577621	06/10/22 08:39	PFM	EET DEN
Dissolved	Analysis	6010B		1			577836	06/11/22 08:23	MAB	EET DEN
Total/NA	Analysis	300.0		1			630550	06/18/22 06:58	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	578455	06/18/22 10:18	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	578283	06/16/22 12:46	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	577172	06/03/22 21:24	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			578517	06/20/22 11:15	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			578517	06/20/22 11:15	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			577614	06/08/22 16:42	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	577187	06/06/22 09:59	CAI	EET DEN

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: SCS	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-16511-866.1
Client Contact:	Phone: (503) 718 4568	E-Mail: Janice.collins@et.eurofinsus.com		Page:
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name:1003|Riverbend Landfill SCS Engineers Event Desc: Semiannual Compliance Wells - Apr Oct	Project #: 28002786			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alk	Dissolved Metals	Ammonia/TOC/NO3+NO2	8260B	8011	Cation/Anion Balance	Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	R		N		
TB1	6/1/22	0800	G	W						X	X			2	
FB5	6/1/22	0945	G	W	X		X	X	X	X	X	X	X	11	
MW-21B	6/1/22	1015	G	W	X		X	X	X	X	X	X	X	11	
DUP5	6/1/22	1020	G	W	X		X	X	X	X	X	X	X	11	

280-162989 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
B. Rapoco	6/1/22 @ 1630	SCS		6/2/22 1000	EETA-DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No	1773779	4.3 + 0.1 IR#12

ORIGIN ID:BNOA

SHIP DATE: 01JUN22
ACTWGT: 56.20 LB
CAD: /SSFE2321
DIMS: 15x25x15 IN

TO EUROFINS TEST AMERICA
TESTAMERICA
4955 YARROW ST

ARVADA CO 80002 (US)
(303) 432-8921
INV:
PO: REF:
DEPT:

FedEx Express

TRK# 0667 8165 8007 6430

THU - 02 JUN 10:30A
PRIORITY OVERNIGHT

XA LAAA 4.3

80002
CO-US DEN

Custody Seal
DATE 6/1/22
SIGNATURE

eurofins | Environment Testing TestAmerica

1773779

280-162989 Waybill

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-617108.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-162989-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 6/22/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FB5 (280-162989-2)	6/1/22	09:45 Pacific		Water			X	1	
MW-21B (280-162989-3)	6/1/22	10:15 Pacific		Water			X	1	
DUP5 (280-162989-4)	6/1/22	10:20 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:		
Relinquished by:	Date/Time: 6/3/22 1500	Company EA DEN	Received by:	Date/Time: 6/4/22 1000	Company EA	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.6 # ICE			

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-162989-1

Login Number: 162989
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-162989-1

Login Number: 162989
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 06/06/22 10:46 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6 ir gun #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-161414-1
Client Project/Site: 1003|Riverbend Landfill SCS Engineers
Sampling Event: Semiannual Compliance Wells - Apr Oct
Revision: 1

For:
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Attn: Mr. William V Hickey, PMP

Authorized for release by:
6/9/2022 7:48:12 PM

Janice Collins, Project Management Assistant I
(303)736-0100
Janice.Collins@et.eurofinsus.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-161414-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-161414-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 04/22/2022 and 4/25/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt were 0.4°C, 2.1°C, 3.2°C, 4.4°C and 7.5°C. The cooler temperature was above the recommended temperature of 6.0 C. The client was notified and requested to proceed with all analyses.

One of three VOA vials for the sample MW12-1 was received broken. Sufficient volume remained to proceed with the analysis.

Holding Times

All holding times were met.

Method Blanks

All Method Blanks met method criteria.

Laboratory Control Samples (LCS)

1,2-Dichlorobenzene and 1,3-Dichlorobenzene Method 8260B recovered outside control limits for the LCS associated with analytical batch 280-573474. This is not indicative of a systematic control problem because these were random marginal exceedances.

The Method 8260B laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with the sample TRIP BLANK recovered low for the analyte 1,4-Dichlorobenzene (both recovered at 75, lower limit 76). The %RPD between the two is within acceptable limits and the analyte is within acceptable limits in the continuing calibration verification (CCV). There is no remaining volume for reanalysis of the sample; therefore, data was reported.

All other Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)
Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) for Method 8260B (Batch 573636) and Method 8011, however, LCS/LCSD pairs were analyzed to demonstrate method precision and accuracy.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for multiple spike compounds Method 8260B. In addition, the RPD was outside of the RPD limits for multiple spike compounds Method 8260B. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may

Job ID: 280-161414-1 (Continued)

Laboratory: Eurofins Denver (Continued)

be due to matrix interference and no corrective action was taken.

All other MS and MSD results were within established control limits.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

The analysis for Chloride and Sulfate Method 300.0 was performed by TestAmerica Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
Phone: 716-691-2600

Report Revision

This submission was revised to report the correct Anion/Cation Balance result for the sample MW-15A. Due to a laboratory error, the original Anion/Cation Balance result for the sample MW-15A was incorrectly reported.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161414-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-161414-1

No Detections.

Client Sample ID: MW-12A — Lab Sample ID: 280-161414-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	28000		500		ug/L	1		6010B	Dissolved
Magnesium	11000		200		ug/L	1		6010B	Dissolved
Potassium	790		500		ug/L	1		6010B	Dissolved
Sodium	30000		1000		ug/L	1		6010B	Dissolved
Chloride	60		0.50		mg/L	1		300.0	Total/NA
Sulfate	18		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	3.0		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.8		1.0		mg/L	1		9060	Total/NA
Total Anions	3.8				meq/L	1		SM 1030E	Total/NA
Total Cations	3.6				meq/L	1		SM 1030E	Total/NA
Percent Difference	-2.6				%	1		SM 1030E	Total/NA
Calcium	28				mg/L	1		SM 1030E	Total/NA
Magnesium	11				mg/L	1		SM 1030E	Total/NA
Potassium	0.79				mg/L	1		SM 1030E	Total/NA
Sodium	30				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	60				mg/L	1		SM 1030E	Total/NA
Sulfate	18				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	77				mg/L	1		SM 1030E	Total/NA
Alkalinity	77				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	3.0				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-2.6				%	1		SM 1030E	Total/NA
Calculated TDS	180				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	240				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	1.4				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.91				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.020				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.3				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	1.7				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.37				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	77				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.21				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	77		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	240		10		mg/L	1		SM 2540C	Total/NA
Field pH	5.91				SU	1		Field Sampling	Total/NA
Field Conductivity	440.3				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.4				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.20				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	196.2				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161414-1

Client Sample ID: MW-12B — Lab Sample ID: 280-161414-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	62000		500		ug/L	1		6010B	Dissolved
Iron	2300		30		ug/L	1		6010B	Dissolved
Magnesium	19000		200		ug/L	1		6010B	Dissolved
Manganese	1200		3.0		ug/L	1		6010B	Dissolved
Potassium	530		500		ug/L	1		6010B	Dissolved
Sodium	23000		1000		ug/L	1		6010B	Dissolved
Chloride	62		0.50		mg/L	1		300.0	Total/NA
Ammonia as N	0.34		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	1.5		1.0		mg/L	1		9060	Total/NA
Total Anions	5.5				meq/L	1		SM 1030E	Total/NA
Total Cations	5.8				meq/L	1		SM 1030E	Total/NA
Percent Difference	2.4				%	1		SM 1030E	Total/NA
Calcium	62				mg/L	1		SM 1030E	Total/NA
Magnesium	19				mg/L	1		SM 1030E	Total/NA
Potassium	0.53				mg/L	1		SM 1030E	Total/NA
Sodium	23				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.34				mg/L	1		SM 1030E	Total/NA
Chloride	62				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	190				mg/L	1		SM 1030E	Total/NA
Alkalinity	190				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	2.4				%	1		SM 1030E	Total/NA
Calculated TDS	280				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	310				mg/L	1		SM 1030E	Total/NA
Iron	2.3				mg/L	1		SM 1030E	Total/NA
Calcium	3.1				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.6				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.014				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.0				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.024				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	1.7				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	190				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	3.8				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.12				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	190		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	310		10		mg/L	1		SM 2540C	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA
Field Conductivity	594.9				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.7				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.22				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-44.1				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-15A — Lab Sample ID: 280-161414-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	6900		500		ug/L	1		6010B	Dissolved
Iron	66		30		ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-15A (Continued)

Lab Sample ID: 280-161414-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	2400		200		ug/L	1		6010B	Dissolved
Sodium	19000		1000		ug/L	1		6010B	Dissolved
Chloride	2.3		0.50		mg/L	1		300.0	Total/NA
Sulfate	24		1.0		mg/L	1		300.0	Total/NA
Total Organic Carbon - Average	1.3		1.0		mg/L	1		9060	Total/NA
Total Anions	1.5				meq/L	1		SM 1030E	Total/NA
Total Cations	1.4				meq/L	1		SM 1030E	Total/NA
Percent Difference	-3.9				%	1		SM 1030E	Total/NA
Calcium	6.9				mg/L	1		SM 1030E	Total/NA
Magnesium	2.4				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	19				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	2.3				mg/L	1		SM 1030E	Total/NA
Sulfate	24				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	46				mg/L	1		SM 1030E	Total/NA
Alkalinity	46				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-3.9				%	1		SM 1030E	Total/NA
Calculated TDS	58				mg/L	1		SM 1030E	Total/NA
TDS Ratio	4.5				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	260				mg/L	1		SM 1030E	Total/NA
Iron	0.066				mg/L	1		SM 1030E	Total/NA
Calcium	0.34				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.20				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.83				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.065				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.50				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	46				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.92				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.0035				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	46		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	260		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.15				SU	1		Field Sampling	Total/NA
Field Conductivity	149.8				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.3				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	7.11				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	177.2				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-15B

Lab Sample ID: 280-161414-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	56000		500		ug/L	1		6010B	Dissolved
Iron	590		30		ug/L	1		6010B	Dissolved
Magnesium	25000		200		ug/L	1		6010B	Dissolved
Manganese	2300		3.0		ug/L	1		6010B	Dissolved
Sodium	31000		1000		ug/L	1		6010B	Dissolved
Chloride	23		0.50		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-15B (Continued)

Lab Sample ID: 280-161414-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2.4		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.040		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	1.1		1.0		mg/L	1		9060	Total/NA
Total Anions	6.3				meq/L	1		SM 1030E	Total/NA
Total Cations	6.2				meq/L	1		SM 1030E	Total/NA
Percent Difference	-0.47				%	1		SM 1030E	Total/NA
Calcium	56				mg/L	1		SM 1030E	Total/NA
Magnesium	25				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	31				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.040				mg/L	1		SM 1030E	Total/NA
Chloride	23				mg/L	1		SM 1030E	Total/NA
Sulfate	2.4				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	280				mg/L	1		SM 1030E	Total/NA
Alkalinity	280				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-0.47				%	1		SM 1030E	Total/NA
Calculated TDS	300				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	330				mg/L	1		SM 1030E	Total/NA
Iron	0.59				mg/L	1		SM 1030E	Total/NA
Calcium	2.8				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	2.1				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.3				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.0029				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.65				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.050				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	280				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	5.6				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.032				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	280		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	330		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.72				SU	1		Field Sampling	Total/NA
Field Conductivity	527.6				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.1				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.78				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	29.6				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-16A

Lab Sample ID: 280-161414-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	31000		500		ug/L	1		6010B	Dissolved
Iron	80		30		ug/L	1		6010B	Dissolved
Magnesium	14000		200		ug/L	1		6010B	Dissolved
Manganese	1400		3.0		ug/L	1		6010B	Dissolved
Sodium	33000		1000		ug/L	1		6010B	Dissolved
Chloride	13		0.50		mg/L	1		300.0	Total/NA
Sulfate	23		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	0.11		0.050		mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-16A (Continued)

Lab Sample ID: 280-161414-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Average	1.7		1.0		mg/L	1		9060	Total/NA
Total Anions	3.7				meq/L	1		SM 1030E	Total/NA
Total Cations	4.1				meq/L	1		SM 1030E	Total/NA
Percent Difference	6.3				%	1		SM 1030E	Total/NA
Calcium	31				mg/L	1		SM 1030E	Total/NA
Magnesium	14				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	33				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	13				mg/L	1		SM 1030E	Total/NA
Sulfate	23				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	140				mg/L	1		SM 1030E	Total/NA
Alkalinity	140				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.11				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	6.3				%	1		SM 1030E	Total/NA
Calculated TDS	180				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	210				mg/L	1		SM 1030E	Total/NA
Iron	0.080				mg/L	1		SM 1030E	Total/NA
Calcium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.2				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.4				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.37				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.48				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	140				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	2.8				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.0079				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.0043				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	140		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	210		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.18				SU	1		Field Sampling	Total/NA
Field Conductivity	326.8				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.0				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	9.42				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	117.4				millivolts	1		Field Sampling	Total/NA

Client Sample ID: DUP1

Lab Sample ID: 280-161414-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	31000		500		ug/L	1		6010B	Dissolved
Iron	58		30		ug/L	1		6010B	Dissolved
Magnesium	14000		200		ug/L	1		6010B	Dissolved
Manganese	1400		3.0		ug/L	1		6010B	Dissolved
Sodium	34000		1000		ug/L	1		6010B	Dissolved
Chloride	13		0.50		mg/L	1		300.0	Total/NA
Sulfate	23		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	0.12		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.7		1.0		mg/L	1		9060	Total/NA
Total Anions	3.5				meq/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP1 (Continued)

Lab Sample ID: 280-161414-7

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Total Cations	4.2				meq/L	1		SM 1030E	Total/NA
Percent Difference	9.6				%	1		SM 1030E	Total/NA
Calcium	31				mg/L	1		SM 1030E	Total/NA
Magnesium	14				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	34				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	13				mg/L	1		SM 1030E	Total/NA
Sulfate	23				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.12				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	9.6				%	1		SM 1030E	Total/NA
Calculated TDS	170				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	200				mg/L	1		SM 1030E	Total/NA
Iron	0.058				mg/L	1		SM 1030E	Total/NA
Calcium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.2				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.37				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.48				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	130				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	2.6				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.0086				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.0031				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	200		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.18				SU	1		Field Sampling	Total/NA
Field Conductivity	326.8				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.0				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	9.42				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	117.4				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-16B

Lab Sample ID: 280-161414-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	98000		500		ug/L	1		6010B	Dissolved
Iron	830		30		ug/L	1		6010B	Dissolved
Magnesium	35000		200		ug/L	1		6010B	Dissolved
Manganese	2800		3.0		ug/L	1		6010B	Dissolved
Potassium	550		500		ug/L	1		6010B	Dissolved
Sodium	65000		1000		ug/L	1		6010B	Dissolved
Chloride	140		0.50		mg/L	1		300.0	Total/NA
Sulfate	3.7		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.23		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	1.5		1.0		mg/L	1		9060	Total/NA
Total Anions	11				meq/L	1		SM 1030E	Total/NA
Total Cations	11				meq/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-16B (Continued)

Lab Sample ID: 280-161414-8

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Percent Difference	-1.6				%	1		SM 1030E	Total/NA
Calcium	98				mg/L	1		SM 1030E	Total/NA
Magnesium	35				mg/L	1		SM 1030E	Total/NA
Potassium	0.55				mg/L	1		SM 1030E	Total/NA
Sodium	65				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.23				mg/L	1		SM 1030E	Total/NA
Chloride	140				mg/L	1		SM 1030E	Total/NA
Sulfate	3.7				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	350				mg/L	1		SM 1030E	Total/NA
Alkalinity	350				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.6				%	1		SM 1030E	Total/NA
Calculated TDS	550				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	580				mg/L	1		SM 1030E	Total/NA
Iron	0.83				mg/L	1		SM 1030E	Total/NA
Calcium	4.9				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	2.9				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.014				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	2.8				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.016				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	3.9				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.077				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	350				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	7.0				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.045				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	350		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	580		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.82				SU	1		Field Sampling	Total/NA
Field Conductivity	1135				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.0				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.71				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-10.3				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-21A

Lab Sample ID: 280-161414-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	28000		500		ug/L	1		6010B	Dissolved
Iron	33		30		ug/L	1		6010B	Dissolved
Magnesium	11000		200		ug/L	1		6010B	Dissolved
Sodium	15000		1000		ug/L	1		6010B	Dissolved
Chloride	4.7		0.50		mg/L	1		300.0	Total/NA
Sulfate	11		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	1.5		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.5		1.0		mg/L	1		9060	Total/NA
Total Anions	3.1				meq/L	1		SM 1030E	Total/NA
Total Cations	3.0				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.8				%	1		SM 1030E	Total/NA
Calcium	28				mg/L	1		SM 1030E	Total/NA
Magnesium	11				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-21A (Continued)

Lab Sample ID: 280-161414-9

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	15				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	4.7				mg/L	1		SM 1030E	Total/NA
Sulfate	11				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	1.5				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.8				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	180				mg/L	1		SM 1030E	Total/NA
Iron	0.033				mg/L	1		SM 1030E	Total/NA
Calcium	1.4				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.91				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.65				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.13				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.23				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	130				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	2.6				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.11				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.0018				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	180		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.12				SU	1		Field Sampling	Total/NA
Field Conductivity	316.5				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.6				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.91				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	225.3				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Job ID: 280-161414-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL DEN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL DEN
9060	Organic Carbon, Total (TOC)	SW846	TAL DEN
SM 1030E	Cation Anion Balance	SM	TAL DEN
SM 1030E (meq)	Cation Anion Balance	SM	TAL DEN
SM 2320B	Alkalinity	SM	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL DEN
Field Sampling	Field Sampling	EPA	TAL DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL DEN
5030B	Purge and Trap	SW846	TAL DEN
8011	Microextraction	SW846	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161414-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-161414-1	TRIP BLANK	Water	04/19/22 07:00	04/22/22 11:00
280-161414-2	MW-12A	Water	04/21/22 14:30	04/22/22 11:00
280-161414-3	MW-12B	Water	04/21/22 13:40	04/22/22 11:00
280-161414-4	MW-15A	Water	04/19/22 14:45	04/22/22 11:00
280-161414-5	MW-15B	Water	04/20/22 11:35	04/22/22 11:00
280-161414-6	MW-16A	Water	04/19/22 12:40	04/22/22 11:00
280-161414-7	DUP1	Water	04/19/22 12:45	04/22/22 11:00
280-161414-8	MW-16B	Water	04/19/22 14:10	04/22/22 11:00
280-161414-9	MW-21A	Water	04/21/22 12:15	04/22/22 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TRIP BLANK
Date Collected: 04/19/22 07:00
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 14:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/30/22 14:04	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 14:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/30/22 14:04	1
1,1-Dichloroethane	ND		1.0		ug/L			04/30/22 14:04	1
1,1-Dichloroethene	ND		1.0		ug/L			04/30/22 14:04	1
1,1-Dichloropropene	ND		1.0		ug/L			04/30/22 14:04	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/30/22 14:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/30/22 14:04	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/30/22 14:04	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/30/22 14:04	1
1,2-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 14:04	1
1,2-Dichloroethane	ND		1.0		ug/L			04/30/22 14:04	1
1,2-Dichloropropane	ND		1.0		ug/L			04/30/22 14:04	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/30/22 14:04	1
1,3-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 14:04	1
1,3-Dichloropropane	ND		1.0		ug/L			04/30/22 14:04	1
1,4-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 14:04	1
2,2-Dichloropropane	ND		5.0		ug/L			04/30/22 14:04	1
2-Butanone (MEK)	ND		6.0		ug/L			04/30/22 14:04	1
2-Chlorotoluene	ND		1.0		ug/L			04/30/22 14:04	1
2-Hexanone	ND		5.0		ug/L			04/30/22 14:04	1
4-Chlorotoluene	ND		1.0		ug/L			04/30/22 14:04	1
4-Isopropyltoluene	ND		1.0		ug/L			04/30/22 14:04	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/30/22 14:04	1
Acetone	ND		10		ug/L			04/30/22 14:04	1
Benzene	ND		1.0		ug/L			04/30/22 14:04	1
Bromobenzene	ND		1.0		ug/L			04/30/22 14:04	1
Bromochloromethane	ND		1.0		ug/L			04/30/22 14:04	1
Bromodichloromethane	ND		1.0		ug/L			04/30/22 14:04	1
Bromoform	ND		1.0		ug/L			04/30/22 14:04	1
Bromomethane	ND		2.0		ug/L			04/30/22 14:04	1
Carbon disulfide	ND		2.0		ug/L			04/30/22 14:04	1
Carbon tetrachloride	ND		1.0		ug/L			04/30/22 14:04	1
Chlorobenzene	ND		1.0		ug/L			04/30/22 14:04	1
Chloroethane	ND		2.0		ug/L			04/30/22 14:04	1
Chloroform	ND		1.0		ug/L			04/30/22 14:04	1
Chloromethane	ND		2.0		ug/L			04/30/22 14:04	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 14:04	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/30/22 14:04	1
Dibromochloromethane	ND		1.0		ug/L			04/30/22 14:04	1
Dibromomethane	ND		1.0		ug/L			04/30/22 14:04	1
Dichlorodifluoromethane	ND		2.0		ug/L			04/30/22 14:04	1
Ethylbenzene	ND		1.0		ug/L			04/30/22 14:04	1
Hexachlorobutadiene	ND		1.0		ug/L			04/30/22 14:04	1
Isopropylbenzene	ND		1.0		ug/L			04/30/22 14:04	1
Methylene Chloride	ND		5.0		ug/L			04/30/22 14:04	1
Naphthalene	ND		1.0		ug/L			04/30/22 14:04	1
n-Butylbenzene	ND		1.0		ug/L			04/30/22 14:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TRIP BLANK
Date Collected: 04/19/22 07:00
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			04/30/22 14:04	1
sec-Butylbenzene	ND		1.0		ug/L			04/30/22 14:04	1
Styrene	ND		1.0		ug/L			04/30/22 14:04	1
tert-Butylbenzene	ND		1.0		ug/L			04/30/22 14:04	1
Tetrachloroethene	ND		1.0		ug/L			04/30/22 14:04	1
Toluene	ND		1.0		ug/L			04/30/22 14:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 14:04	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			04/30/22 14:04	1
Trichloroethene	ND		1.0		ug/L			04/30/22 14:04	1
Trichlorofluoromethane	ND		2.0		ug/L			04/30/22 14:04	1
Vinyl chloride	ND		1.0		ug/L			04/30/22 14:04	1
Xylenes (total)	ND		2.0		ug/L			04/30/22 14:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/30/22 14:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*04/30/22 14:04*	*1*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*04/30/22 14:04*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 120*		*04/30/22 14:04*	*1*
Toluene-d8 (Surr)	*91*		*80 - 125*		*04/30/22 14:04*	*1*

Client Sample ID: MW-12A
Date Collected: 04/21/22 14:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 10:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 10:51	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 10:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 10:51	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 10:51	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 10:51	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 10:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 10:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 10:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 10:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 10:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 10:51	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 10:51	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 10:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 10:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 10:51	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 10:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 10:51	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 10:51	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 10:51	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 10:51	1
2-Hexanone	ND		5.0		ug/L			05/04/22 10:51	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 10:51	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 10:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-12A
Date Collected: 04/21/22 14:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 10:51	1
Acetone	ND		10		ug/L			05/04/22 10:51	1
Benzene	ND		1.0		ug/L			05/04/22 10:51	1
Bromobenzene	ND		1.0		ug/L			05/04/22 10:51	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 10:51	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 10:51	1
Bromoform	ND		1.0		ug/L			05/04/22 10:51	1
Bromomethane	ND		2.0		ug/L			05/04/22 10:51	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 10:51	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 10:51	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 10:51	1
Chloroethane	ND		2.0		ug/L			05/04/22 10:51	1
Chloroform	ND		1.0		ug/L			05/04/22 10:51	1
Chloromethane	ND		2.0		ug/L			05/04/22 10:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 10:51	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 10:51	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 10:51	1
Dibromomethane	ND		1.0		ug/L			05/04/22 10:51	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 10:51	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 10:51	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 10:51	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 10:51	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 10:51	1
Naphthalene	ND		1.0		ug/L			05/04/22 10:51	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 10:51	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 10:51	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 10:51	1
Styrene	ND		1.0		ug/L			05/04/22 10:51	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 10:51	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 10:51	1
Toluene	ND		1.0		ug/L			05/04/22 10:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 10:51	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 10:51	1
Trichloroethene	ND		1.0		ug/L			05/04/22 10:51	1
Trichlorofluoromethane	ND		2.0		ug/L			05/04/22 10:51	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 10:51	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 10:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/22 10:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/04/22 10:51*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/04/22 10:51*	*1*
Dibromofluoromethane (Surr)	*89*		*77 - 120*		*05/04/22 10:51*	*1*
Toluene-d8 (Surr)	*109*		*80 - 125*		*05/04/22 10:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-12B
Date Collected: 04/21/22 13:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 11:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 11:13	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 11:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 11:13	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 11:13	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 11:13	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 11:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 11:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 11:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 11:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 11:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 11:13	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 11:13	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 11:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 11:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 11:13	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 11:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 11:13	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 11:13	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 11:13	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 11:13	1
2-Hexanone	ND		5.0		ug/L			05/04/22 11:13	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 11:13	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 11:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 11:13	1
Acetone	ND		10		ug/L			05/04/22 11:13	1
Benzene	ND		1.0		ug/L			05/04/22 11:13	1
Bromobenzene	ND		1.0		ug/L			05/04/22 11:13	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 11:13	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 11:13	1
Bromoform	ND		1.0		ug/L			05/04/22 11:13	1
Bromomethane	ND		2.0		ug/L			05/04/22 11:13	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 11:13	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 11:13	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 11:13	1
Chloroethane	ND		2.0		ug/L			05/04/22 11:13	1
Chloroform	ND		1.0		ug/L			05/04/22 11:13	1
Chloromethane	ND		2.0		ug/L			05/04/22 11:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 11:13	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 11:13	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 11:13	1
Dibromomethane	ND		1.0		ug/L			05/04/22 11:13	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 11:13	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 11:13	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 11:13	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 11:13	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 11:13	1
Naphthalene	ND		1.0		ug/L			05/04/22 11:13	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 11:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-12B
Date Collected: 04/21/22 13:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			05/04/22 11:13	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 11:13	1
Styrene	ND		1.0		ug/L			05/04/22 11:13	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 11:13	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 11:13	1
Toluene	ND		1.0		ug/L			05/04/22 11:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 11:13	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 11:13	1
Trichloroethene	ND		1.0		ug/L			05/04/22 11:13	1
Trichlorofluoromethane	ND		2.0		ug/L			05/04/22 11:13	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 11:13	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 11:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/22 11:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*		*05/04/22 11:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/04/22 11:13*	*1*
Dibromofluoromethane (Surr)	*89*		*77 - 120*		*05/04/22 11:13*	*1*
Toluene-d8 (Surr)	*109*		*80 - 125*		*05/04/22 11:13*	*1*

Client Sample ID: MW-15A
Date Collected: 04/19/22 14:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 14:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/30/22 14:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 14:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/30/22 14:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/30/22 14:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/30/22 14:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/30/22 14:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/30/22 14:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/30/22 14:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/30/22 14:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/30/22 14:26	1
1,2-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 14:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/30/22 14:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/30/22 14:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/30/22 14:26	1
1,3-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 14:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/30/22 14:26	1
2,2-Dichloropropane	ND		5.0		ug/L			04/30/22 14:26	1
2-Butanone (MEK)	ND		6.0		ug/L			04/30/22 14:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/30/22 14:26	1
2-Hexanone	ND		5.0		ug/L			04/30/22 14:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/30/22 14:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/30/22 14:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/30/22 14:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-15A
Date Collected: 04/19/22 14:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			04/30/22 14:26	1
Benzene	ND		1.0		ug/L			04/30/22 14:26	1
Bromobenzene	ND		1.0		ug/L			04/30/22 14:26	1
Bromochloromethane	ND		1.0		ug/L			04/30/22 14:26	1
Bromodichloromethane	ND		1.0		ug/L			04/30/22 14:26	1
Bromoform	ND		1.0		ug/L			04/30/22 14:26	1
Bromomethane	ND		2.0		ug/L			04/30/22 14:26	1
Carbon disulfide	ND		2.0		ug/L			04/30/22 14:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/30/22 14:26	1
Chlorobenzene	ND		1.0		ug/L			04/30/22 14:26	1
Chloroethane	ND		2.0		ug/L			04/30/22 14:26	1
Chloroform	ND		1.0		ug/L			04/30/22 14:26	1
Chloromethane	ND		2.0		ug/L			04/30/22 14:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 14:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/30/22 14:26	1
Dibromochloromethane	ND		1.0		ug/L			04/30/22 14:26	1
Dibromomethane	ND		1.0		ug/L			04/30/22 14:26	1
Dichlorodifluoromethane	ND		2.0		ug/L			04/30/22 14:26	1
Ethylbenzene	ND		1.0		ug/L			04/30/22 14:26	1
Hexachlorobutadiene	ND		1.0		ug/L			04/30/22 14:26	1
Isopropylbenzene	ND		1.0		ug/L			04/30/22 14:26	1
Methylene Chloride	ND		5.0		ug/L			04/30/22 14:26	1
Naphthalene	ND		1.0		ug/L			04/30/22 14:26	1
n-Butylbenzene	ND		1.0		ug/L			04/30/22 14:26	1
N-Propylbenzene	ND		1.0		ug/L			04/30/22 14:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/30/22 14:26	1
Styrene	ND		1.0		ug/L			04/30/22 14:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/30/22 14:26	1
Tetrachloroethene	ND		1.0		ug/L			04/30/22 14:26	1
Toluene	ND		1.0		ug/L			04/30/22 14:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 14:26	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			04/30/22 14:26	1
Trichloroethene	ND		1.0		ug/L			04/30/22 14:26	1
Trichlorofluoromethane	ND		2.0		ug/L			04/30/22 14:26	1
Vinyl chloride	ND		1.0		ug/L			04/30/22 14:26	1
Xylenes (total)	ND		2.0		ug/L			04/30/22 14:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/30/22 14:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*04/30/22 14:26*	*1*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*04/30/22 14:26*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 120*		*04/30/22 14:26*	*1*
Toluene-d8 (Surr)	*93*		*80 - 125*		*04/30/22 14:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-15B
Date Collected: 04/20/22 11:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 15:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 15:23	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 15:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 15:23	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 15:23	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 15:23	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 15:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/03/22 15:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 15:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 15:23	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 15:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 15:23	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 15:23	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 15:23	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 15:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 15:23	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 15:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 15:23	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 15:23	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 15:23	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 15:23	1
2-Hexanone	ND		5.0		ug/L			05/03/22 15:23	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 15:23	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 15:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 15:23	1
Acetone	ND		10		ug/L			05/03/22 15:23	1
Benzene	ND		1.0		ug/L			05/03/22 15:23	1
Bromobenzene	ND		1.0		ug/L			05/03/22 15:23	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 15:23	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 15:23	1
Bromoform	ND		1.0		ug/L			05/03/22 15:23	1
Bromomethane	ND		2.0		ug/L			05/03/22 15:23	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 15:23	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 15:23	1
Chlorobenzene	ND		1.0		ug/L			05/03/22 15:23	1
Chloroethane	ND		2.0		ug/L			05/03/22 15:23	1
Chloroform	ND		1.0		ug/L			05/03/22 15:23	1
Chloromethane	ND		2.0		ug/L			05/03/22 15:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 15:23	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 15:23	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 15:23	1
Dibromomethane	ND		1.0		ug/L			05/03/22 15:23	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 15:23	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 15:23	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 15:23	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 15:23	1
Methylene Chloride	ND		5.0		ug/L			05/03/22 15:23	1
Naphthalene	ND		1.0		ug/L			05/03/22 15:23	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 15:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-15B
Date Collected: 04/20/22 11:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			05/03/22 15:23	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 15:23	1
Styrene	ND		1.0		ug/L			05/03/22 15:23	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 15:23	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 15:23	1
Toluene	ND		1.0		ug/L			05/03/22 15:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 15:23	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 15:23	1
Trichloroethene	ND		1.0		ug/L			05/03/22 15:23	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 15:23	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 15:23	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 15:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/22 15:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*		*05/03/22 15:23*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/03/22 15:23*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 120*		*05/03/22 15:23*	*1*
Toluene-d8 (Surr)	*112*		*80 - 125*		*05/03/22 15:23*	*1*

Client Sample ID: MW-16A
Date Collected: 04/19/22 12:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 14:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/30/22 14:48	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 14:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/30/22 14:48	1
1,1-Dichloroethane	ND		1.0		ug/L			04/30/22 14:48	1
1,1-Dichloroethene	ND		1.0		ug/L			04/30/22 14:48	1
1,1-Dichloropropene	ND		1.0		ug/L			04/30/22 14:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/30/22 14:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/30/22 14:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/30/22 14:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/30/22 14:48	1
1,2-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 14:48	1
1,2-Dichloroethane	ND		1.0		ug/L			04/30/22 14:48	1
1,2-Dichloropropane	ND		1.0		ug/L			04/30/22 14:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/30/22 14:48	1
1,3-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 14:48	1
1,3-Dichloropropane	ND		1.0		ug/L			04/30/22 14:48	1
2,2-Dichloropropane	ND		5.0		ug/L			04/30/22 14:48	1
2-Butanone (MEK)	ND		6.0		ug/L			04/30/22 14:48	1
2-Chlorotoluene	ND		1.0		ug/L			04/30/22 14:48	1
2-Hexanone	ND		5.0		ug/L			04/30/22 14:48	1
4-Chlorotoluene	ND		1.0		ug/L			04/30/22 14:48	1
4-Isopropyltoluene	ND		1.0		ug/L			04/30/22 14:48	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/30/22 14:48	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-16A
Date Collected: 04/19/22 12:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			04/30/22 14:48	1
Benzene	ND		1.0		ug/L			04/30/22 14:48	1
Bromobenzene	ND		1.0		ug/L			04/30/22 14:48	1
Bromochloromethane	ND		1.0		ug/L			04/30/22 14:48	1
Bromodichloromethane	ND		1.0		ug/L			04/30/22 14:48	1
Bromoform	ND		1.0		ug/L			04/30/22 14:48	1
Bromomethane	ND		2.0		ug/L			04/30/22 14:48	1
Carbon disulfide	ND		2.0		ug/L			04/30/22 14:48	1
Carbon tetrachloride	ND		1.0		ug/L			04/30/22 14:48	1
Chlorobenzene	ND		1.0		ug/L			04/30/22 14:48	1
Chloroethane	ND		2.0		ug/L			04/30/22 14:48	1
Chloroform	ND		1.0		ug/L			04/30/22 14:48	1
Chloromethane	ND		2.0		ug/L			04/30/22 14:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 14:48	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/30/22 14:48	1
Dibromochloromethane	ND		1.0		ug/L			04/30/22 14:48	1
Dibromomethane	ND		1.0		ug/L			04/30/22 14:48	1
Dichlorodifluoromethane	ND		2.0		ug/L			04/30/22 14:48	1
Ethylbenzene	ND		1.0		ug/L			04/30/22 14:48	1
Hexachlorobutadiene	ND		1.0		ug/L			04/30/22 14:48	1
Isopropylbenzene	ND		1.0		ug/L			04/30/22 14:48	1
Methylene Chloride	ND		5.0		ug/L			04/30/22 14:48	1
Naphthalene	ND		1.0		ug/L			04/30/22 14:48	1
n-Butylbenzene	ND		1.0		ug/L			04/30/22 14:48	1
N-Propylbenzene	ND		1.0		ug/L			04/30/22 14:48	1
sec-Butylbenzene	ND		1.0		ug/L			04/30/22 14:48	1
Styrene	ND		1.0		ug/L			04/30/22 14:48	1
tert-Butylbenzene	ND		1.0		ug/L			04/30/22 14:48	1
Tetrachloroethene	ND		1.0		ug/L			04/30/22 14:48	1
Toluene	ND		1.0		ug/L			04/30/22 14:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 14:48	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			04/30/22 14:48	1
Trichloroethene	ND		1.0		ug/L			04/30/22 14:48	1
Trichlorofluoromethane	ND		2.0		ug/L			04/30/22 14:48	1
Vinyl chloride	ND		1.0		ug/L			04/30/22 14:48	1
Xylenes (total)	ND		2.0		ug/L			04/30/22 14:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/30/22 14:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*04/30/22 14:48*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*04/30/22 14:48*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 120*		*04/30/22 14:48*	*1*
Toluene-d8 (Surr)	*93*		*80 - 125*		*04/30/22 14:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: DUP1
Date Collected: 04/19/22 12:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 15:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/30/22 15:10	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 15:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/30/22 15:10	1
1,1-Dichloroethane	ND		1.0		ug/L			04/30/22 15:10	1
1,1-Dichloroethene	ND		1.0		ug/L			04/30/22 15:10	1
1,1-Dichloropropene	ND		1.0		ug/L			04/30/22 15:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/30/22 15:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/30/22 15:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/30/22 15:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/30/22 15:10	1
1,2-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 15:10	1
1,2-Dichloroethane	ND		1.0		ug/L			04/30/22 15:10	1
1,2-Dichloropropane	ND		1.0		ug/L			04/30/22 15:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/30/22 15:10	1
1,3-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 15:10	1
1,3-Dichloropropane	ND		1.0		ug/L			04/30/22 15:10	1
2,2-Dichloropropane	ND		5.0		ug/L			04/30/22 15:10	1
2-Butanone (MEK)	ND		6.0		ug/L			04/30/22 15:10	1
2-Chlorotoluene	ND		1.0		ug/L			04/30/22 15:10	1
2-Hexanone	ND		5.0		ug/L			04/30/22 15:10	1
4-Chlorotoluene	ND		1.0		ug/L			04/30/22 15:10	1
4-Isopropyltoluene	ND		1.0		ug/L			04/30/22 15:10	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/30/22 15:10	1
Acetone	ND		10		ug/L			04/30/22 15:10	1
Benzene	ND		1.0		ug/L			04/30/22 15:10	1
Bromobenzene	ND		1.0		ug/L			04/30/22 15:10	1
Bromochloromethane	ND		1.0		ug/L			04/30/22 15:10	1
Bromodichloromethane	ND		1.0		ug/L			04/30/22 15:10	1
Bromoform	ND		1.0		ug/L			04/30/22 15:10	1
Bromomethane	ND		2.0		ug/L			04/30/22 15:10	1
Carbon disulfide	ND		2.0		ug/L			04/30/22 15:10	1
Carbon tetrachloride	ND		1.0		ug/L			04/30/22 15:10	1
Chlorobenzene	ND		1.0		ug/L			04/30/22 15:10	1
Chloroethane	ND		2.0		ug/L			04/30/22 15:10	1
Chloroform	ND		1.0		ug/L			04/30/22 15:10	1
Chloromethane	ND		2.0		ug/L			04/30/22 15:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 15:10	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/30/22 15:10	1
Dibromochloromethane	ND		1.0		ug/L			04/30/22 15:10	1
Dibromomethane	ND		1.0		ug/L			04/30/22 15:10	1
Dichlorodifluoromethane	ND		2.0		ug/L			04/30/22 15:10	1
Ethylbenzene	ND		1.0		ug/L			04/30/22 15:10	1
Hexachlorobutadiene	ND		1.0		ug/L			04/30/22 15:10	1
Isopropylbenzene	ND		1.0		ug/L			04/30/22 15:10	1
Methylene Chloride	ND		5.0		ug/L			04/30/22 15:10	1
Naphthalene	ND		1.0		ug/L			04/30/22 15:10	1
n-Butylbenzene	ND		1.0		ug/L			04/30/22 15:10	1
N-Propylbenzene	ND		1.0		ug/L			04/30/22 15:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: DUP1
Date Collected: 04/19/22 12:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			04/30/22 15:10	1
Styrene	ND		1.0		ug/L			04/30/22 15:10	1
tert-Butylbenzene	ND		1.0		ug/L			04/30/22 15:10	1
Tetrachloroethene	ND		1.0		ug/L			04/30/22 15:10	1
Toluene	ND		1.0		ug/L			04/30/22 15:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 15:10	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			04/30/22 15:10	1
Trichloroethene	ND		1.0		ug/L			04/30/22 15:10	1
Trichlorofluoromethane	ND		2.0		ug/L			04/30/22 15:10	1
Vinyl chloride	ND		1.0		ug/L			04/30/22 15:10	1
Xylenes (total)	ND		2.0		ug/L			04/30/22 15:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/30/22 15:10*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*04/30/22 15:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*04/30/22 15:10*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*04/30/22 15:10*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*04/30/22 15:10*	*1*

Client Sample ID: MW-16B
Date Collected: 04/19/22 14:10
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 15:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/30/22 15:32	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 15:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/30/22 15:32	1
1,1-Dichloroethane	ND		1.0		ug/L			04/30/22 15:32	1
1,1-Dichloroethene	ND		1.0		ug/L			04/30/22 15:32	1
1,1-Dichloropropene	ND		1.0		ug/L			04/30/22 15:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/30/22 15:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/30/22 15:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/30/22 15:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/30/22 15:32	1
1,2-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 15:32	1
1,2-Dichloroethane	ND		1.0		ug/L			04/30/22 15:32	1
1,2-Dichloropropane	ND		1.0		ug/L			04/30/22 15:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/30/22 15:32	1
1,3-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 15:32	1
1,3-Dichloropropane	ND		1.0		ug/L			04/30/22 15:32	1
2,2-Dichloropropane	ND		5.0		ug/L			04/30/22 15:32	1
2-Butanone (MEK)	ND		6.0		ug/L			04/30/22 15:32	1
2-Chlorotoluene	ND		1.0		ug/L			04/30/22 15:32	1
2-Hexanone	ND		5.0		ug/L			04/30/22 15:32	1
4-Chlorotoluene	ND		1.0		ug/L			04/30/22 15:32	1
4-Isopropyltoluene	ND		1.0		ug/L			04/30/22 15:32	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/30/22 15:32	1
Acetone	ND		10		ug/L			04/30/22 15:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-16B
Date Collected: 04/19/22 14:10
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			04/30/22 15:32	1
Bromobenzene	ND		1.0		ug/L			04/30/22 15:32	1
Bromochloromethane	ND		1.0		ug/L			04/30/22 15:32	1
Bromodichloromethane	ND		1.0		ug/L			04/30/22 15:32	1
Bromoform	ND		1.0		ug/L			04/30/22 15:32	1
Bromomethane	ND		2.0		ug/L			04/30/22 15:32	1
Carbon disulfide	ND		2.0		ug/L			04/30/22 15:32	1
Carbon tetrachloride	ND		1.0		ug/L			04/30/22 15:32	1
Chlorobenzene	ND		1.0		ug/L			04/30/22 15:32	1
Chloroethane	ND		2.0		ug/L			04/30/22 15:32	1
Chloroform	ND		1.0		ug/L			04/30/22 15:32	1
Chloromethane	ND		2.0		ug/L			04/30/22 15:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 15:32	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/30/22 15:32	1
Dibromochloromethane	ND		1.0		ug/L			04/30/22 15:32	1
Dibromomethane	ND		1.0		ug/L			04/30/22 15:32	1
Dichlorodifluoromethane	ND		2.0		ug/L			04/30/22 15:32	1
Ethylbenzene	ND		1.0		ug/L			04/30/22 15:32	1
Hexachlorobutadiene	ND		1.0		ug/L			04/30/22 15:32	1
Isopropylbenzene	ND		1.0		ug/L			04/30/22 15:32	1
Methylene Chloride	ND		5.0		ug/L			04/30/22 15:32	1
Naphthalene	ND		1.0		ug/L			04/30/22 15:32	1
n-Butylbenzene	ND		1.0		ug/L			04/30/22 15:32	1
N-Propylbenzene	ND		1.0		ug/L			04/30/22 15:32	1
sec-Butylbenzene	ND		1.0		ug/L			04/30/22 15:32	1
Styrene	ND		1.0		ug/L			04/30/22 15:32	1
tert-Butylbenzene	ND		1.0		ug/L			04/30/22 15:32	1
Tetrachloroethene	ND		1.0		ug/L			04/30/22 15:32	1
Toluene	ND		1.0		ug/L			04/30/22 15:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 15:32	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			04/30/22 15:32	1
Trichloroethene	ND		1.0		ug/L			04/30/22 15:32	1
Trichlorofluoromethane	ND		2.0		ug/L			04/30/22 15:32	1
Vinyl chloride	ND		1.0		ug/L			04/30/22 15:32	1
Xylenes (total)	ND		2.0		ug/L			04/30/22 15:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/30/22 15:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*		*04/30/22 15:32*	*1*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*04/30/22 15:32*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*04/30/22 15:32*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*04/30/22 15:32*	*1*

Client Sample ID: MW-21A
Date Collected: 04/21/22 12:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 11:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-21A
Date Collected: 04/21/22 12:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 11:34	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 11:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 11:34	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 11:34	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 11:34	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 11:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 11:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 11:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 11:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 11:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 11:34	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 11:34	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 11:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 11:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 11:34	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 11:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 11:34	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 11:34	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 11:34	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 11:34	1
2-Hexanone	ND		5.0		ug/L			05/04/22 11:34	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 11:34	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 11:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 11:34	1
Acetone	ND		10		ug/L			05/04/22 11:34	1
Benzene	ND		1.0		ug/L			05/04/22 11:34	1
Bromobenzene	ND		1.0		ug/L			05/04/22 11:34	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 11:34	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 11:34	1
Bromoform	ND		1.0		ug/L			05/04/22 11:34	1
Bromomethane	ND		2.0		ug/L			05/04/22 11:34	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 11:34	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 11:34	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 11:34	1
Chloroethane	ND		2.0		ug/L			05/04/22 11:34	1
Chloroform	ND		1.0		ug/L			05/04/22 11:34	1
Chloromethane	ND		2.0		ug/L			05/04/22 11:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 11:34	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 11:34	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 11:34	1
Dibromomethane	ND		1.0		ug/L			05/04/22 11:34	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 11:34	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 11:34	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 11:34	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 11:34	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 11:34	1
Naphthalene	ND		1.0		ug/L			05/04/22 11:34	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 11:34	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 11:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-21A
Date Collected: 04/21/22 12:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 11:34	1
Styrene	ND		1.0		ug/L			05/04/22 11:34	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 11:34	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 11:34	1
Toluene	ND		1.0		ug/L			05/04/22 11:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 11:34	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 11:34	1
Trichloroethene	ND		1.0		ug/L			05/04/22 11:34	1
Trichlorofluoromethane	ND		2.0		ug/L			05/04/22 11:34	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 11:34	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 11:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/22 11:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/04/22 11:34*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/04/22 11:34*	*1*
Dibromofluoromethane (Surr)	*88*		*77 - 120*		*05/04/22 11:34*	*1*
Toluene-d8 (Surr)	*110*		*80 - 125*		*05/04/22 11:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Client Sample ID: MW-15A
Date Collected: 04/19/22 14:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*05/03/22 03:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 03:31*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*05/03/22 03:31*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*05/03/22 03:31*	*1*

Client Sample ID: MW-16A
Date Collected: 04/19/22 12:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*05/03/22 03:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/03/22 03:52*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*05/03/22 03:52*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*05/03/22 03:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Client Sample ID: DUP1
Date Collected: 04/19/22 12:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*05/03/22 04:13*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*05/03/22 04:13*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*05/03/22 04:13*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*05/03/22 04:13*	*1*

Client Sample ID: MW-16B
Date Collected: 04/19/22 14:10
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*05/03/22 04:35*	*1*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*05/03/22 04:35*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*05/03/22 04:35*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*05/03/22 04:35*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Client Sample ID: TRIP BLANK
Date Collected: 04/19/22 07:00
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/02/22 18:00	05/03/22 09:12	1
1,2-Dibromoethane	ND		0.050		ug/L		05/02/22 18:00	05/03/22 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*101*		*70 - 130*	*05/02/22 18:00*	*05/03/22 09:12*	*1*

Client Sample ID: MW-12A
Date Collected: 04/21/22 14:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/02/22 18:00	05/03/22 09:36	1
1,2-Dibromoethane	ND		0.050		ug/L		05/02/22 18:00	05/03/22 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*106*		*70 - 130*	*05/02/22 18:00*	*05/03/22 09:36*	*1*

Client Sample ID: MW-12B
Date Collected: 04/21/22 13:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/02/22 18:00	05/03/22 10:00	1
1,2-Dibromoethane	ND		0.050		ug/L		05/02/22 18:00	05/03/22 10:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*102*		*70 - 130*	*05/02/22 18:00*	*05/03/22 10:00*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Client Sample ID: MW-15A
Date Collected: 04/19/22 14:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/02/22 18:00	05/03/22 10:24	1
1,2-Dibromoethane	ND		0.050		ug/L		05/02/22 18:00	05/03/22 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*115*		*70 - 130*	*05/02/22 18:00*	*05/03/22 10:24*	*1*

Client Sample ID: MW-15B
Date Collected: 04/20/22 11:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/02/22 18:00	05/03/22 10:48	1
1,2-Dibromoethane	ND		0.050		ug/L		05/02/22 18:00	05/03/22 10:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*112*		*70 - 130*	*05/02/22 18:00*	*05/03/22 10:48*	*1*

Client Sample ID: MW-16A
Date Collected: 04/19/22 12:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/02/22 18:00	05/03/22 11:12	1
1,2-Dibromoethane	ND		0.050		ug/L		05/02/22 18:00	05/03/22 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*112*		*70 - 130*	*05/02/22 18:00*	*05/03/22 11:12*	*1*

Client Sample ID: DUP1
Date Collected: 04/19/22 12:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/02/22 18:00	05/03/22 11:36	1
1,2-Dibromoethane	ND		0.050		ug/L		05/02/22 18:00	05/03/22 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*111*		*70 - 130*	*05/02/22 18:00*	*05/03/22 11:36*	*1*

Client Sample ID: MW-16B
Date Collected: 04/19/22 14:10
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/02/22 18:00	05/03/22 12:00	1
1,2-Dibromoethane	ND		0.050		ug/L		05/02/22 18:00	05/03/22 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*112*		*70 - 130*	*05/02/22 18:00*	*05/03/22 12:00*	*1*

Client Sample ID: MW-21A
Date Collected: 04/21/22 12:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/02/22 18:00	05/03/22 12:24	1
1,2-Dibromoethane	ND		0.050		ug/L		05/02/22 18:00	05/03/22 12:24	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	116		70 - 130	05/02/22 18:00	05/03/22 12:24	1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: MW-12A
Date Collected: 04/21/22 14:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	28000		500		ug/L		05/03/22 19:17	05/04/22 21:00	1
Iron	ND		30		ug/L		05/03/22 19:17	05/04/22 21:00	1
Magnesium	11000		200		ug/L		05/03/22 19:17	05/04/22 21:00	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 21:00	1
Potassium	790		500		ug/L		05/03/22 19:17	05/04/22 21:00	1
Sodium	30000		1000		ug/L		05/03/22 19:17	05/04/22 21:00	1

Client Sample ID: MW-12B
Date Collected: 04/21/22 13:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	62000		500		ug/L		05/03/22 19:17	05/04/22 21:04	1
Iron	2300		30		ug/L		05/03/22 19:17	05/04/22 21:04	1
Magnesium	19000		200		ug/L		05/03/22 19:17	05/04/22 21:04	1
Manganese	1200		3.0		ug/L		05/03/22 19:17	05/04/22 21:04	1
Potassium	530		500		ug/L		05/03/22 19:17	05/04/22 21:04	1
Sodium	23000		1000		ug/L		05/03/22 19:17	05/04/22 21:04	1

Client Sample ID: MW-15A
Date Collected: 04/19/22 14:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	6900		500		ug/L		05/03/22 19:17	05/04/22 21:08	1
Iron	66		30		ug/L		05/03/22 19:17	05/04/22 21:08	1
Magnesium	2400		200		ug/L		05/03/22 19:17	05/04/22 21:08	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 21:08	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 21:08	1
Sodium	19000		1000		ug/L		05/03/22 19:17	05/04/22 21:08	1

Client Sample ID: MW-15B
Date Collected: 04/20/22 11:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	56000		500		ug/L		05/03/22 19:17	05/04/22 21:29	1
Iron	590		30		ug/L		05/03/22 19:17	05/04/22 21:29	1
Magnesium	25000		200		ug/L		05/03/22 19:17	05/04/22 21:29	1
Manganese	2300		3.0		ug/L		05/03/22 19:17	05/04/22 21:29	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 21:29	1
Sodium	31000		1000		ug/L		05/03/22 19:17	05/04/22 21:29	1

Client Sample ID: MW-16A
Date Collected: 04/19/22 12:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	31000		500		ug/L		05/03/22 19:17	05/04/22 21:33	1

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Client Sample ID: MW-16A
Date Collected: 04/19/22 12:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	80		30		ug/L		05/03/22 19:17	05/04/22 21:33	1
Magnesium	14000		200		ug/L		05/03/22 19:17	05/04/22 21:33	1
Manganese	1400		3.0		ug/L		05/03/22 19:17	05/04/22 21:33	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 21:33	1
Sodium	33000		1000		ug/L		05/03/22 19:17	05/04/22 21:33	1

Client Sample ID: DUP1
Date Collected: 04/19/22 12:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	31000		500		ug/L		05/03/22 19:17	05/04/22 21:37	1
Iron	58		30		ug/L		05/03/22 19:17	05/04/22 21:37	1
Magnesium	14000		200		ug/L		05/03/22 19:17	05/04/22 21:37	1
Manganese	1400		3.0		ug/L		05/03/22 19:17	05/04/22 21:37	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 21:37	1
Sodium	34000		1000		ug/L		05/03/22 19:17	05/04/22 21:37	1

Client Sample ID: MW-16B
Date Collected: 04/19/22 14:10
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	98000		500		ug/L		05/03/22 19:17	05/04/22 21:42	1
Iron	830		30		ug/L		05/03/22 19:17	05/04/22 21:42	1
Magnesium	35000		200		ug/L		05/03/22 19:17	05/04/22 21:42	1
Manganese	2800		3.0		ug/L		05/03/22 19:17	05/04/22 21:42	1
Potassium	550		500		ug/L		05/03/22 19:17	05/04/22 21:42	1
Sodium	65000		1000		ug/L		05/03/22 19:17	05/04/22 21:42	1

Client Sample ID: MW-21A
Date Collected: 04/21/22 12:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	28000		500		ug/L		05/03/22 19:17	05/04/22 21:46	1
Iron	33		30		ug/L		05/03/22 19:17	05/04/22 21:46	1
Magnesium	11000		200		ug/L		05/03/22 19:17	05/04/22 21:46	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 21:46	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 21:46	1
Sodium	15000		1000		ug/L		05/03/22 19:17	05/04/22 21:46	1

General Chemistry

Client Sample ID: MW-12A
Date Collected: 04/21/22 14:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions	3.8				meq/L			05/10/22 12:14	1
Total Cations	3.6				meq/L			05/10/22 12:14	1
Percent Difference	-2.6				%			05/10/22 12:14	1
Calcium	28				mg/L			05/10/22 12:14	1
Magnesium	11				mg/L			05/10/22 12:14	1
Potassium	0.79				mg/L			05/10/22 12:14	1

General Chemistry (Continued)

Client Sample ID: MW-12A
Date Collected: 04/21/22 14:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	30				mg/L			05/10/22 12:14	1
Ammonia as N	0.00				mg/L			05/10/22 12:14	1
Chloride	60				mg/L			05/10/22 12:14	1
Sulfate	18				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	77				mg/L			05/10/22 12:14	1
Alkalinity	77				mg/L			05/10/22 12:14	1
Nitrate/Nitrite	3.0				mg/L			05/10/22 12:14	1
Anion/Cation Balance	-2.6				%			05/10/22 12:14	1
Calculated TDS	180				mg/L			05/10/22 12:14	1
TDS Ratio	1.3				NONE			05/10/22 12:14	1
Total Dissolved Solids	240				mg/L			05/10/22 12:14	1
Iron	0.00				mg/L			05/10/22 12:14	1
Calcium	1.4				meq/L			05/10/22 12:14	1
Magnesium	0.91				meq/L			05/10/22 12:14	1
Potassium	0.020				meq/L			05/10/22 12:14	1
Sodium	1.3				meq/L			05/10/22 12:14	1
Ammonia as N	0.00				meq/L			05/10/22 12:14	1
Chloride	1.7				meq/L			05/10/22 12:14	1
Sulfate	0.37				meq/L			05/10/22 12:14	1
Alkalinity	77				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	1.5				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.21				meq/L			05/10/22 12:14	1
Iron	0.00				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60		0.50		mg/L			05/07/22 07:13	1
Sulfate	18		1.0		mg/L			05/07/22 07:13	1
Ammonia as N	ND		0.030		mg/L			05/05/22 13:35	1
Nitrate/Nitrite	3.0		0.050		mg/L			05/03/22 16:46	1
Total Organic Carbon - Average	1.8		1.0		mg/L			04/28/22 17:12	1
Bicarbonate Alkalinity	77		10		mg/L			04/27/22 22:30	1
Total Dissolved Solids	240		10		mg/L			04/26/22 11:39	1

Client Sample ID: MW-12B
Date Collected: 04/21/22 13:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions	5.5				meq/L			05/10/22 12:14	1
Total Cations	5.8				meq/L			05/10/22 12:14	1
Percent Difference	2.4				%			05/10/22 12:14	1
Calcium	62				mg/L			05/10/22 12:14	1
Magnesium	19				mg/L			05/10/22 12:14	1
Potassium	0.53				mg/L			05/10/22 12:14	1
Sodium	23				mg/L			05/10/22 12:14	1
Ammonia as N	0.34				mg/L			05/10/22 12:14	1
Chloride	62				mg/L			05/10/22 12:14	1
Sulfate	0.00				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	190				mg/L			05/10/22 12:14	1
Alkalinity	190				mg/L			05/10/22 12:14	1
Nitrate/Nitrite	0.00				mg/L			05/10/22 12:14	1

General Chemistry (Continued)

Client Sample ID: MW-12B
Date Collected: 04/21/22 13:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	2.4				%			05/10/22 12:14	1
Calculated TDS	280				mg/L			05/10/22 12:14	1
TDS Ratio	1.1				NONE			05/10/22 12:14	1
Total Dissolved Solids	310				mg/L			05/10/22 12:14	1
Iron	2.3				mg/L			05/10/22 12:14	1
Calcium	3.1				meq/L			05/10/22 12:14	1
Magnesium	1.6				meq/L			05/10/22 12:14	1
Potassium	0.014				meq/L			05/10/22 12:14	1
Sodium	1.0				meq/L			05/10/22 12:14	1
Ammonia as N	0.024				meq/L			05/10/22 12:14	1
Chloride	1.7				meq/L			05/10/22 12:14	1
Sulfate	0.00				meq/L			05/10/22 12:14	1
Alkalinity	190				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	3.8				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.00				meq/L			05/10/22 12:14	1
Iron	0.12				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62		0.50		mg/L			05/07/22 07:31	1
Sulfate	ND		1.0		mg/L			05/07/22 07:31	1
Ammonia as N	0.34		0.030		mg/L			05/05/22 13:53	1
Nitrate/Nitrite	ND		0.050		mg/L			05/03/22 16:48	1
Total Organic Carbon - Average	1.5		1.0		mg/L			04/28/22 17:57	1
Bicarbonate Alkalinity	190		10		mg/L			04/27/22 22:36	1
Total Dissolved Solids	310		10		mg/L			04/26/22 11:39	1

Client Sample ID: MW-15A
Date Collected: 04/19/22 14:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions	1.5				meq/L			05/10/22 12:14	1
Total Cations	1.4				meq/L			05/10/22 12:14	1
Percent Difference	-3.9				%			05/10/22 12:14	1
Calcium	6.9				mg/L			05/10/22 12:14	1
Magnesium	2.4				mg/L			05/10/22 12:14	1
Potassium	0.00				mg/L			05/10/22 12:14	1
Sodium	19				mg/L			05/10/22 12:14	1
Ammonia as N	0.00				mg/L			05/10/22 12:14	1
Chloride	2.3				mg/L			05/10/22 12:14	1
Sulfate	24				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	46				mg/L			05/10/22 12:14	1
Alkalinity	46				mg/L			05/10/22 12:14	1
Nitrate/Nitrite	0.00				mg/L			05/10/22 12:14	1
Anion/Cation Balance	-3.9				%			05/10/22 12:14	1
Calculated TDS	58				mg/L			05/10/22 12:14	1
TDS Ratio	4.5				NONE			05/10/22 12:14	1
Total Dissolved Solids	260				mg/L			05/10/22 12:14	1
Iron	0.066				mg/L			05/10/22 12:14	1
Calcium	0.34				meq/L			05/10/22 12:14	1
Magnesium	0.20				meq/L			05/10/22 12:14	1

General Chemistry (Continued)

Client Sample ID: MW-15A
Date Collected: 04/19/22 14:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	0.00				meq/L			05/10/22 12:14	1
Sodium	0.83				meq/L			05/10/22 12:14	1
Ammonia as N	0.00				meq/L			05/10/22 12:14	1
Chloride	0.065				meq/L			05/10/22 12:14	1
Sulfate	0.50				meq/L			05/10/22 12:14	1
Alkalinity	46				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	0.92				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.00				meq/L			05/10/22 12:14	1
Iron	0.0035				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		0.50		mg/L			05/07/22 07:50	1
Sulfate	24		1.0		mg/L			05/07/22 07:50	1
Ammonia as N	ND		0.030		mg/L			05/05/22 13:55	1
Nitrate/Nitrite	ND		0.050		mg/L			05/03/22 16:50	1
Total Organic Carbon - Average	1.3		1.0		mg/L			04/28/22 18:16	1
Bicarbonate Alkalinity	46		10		mg/L			04/27/22 22:41	1
Total Dissolved Solids	260		10		mg/L			04/26/22 08:45	1

Client Sample ID: MW-15B
Date Collected: 04/20/22 11:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions	6.3				meq/L			05/10/22 12:14	1
Total Cations	6.2				meq/L			05/10/22 12:14	1
Percent Difference	-0.47				%			05/10/22 12:14	1
Calcium	56				mg/L			05/10/22 12:14	1
Magnesium	25				mg/L			05/10/22 12:14	1
Potassium	0.00				mg/L			05/10/22 12:14	1
Sodium	31				mg/L			05/10/22 12:14	1
Ammonia as N	0.040				mg/L			05/10/22 12:14	1
Chloride	23				mg/L			05/10/22 12:14	1
Sulfate	2.4				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	280				mg/L			05/10/22 12:14	1
Alkalinity	280				mg/L			05/10/22 12:14	1
Nitrate/Nitrite	0.00				mg/L			05/10/22 12:14	1
Anion/Cation Balance	-0.47				%			05/10/22 12:14	1
Calculated TDS	300				mg/L			05/10/22 12:14	1
TDS Ratio	1.1				NONE			05/10/22 12:14	1
Total Dissolved Solids	330				mg/L			05/10/22 12:14	1
Iron	0.59				mg/L			05/10/22 12:14	1
Calcium	2.8				meq/L			05/10/22 12:14	1
Magnesium	2.1				meq/L			05/10/22 12:14	1
Potassium	0.00				meq/L			05/10/22 12:14	1
Sodium	1.3				meq/L			05/10/22 12:14	1
Ammonia as N	0.0029				meq/L			05/10/22 12:14	1
Chloride	0.65				meq/L			05/10/22 12:14	1
Sulfate	0.050				meq/L			05/10/22 12:14	1
Alkalinity	280				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	5.6				meq/L			05/10/22 12:14	1

General Chemistry (Continued)

Client Sample ID: MW-15B
Date Collected: 04/20/22 11:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	0.00				meq/L			05/10/22 12:14	1
Iron	0.032				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		0.50		mg/L			05/07/22 08:08	1
Sulfate	2.4		1.0		mg/L			05/07/22 08:08	1
Ammonia as N	0.040		0.030		mg/L			05/05/22 13:57	1
Nitrate/Nitrite	ND		0.050		mg/L			05/02/22 17:10	1
Total Organic Carbon - Average	1.1		1.0		mg/L			04/28/22 18:30	1
Bicarbonate Alkalinity	280		10		mg/L			04/28/22 19:46	1
Total Dissolved Solids	330		10		mg/L			04/26/22 11:39	1

Client Sample ID: MW-16A
Date Collected: 04/19/22 12:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-6
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions	3.7				meq/L			05/10/22 12:14	1
Total Cations	4.1				meq/L			05/10/22 12:14	1
Percent Difference	6.3				%			05/10/22 12:14	1
Calcium	31				mg/L			05/10/22 12:14	1
Magnesium	14				mg/L			05/10/22 12:14	1
Potassium	0.00				mg/L			05/10/22 12:14	1
Sodium	33				mg/L			05/10/22 12:14	1
Ammonia as N	0.00				mg/L			05/10/22 12:14	1
Chloride	13				mg/L			05/10/22 12:14	1
Sulfate	23				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	140				mg/L			05/10/22 12:14	1
Alkalinity	140				mg/L			05/10/22 12:14	1
Nitrate/Nitrite	0.11				mg/L			05/10/22 12:14	1
Anion/Cation Balance	6.3				%			05/10/22 12:14	1
Calculated TDS	180				mg/L			05/10/22 12:14	1
TDS Ratio	1.2				NONE			05/10/22 12:14	1
Total Dissolved Solids	210				mg/L			05/10/22 12:14	1
Iron	0.080				mg/L			05/10/22 12:14	1
Calcium	1.5				meq/L			05/10/22 12:14	1
Magnesium	1.2				meq/L			05/10/22 12:14	1
Potassium	0.00				meq/L			05/10/22 12:14	1
Sodium	1.4				meq/L			05/10/22 12:14	1
Ammonia as N	0.00				meq/L			05/10/22 12:14	1
Chloride	0.37				meq/L			05/10/22 12:14	1
Sulfate	0.48				meq/L			05/10/22 12:14	1
Alkalinity	140				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	2.8				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.0079				meq/L			05/10/22 12:14	1
Iron	0.0043				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		0.50		mg/L			05/09/22 19:07	1
Sulfate	23		1.0		mg/L			05/09/22 19:07	1
Ammonia as N	ND		0.030		mg/L			05/05/22 13:59	1
Nitrate/Nitrite	0.11		0.050		mg/L			05/02/22 17:12	1

General Chemistry (Continued)

Client Sample ID: MW-16A
Date Collected: 04/19/22 12:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	1.7		1.0		mg/L			04/28/22 18:48	1
Bicarbonate Alkalinity	140		10		mg/L			04/28/22 19:52	1
Total Dissolved Solids	210		10		mg/L			04/26/22 08:45	1

Client Sample ID: DUP1
Date Collected: 04/19/22 12:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-7
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions	3.5				meq/L			05/10/22 12:14	1
Total Cations	4.2				meq/L			05/10/22 12:14	1
Percent Difference	9.6				%			05/10/22 12:14	1
Calcium	31				mg/L			05/10/22 12:14	1
Magnesium	14				mg/L			05/10/22 12:14	1
Potassium	0.00				mg/L			05/10/22 12:14	1
Sodium	34				mg/L			05/10/22 12:14	1
Ammonia as N	0.00				mg/L			05/10/22 12:14	1
Chloride	13				mg/L			05/10/22 12:14	1
Sulfate	23				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	130				mg/L			05/10/22 12:14	1
Alkalinity	130				mg/L			05/10/22 12:14	1
Nitrate/Nitrite	0.12				mg/L			05/10/22 12:14	1
Anion/Cation Balance	9.6				%			05/10/22 12:14	1
Calculated TDS	170				mg/L			05/10/22 12:14	1
TDS Ratio	1.2				NONE			05/10/22 12:14	1
Total Dissolved Solids	200				mg/L			05/10/22 12:14	1
Iron	0.058				mg/L			05/10/22 12:14	1
Calcium	1.5				meq/L			05/10/22 12:14	1
Magnesium	1.2				meq/L			05/10/22 12:14	1
Potassium	0.00				meq/L			05/10/22 12:14	1
Sodium	1.5				meq/L			05/10/22 12:14	1
Ammonia as N	0.00				meq/L			05/10/22 12:14	1
Chloride	0.37				meq/L			05/10/22 12:14	1
Sulfate	0.48				meq/L			05/10/22 12:14	1
Alkalinity	130				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	2.6				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.0086				meq/L			05/10/22 12:14	1
Iron	0.0031				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		0.50		mg/L			05/09/22 19:26	1
Sulfate	23		1.0		mg/L			05/09/22 19:26	1
Ammonia as N	ND		0.030		mg/L			05/05/22 14:01	1
Nitrate/Nitrite	0.12		0.050		mg/L			05/02/22 17:14	1
Total Organic Carbon - Average	1.7		1.0		mg/L			04/28/22 19:33	1
Bicarbonate Alkalinity	130		10		mg/L			04/28/22 19:58	1
Total Dissolved Solids	200		10		mg/L			04/26/22 08:45	1

General Chemistry

Client Sample ID: MW-16B
Date Collected: 04/19/22 14:10
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-8
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions	11				meq/L			05/10/22 12:14	1
Total Cations	11				meq/L			05/10/22 12:14	1
Percent Difference	-1.6				%			05/10/22 12:14	1
Calcium	98				mg/L			05/10/22 12:14	1
Magnesium	35				mg/L			05/10/22 12:14	1
Potassium	0.55				mg/L			05/10/22 12:14	1
Sodium	65				mg/L			05/10/22 12:14	1
Ammonia as N	0.23				mg/L			05/10/22 12:14	1
Chloride	140				mg/L			05/10/22 12:14	1
Sulfate	3.7				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	350				mg/L			05/10/22 12:14	1
Alkalinity	350				mg/L			05/10/22 12:14	1
Nitrate/Nitrite	0.00				mg/L			05/10/22 12:14	1
Anion/Cation Balance	-1.6				%			05/10/22 12:14	1
Calculated TDS	550				mg/L			05/10/22 12:14	1
TDS Ratio	1.1				NONE			05/10/22 12:14	1
Total Dissolved Solids	580				mg/L			05/10/22 12:14	1
Iron	0.83				mg/L			05/10/22 12:14	1
Calcium	4.9				meq/L			05/10/22 12:14	1
Magnesium	2.9				meq/L			05/10/22 12:14	1
Potassium	0.014				meq/L			05/10/22 12:14	1
Sodium	2.8				meq/L			05/10/22 12:14	1
Ammonia as N	0.016				meq/L			05/10/22 12:14	1
Chloride	3.9				meq/L			05/10/22 12:14	1
Sulfate	0.077				meq/L			05/10/22 12:14	1
Alkalinity	350				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	7.0				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.00				meq/L			05/10/22 12:14	1
Iron	0.045				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		0.50		mg/L			05/09/22 19:46	1
Sulfate	3.7		1.0		mg/L			05/09/22 19:46	1
Ammonia as N	0.23		0.030		mg/L			05/05/22 14:03	1
Nitrate/Nitrite	ND		0.050		mg/L			05/02/22 17:16	1
Total Organic Carbon - Average	1.5		1.0		mg/L			04/28/22 19:53	1
Bicarbonate Alkalinity	350		10		mg/L			04/28/22 20:31	1
Total Dissolved Solids	580		10		mg/L			04/26/22 08:45	1

Client Sample ID: MW-21A
Date Collected: 04/21/22 12:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-9
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions	3.1				meq/L			05/10/22 12:14	1
Total Cations	3.0				meq/L			05/10/22 12:14	1
Percent Difference	-1.8				%			05/10/22 12:14	1
Calcium	28				mg/L			05/10/22 12:14	1
Magnesium	11				mg/L			05/10/22 12:14	1
Potassium	0.00				mg/L			05/10/22 12:14	1
Sodium	15				mg/L			05/10/22 12:14	1

General Chemistry (Continued)

Client Sample ID: MW-21A
Date Collected: 04/21/22 12:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-9
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.00				mg/L			05/10/22 12:14	1
Chloride	4.7				mg/L			05/10/22 12:14	1
Sulfate	11				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	130				mg/L			05/10/22 12:14	1
Alkalinity	130				mg/L			05/10/22 12:14	1
Nitrate/Nitrite	1.5				mg/L			05/10/22 12:14	1
Anion/Cation Balance	-1.8				%			05/10/22 12:14	1
Calculated TDS	140				mg/L			05/10/22 12:14	1
TDS Ratio	1.3				NONE			05/10/22 12:14	1
Total Dissolved Solids	180				mg/L			05/10/22 12:14	1
Iron	0.033				mg/L			05/10/22 12:14	1
Calcium	1.4				meq/L			05/10/22 12:14	1
Magnesium	0.91				meq/L			05/10/22 12:14	1
Potassium	0.00				meq/L			05/10/22 12:14	1
Sodium	0.65				meq/L			05/10/22 12:14	1
Ammonia as N	0.00				meq/L			05/10/22 12:14	1
Chloride	0.13				meq/L			05/10/22 12:14	1
Sulfate	0.23				meq/L			05/10/22 12:14	1
Alkalinity	130				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	2.6				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.11				meq/L			05/10/22 12:14	1
Iron	0.0018				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.7		0.50		mg/L			05/09/22 20:05	1
Sulfate	11		1.0		mg/L			05/09/22 20:05	1
Ammonia as N	ND		0.030		mg/L			05/05/22 14:05	1
Nitrate/Nitrite	1.5		0.050		mg/L			05/02/22 17:30	1
Total Organic Carbon - Average	1.5		1.0		mg/L			04/28/22 20:09	1
Bicarbonate Alkalinity	130		10		mg/L			04/28/22 20:45	1
Total Dissolved Solids	180		10		mg/L			04/26/22 11:39	1

Method: Field Sampling - Field Sampling

Client Sample ID: MW-12A
Date Collected: 04/21/22 14:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.91				SU			04/21/22 15:30	1
Field Conductivity	440.3				umhos/cm			04/21/22 15:30	1
Field Temperature	9.4				Degrees C			04/21/22 15:30	1
Field Dissolved Oxygen	3.20				mg/L			04/21/22 15:30	1
Field EH/ORP	196.2				millivolts			04/21/22 15:30	1

Client Sample ID: MW-12B
Date Collected: 04/21/22 13:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.06				SU			04/21/22 14:40	1
Field Conductivity	594.9				umhos/cm			04/21/22 14:40	1
Field Temperature	10.7				Degrees C			04/21/22 14:40	1

Method: Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-12B
Date Collected: 04/21/22 13:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Dissolved Oxygen	3.22				mg/L			04/21/22 14:40	1
Field EH/ORP	-44.1				millivolts			04/21/22 14:40	1

Client Sample ID: MW-15A
Date Collected: 04/19/22 14:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.15				SU			04/19/22 15:45	1
Field Conductivity	149.8				umhos/cm			04/19/22 15:45	1
Field Temperature	12.3				Degrees C			04/19/22 15:45	1
Field Dissolved Oxygen	7.11				mg/L			04/19/22 15:45	1
Field EH/ORP	177.2				millivolts			04/19/22 15:45	1

Client Sample ID: MW-15B
Date Collected: 04/20/22 11:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.72				SU			04/20/22 12:35	1
Field Conductivity	527.6				umhos/cm			04/20/22 12:35	1
Field Temperature	12.1				Degrees C			04/20/22 12:35	1
Field Dissolved Oxygen	0.78				mg/L			04/20/22 12:35	1
Field EH/ORP	29.6				millivolts			04/20/22 12:35	1

Client Sample ID: MW-16A
Date Collected: 04/19/22 12:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-6
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.18				SU			04/19/22 13:40	1
Field Conductivity	326.8				umhos/cm			04/19/22 13:40	1
Field Temperature	12.0				Degrees C			04/19/22 13:40	1
Field Dissolved Oxygen	9.42				mg/L			04/19/22 13:40	1
Field EH/ORP	117.4				millivolts			04/19/22 13:40	1

Client Sample ID: DUP1
Date Collected: 04/19/22 12:45
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-7
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.18				SU			04/19/22 13:45	1
Field Conductivity	326.8				umhos/cm			04/19/22 13:45	1
Field Temperature	12.0				Degrees C			04/19/22 13:45	1
Field Dissolved Oxygen	9.42				mg/L			04/19/22 13:45	1
Field EH/ORP	117.4				millivolts			04/19/22 13:45	1

Client Sample ID: MW-16B
Date Collected: 04/19/22 14:10
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-8
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.82				SU			04/19/22 15:10	1
Field Conductivity	1135				umhos/cm			04/19/22 15:10	1
Field Temperature	12.0				Degrees C			04/19/22 15:10	1
Field Dissolved Oxygen	0.71				mg/L			04/19/22 15:10	1

Method: Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-16B
Date Collected: 04/19/22 14:10
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-8
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	-10.3				millivolts			04/19/22 15:10	1

Client Sample ID: MW-21A
Date Collected: 04/21/22 12:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-9
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.12				SU			04/21/22 13:15	1
Field Conductivity	316.5				umhos/cm			04/21/22 13:15	1
Field Temperature	11.6				Degrees C			04/21/22 13:15	1
Field Dissolved Oxygen	0.91				mg/L			04/21/22 13:15	1
Field EH/ORP	225.3				millivolts			04/21/22 13:15	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161414-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-161414-1	TRIP BLANK	102	95	107	91
280-161414-2	MW-12A	94	97	89	109
280-161414-3	MW-12B	93	97	89	109
280-161414-4	MW-15A	100	95	105	93
280-161414-4 - RA	MW-15A	101	96	102	103
280-161414-5	MW-15B	93	97	86	112
280-161414-6	MW-16A	100	96	105	93
280-161414-6 - RA	MW-16A	100	97	102	103
280-161414-7	DUP1	99	97	102	97
280-161414-7 - RA	DUP1	101	98	101	104
280-161414-8	MW-16B	97	95	100	96
280-161414-8 - RA	MW-16B	100	95	102	104
280-161414-9	MW-21A	94	96	88	110
280-161623-D-1 MS	Matrix Spike	96	96	94	104
280-161623-E-1 MSD	Matrix Spike Duplicate	95	97	94	104
280-161669-A-17 MS	Matrix Spike	95	94	88	111
280-161669-B-17 MSD	Matrix Spike Duplicate	90	93	89	109
LCS 280-573474/4	Lab Control Sample	106	95	115	85
LCS 280-573636/1002	Lab Control Sample	98	95	99	102
LCS 280-573782/5	Lab Control Sample	89	96	85	111
LCSD 280-573474/5	Lab Control Sample Dup	107	96	116	84
LCSD 280-573636/5	Lab Control Sample Dup	100	96	100	102
LCSD 280-573782/6	Lab Control Sample Dup	92	96	89	111
MB 280-573474/9	Method Blank	104	96	118	83
MB 280-573636/9	Method Blank	102	96	102	101
MB 280-573649/9	Method Blank	94	96	90	109
MB 280-573782/10	Method Blank	94	99	90	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-161414-1	TRIP BLANK	101
280-161414-2	MW-12A	106
280-161414-3	MW-12B	102
280-161414-4	MW-15A	115
280-161414-5	MW-15B	112
280-161414-6	MW-16A	112
280-161414-7	DUP1	111
280-161414-8	MW-16B	112
280-161414-9	MW-21A	116
LCS 280-573629/2-A	Lab Control Sample	118

Surrogate Summary

Client: Waste Management
Job ID: 280-161414-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**12DBP1 (70-130)**
LCSD 280-573629/3-A	Lab Control Sample Dup	120
MB 280-573629/1-A	Method Blank	112

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-573474/9
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,1-Dichloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,1-Dichloroethene	ND		1.0		ug/L			04/30/22 09:13	1
1,1-Dichloropropene	ND		1.0		ug/L			04/30/22 09:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/30/22 09:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,2-Dichloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,2-Dichloropropane	ND		1.0		ug/L			04/30/22 09:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,3-Dichloropropane	ND		1.0		ug/L			04/30/22 09:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
2,2-Dichloropropane	ND		5.0		ug/L			04/30/22 09:13	1
2-Butanone (MEK)	ND		6.0		ug/L			04/30/22 09:13	1
2-Chlorotoluene	ND		1.0		ug/L			04/30/22 09:13	1
2-Hexanone	ND		5.0		ug/L			04/30/22 09:13	1
4-Chlorotoluene	ND		1.0		ug/L			04/30/22 09:13	1
4-Isopropyltoluene	ND		1.0		ug/L			04/30/22 09:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/30/22 09:13	1
Acetone	ND		10		ug/L			04/30/22 09:13	1
Benzene	ND		1.0		ug/L			04/30/22 09:13	1
Bromobenzene	ND		1.0		ug/L			04/30/22 09:13	1
Bromochloromethane	ND		1.0		ug/L			04/30/22 09:13	1
Bromodichloromethane	ND		1.0		ug/L			04/30/22 09:13	1
Bromoform	ND		1.0		ug/L			04/30/22 09:13	1
Bromomethane	ND		2.0		ug/L			04/30/22 09:13	1
Carbon disulfide	ND		2.0		ug/L			04/30/22 09:13	1
Carbon tetrachloride	ND		1.0		ug/L			04/30/22 09:13	1
Chlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
Chloroethane	ND		2.0		ug/L			04/30/22 09:13	1
Chloroform	ND		1.0		ug/L			04/30/22 09:13	1
Chloromethane	ND		2.0		ug/L			04/30/22 09:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 09:13	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/30/22 09:13	1
Dibromochloromethane	ND		1.0		ug/L			04/30/22 09:13	1
Dibromomethane	ND		1.0		ug/L			04/30/22 09:13	1
Dichlorodifluoromethane	ND		2.0		ug/L			04/30/22 09:13	1
Ethylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
Hexachlorobutadiene	ND		1.0		ug/L			04/30/22 09:13	1
Isopropylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
Methylene Chloride	ND		5.0		ug/L			04/30/22 09:13	1
Naphthalene	ND		1.0		ug/L			04/30/22 09:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573474/9
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
N-Propylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
sec-Butylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
Styrene	ND		1.0		ug/L			04/30/22 09:13	1
tert-Butylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
Tetrachloroethene	ND		1.0		ug/L			04/30/22 09:13	1
Toluene	ND		1.0		ug/L			04/30/22 09:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 09:13	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			04/30/22 09:13	1
Trichloroethene	ND		1.0		ug/L			04/30/22 09:13	1
Trichlorofluoromethane	ND		2.0		ug/L			04/30/22 09:13	1
Vinyl chloride	ND		1.0		ug/L			04/30/22 09:13	1
Xylenes (total)	ND		2.0		ug/L			04/30/22 09:13	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/30/22 09:13*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*04/30/22 09:13*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*04/30/22 09:13*	*1*
Dibromofluoromethane (Surr)	*118*		*77 - 120*		*04/30/22 09:13*	*1*
Toluene-d8 (Surr)	*83*		*80 - 125*		*04/30/22 09:13*	*1*

Lab Sample ID: LCS 280-573474/4
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	42.0		ug/L		84	74 - 121
1,1,1-Trichloroethane	50.0	53.9		ug/L		108	62 - 132
1,1,2,2-Tetrachloroethane	50.0	37.6		ug/L		75	72 - 122
1,1,2-Trichloroethane	50.0	58.7		ug/L		117	72 - 128
1,1-Dichloroethane	50.0	52.4		ug/L		105	66 - 130
1,1-Dichloroethene	50.0	46.6		ug/L		93	62 - 130
1,1-Dichloropropene	50.0	53.4		ug/L		107	64 - 133
1,2,3-Trichlorobenzene	50.0	35.1		ug/L		70	70 - 127
1,2,3-Trichloropropane	50.0	38.5		ug/L		77	74 - 123
1,2,4-Trichlorobenzene	50.0	36.8		ug/L		74	73 - 124
1,2,4-Trimethylbenzene	50.0	37.6		ug/L		75	74 - 124
1,2-Dichlorobenzene	50.0	37.3	*-	ug/L		75	77 - 121
1,2-Dichloroethane	50.0	55.0		ug/L		110	61 - 130
1,2-Dichloropropane	50.0	55.2		ug/L		110	68 - 127
1,3,5-Trimethylbenzene	50.0	37.6		ug/L		75	73 - 127
1,3-Dichlorobenzene	50.0	37.6	*-	ug/L		75	76 - 121
1,3-Dichloropropane	50.0	41.5		ug/L		83	80 - 118
1,4-Dichlorobenzene	50.0	37.6	*-	ug/L		75	76 - 119
2,2-Dichloropropane	50.0	53.3		ug/L		107	57 - 140
2-Butanone (MEK)	200	195		ug/L		97	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573474/4
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	50.0	37.9		ug/L		76	75 - 123
2-Hexanone	200	150		ug/L		75	58 - 134
4-Chlorotoluene	50.0	38.3		ug/L		77	74 - 124
4-Isopropyltoluene	50.0	37.6		ug/L		75	74 - 127
4-Methyl-2-pentanone	200	224		ug/L		112	56 - 135
Acetone	200	198		ug/L		99	50 - 137
Benzene	50.0	55.6		ug/L		111	69 - 126
Bromobenzene	50.0	39.2		ug/L		78	75 - 122
Bromochloromethane	50.0	59.6		ug/L		119	71 - 130
Bromodichloromethane	50.0	57.6		ug/L		115	67 - 126
Bromoform	50.0	40.5		ug/L		81	57 - 125
Bromomethane	50.0	54.9		ug/L		110	25 - 163
Carbon disulfide	50.0	40.3		ug/L		81	56 - 128
Carbon tetrachloride	50.0	53.7		ug/L		107	60 - 133
Chlorobenzene	50.0	41.1		ug/L		82	78 - 118
Chloroethane	50.0	57.2		ug/L		114	52 - 144
Chloroform	50.0	55.8		ug/L		112	68 - 128
Chloromethane	50.0	48.4		ug/L		97	43 - 142
cis-1,2-Dichloroethene	50.0	57.2		ug/L		114	69 - 126
cis-1,3-Dichloropropene	50.0	40.3		ug/L		81	75 - 120
Dibromochloromethane	50.0	40.8		ug/L		82	71 - 122
Dibromomethane	50.0	58.4		ug/L		117	68 - 129
Dichlorodifluoromethane	50.0	47.6		ug/L		95	26 - 152
Ethylbenzene	50.0	40.2		ug/L		80	76 - 121
Hexachlorobutadiene	50.0	34.7		ug/L		69	69 - 133
Isopropylbenzene	50.0	37.1		ug/L		74	70 - 127
Methylene Chloride	50.0	56.2		ug/L		112	64 - 128
Naphthalene	50.0	35.5		ug/L		71	63 - 129
n-Butylbenzene	50.0	37.1		ug/L		74	69 - 130
N-Propylbenzene	50.0	37.0		ug/L		74	73 - 127
sec-Butylbenzene	50.0	37.5		ug/L		75	72 - 127
Styrene	50.0	41.9		ug/L		84	79 - 120
tert-Butylbenzene	50.0	40.6		ug/L		81	72 - 126
Tetrachloroethene	50.0	40.1		ug/L		80	72 - 127
Toluene	50.0	57.0		ug/L		114	68 - 127
trans-1,2-Dichloroethene	50.0	54.0		ug/L		108	66 - 129
trans-1,3-Dichloropropene	50.0	57.4		ug/L		115	66 - 127
Trichloroethene	50.0	57.0		ug/L		114	70 - 125
Trichlorofluoromethane	50.0	59.6		ug/L		119	57 - 144
Vinyl chloride	50.0	51.5		ug/L		103	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*
Dibromofluoromethane (Surr)	*115*		*77 - 120*
Toluene-d8 (Surr)	*85*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573474/5
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	41.5		ug/L		83	74 - 121	1	20
1,1,1-Trichloroethane	50.0	53.6		ug/L		107	62 - 132	0	20
1,1,2,2-Tetrachloroethane	50.0	39.2		ug/L		78	72 - 122	4	20
1,1,2-Trichloroethane	50.0	60.7		ug/L		121	72 - 128	3	20
1,1-Dichloroethane	50.0	52.7		ug/L		105	66 - 130	1	20
1,1-Dichloroethene	50.0	46.7		ug/L		93	62 - 130	0	21
1,1-Dichloropropene	50.0	53.7		ug/L		107	64 - 133	0	20
1,2,3-Trichlorobenzene	50.0	38.1		ug/L		76	70 - 127	8	20
1,2,3-Trichloropropane	50.0	40.0		ug/L		80	74 - 123	4	20
1,2,4-Trichlorobenzene	50.0	38.1		ug/L		76	73 - 124	4	20
1,2,4-Trimethylbenzene	50.0	37.7		ug/L		75	74 - 124	0	20
1,2-Dichlorobenzene	50.0	38.6		ug/L		77	77 - 121	3	20
1,2-Dichloroethane	50.0	56.3		ug/L		113	61 - 130	2	20
1,2-Dichloropropane	50.0	55.3		ug/L		111	68 - 127	0	20
1,3,5-Trimethylbenzene	50.0	37.8		ug/L		76	73 - 127	1	20
1,3-Dichlorobenzene	50.0	38.1		ug/L		76	76 - 121	1	20
1,3-Dichloropropane	50.0	42.3		ug/L		85	80 - 118	2	20
1,4-Dichlorobenzene	50.0	37.6	*-	ug/L		75	76 - 119	0	20
2,2-Dichloropropane	50.0	54.4		ug/L		109	57 - 140	2	22
2-Butanone (MEK)	200	210		ug/L		105	53 - 135	7	20
2-Chlorotoluene	50.0	38.5		ug/L		77	75 - 123	2	20
2-Hexanone	200	157		ug/L		79	58 - 134	5	21
4-Chlorotoluene	50.0	38.5		ug/L		77	74 - 124	0	20
4-Isopropyltoluene	50.0	38.0		ug/L		76	74 - 127	1	20
4-Methyl-2-pentanone	200	237		ug/L		119	56 - 135	6	20
Acetone	200	218		ug/L		109	50 - 137	10	21
Benzene	50.0	55.6		ug/L		111	69 - 126	0	20
Bromobenzene	50.0	39.3		ug/L		79	75 - 122	0	20
Bromochloromethane	50.0	60.7		ug/L		121	71 - 130	2	20
Bromodichloromethane	50.0	58.0		ug/L		116	67 - 126	1	20
Bromoform	50.0	40.9		ug/L		82	57 - 125	1	20
Bromomethane	50.0	57.3		ug/L		115	25 - 163	4	40
Carbon disulfide	50.0	39.3		ug/L		79	56 - 128	2	20
Carbon tetrachloride	50.0	53.3		ug/L		107	60 - 133	1	20
Chlorobenzene	50.0	40.9		ug/L		82	78 - 118	1	20
Chloroethane	50.0	56.5		ug/L		113	52 - 144	1	30
Chloroform	50.0	56.2		ug/L		112	68 - 128	1	20
Chloromethane	50.0	47.7		ug/L		95	43 - 142	1	20
cis-1,2-Dichloroethene	50.0	57.1		ug/L		114	69 - 126	0	20
cis-1,3-Dichloropropene	50.0	40.4		ug/L		81	75 - 120	0	20
Dibromochloromethane	50.0	41.7		ug/L		83	71 - 122	2	20
Dibromomethane	50.0	60.5		ug/L		121	68 - 129	4	20
Dichlorodifluoromethane	50.0	48.1		ug/L		96	26 - 152	1	21
Ethylbenzene	50.0	39.7		ug/L		79	76 - 121	1	20
Hexachlorobutadiene	50.0	36.3		ug/L		73	69 - 133	5	20
Isopropylbenzene	50.0	37.1		ug/L		74	70 - 127	0	20
Methylene Chloride	50.0	56.4		ug/L		113	64 - 128	0	20
Naphthalene	50.0	37.4		ug/L		75	63 - 129	5	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573474/5
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene			50.0	37.5		ug/L		75	69 - 130	1	20
N-Propylbenzene			50.0	37.4		ug/L		75	73 - 127	1	20
sec-Butylbenzene			50.0	37.8		ug/L		76	72 - 127	1	20
Styrene			50.0	41.6		ug/L		83	79 - 120	1	20
tert-Butylbenzene			50.0	41.0		ug/L		82	72 - 126	1	20
Tetrachloroethene			50.0	40.3		ug/L		81	72 - 127	0	20
Toluene			50.0	57.6		ug/L		115	68 - 127	1	20
trans-1,2-Dichloroethene			50.0	53.8		ug/L		108	66 - 129	0	20
trans-1,3-Dichloropropene			50.0	59.4		ug/L		119	66 - 127	3	20
Trichloroethene			50.0	55.5		ug/L		111	70 - 125	3	20
Trichlorofluoromethane			50.0	58.9		ug/L		118	57 - 144	1	28
Vinyl chloride			50.0	50.4		ug/L		101	53 - 141	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*116*		*77 - 120*
Toluene-d8 (Surr)	*84*		*80 - 125*

Lab Sample ID: 280-161623-D-1 MS
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1,2-Tetrachloroethane	ND	F1 F2	25.0	28.0		ug/L		112	74 - 121		
1,1,1-Trichloroethane	ND	F1 F2	25.0	21.9		ug/L		87	62 - 132		
1,1,2,2-Tetrachloroethane	ND	F1 F2	25.0	29.2		ug/L		117	72 - 122		
1,1,2-Trichloroethane	ND	F1 F2	25.0	25.3		ug/L		101	72 - 128		
1,1-Dichloroethane	ND	F1 F2	25.0	21.7		ug/L		87	66 - 130		
1,1-Dichloroethene	ND	F1 F2	25.0	19.1		ug/L		76	62 - 130		
1,1-Dichloropropene	ND	F1 F2	25.0	22.0		ug/L		88	64 - 133		
1,2,3-Trichlorobenzene	ND	F1 F2	25.0	28.8		ug/L		115	70 - 127		
1,2,3-Trichloropropane	ND	F1 F2	25.0	30.4		ug/L		121	74 - 123		
1,2,4-Trichlorobenzene	ND	F1 F2	25.0	28.4		ug/L		113	73 - 124		
1,2,4-Trimethylbenzene	ND	F1 F2	25.0	28.8		ug/L		115	74 - 124		
1,2-Dichlorobenzene	ND	*- F1 F2	25.0	29.2		ug/L		117	77 - 121		
1,2-Dichloroethane	ND	F1 F2	25.0	23.1		ug/L		92	61 - 130		
1,2-Dichloropropane	ND	F1 F2	25.0	22.8		ug/L		91	68 - 127		
1,3,5-Trimethylbenzene	ND	F1 F2	25.0	28.9		ug/L		116	73 - 127		
1,3-Dichlorobenzene	ND	*- F1 F2	25.0	29.3		ug/L		117	76 - 121		
1,3-Dichloropropane	ND	F1 F2	25.0	29.2		ug/L		117	80 - 118		
1,4-Dichlorobenzene	ND	*- F1 F2	25.0	28.7		ug/L		115	76 - 119		
2,2-Dichloropropane	ND	F1 F2	25.0	19.4		ug/L		77	57 - 140		
2-Butanone (MEK)	ND	F1 F2	100	81.0		ug/L		81	53 - 135		
2-Chlorotoluene	ND	F1 F2	25.0	29.1		ug/L		116	75 - 123		
2-Hexanone	ND	F2	100	103		ug/L		103	58 - 134		
4-Chlorotoluene	ND	F1 F2	25.0	29.4		ug/L		118	74 - 124		
4-Isopropyltoluene	ND	F1 F2	25.0	28.9		ug/L		116	74 - 127		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161623-D-1 MS
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone	ND	F1 F2	100	92.3		ug/L		92	56 - 135
Acetone	ND	F1 F2	100	81.8		ug/L		82	50 - 137
Benzene	ND	F1 F2	25.0	23.1		ug/L		92	69 - 126
Bromobenzene	ND	F1 F2	25.0	30.5		ug/L		122	75 - 122
Bromochloromethane	ND	F1 F2	25.0	25.0		ug/L		100	71 - 130
Bromodichloromethane	ND	F1 F2	25.0	23.6		ug/L		94	67 - 126
Bromoform	ND	F2	25.0	25.8		ug/L		103	57 - 125
Bromomethane	ND		25.0	18.3		ug/L		73	25 - 163
Carbon disulfide	ND	F1 F2	25.0	15.8		ug/L		63	56 - 128
Carbon tetrachloride	ND	F1 F2	25.0	21.4		ug/L		86	60 - 133
Chlorobenzene	ND	F1 F2	25.0	28.6		ug/L		114	78 - 118
Chloroethane	ND		25.0	20.4		ug/L		82	52 - 144
Chloroform	ND	F1 F2	25.0	23.6		ug/L		95	68 - 128
Chloromethane	ND	F2	25.0	16.6		ug/L		66	43 - 142
cis-1,2-Dichloroethene	ND	F1 F2	25.0	23.1		ug/L		92	69 - 126
cis-1,3-Dichloropropene	ND	F1 F2	25.0	26.0		ug/L		104	75 - 120
Dibromochloromethane	ND	F1 F2	25.0	27.3		ug/L		109	71 - 122
Dibromomethane	ND	F1 F2	25.0	24.9		ug/L		100	68 - 129
Dichlorodifluoromethane	ND		25.0	16.9		ug/L		68	26 - 152
Ethylbenzene	ND	F1 F2	25.0	27.7		ug/L		111	76 - 121
Hexachlorobutadiene	ND	F1 F2	25.0	26.1		ug/L		104	69 - 133
Isopropylbenzene	ND	F2	25.0	28.4		ug/L		114	70 - 127
Methylene Chloride	ND	F1 F2	25.0	22.5		ug/L		90	64 - 128
Naphthalene	ND	F2	25.0	28.4		ug/L		114	63 - 129
n-Butylbenzene	ND	F1 F2	25.0	27.7		ug/L		111	69 - 130
N-Propylbenzene	ND	F1 F2	25.0	28.8		ug/L		115	73 - 127
sec-Butylbenzene	ND	F1 F2	25.0	28.6		ug/L		114	72 - 127
Styrene	ND	F1 F2	25.0	28.6		ug/L		115	79 - 120
tert-Butylbenzene	ND	F2	25.0	31.2		ug/L		125	72 - 126
Tetrachloroethene	ND	F1 F2	25.0	28.0		ug/L		112	72 - 127
Toluene	ND	F1 F2	25.0	24.1		ug/L		96	68 - 127
trans-1,2-Dichloroethene	ND	F1 F2	25.0	22.3		ug/L		89	66 - 129
trans-1,3-Dichloropropene	ND	F1 F2	25.0	22.6		ug/L		90	66 - 127
Trichloroethene	ND	F1 F2	25.0	23.3		ug/L		93	70 - 125
Trichlorofluoromethane	ND		25.0	21.3		ug/L		85	57 - 144
Vinyl chloride	ND		25.0	18.0		ug/L		72	53 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*94*		*77 - 120*
Toluene-d8 (Surr)	*104*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161623-E-1 MSD
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND	F1 F2	25.0	16.7	F1 F2	ug/L		67	74 - 121	51	20
1,1,1-Trichloroethane	ND	F1 F2	25.0	13.3	F1 F2	ug/L		53	62 - 132	49	20
1,1,2,2-Tetrachloroethane	ND	F1 F2	25.0	17.4	F1 F2	ug/L		70	72 - 122	51	20
1,1,2-Trichloroethane	ND	F1 F2	25.0	14.6	F1 F2	ug/L		58	72 - 128	54	20
1,1-Dichloroethane	ND	F1 F2	25.0	13.3	F1 F2	ug/L		53	66 - 130	48	20
1,1-Dichloroethene	ND	F1 F2	25.0	11.7	F1 F2	ug/L		47	62 - 130	48	21
1,1-Dichloropropene	ND	F1 F2	25.0	13.3	F1 F2	ug/L		53	64 - 133	50	20
1,2,3-Trichlorobenzene	ND	F1 F2	25.0	17.3	F1 F2	ug/L		69	70 - 127	50	20
1,2,3-Trichloropropane	ND	F1 F2	25.0	17.3	F1 F2	ug/L		69	74 - 123	55	20
1,2,4-Trichlorobenzene	ND	F1 F2	25.0	17.0	F1 F2	ug/L		68	73 - 124	50	20
1,2,4-Trimethylbenzene	ND	F1 F2	25.0	17.6	F1 F2	ug/L		71	74 - 124	48	20
1,2-Dichlorobenzene	ND	*- F1 F2	25.0	18.2	F1 F2	ug/L		73	77 - 121	47	20
1,2-Dichloroethane	ND	F1 F2	25.0	14.0	F1 F2	ug/L		56	61 - 130	49	20
1,2-Dichloropropane	ND	F1 F2	25.0	13.9	F1 F2	ug/L		56	68 - 127	48	20
1,3,5-Trimethylbenzene	ND	F1 F2	25.0	17.6	F1 F2	ug/L		70	73 - 127	49	20
1,3-Dichlorobenzene	ND	*- F1 F2	25.0	17.8	F1 F2	ug/L		71	76 - 121	49	20
1,3-Dichloropropane	ND	F1 F2	25.0	17.0	F1 F2	ug/L		68	80 - 118	53	20
1,4-Dichlorobenzene	ND	*- F1 F2	25.0	17.7	F1 F2	ug/L		71	76 - 119	47	20
2,2-Dichloropropane	ND	F1 F2	25.0	11.5	F1 F2	ug/L		46	57 - 140	51	22
2-Butanone (MEK)	ND	F1 F2	100	46.5	F1 F2	ug/L		47	53 - 135	54	20
2-Chlorotoluene	ND	F1 F2	25.0	18.0	F1 F2	ug/L		72	75 - 123	47	20
2-Hexanone	ND	F2	100	59.6	F2	ug/L		60	58 - 134	53	21
4-Chlorotoluene	ND	F1 F2	25.0	17.7	F1 F2	ug/L		71	74 - 124	50	20
4-Isopropyltoluene	ND	F1 F2	25.0	17.1	F1 F2	ug/L		69	74 - 127	51	20
4-Methyl-2-pentanone	ND	F1 F2	100	52.2	F1 F2	ug/L		52	56 - 135	55	20
Acetone	ND	F1 F2	100	47.8	F1 F2	ug/L		48	50 - 137	52	21
Benzene	ND	F1 F2	25.0	14.0	F1 F2	ug/L		56	69 - 126	49	20
Bromobenzene	ND	F1 F2	25.0	18.4	F1 F2	ug/L		74	75 - 122	49	20
Bromochloromethane	ND	F1 F2	25.0	15.4	F1 F2	ug/L		62	71 - 130	47	20
Bromodichloromethane	ND	F1 F2	25.0	14.1	F1 F2	ug/L		56	67 - 126	50	20
Bromoform	ND	F2	25.0	14.6	F2	ug/L		58	57 - 125	56	20
Bromomethane	ND		25.0	14.8		ug/L		59	25 - 163	21	40
Carbon disulfide	ND	F1 F2	25.0	9.76	F1 F2	ug/L		39	56 - 128	47	20
Carbon tetrachloride	ND	F1 F2	25.0	12.6	F1 F2	ug/L		50	60 - 133	52	20
Chlorobenzene	ND	F1 F2	25.0	17.2	F1 F2	ug/L		69	78 - 118	49	20
Chloroethane	ND		25.0	15.8		ug/L		63	52 - 144	26	30
Chloroform	ND	F1 F2	25.0	14.6	F1 F2	ug/L		58	68 - 128	48	20
Chloromethane	ND	F2	25.0	13.3	F2	ug/L		53	43 - 142	22	20
cis-1,2-Dichloroethene	ND	F1 F2	25.0	14.3	F1 F2	ug/L		57	69 - 126	47	20
cis-1,3-Dichloropropene	ND	F1 F2	25.0	15.5	F1 F2	ug/L		62	75 - 120	51	20
Dibromochloromethane	ND	F1 F2	25.0	16.0	F1 F2	ug/L		64	71 - 122	52	20
Dibromomethane	ND	F1 F2	25.0	15.0	F1 F2	ug/L		60	68 - 129	50	20
Dichlorodifluoromethane	ND		25.0	13.8		ug/L		55	26 - 152	21	21
Ethylbenzene	ND	F1 F2	25.0	17.0	F1 F2	ug/L		68	76 - 121	48	20
Hexachlorobutadiene	ND	F1 F2	25.0	15.7	F1 F2	ug/L		63	69 - 133	49	20
Isopropylbenzene	ND	F2	25.0	17.5	F2	ug/L		70	70 - 127	48	20
Methylene Chloride	ND	F1 F2	25.0	13.5	F1 F2	ug/L		54	64 - 128	50	20
Naphthalene	ND	F2	25.0	17.0	F2	ug/L		68	63 - 129	50	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161623-E-1 MSD
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene	ND	F1 F2	25.0	16.6	F1 F2	ug/L		67	69 - 130	50	20
N-Propylbenzene	ND	F1 F2	25.0	17.6	F1 F2	ug/L		71	73 - 127	48	20
sec-Butylbenzene	ND	F1 F2	25.0	17.4	F1 F2	ug/L		70	72 - 127	49	20
Styrene	ND	F1 F2	25.0	17.3	F1 F2	ug/L		69	79 - 120	50	20
tert-Butylbenzene	ND	F2	25.0	19.1	F2	ug/L		76	72 - 126	48	20
Tetrachloroethene	ND	F1 F2	25.0	16.9	F1 F2	ug/L		68	72 - 127	49	20
Toluene	ND	F1 F2	25.0	14.6	F1 F2	ug/L		59	68 - 127	49	20
trans-1,2-Dichloroethene	ND	F1 F2	25.0	13.7	F1 F2	ug/L		55	66 - 129	48	20
trans-1,3-Dichloropropene	ND	F1 F2	25.0	13.3	F1 F2	ug/L		53	66 - 127	52	20
Trichloroethene	ND	F1 F2	25.0	14.3	F1 F2	ug/L		57	70 - 125	48	20
Trichlorofluoromethane	ND		25.0	17.0		ug/L		68	57 - 144	22	28
Vinyl chloride	ND		25.0	14.5		ug/L		58	53 - 141	22	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*94*		*77 - 120*
Toluene-d8 (Surr)	*104*		*80 - 125*

Lab Sample ID: MB 280-573636/9
Matrix: Water
Analysis Batch: 573636

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			05/02/22 21:49	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/02/22 21:49*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*05/02/22 21:49*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/02/22 21:49*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*05/02/22 21:49*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*05/02/22 21:49*	*1*

Lab Sample ID: LCS 280-573636/1002
Matrix: Water
Analysis Batch: 573636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dichlorobenzene			25.0	26.1		ug/L		105	76 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573636/5
Matrix: Water
Analysis Batch: 573636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene			25.0	24.3		ug/L		97	76 - 119	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*

Lab Sample ID: MB 280-573649/9
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 08:59	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 08:59	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 08:59	1
2-Hexanone	ND		5.0		ug/L			05/03/22 08:59	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 08:59	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 08:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 08:59	1
Acetone	ND		10		ug/L			05/03/22 08:59	1
Benzene	ND		1.0		ug/L			05/03/22 08:59	1
Bromobenzene	ND		1.0		ug/L			05/03/22 08:59	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Bromoform	ND		1.0		ug/L			05/03/22 08:59	1
Bromomethane	ND		2.0		ug/L			05/03/22 08:59	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 08:59	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 08:59	1
Chlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573649/9
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		2.0		ug/L			05/03/22 08:59	1
Chloroform	ND		1.0		ug/L			05/03/22 08:59	1
Chloromethane	ND		2.0		ug/L			05/03/22 08:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 08:59	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Dibromomethane	ND		1.0		ug/L			05/03/22 08:59	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 08:59	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 08:59	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Methylene Chloride	ND		5.0		ug/L			05/03/22 08:59	1
Naphthalene	ND		1.0		ug/L			05/03/22 08:59	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Styrene	ND		1.0		ug/L			05/03/22 08:59	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 08:59	1
Toluene	ND		1.0		ug/L			05/03/22 08:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 08:59	1
Trichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 08:59	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 08:59	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 08:59	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/03/22 08:59*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 08:59*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 08:59*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/03/22 08:59*	*1*
Toluene-d8 (Surr)	*109*		*80 - 125*		*05/03/22 08:59*	*1*

Lab Sample ID: MB 280-573782/10
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 09:25	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 09:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573782/10
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 09:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 09:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 09:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 09:25	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 09:25	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 09:25	1
2-Hexanone	ND		5.0		ug/L			05/04/22 09:25	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 09:25	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 09:25	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 09:25	1
Acetone	ND		10		ug/L			05/04/22 09:25	1
Benzene	ND		1.0		ug/L			05/04/22 09:25	1
Bromobenzene	ND		1.0		ug/L			05/04/22 09:25	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 09:25	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 09:25	1
Bromoform	ND		1.0		ug/L			05/04/22 09:25	1
Bromomethane	ND		2.0		ug/L			05/04/22 09:25	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 09:25	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 09:25	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
Chloroethane	ND		2.0		ug/L			05/04/22 09:25	1
Chloroform	ND		1.0		ug/L			05/04/22 09:25	1
Chloromethane	ND		2.0		ug/L			05/04/22 09:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 09:25	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 09:25	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 09:25	1
Dibromomethane	ND		1.0		ug/L			05/04/22 09:25	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 09:25	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 09:25	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 09:25	1
Naphthalene	ND		1.0		ug/L			05/04/22 09:25	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
Styrene	ND		1.0		ug/L			05/04/22 09:25	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 09:25	1
Toluene	ND		1.0		ug/L			05/04/22 09:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 09:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573782/10
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 09:25	1
Trichloroethene	ND		1.0		ug/L			05/04/22 09:25	1
Trichlorofluoromethane	ND		2.0		ug/L			05/04/22 09:25	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 09:25	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 09:25	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*05/04/22 09:25*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/04/22 09:25*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*05/04/22 09:25*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/04/22 09:25*	*1*
Toluene-d8 (Surr)	*109*		*80 - 125*		*05/04/22 09:25*	*1*

Lab Sample ID: LCS 280-573782/5
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		98	74 - 121
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	62 - 132
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	72 - 122
1,1,2-Trichloroethane	25.0	20.8		ug/L		83	72 - 128
1,1-Dichloroethane	25.0	20.2		ug/L		81	66 - 130
1,1-Dichloroethene	25.0	20.0		ug/L		80	62 - 130
1,1-Dichloropropene	25.0	22.2		ug/L		89	64 - 133
1,2,3-Trichlorobenzene	25.0	18.9		ug/L		76	70 - 127
1,2,3-Trichloropropane	25.0	22.4		ug/L		89	74 - 123
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	73 - 124
1,2,4-Trimethylbenzene	25.0	26.9		ug/L		108	74 - 124
1,2-Dichlorobenzene	25.0	26.6		ug/L		106	77 - 121
1,2-Dichloroethane	25.0	22.7		ug/L		91	61 - 130
1,2-Dichloropropane	25.0	21.4		ug/L		86	68 - 127
1,3,5-Trimethylbenzene	25.0	26.3		ug/L		105	73 - 127
1,3-Dichlorobenzene	25.0	26.6		ug/L		106	76 - 121
1,3-Dichloropropane	25.0	26.5		ug/L		106	80 - 118
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	76 - 119
2,2-Dichloropropane	25.0	20.4		ug/L		82	57 - 140
2-Butanone (MEK)	100	76.6		ug/L		77	53 - 135
2-Chlorotoluene	25.0	23.6		ug/L		94	75 - 123
2-Hexanone	100	103		ug/L		103	58 - 134
4-Chlorotoluene	25.0	23.6		ug/L		94	74 - 124
4-Isopropyltoluene	25.0	26.8		ug/L		107	74 - 127
4-Methyl-2-pentanone	100	75.5		ug/L		75	56 - 135
Acetone	100	70.4		ug/L		70	50 - 137
Benzene	25.0	23.7		ug/L		95	69 - 126
Bromobenzene	25.0	25.6		ug/L		103	75 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573782/5
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	25.0	18.9		ug/L		75	71 - 130
Bromodichloromethane	25.0	20.7		ug/L		83	67 - 126
Bromoform	25.0	20.3		ug/L		81	57 - 125
Bromomethane	25.0	17.6		ug/L		71	25 - 163
Carbon disulfide	25.0	21.0		ug/L		84	56 - 128
Carbon tetrachloride	25.0	20.8		ug/L		83	60 - 133
Chlorobenzene	25.0	28.2		ug/L		113	78 - 118
Chloroethane	25.0	25.1		ug/L		100	52 - 144
Chloroform	25.0	21.9		ug/L		88	68 - 128
Chloromethane	25.0	20.9		ug/L		83	43 - 142
cis-1,2-Dichloroethene	25.0	19.8		ug/L		79	69 - 126
cis-1,3-Dichloropropene	25.0	22.6		ug/L		91	75 - 120
Dibromochloromethane	25.0	22.5		ug/L		90	71 - 122
Dibromomethane	25.0	20.5		ug/L		82	68 - 129
Dichlorodifluoromethane	25.0	22.7		ug/L		91	26 - 152
Ethylbenzene	25.0	25.8		ug/L		103	76 - 121
Hexachlorobutadiene	25.0	21.5		ug/L		86	69 - 133
Isopropylbenzene	25.0	27.4		ug/L		109	70 - 127
Methylene Chloride	25.0	21.0		ug/L		84	64 - 128
Naphthalene	25.0	20.3		ug/L		81	63 - 129
n-Butylbenzene	25.0	25.9		ug/L		104	69 - 130
N-Propylbenzene	25.0	24.7		ug/L		99	73 - 127
sec-Butylbenzene	25.0	23.7		ug/L		95	72 - 127
Styrene	25.0	27.3		ug/L		109	79 - 120
tert-Butylbenzene	25.0	25.8		ug/L		103	72 - 126
Tetrachloroethene	25.0	25.0		ug/L		100	72 - 127
Toluene	25.0	23.8		ug/L		95	68 - 127
trans-1,2-Dichloroethene	25.0	20.2		ug/L		81	66 - 129
trans-1,3-Dichloropropene	25.0	20.3		ug/L		81	66 - 127
Trichloroethene	25.0	26.7		ug/L		107	70 - 125
Trichlorofluoromethane	25.0	21.6		ug/L		87	57 - 144
Vinyl chloride	25.0	21.2		ug/L		85	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*85*		*77 - 120*
Toluene-d8 (Surr)	*111*		*80 - 125*

Lab Sample ID: LCSD 280-573782/6
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.3		ug/L		97	74 - 121	0	20
1,1,1-Trichloroethane	25.0	22.5		ug/L		90	62 - 132	1	20
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	72 - 122	1	20
1,1,2-Trichloroethane	25.0	20.8		ug/L		83	72 - 128	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573782/6
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	25.0	20.0		ug/L		80	66 - 130	1	20
1,1-Dichloroethene	25.0	20.4		ug/L		82	62 - 130	2	21
1,1-Dichloropropene	25.0	22.0		ug/L		88	64 - 133	1	20
1,2,3-Trichlorobenzene	25.0	19.8		ug/L		79	70 - 127	5	20
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	74 - 123	4	20
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		97	73 - 124	5	20
1,2,4-Trimethylbenzene	25.0	26.9		ug/L		108	74 - 124	0	20
1,2-Dichlorobenzene	25.0	27.7		ug/L		111	77 - 121	4	20
1,2-Dichloroethane	25.0	22.4		ug/L		89	61 - 130	2	20
1,2-Dichloropropane	25.0	21.4		ug/L		86	68 - 127	0	20
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		106	73 - 127	1	20
1,3-Dichlorobenzene	25.0	27.7		ug/L		111	76 - 121	4	20
1,3-Dichloropropane	25.0	26.6		ug/L		106	80 - 118	0	20
1,4-Dichlorobenzene	25.0	27.0		ug/L		108	76 - 119	3	20
2,2-Dichloropropane	25.0	21.1		ug/L		84	57 - 140	3	22
2-Butanone (MEK)	100	78.4		ug/L		78	53 - 135	2	20
2-Chlorotoluene	25.0	23.9		ug/L		96	75 - 123	1	20
2-Hexanone	100	101		ug/L		101	58 - 134	2	21
4-Chlorotoluene	25.0	23.9		ug/L		95	74 - 124	1	20
4-Isopropyltoluene	25.0	26.7		ug/L		107	74 - 127	1	20
4-Methyl-2-pentanone	100	74.8		ug/L		75	56 - 135	1	20
Acetone	100	70.7		ug/L		71	50 - 137	0	21
Benzene	25.0	23.5		ug/L		94	69 - 126	1	20
Bromobenzene	25.0	25.8		ug/L		103	75 - 122	1	20
Bromochloromethane	25.0	19.4		ug/L		78	71 - 130	3	20
Bromodichloromethane	25.0	20.7		ug/L		83	67 - 126	0	20
Bromoform	25.0	19.8		ug/L		79	57 - 125	3	20
Bromomethane	25.0	17.7		ug/L		71	25 - 163	1	40
Carbon disulfide	25.0	20.9		ug/L		84	56 - 128	0	20
Carbon tetrachloride	25.0	20.3		ug/L		81	60 - 133	3	20
Chlorobenzene	25.0	27.8		ug/L		111	78 - 118	1	20
Chloroethane	25.0	25.9		ug/L		104	52 - 144	3	30
Chloroform	25.0	21.8		ug/L		87	68 - 128	1	20
Chloromethane	25.0	20.0		ug/L		80	43 - 142	4	20
cis-1,2-Dichloroethene	25.0	20.5		ug/L		82	69 - 126	3	20
cis-1,3-Dichloropropene	25.0	22.5		ug/L		90	75 - 120	0	20
Dibromochloromethane	25.0	22.8		ug/L		91	71 - 122	1	20
Dibromomethane	25.0	20.5		ug/L		82	68 - 129	0	20
Dichlorodifluoromethane	25.0	23.4		ug/L		94	26 - 152	3	21
Ethylbenzene	25.0	26.1		ug/L		105	76 - 121	1	20
Hexachlorobutadiene	25.0	21.6		ug/L		86	69 - 133	1	20
Isopropylbenzene	25.0	27.4		ug/L		110	70 - 127	0	20
Methylene Chloride	25.0	20.9		ug/L		84	64 - 128	0	20
Naphthalene	25.0	22.3		ug/L		89	63 - 129	9	21
n-Butylbenzene	25.0	25.7		ug/L		103	69 - 130	1	20
N-Propylbenzene	25.0	24.3		ug/L		97	73 - 127	2	20
sec-Butylbenzene	25.0	23.3		ug/L		93	72 - 127	1	20
Styrene	25.0	26.9		ug/L		108	79 - 120	1	20
tert-Butylbenzene	25.0	26.1		ug/L		104	72 - 126	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573782/6
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene			25.0	25.5		ug/L		102	72 - 127	2	20
Toluene			25.0	23.8		ug/L		95	68 - 127	0	20
trans-1,2-Dichloroethene			25.0	19.9		ug/L		80	66 - 129	1	20
trans-1,3-Dichloropropene			25.0	20.6		ug/L		82	66 - 127	2	20
Trichloroethene			25.0	26.4		ug/L		106	70 - 125	1	20
Trichlorofluoromethane			25.0	21.4		ug/L		86	57 - 144	1	28
Vinyl chloride			25.0	21.1		ug/L		84	53 - 141	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*89*		*77 - 120*
Toluene-d8 (Surr)	*111*		*80 - 125*

Lab Sample ID: 280-161669-A-17 MS
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		250	231		ug/L		92	74 - 121
1,1,1-Trichloroethane	ND		250	222		ug/L		89	62 - 132
1,1,2,2-Tetrachloroethane	ND		250	227		ug/L		91	72 - 122
1,1,2-Trichloroethane	ND		250	206		ug/L		83	72 - 128
1,1-Dichloroethane	ND		250	221		ug/L		88	66 - 130
1,1-Dichloroethene	ND		250	216		ug/L		86	62 - 130
1,1-Dichloropropene	ND		250	219		ug/L		88	64 - 133
1,2,3-Trichlorobenzene	ND	F1	250	171	F1	ug/L		68	70 - 127
1,2,3-Trichloropropane	ND		250	206		ug/L		82	74 - 123
1,2,4-Trichlorobenzene	ND		250	212		ug/L		85	73 - 124
1,2,4-Trimethylbenzene	ND		250	251		ug/L		100	74 - 124
1,2-Dichlorobenzene	ND		250	251		ug/L		100	77 - 121
1,2-Dichloroethane	ND		250	227		ug/L		91	61 - 130
1,2-Dichloropropane	ND		250	213		ug/L		85	68 - 127
1,3,5-Trimethylbenzene	ND		250	249		ug/L		100	73 - 127
1,3-Dichlorobenzene	ND		250	252		ug/L		101	76 - 121
1,3-Dichloropropane	ND		250	256		ug/L		102	80 - 118
1,4-Dichlorobenzene	ND		250	258		ug/L		103	76 - 119
2,2-Dichloropropane	ND		250	182		ug/L		73	57 - 140
2-Butanone (MEK)	ND		1000	704		ug/L		70	53 - 135
2-Chlorotoluene	ND		250	223		ug/L		89	75 - 123
2-Hexanone	ND		1000	953		ug/L		95	58 - 134
4-Chlorotoluene	ND		250	218		ug/L		87	74 - 124
4-Isopropyltoluene	ND		250	250		ug/L		100	74 - 127
4-Methyl-2-pentanone	ND		1000	711		ug/L		71	56 - 135
Acetone	ND		1000	740		ug/L		74	50 - 137
Benzene	ND		250	234		ug/L		94	69 - 126
Bromobenzene	ND		250	235		ug/L		94	75 - 122
Bromochloromethane	ND		250	193		ug/L		77	71 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161669-A-17 MS
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	ND		250	204		ug/L		82	67 - 126
Bromoform	ND		250	187		ug/L		75	57 - 125
Bromomethane	ND		250	160		ug/L		64	25 - 163
Carbon disulfide	ND		250	221		ug/L		88	56 - 128
Carbon tetrachloride	ND		250	200		ug/L		80	60 - 133
Chlorobenzene	ND		250	271		ug/L		108	78 - 118
Chloroethane	ND		250	219		ug/L		88	52 - 144
Chloroform	ND		250	224		ug/L		90	68 - 128
Chloromethane	ND		250	221		ug/L		89	43 - 142
cis-1,2-Dichloroethene	630	F1	250	795	F1	ug/L		67	69 - 126
cis-1,3-Dichloropropene	ND		250	208		ug/L		83	75 - 120
Dibromochloromethane	ND		250	216		ug/L		86	71 - 122
Dibromomethane	ND		250	197		ug/L		79	68 - 129
Dichlorodifluoromethane	ND		250	234		ug/L		94	26 - 152
Ethylbenzene	ND		250	250		ug/L		100	76 - 121
Hexachlorobutadiene	ND		250	192		ug/L		77	69 - 133
Isopropylbenzene	ND		250	254		ug/L		102	70 - 127
Methylene Chloride	ND		250	222		ug/L		89	64 - 128
Naphthalene	ND		250	182		ug/L		73	63 - 129
n-Butylbenzene	ND		250	237		ug/L		95	69 - 130
N-Propylbenzene	ND		250	223		ug/L		89	73 - 127
sec-Butylbenzene	ND		250	218		ug/L		87	72 - 127
Styrene	ND		250	259		ug/L		103	79 - 120
tert-Butylbenzene	ND		250	240		ug/L		96	72 - 126
Tetrachloroethene	ND		250	243		ug/L		97	72 - 127
Toluene	ND		250	233		ug/L		93	68 - 127
trans-1,2-Dichloroethene	ND		250	220		ug/L		88	66 - 129
trans-1,3-Dichloropropene	ND		250	194		ug/L		77	66 - 127
Trichloroethene	5.6		250	264		ug/L		103	70 - 125
Trichlorofluoromethane	ND		250	223		ug/L		89	57 - 144
Vinyl chloride	410		250	598		ug/L		77	53 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*88*		*77 - 120*
Toluene-d8 (Surr)	*111*		*80 - 125*

Lab Sample ID: 280-161669-B-17 MSD
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		250	236		ug/L		94	74 - 121	2	20
1,1,1-Trichloroethane	ND		250	228		ug/L		91	62 - 132	3	20
1,1,2,2-Tetrachloroethane	ND		250	235		ug/L		94	72 - 122	3	20
1,1,2-Trichloroethane	ND		250	213		ug/L		85	72 - 128	3	20
1,1-Dichloroethane	ND		250	219		ug/L		87	66 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161669-B-17 MSD
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		250	225		ug/L		90	62 - 130	4	21
1,1-Dichloropropene	ND		250	220		ug/L		88	64 - 133	1	20
1,2,3-Trichlorobenzene	ND	F1	250	190		ug/L		76	70 - 127	11	20
1,2,3-Trichloropropane	ND		250	220		ug/L		88	74 - 123	6	20
1,2,4-Trichlorobenzene	ND		250	235		ug/L		94	73 - 124	10	20
1,2,4-Trimethylbenzene	ND		250	263		ug/L		105	74 - 124	5	20
1,2-Dichlorobenzene	ND		250	268		ug/L		107	77 - 121	6	20
1,2-Dichloroethane	ND		250	224		ug/L		90	61 - 130	1	20
1,2-Dichloropropane	ND		250	216		ug/L		86	68 - 127	1	20
1,3,5-Trimethylbenzene	ND		250	258		ug/L		103	73 - 127	3	20
1,3-Dichlorobenzene	ND		250	262		ug/L		105	76 - 121	4	20
1,3-Dichloropropane	ND		250	255		ug/L		102	80 - 118	0	20
1,4-Dichlorobenzene	ND		250	269		ug/L		107	76 - 119	4	20
2,2-Dichloropropane	ND		250	193		ug/L		77	57 - 140	6	22
2-Butanone (MEK)	ND		1000	781		ug/L		78	53 - 135	10	20
2-Chlorotoluene	ND		250	234		ug/L		94	75 - 123	5	20
2-Hexanone	ND		1000	974		ug/L		97	58 - 134	2	21
4-Chlorotoluene	ND		250	234		ug/L		93	74 - 124	7	20
4-Isopropyltoluene	ND		250	263		ug/L		105	74 - 127	5	20
4-Methyl-2-pentanone	ND		1000	737		ug/L		74	56 - 135	4	20
Acetone	ND		1000	768		ug/L		77	50 - 137	4	21
Benzene	ND		250	233		ug/L		93	69 - 126	1	20
Bromobenzene	ND		250	250		ug/L		100	75 - 122	6	20
Bromochloromethane	ND		250	197		ug/L		79	71 - 130	2	20
Bromodichloromethane	ND		250	208		ug/L		83	67 - 126	2	20
Bromoform	ND		250	186		ug/L		74	57 - 125	0	20
Bromomethane	ND		250	180		ug/L		72	25 - 163	12	40
Carbon disulfide	ND		250	226		ug/L		91	56 - 128	2	20
Carbon tetrachloride	ND		250	211		ug/L		84	60 - 133	5	20
Chlorobenzene	ND		250	275		ug/L		110	78 - 118	1	20
Chloroethane	ND		250	207		ug/L		83	52 - 144	6	30
Chloroform	ND		250	226		ug/L		90	68 - 128	1	20
Chloromethane	ND		250	219		ug/L		88	43 - 142	1	20
cis-1,2-Dichloroethene	630	F1	250	849		ug/L		89	69 - 126	7	20
cis-1,3-Dichloropropene	ND		250	212		ug/L		85	75 - 120	2	20
Dibromochloromethane	ND		250	220		ug/L		88	71 - 122	2	20
Dibromomethane	ND		250	204		ug/L		82	68 - 129	3	20
Dichlorodifluoromethane	ND		250	244		ug/L		98	26 - 152	4	21
Ethylbenzene	ND		250	250		ug/L		100	76 - 121	0	20
Hexachlorobutadiene	ND		250	212		ug/L		85	69 - 133	10	20
Isopropylbenzene	ND		250	267		ug/L		107	70 - 127	5	20
Methylene Chloride	ND		250	223		ug/L		89	64 - 128	0	20
Naphthalene	ND		250	210		ug/L		84	63 - 129	14	21
n-Butylbenzene	ND		250	249		ug/L		100	69 - 130	5	20
N-Propylbenzene	ND		250	240		ug/L		96	73 - 127	7	20
sec-Butylbenzene	ND		250	243		ug/L		97	72 - 127	11	20
Styrene	ND		250	265		ug/L		106	79 - 120	2	20
tert-Butylbenzene	ND		250	253		ug/L		101	72 - 126	5	20
Tetrachloroethene	ND		250	252		ug/L		101	72 - 127	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161669-B-17 MSD
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	ND		250	238		ug/L		95	68 - 127	2	20
trans-1,2-Dichloroethene	ND		250	220		ug/L		88	66 - 129	0	20
trans-1,3-Dichloropropene	ND		250	200		ug/L		80	66 - 127	3	20
Trichloroethene	5.6		250	269		ug/L		105	70 - 125	2	20
Trichlorofluoromethane	ND		250	228		ug/L		91	57 - 144	2	28
Vinyl chloride	410		250	579		ug/L		70	53 - 141	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*89*		*77 - 120*
Toluene-d8 (Surr)	*109*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-573629/1-A
Matrix: Water
Analysis Batch: 573632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/02/22 18:00	05/03/22 08:01	1
1,2-Dibromoethane	ND		0.050		ug/L		05/02/22 18:00	05/03/22 08:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*112*		*70 - 130*	*05/02/22 18:00*	*05/03/22 08:01*	*1*

Lab Sample ID: LCS 280-573629/2-A
Matrix: Water
Analysis Batch: 573632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573629

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromo-3-Chloropropane			0.250	0.251		ug/L		100	60 - 140		
1,2-Dibromoethane			0.250	0.251		ug/L		100	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*118*		*70 - 130*

Lab Sample ID: LCSD 280-573629/3-A
Matrix: Water
Analysis Batch: 573632

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573629

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.250		ug/L		100	60 - 140	0	10
1,2-Dibromoethane			0.250	0.244		ug/L		98	60 - 140	3	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*120*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-573695/1-A
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/03/22 19:17	05/04/22 20:35	1
Iron	ND		30		ug/L		05/03/22 19:17	05/04/22 20:35	1
Magnesium	ND		200		ug/L		05/03/22 19:17	05/04/22 20:35	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 20:35	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 20:35	1
Sodium	ND		1000		ug/L		05/03/22 19:17	05/04/22 20:35	1

Lab Sample ID: LCS 280-573695/2-A
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	48700		ug/L		97	90 - 111
Iron	10000	9450		ug/L		94	89 - 115
Magnesium	50000	49000		ug/L		98	90 - 113
Manganese	1000	976		ug/L		98	90 - 110
Potassium	50000	49500		ug/L		99	89 - 114
Sodium	50000	49100		ug/L		98	90 - 115

Lab Sample ID: 280-161727-J-1-B MS
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 573695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	29000		50000	75700		ug/L		94	48 - 153
Iron	43		10000	9670		ug/L		96	52 - 155
Magnesium	50000		50000	98600		ug/L		97	62 - 146
Manganese	41		1000	1000		ug/L		96	79 - 121
Potassium	6900		50000	57800		ug/L		102	76 - 132
Sodium	300000		50000	347000	4	ug/L		102	70 - 203

Lab Sample ID: 280-161727-J-1-C MSD
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 573695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	29000		50000	76200		ug/L		95	48 - 153	1	20
Iron	43		10000	9760		ug/L		97	52 - 155	1	20
Magnesium	50000		50000	99200		ug/L		99	62 - 146	1	20
Manganese	41		1000	1020		ug/L		98	79 - 121	1	20
Potassium	6900		50000	57600		ug/L		101	76 - 132	0	20
Sodium	300000		50000	351000	4	ug/L		109	70 - 203	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-624944/28
Matrix: Water
Analysis Batch: 624944

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			05/07/22 01:57	1
Sulfate	ND		1.0		mg/L			05/07/22 01:57	1

Lab Sample ID: LCS 480-624944/29
Matrix: Water
Analysis Batch: 624944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.1	49.6		mg/L		99	90 - 110		
Sulfate			50.0	49.9		mg/L		100	90 - 110		

Lab Sample ID: 280-161414-5 MS
Matrix: Water
Analysis Batch: 624944

Client Sample ID: MW-15B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	23		50.1	69.9		mg/L		93	81 - 120		
Sulfate	2.4		50.0	50.9		mg/L		97	80 - 120		

Lab Sample ID: 480-197460-G-1 MS
Matrix: Water
Analysis Batch: 624944

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	170		251	402		mg/L		93	81 - 120		
Sulfate	54		250	295		mg/L		96	80 - 120		

Lab Sample ID: 480-197460-G-1 MSD
Matrix: Water
Analysis Batch: 624944

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	170		251	402		mg/L		93	81 - 120	0	15
Sulfate	54		250	295		mg/L		97	80 - 120	0	15

Lab Sample ID: MB 480-625182/4
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			05/09/22 14:52	1
Sulfate	ND		1.0		mg/L			05/09/22 14:52	1

Lab Sample ID: LCS 480-625182/5
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.1	50.4		mg/L		101	90 - 110		
Sulfate			50.0	51.5		mg/L		103	90 - 110		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-161417-D-4 MS
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		50.1	47.4		mg/L		95	81 - 120
Sulfate	ND		50.0	48.5		mg/L		97	80 - 120

Lab Sample ID: 620-4251-Q-6 MS
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14		50.1	61.1		mg/L		93	81 - 120
Sulfate	83		50.0	128		mg/L		90	80 - 120

Lab Sample ID: 620-4251-Q-6 MSD
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14		50.1	61.1		mg/L		93	81 - 120	0	15
Sulfate	83		50.0	128		mg/L		89	80 - 120	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-574030/106
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			05/05/22 13:33	1

Lab Sample ID: LCS 280-574030/104
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.65		mg/L		106	90 - 110

Lab Sample ID: LCSD 280-574030/105
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	2.50	2.63		mg/L		105	90 - 110	1	10

Lab Sample ID: 280-161414-2 MS
Matrix: Water
Analysis Batch: 574030

Client Sample ID: MW-12A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	ND		1.00	1.09		mg/L		109	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 280-161414-2 MSD
Matrix: Water
Analysis Batch: 574030

Client Sample ID: MW-12A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.08		mg/L		108	90 - 110	1	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-573635/22
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			05/02/22 16:56	1

Lab Sample ID: LCS 280-573635/21
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite			5.00	5.17		mg/L		103	90 - 110		

Lab Sample ID: 280-161333-D-18 MS
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite	2.4		4.00	6.38		mg/L		101	90 - 110		

Lab Sample ID: 280-161333-D-18 MSD
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	2.4		4.00	6.46		mg/L		102	90 - 110	1	10

Lab Sample ID: MB 280-573773/22
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			05/03/22 16:34	1

Lab Sample ID: LCS 280-573773/21
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite			5.00	5.09		mg/L		102	90 - 110		

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 280-161382-D-2 MS
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	0.59		4.00	4.62		mg/L		101	90 - 110

Lab Sample ID: 280-161382-D-2 MSD
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	0.59		4.00	4.67		mg/L		102	90 - 110	1	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-573357/4
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			04/28/22 14:27	1

Lab Sample ID: LCS 280-573357/3
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	25.3		mg/L		101	88 - 112

Lab Sample ID: 280-161414-6 MS
Matrix: Water
Analysis Batch: 573357

Client Sample ID: MW-16A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	1.7		25.0	26.9		mg/L		101	88 - 112

Lab Sample ID: 280-161414-6 MSD
Matrix: Water
Analysis Batch: 573357

Client Sample ID: MW-16A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.7		25.0	26.7		mg/L		100	88 - 112	1	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-574431/1
Matrix: Water
Analysis Batch: 574431

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			05/10/22 12:14	1
Magnesium	0.000				meq/L			05/10/22 12:14	1
Potassium	0.000				meq/L			05/10/22 12:14	1
Sodium	0.000				meq/L			05/10/22 12:14	1

Method: SM 1030E (meq) - Cation Anion Balance (Continued)

Lab Sample ID: MB 280-574431/1
Matrix: Water
Analysis Batch: 574431

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.000				meq/L			05/10/22 12:14	1
Chloride	0.000				meq/L			05/10/22 12:14	1
Sulfate	0.000				meq/L			05/10/22 12:14	1
Alkalinity	0.000				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	0.000				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.000				meq/L			05/10/22 12:14	1
Iron	0.000				meq/L			05/10/22 12:14	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-573241/58
Matrix: Water
Analysis Batch: 573241

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			04/27/22 16:57	1

Lab Sample ID: MB 280-573241/6
Matrix: Water
Analysis Batch: 573241

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			04/27/22 10:51	1

Lab Sample ID: MB 280-573241/84
Matrix: Water
Analysis Batch: 573241

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			04/27/22 20:23	1

Lab Sample ID: 280-161362-A-4 DU
Matrix: Water
Analysis Batch: 573241

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	390			389		mg/L				0.3	20

Lab Sample ID: MB 280-573361/32
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			04/28/22 16:58	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 280-573361/58
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			04/28/22 20:24	1

Lab Sample ID: 280-161414-8 DU
Matrix: Water
Analysis Batch: 573361

Client Sample ID: MW-16B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	350			353		mg/L				2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-572980/1
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/26/22 07:45	1

Lab Sample ID: LCS 280-572980/2
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			505	506		mg/L		100	88 - 114		

Lab Sample ID: LCSD 280-572980/3
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			505	494		mg/L		98	88 - 114	2	20

Lab Sample ID: 280-161414-8 DU
Matrix: Water
Analysis Batch: 572980

Client Sample ID: MW-16B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	580			581		mg/L				0.2	10

Lab Sample ID: MB 280-573020/1
Matrix: Water
Analysis Batch: 573020

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/26/22 10:38	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 280-573020/2
Matrix: Water
Analysis Batch: 573020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	490		mg/L		98	88 - 114		

Lab Sample ID: 280-161314-A-4 DU
Matrix: Water
Analysis Batch: 573020

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1100			1050		mg/L				1	10

GC/MS VOA

Analysis Batch: 573474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-1	TRIP BLANK	Total/NA	Water	8260B	
280-161414-4	MW-15A	Total/NA	Water	8260B	
280-161414-6	MW-16A	Total/NA	Water	8260B	
280-161414-7	DUP1	Total/NA	Water	8260B	
280-161414-8	MW-16B	Total/NA	Water	8260B	
MB 280-573474/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573474/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573474/5	Lab Control Sample Dup	Total/NA	Water	8260B	
280-161623-D-1 MS	Matrix Spike	Total/NA	Water	8260B	
280-161623-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 573636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-4 - RA	MW-15A	Total/NA	Water	8260B	
280-161414-6 - RA	MW-16A	Total/NA	Water	8260B	
280-161414-7 - RA	DUP1	Total/NA	Water	8260B	
280-161414-8 - RA	MW-16B	Total/NA	Water	8260B	
MB 280-573636/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573636/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573636/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 573649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-5	MW-15B	Total/NA	Water	8260B	
MB 280-573649/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 573782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Total/NA	Water	8260B	
280-161414-3	MW-12B	Total/NA	Water	8260B	
280-161414-9	MW-21A	Total/NA	Water	8260B	
MB 280-573782/10	Method Blank	Total/NA	Water	8260B	
LCS 280-573782/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573782/6	Lab Control Sample Dup	Total/NA	Water	8260B	
280-161669-A-17 MS	Matrix Spike	Total/NA	Water	8260B	
280-161669-B-17 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 573629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-1	TRIP BLANK	Total/NA	Water	8011	
280-161414-2	MW-12A	Total/NA	Water	8011	
280-161414-3	MW-12B	Total/NA	Water	8011	
280-161414-4	MW-15A	Total/NA	Water	8011	
280-161414-5	MW-15B	Total/NA	Water	8011	
280-161414-6	MW-16A	Total/NA	Water	8011	
280-161414-7	DUP1	Total/NA	Water	8011	
280-161414-8	MW-16B	Total/NA	Water	8011	
280-161414-9	MW-21A	Total/NA	Water	8011	
MB 280-573629/1-A	Method Blank	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 573629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-573629/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-573629/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 573632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-1	TRIP BLANK	Total/NA	Water	8011	573629
280-161414-2	MW-12A	Total/NA	Water	8011	573629
280-161414-3	MW-12B	Total/NA	Water	8011	573629
280-161414-4	MW-15A	Total/NA	Water	8011	573629
280-161414-5	MW-15B	Total/NA	Water	8011	573629
280-161414-6	MW-16A	Total/NA	Water	8011	573629
280-161414-7	DUP1	Total/NA	Water	8011	573629
280-161414-8	MW-16B	Total/NA	Water	8011	573629
280-161414-9	MW-21A	Total/NA	Water	8011	573629
MB 280-573629/1-A	Method Blank	Total/NA	Water	8011	573629
LCS 280-573629/2-A	Lab Control Sample	Total/NA	Water	8011	573629
LCSD 280-573629/3-A	Lab Control Sample Dup	Total/NA	Water	8011	573629

Metals

Prep Batch: 573695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Dissolved	Water	3005A	
280-161414-3	MW-12B	Dissolved	Water	3005A	
280-161414-4	MW-15A	Dissolved	Water	3005A	
280-161414-5	MW-15B	Dissolved	Water	3005A	
280-161414-6	MW-16A	Dissolved	Water	3005A	
280-161414-7	DUP1	Dissolved	Water	3005A	
280-161414-8	MW-16B	Dissolved	Water	3005A	
280-161414-9	MW-21A	Dissolved	Water	3005A	
MB 280-573695/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573695/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161727-J-1-B MS	Matrix Spike	Dissolved	Water	3005A	
280-161727-J-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 574000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Dissolved	Water	6010B	573695
280-161414-3	MW-12B	Dissolved	Water	6010B	573695
280-161414-4	MW-15A	Dissolved	Water	6010B	573695
280-161414-5	MW-15B	Dissolved	Water	6010B	573695
280-161414-6	MW-16A	Dissolved	Water	6010B	573695
280-161414-7	DUP1	Dissolved	Water	6010B	573695
280-161414-8	MW-16B	Dissolved	Water	6010B	573695
280-161414-9	MW-21A	Dissolved	Water	6010B	573695
MB 280-573695/1-A	Method Blank	Total Recoverable	Water	6010B	573695
LCS 280-573695/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573695
280-161727-J-1-B MS	Matrix Spike	Dissolved	Water	6010B	573695
280-161727-J-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	573695

General Chemistry

Analysis Batch: 572980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-4	MW-15A	Total/NA	Water	SM 2540C	
280-161414-6	MW-16A	Total/NA	Water	SM 2540C	
280-161414-7	DUP1	Total/NA	Water	SM 2540C	
280-161414-8	MW-16B	Total/NA	Water	SM 2540C	
MB 280-572980/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-572980/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-572980/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-161414-8 DU	MW-16B	Total/NA	Water	SM 2540C	

Analysis Batch: 573020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Total/NA	Water	SM 2540C	
280-161414-3	MW-12B	Total/NA	Water	SM 2540C	
280-161414-5	MW-15B	Total/NA	Water	SM 2540C	
280-161414-9	MW-21A	Total/NA	Water	SM 2540C	
MB 280-573020/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-573020/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-161314-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 573241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Total/NA	Water	SM 2320B	
280-161414-3	MW-12B	Total/NA	Water	SM 2320B	
280-161414-4	MW-15A	Total/NA	Water	SM 2320B	
MB 280-573241/58	Method Blank	Total/NA	Water	SM 2320B	
MB 280-573241/6	Method Blank	Total/NA	Water	SM 2320B	
MB 280-573241/84	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-573241/83	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-573241/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-161362-A-4 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 573357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Total/NA	Water	9060	
280-161414-3	MW-12B	Total/NA	Water	9060	
280-161414-4	MW-15A	Total/NA	Water	9060	
280-161414-5	MW-15B	Total/NA	Water	9060	
280-161414-6	MW-16A	Total/NA	Water	9060	
280-161414-7	DUP1	Total/NA	Water	9060	
280-161414-8	MW-16B	Total/NA	Water	9060	
280-161414-9	MW-21A	Total/NA	Water	9060	
MB 280-573357/4	Method Blank	Total/NA	Water	9060	
LCS 280-573357/3	Lab Control Sample	Total/NA	Water	9060	
280-161414-6 MS	MW-16A	Total/NA	Water	9060	
280-161414-6 MSD	MW-16A	Total/NA	Water	9060	

Analysis Batch: 573361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-5	MW-15B	Total/NA	Water	SM 2320B	
280-161414-6	MW-16A	Total/NA	Water	SM 2320B	
280-161414-7	DUP1	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 573361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-8	MW-16B	Total/NA	Water	SM 2320B	
280-161414-9	MW-21A	Total/NA	Water	SM 2320B	
MB 280-573361/32	Method Blank	Total/NA	Water	SM 2320B	
MB 280-573361/58	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-573361/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-573361/57	Lab Control Sample	Total/NA	Water	SM 2320B	
280-161414-8 DU	MW-16B	Total/NA	Water	SM 2320B	

Analysis Batch: 573635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-5	MW-15B	Total/NA	Water	353.2	
280-161414-6	MW-16A	Total/NA	Water	353.2	
280-161414-7	DUP1	Total/NA	Water	353.2	
280-161414-8	MW-16B	Total/NA	Water	353.2	
280-161414-9	MW-21A	Total/NA	Water	353.2	
MB 280-573635/22	Method Blank	Total/NA	Water	353.2	
LCS 280-573635/21	Lab Control Sample	Total/NA	Water	353.2	
280-161333-D-18 MS	Matrix Spike	Total/NA	Water	353.2	
280-161333-D-18 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 573773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Total/NA	Water	353.2	
280-161414-3	MW-12B	Total/NA	Water	353.2	
280-161414-4	MW-15A	Total/NA	Water	353.2	
MB 280-573773/22	Method Blank	Total/NA	Water	353.2	
LCS 280-573773/21	Lab Control Sample	Total/NA	Water	353.2	
280-161382-D-2 MS	Matrix Spike	Total/NA	Water	353.2	
280-161382-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 574030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Total/NA	Water	350.1	
280-161414-3	MW-12B	Total/NA	Water	350.1	
280-161414-4	MW-15A	Total/NA	Water	350.1	
280-161414-5	MW-15B	Total/NA	Water	350.1	
280-161414-6	MW-16A	Total/NA	Water	350.1	
280-161414-7	DUP1	Total/NA	Water	350.1	
280-161414-8	MW-16B	Total/NA	Water	350.1	
280-161414-9	MW-21A	Total/NA	Water	350.1	
MB 280-574030/106	Method Blank	Total/NA	Water	350.1	
LCS 280-574030/104	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-574030/105	Lab Control Sample Dup	Total/NA	Water	350.1	
280-161414-2 MS	MW-12A	Total/NA	Water	350.1	
280-161414-2 MSD	MW-12A	Total/NA	Water	350.1	

Analysis Batch: 574431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Total/NA	Water	SM 1030E	
280-161414-2	MW-12A	Total/NA	Water	SM 1030E (meq)	
280-161414-3	MW-12B	Total/NA	Water	SM 1030E	

General Chemistry (Continued)

Analysis Batch: 574431 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-3	MW-12B	Total/NA	Water	SM 1030E (meq)	
280-161414-4	MW-15A	Total/NA	Water	SM 1030E	
280-161414-4	MW-15A	Total/NA	Water	SM 1030E (meq)	
280-161414-5	MW-15B	Total/NA	Water	SM 1030E	
280-161414-5	MW-15B	Total/NA	Water	SM 1030E (meq)	
280-161414-6	MW-16A	Total/NA	Water	SM 1030E	
280-161414-6	MW-16A	Total/NA	Water	SM 1030E (meq)	
280-161414-7	DUP1	Total/NA	Water	SM 1030E	
280-161414-7	DUP1	Total/NA	Water	SM 1030E (meq)	
280-161414-8	MW-16B	Total/NA	Water	SM 1030E	
280-161414-8	MW-16B	Total/NA	Water	SM 1030E (meq)	
280-161414-9	MW-21A	Total/NA	Water	SM 1030E	
280-161414-9	MW-21A	Total/NA	Water	SM 1030E (meq)	
MB 280-574431/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 624944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Total/NA	Water	300.0	
280-161414-3	MW-12B	Total/NA	Water	300.0	
280-161414-4	MW-15A	Total/NA	Water	300.0	
280-161414-5	MW-15B	Total/NA	Water	300.0	
MB 480-624944/28	Method Blank	Total/NA	Water	300.0	
LCS 480-624944/29	Lab Control Sample	Total/NA	Water	300.0	
280-161414-5 MS	MW-15B	Total/NA	Water	300.0	
480-197460-G-1 MS	Matrix Spike	Total/NA	Water	300.0	
480-197460-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 625182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-6	MW-16A	Total/NA	Water	300.0	
280-161414-7	DUP1	Total/NA	Water	300.0	
280-161414-8	MW-16B	Total/NA	Water	300.0	
280-161414-9	MW-21A	Total/NA	Water	300.0	
MB 480-625182/4	Method Blank	Total/NA	Water	300.0	
LCS 480-625182/5	Lab Control Sample	Total/NA	Water	300.0	
280-161417-D-4 MS	Matrix Spike	Total/NA	Water	300.0	
620-4251-Q-6 MS	Matrix Spike	Total/NA	Water	300.0	
620-4251-Q-6 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 573210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161414-2	MW-12A	Total/NA	Water	Field Sampling	
280-161414-3	MW-12B	Total/NA	Water	Field Sampling	
280-161414-4	MW-15A	Total/NA	Water	Field Sampling	
280-161414-5	MW-15B	Total/NA	Water	Field Sampling	
280-161414-6	MW-16A	Total/NA	Water	Field Sampling	
280-161414-7	DUP1	Total/NA	Water	Field Sampling	
280-161414-8	MW-16B	Total/NA	Water	Field Sampling	
280-161414-9	MW-21A	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161414-1

Client Sample ID: TRIP BLANK

Date Collected: 04/19/22 07:00
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573474	04/30/22 14:04	CKL	TAL DEN
Total/NA	Prep	8011			35.1 mL	35 mL	573629	05/02/22 18:00	KSA	TAL DEN
Total/NA	Analysis	8011		1			573632	05/03/22 09:12	KSA	TAL DEN

Client Sample ID: MW-12A

Date Collected: 04/21/22 14:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573782	05/04/22 10:51	TAW	TAL DEN
Total/NA	Prep	8011			35.2 mL	35 mL	573629	05/02/22 18:00	KSA	TAL DEN
Total/NA	Analysis	8011		1			573632	05/03/22 09:36	KSA	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	TAL DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:00	LMT	TAL DEN
Total/NA	Analysis	300.0		1			624944	05/07/22 07:13	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 13:35	JJM	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 16:46	SVC	TAL DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 17:12	ABW	TAL DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 2320B		1			573241	04/27/22 22:30	KEG	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573020	04/26/22 11:39	LRB	TAL DEN
Total/NA	Analysis	Field Sampling		1			573210	04/21/22 15:30	TJ	TAL DEN

Client Sample ID: MW-12B

Date Collected: 04/21/22 13:40
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161414-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573782	05/04/22 11:13	TAW	TAL DEN
Total/NA	Prep	8011			34.9 mL	35 mL	573629	05/02/22 18:00	KSA	TAL DEN
Total/NA	Analysis	8011		1			573632	05/03/22 10:00	KSA	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	TAL DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:04	LMT	TAL DEN
Total/NA	Analysis	300.0		1			624944	05/07/22 07:31	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 13:53	JJM	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 16:48	SVC	TAL DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 17:57	ABW	TAL DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 2320B		1			573241	04/27/22 22:36	KEG	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573020	04/26/22 11:39	LRB	TAL DEN
Total/NA	Analysis	Field Sampling		1			573210	04/21/22 14:40	TJ	TAL DEN

Client Sample ID: MW-15A
Lab Sample ID: 280-161414-4
Date Collected: 04/19/22 14:45
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573474	04/30/22 14:26	CKL	TAL DEN
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	573636	05/03/22 03:31	SGB	TAL DEN
Total/NA	Prep	8011			34.7 mL	35 mL	573629	05/02/22 18:00	KSA	TAL DEN
Total/NA	Analysis	8011		1			573632	05/03/22 10:24	KSA	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	TAL DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:08	LMT	TAL DEN
Total/NA	Analysis	300.0		1			624944	05/07/22 07:50	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 13:55	JJM	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 16:50	SVC	TAL DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 18:16	ABW	TAL DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 2320B		1			573241	04/27/22 22:41	KEG	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	572980	04/26/22 08:45	ABW	TAL DEN
Total/NA	Analysis	Field Sampling		1			573210	04/19/22 15:45	TJ	TAL DEN

Client Sample ID: MW-15B
Lab Sample ID: 280-161414-5
Date Collected: 04/20/22 11:35
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573649	05/03/22 15:23	TAW	TAL DEN
Total/NA	Prep	8011			35.1 mL	35 mL	573629	05/02/22 18:00	KSA	TAL DEN
Total/NA	Analysis	8011		1			573632	05/03/22 10:48	KSA	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	TAL DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:29	LMT	TAL DEN
Total/NA	Analysis	300.0		1			624944	05/07/22 08:08	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 13:57	JJM	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:10	SVC	TAL DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 18:30	ABW	TAL DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 19:46	KEG	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573020	04/26/22 11:39	LRB	TAL DEN
Total/NA	Analysis	Field Sampling		1			573210	04/20/22 12:35	TJ	TAL DEN

Client Sample ID: MW-16A
Lab Sample ID: 280-161414-6
Date Collected: 04/19/22 12:40
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573474	04/30/22 14:48	CKL	TAL DEN

Client Sample ID: MW-16A

Lab Sample ID: 280-161414-6

Date Collected: 04/19/22 12:40

Matrix: Water

Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	573636	05/03/22 03:52	SGB	TAL DEN
Total/NA	Prep	8011			34.9 mL	35 mL	573629	05/02/22 18:00	KSA	TAL DEN
Total/NA	Analysis	8011		1			573632	05/03/22 11:12	KSA	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	TAL DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:33	LMT	TAL DEN
Total/NA	Analysis	300.0		1			625182	05/09/22 19:07	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 13:59	JJM	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:12	SVC	TAL DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 18:48	ABW	TAL DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 19:52	KEG	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	572980	04/26/22 08:45	ABW	TAL DEN
Total/NA	Analysis	Field Sampling		1			573210	04/19/22 13:40	TJ	TAL DEN

Client Sample ID: DUP1

Lab Sample ID: 280-161414-7

Date Collected: 04/19/22 12:45

Matrix: Water

Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573474	04/30/22 15:10	CKL	TAL DEN
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	573636	05/03/22 04:13	SGB	TAL DEN
Total/NA	Prep	8011			35 mL	35 mL	573629	05/02/22 18:00	KSA	TAL DEN
Total/NA	Analysis	8011		1			573632	05/03/22 11:36	KSA	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	TAL DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:37	LMT	TAL DEN
Total/NA	Analysis	300.0		1			625182	05/09/22 19:26	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 14:01	JJM	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:14	SVC	TAL DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 19:33	ABW	TAL DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 19:58	KEG	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	572980	04/26/22 08:45	ABW	TAL DEN
Total/NA	Analysis	Field Sampling		1			573210	04/19/22 13:45	TJ	TAL DEN

Client Sample ID: MW-16B

Lab Sample ID: 280-161414-8

Date Collected: 04/19/22 14:10

Matrix: Water

Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573474	04/30/22 15:32	CKL	TAL DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-161414-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: MW-16B
Lab Sample ID: 280-161414-8
Date Collected: 04/19/22 14:10
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	573636	05/03/22 04:35	SGB	TAL DEN
Total/NA	Prep	8011			34.9 mL	35 mL	573629	05/02/22 18:00	KSA	TAL DEN
Total/NA	Analysis	8011		1			573632	05/03/22 12:00	KSA	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	TAL DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:42	LMT	TAL DEN
Total/NA	Analysis	300.0		1			625182	05/09/22 19:46	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 14:03	JJM	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:16	SVC	TAL DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 19:53	ABW	TAL DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 20:31	KEG	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	572980	04/26/22 08:45	ABW	TAL DEN
Total/NA	Analysis	Field Sampling		1			573210	04/19/22 15:10	TJ	TAL DEN

Client Sample ID: MW-21A
Lab Sample ID: 280-161414-9
Date Collected: 04/21/22 12:15
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573782	05/04/22 11:34	TAW	TAL DEN
Total/NA	Prep	8011			35.3 mL	35 mL	573629	05/02/22 18:00	KSA	TAL DEN
Total/NA	Analysis	8011		1			573632	05/03/22 12:24	KSA	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	TAL DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:46	LMT	TAL DEN
Total/NA	Analysis	300.0		1			625182	05/09/22 20:05	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 14:05	JJM	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:30	SVC	TAL DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 20:09	ABW	TAL DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	TAL DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 20:45	KEG	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573020	04/26/22 11:39	LRB	TAL DEN
Total/NA	Analysis	Field Sampling		1			573210	04/21/22 13:15	TJ	TAL DEN

Laboratory References:
TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: I. Hultgren	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16511-866.1
Client Contact:	Phone: 503 716 6320	E-Mail: Betsy.Sara@Eurofinset.com		Page:
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers Event Desc: Semiannual Compliance Wells - Apr Oct	Project #: 28002786			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alk	Dissolved Metals	Ammonia/TOC/NO3+NO2	8260B	8011	Cation/Anion Balance	Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	R		N		
TB1	4/19/22	0700	G	W						X	X			8	
MW-12A	4/21/22	1430	G	W	X		X	X	X	X	X	X	X	11	
MW-12B	4/21/22	1340	G	W	X		X	X	X	X	X	X	X	11	
MW-15A	4/19/22	1445	G	W	X		X	X	X	X	X	X	X	11	
MW-15B	4/20/22 ~~4/19/22~~	1135	G	W	X		X	X	X	X	X	X	X	11	
MW-16A	4/19/22	1240	G	W	X		X	X	X	X	X	X	X	11	
DUP1	4/19/22	1245	G	W	X		X	X	X	X	X	X	X	11	
MW-16B	4/19/22	1410	G	W	X		X	X	X	X	X	X	X	11	
MW-21A	4/21/22	1215	G	W	X		X	X	X	X	X	X	X	11	

280-161414 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	4/21/22 @ 1630	SCS	Received by:	4/25/2022	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 7.4 75.) 4.3 73.) 2R 1D CF +0.1

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** ~~MW-12~~ BR-12A MW-12A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		**TEMPERATURE:**	° F . ° C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
4/12/22	13 : 04	27 . 60	.	8 . 65	.	18 . 95	X 1	3 . 08
/ /	:	.	.	.	.		X 3	9 . 25

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/12/22	14 : 30	F	3	40 ml	HCl	YES	NO		
VOA Glass	4/12/22	14 : 30	F	3	40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/12/22	14 : 30	F	2	250, 500, 1L	None	YES	NO	NA	
Yellow Glass	4/12/22	14 : 30	F	2	250, 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/12/22	14 : 30	F	1	250, 500, 1L	HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	1309 F	0.00	5.36	65.1	421.7	9 . 8	9.01	~~13~~ 10.01	C/C
1	1332 F	3 . 1	5.87	170.5	442.2	9 . 7	~~9.40~~	6 . 74	C/C DTW 9.40
2	1358 F	6 . 35	5.91	182.0	440.6	9 . 4	9.50	2 . 25	C/C
3	1418 F	9 . 30	5.89	196.4	440.6	9 . 3	9.40	3 . 56	C/C
4	1420 F	9 . 45	5.90	196.3	440.4	9 . 3	9.40	3 . 17	C/C
5	1422 F	9 . 60	5.88	196.3	440.4	9 . 2	9.39	3 . 16	C/C
6	1424 F	9 . 75	5.91	196.2	440.3	9 . 4	9.39	3 . 20	C/C

[g] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Standard Purge (20/10/20 psi) ~500mL/min

Brandon Raposo
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-12B

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN		?		**TEMPERATURE:**	°F 55 .	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW [Product Thickness]	DTB-DTW [Water Column]		Volume (gal) [Water Column x Gal/ft]
4/21/22	13:00	14.27	.	14.6	.	31.6	X 1	—
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163	1" =	0.041	(2") =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/21/22	13:40	F	3	40 ml	HCl	(YES)	NO		
VOA Glass	4/21/22	13:40	F	3	40 ml	$Na_2S_2O_3$	(YES)	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/21/22	13:40	F	2	250, 500, 1L	(None)	(YES)	NO	NA	
Yellow Glass	4/21/22	13:40	F	2	250, 500, 1L	H_2SO_4	(YES)	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/21/22	13:40	F	1	250, 500, 1L	HNO_3	(YES)	(YES)		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: 13:01 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1302)	0.00	6.45	245.2	567.1	10.1	14.6	5.18	C/C tan
1	F(1312)	0.5	6.47	229.6	562.9	10.1	14.6	4.97	C/C
2	F(1314)	0.75	7.05	2.3	596.6	10.7	14.6	3.23	C/C
3	F(1316)	0.85	7.07	-10.7	593.7	10.6	14.6	3.21	C/C
4	F(1318)	0.95	7.02	-23.0	598.1	10.7	14.6	3.24	C/C
5	F(1320)	1.10	7.06	-37.7	594.7	10.7	14.6	3.20	C/C
6	F(1322)	1.20	7.06	-44.1	594.9	10.7	14.6	3.22	C/C

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

C/C = clear / colorless

low flow 20/10/20 psi ~ 200 mL/min

SAMPLER: EDAN T (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-15A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	(W)	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY	(CLOUDY)		(RAIN)		?			**TEMPERATURE:**	(°F) 50.0	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/19/22	13:20	24.00	.	8.79	.	15.21	X 1	2.42
/ /	:	.	.	.	.		X 3	7.43

Gal/ft = (dia /2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	
VOA Glass	4/19/22	14:45	F	3 (40 ml)	(HCl)	(YES)	(NO)		✓
VOA Glass	4/19/22	14:45	F	3 (40 ml)	($Na_2S_2O_3$)	(YES)	(NO)		✓
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/19/22	14:45	F	2 (250, 500) mL	(None)	YES	NO	NA	✓
Yellow Glass	4/19/22	14:45	F	2 (250), 500, 1L	(H_2SO_4)	YES	NO		✓
Red Total Poly	/ /	:		125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/19/22	14:45	F	1 250, (500) 1L	(HNO_3)	YES	YES		✓
White Poly	/ /	:		250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:		100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 | 11 | Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	(1340)F	0.00	5.74	172.6	159.6	12.50	9.45	8.83	BRIEF Cloudy/tan
1	(1357)F	2.50	6.24	169.3	185.4	12.10	15.02	5.12	Clearing, light tan
2	(1417)F	5.00	6.27	171.0	183.6	12.1	15.58	4.10	clearing / light tan
3	(1434)F	27.50	6.15	174.8	152.6	12.1	17.12	4.65	Turbid, tan
4	(1438)F	7.75	6.15	175.6	151.6	12.2	17.26	7.37	tan, cloudy
5	(1438)F	8.00	6.16	176.0	150.8	12.2	17.40	7.86	tan, cloudy
6	(1440)F	8.25	6.15	177.2	149.8	12.3	17.53	7.11	cloudy

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

500 mL/min

Standard purge (20/10/20psi) ~ ~~800~~ 1L

SAMPLER: I Hultquist (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-15B
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	(W)	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		(CLOUDY)		(RAIN)		?		**TEMPERATURE:**	(052.0) °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/20/22	~~45.95~~ 110.1 IH	45.95	.	15.26	.	-	X 1	-
/ /		.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	11:35	F	3 (40 ml)	(HCl)	~~YES~~	~~NO~~		✓
VOA Glass	4/20/22	11:35	F	3 (40 ml)	~~$Na_2S_2O_3$~~	(YES)	~~NO~~		✓
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/20/22	11:35	F	2 (250) 500 1L	(None)	(YES)	~~NO~~	NA	✓
Yellow Glass	4/20/22	11:35	F	2 (250), 500, 1L	~~H_2SO_4~~	~~YES~~	~~NO~~		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/20/22	11:35	F	1	250, (500) 1L	~~HNO_3~~	~~YES~~	~~YES~~		✓
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1104)	0.00	6.60	85.9	676	11.20	15.45	3.64	Light tan, clear
1	F(1111)	0.5	6.70	56.4	491.7	12.2	15.50	0.95	clear, colorless
2	F(1115)	0.75	6.72	44.9	496.2	12.1	15.51	0.79	clear/colorless
3	F(1117)	0.85	6.72	37.9	502.1	12.1	15.46	0.82	clear/colorless
4	F(1119)	0.95	6.72	35.4	515.1	12.1	15.48	0.80	clear/colorless
5	F(1121)	1.05	6.72	30.7	520.1	12.1	15.56	0.79	clear/colorless
6	F(1123)	1.15	6.72	29.6	527.6	12.1	15.54	0.78	clear/colorless

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low flow purge method (20/10/20psi) ~ 400ml/min

SAMPLER: J. Hultgvist (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

2 of 2

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** ~~MW-15B~~ MW-15B 1st
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		**TEMPERATURE:**	(F) 50.0 °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
4/20/22	11:01	45.95	.	15.26	.	—	X 1	—
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	11:35	F	3	40 ml HCl	YES	NO		✓
VOA Glass	4/20/22	11:35	F	3	40 ml $Na_2S_2O_3$	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/20/22	11:35	F	2	250, 500, 1L None	YES	NO	NA	✓
Yellow Glass	4/20/22	11:35	F	2	250, 500, 1L H_2SO_4	YES	NO		✓
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	4/20/22	11:35	F	1	250, 500, 1L HNO_3	YES	YES		✓
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1125)	1.25 ~~0.00~~	6.72	24.1	532.9	12.2	15.55	0.78	clear, colorless
1	F(1127)	1.35	6.73	23.6	535.6	12.2	15.47	0.77	clear/colorless
2	F(1129)	1.45	6.73	22.7	536.0	12.2	15.53	0.72	clear/colorless
3	F(1131)	1.65	6.73	18.2	536.2	12.2	15.53	0.71	clear/colorless
4	F(1133)	1.75	6.73	16.7	536.8	12.2	15.53	0.71	clear/colorless
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low flow purge method (20/10/10psi) ~400ml/min

SAMPLER: I. Hultquist (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-16A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		~~RAIN~~		?		**TEMPERATURE:** (°F) 43 . °C		

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/19/22	11:38	25.00	.	14.90	.	10.10	X 1	1.64
/ /	:	.	.	.	.		X 3	4.93

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/19/22	12:49	f3 → 3	40 ml	~~HCl~~	~~YES~~ X	~~NO~~		✓
VOA Glass	4/19/22	12:49	f3 → 3	40 ml	$Na_2S_2O_3$	~~YES~~	~~NO~~		✓
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/19/22	12:49	f2 → 2	~~250~~, 500, 1L	~~None~~	~~YES~~	~~NO~~	NA	✓
Yellow Glass	4/19/22	12:49	f2 → 2	~~250~~, 500, 1L	~~H_2SO_4~~	~~YES~~	~~NO~~		✓
Red Total Poly	/ /	:		125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/19/22	12:49	f1 → 1	250, ~~500~~, 1L	~~HNO_3~~	~~YES~~	~~YES~~		✓
White Poly	/ /	:		250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:		100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	f(1152)	0.00	6.27	84.3	323.1	12.0	14.91	9.96	C/C
1	f(1208)	1.5	6.21	103.6	333.7	11.9	15.06	9.86	tan / cloudy
2	f(1215)	3.0	6.18	111.3	335.0	11.9	17.02	9.41	tan / clear
3	f(1220)	5.0	6.16	115.8	329.6	11.9	17.81	9.42	clear / colorless
4	f(1228)	5.2	6.18	117.0	327.9	12.0	18.69	9.50	C/C
5	f(1230)	5.5	6.18	118.0	327.4	12.0	18.72	9.47	C/C
6	f(1232)	5.8	6.18	117.9	326.8	12.0	18.72	9.42	C/C

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

standard purge 20/10/20 psi 400 mL/min

SAMPLER:
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** Dup 1
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	(°F) 45 .	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = $(dia./2)^2$ x 0.163	1" =	0.041	2" =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/19/22	12:45	F	3	(40 ml)	HCl	(YES)	(NO)		√
VOA Glass	4/19/22	12:45	F	3	(40 ml)	$Na_2S_2O_3$	(YES)	(NO)		√
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/19/22	12:45	F	2	250, 500 (1L)	None	~~YES~~	~~NO~~	NA	√
Yellow Glass	4/19/22	12:45	F	1	~~250~~, 500, 1L	H_2SO_4	(YES)	(NO)		√
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/19/22	12:45	F	1	250, ~~500~~, 1L	HNO_3	~~YES~~	~~YES~~		√
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F (1245)	0.00	.			.	.	.	
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity Color]

Collected at MW-16A

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-16B
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	° F . ° C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
4/19/22	13:30	46.90	.	15.10	~~31.90~~	31.90	X 1	~~5.23~~
/ /	:	.	.	.	.		X 3	~~15~~ .

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/19/22	14:10	F	3	(40 ml)	(HCl)	(YES)	NO		
VOA Glass	4/19/22	14:10	F	3	(40 ml)	($Na_2S_2O_3$)	(YES)	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/19/22	14:10	F	2	(250, 500, 1L)	(None)	(YES)	NO	NA	
Yellow Glass	4/19/22	14:10	F	2	(250, 500, 1L)	(H_2SO_4)	(YES)	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/19/22	14:10	F	1	250, (500, 1L)	(HNO_3)	(YES)	(YES)		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1338)	0.00	6.68	51.1	1160	12.0	15.10	1.23	C/G
1	F(1346)	0.75	6.78	20.4	1144	12.1	15.10	0.97	C/G
2	F(1348)	0.95	6.81	6.0	1139	12.0	15.10	3.14	tan/clear
3	F(1350)	1.15	6.82	-0.6	1137	12.0	15.10	0.71	C/C
4	F(1352)	1.35	6.82	-5.6	1136	12.0	15.10	0.74	C/C
5	F(1354)	1.55	6.82	-8.4	1135	12.0	15.10	0.74	C/C
6	F(1356)	1.75	6.82	-10.3	1135	12.0	15.10	0.71	C/C

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low flow 20/10/30 psi 400 mL/min

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-21A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	LIGHT	(MEDIUM)	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN		?		**TEMPERATURE:**	(°F) 53.	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
4/21/22	11:31	15.42	.	7.41	.	8.01	X 1	1.30
/ /	:	.	.	.	.		X 3	3.90

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/21/22	12:15	F	3	~~40 ml~~ (HCl)	(YES) ~~NO~~	~~YES~~ (NO)		✓
VOA Glass	4/21/22	12:15	F	3	~~40 ml~~ $Na_2S_2O_3$	(YES) ~~NO~~	~~YES~~ (NO)		✓
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/21/22	12:15	F	2	~~250~~, 500, ~~1L~~	None	YES	NO	NA	
Yellow Glass	4/21/22	12:15	F	2	250, ~~500~~, 1L	~~H_2SO_4~~	~~YES~~	~~NO~~		✓
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/21/22	12:15	F	1	250, (500) 1L	~~HNO_3~~	(YES)	~~YES~~		✓
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 — Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [✓] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1132)	0.00	6.16	230.6	304.0	11.7	7.41	2.14	C/C
1	F(1138)	1.00	6.14	229.7	315.0	11.7	8.20	1.23	C/C
2	F(1144)	2.20	6.15	228.2	316.6	11.6	8.28	0.96	C/C
3	F(1202)	3.30	6.13	225.6	317.0	11.6	8.28	0.94	C/C
4	F(1208)	4.10	6.12	225.7	316.6	11.6	8.28	0.92	C/C
5	F(1214)	4.40	6.12	225.4	317.0	11.6	8.28	0.94	C/C
6	F(1220)	4.65	6.12	225.3	316.5	11.6	8.28	0.91	C/C

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Standard Purge method (10/5/25 psi) ~ 600 mL/min

C/C = clear and colorless

SAMPLER: EDAN TAYLOR
(PRINTED NAME) (SIGNATURE)

FedEx

Do not lift using this tag.

ORIGIN ID:PDXA

SHIP DATE: 21APR22
ACTWGT: 54.85 LB
CAD: YSSFE2300
DIMS: 24x14x14 IN

TO SAMPLE RECEVING
EUROFINS TESTAMERICA – DENVER
4955 YARROW ST

ARVADA CO 80002
(303) 736–0100
INV:
PO:
REF:
DEPT:

(US)

FedEx Express

J221022010502uv

TRK# 0667 8165 7649 6728

FRI – 22 APR 10:30A
PRIORITY OVERNIGHT

XA LAAA

AHS
80002
CO–US DEN

RT 640 4 10:30 C
FZ 6739 04.22

Part # 1562974-00 REV 03 EXP 03/23

eurofins | Environment Testing TestAmerica

1984158

FedEx Express

J221022010502uv

TRK# 0667 8165 7649 6739

FRI – 22 APR 10:30A
PRIORITY OVERNIGHT

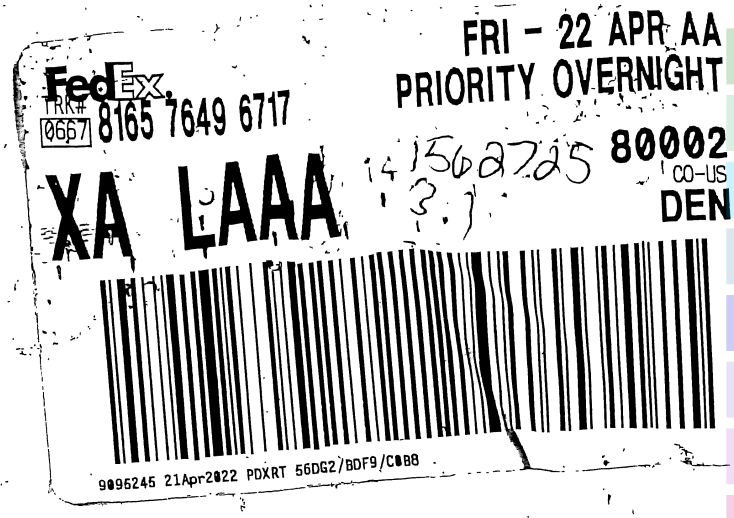
XA LAAA

AHS
80002
CO–US DEN

280-161414 Waybill

SAMPLE RECEIVING
EUROFINS TESTAMERICA – DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736–0100
INV:
PO:
REF:
ofins
Environment Test
TestAmerica
1773606
(US)
FedEx
Express
FRI – 22 APR 10:30A
TRK# 8165 7649 6691
667
PRIORITY OVERNIGHT
AHS
80002
CO–US
DEN
4.3

280-161414 Waybill


FedEx
TRK# 8165 7649 6717
0667
FRI - 22 APR AA
PRIORITY OVERNIGHT
80002
CO-US
XA LAAA
DEN
9096245 21Apr2022 PDXRT 56DG2/BDF9/C8B8

ORIGIN ID:PDXA
SHIP DATE: 21APR22
ACTWGT: 52.00 LB
CAD: 7SSFE2300
DIMS: 24x14x14 IN
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA - DENVER
4955 YARROW ST
ARVADA CO 800
(US)
(303) 736-0100
INV:
PO:
Eurofins
Environment Testing
TestAmerica
1562723
FedEx
Express
FRI - 22 APR 10:30A
PRIORITY OVERNIGHT
TRK# 0667 8165 7649 6706
AHS
80002
CO-US DEN
XA LAAA

7-4

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-612040.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-161414-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 5/12/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298	PO #:			
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	WO #:			
Email:	Project #: 28002786			
Project Name: 1003|Riverbend Landfill SCS Engineers	SSOW#:			
Site: 1003|Riverbend Landfill				

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-12A (280-161414-2)	4/21/22	14:30 Pacific		Water			X	1	
MW-12B (280-161414-3)	4/21/22	13:40 Pacific		Water			X	1	
MW-15A (280-161414-4)	4/19/22	14:45 Pacific		Water			X	1	
MW-15B (280-161414-5)	4/20/22	11:35 Pacific		Water			X	1	
MW-16A (280-161414-6)	4/19/22	12:40 Pacific		Water			X	1	
DUP1 (280-161414-7)	4/19/22	12:45 Pacific		Water			X	1	
MW-16B (280-161414-8)	4/19/22	14:10 Pacific		Water			X	1	
MW-21A (280-161414-9)	4/21/22	12:15 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:		
Relinquished by:	Date/Time: 4/26/22 1530	Company: EAEN	Received by:		Date/Time: 4/28/22 1000	Company: EA	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.7 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161414-1

Login Number: 161414
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161414-1

Login Number: 161414
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 04/29/22 04:45 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7 ir gun #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Generated 3/10/2023 2:37:36 PM

JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Compliance Wells - Apr Oct

JOB NUMBER

280-161449-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

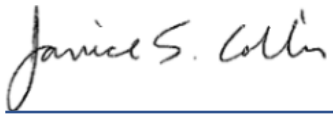
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
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(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-161449-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-161449-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-161449-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 04/23/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 1.1°C and 2.7°.

Two of three sodium thiosulfate vials for the sample MW-14B was received broken. Sufficient volume remained to proceed with the analysis.

Holding Times

All holding times were met.

Method Blanks

All Method Blanks met method criteria.

Laboratory Control Samples (LCS)

All Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)
Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) for Method 8260B (Batch 573931) and Method 8011, however, LCS/LCSD pairs were analyzed to demonstrate method precision and accuracy.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for multiple spike compounds Method 8260B. In addition, the RPD was outside of the RPD limits for multiple spike compounds Method 8260B. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and MSD results were within established control limits.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as

Job ID: 280-161449-1 (Continued)

Laboratory: Eurofins Denver (Continued)

the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

The analysis for Chloride and Sulfate Method 300.0 was performed by TestAmerica Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
Phone: 716-691-2600

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

Client Sample ID: TB3 — Lab Sample ID: 280-161449-1

No Detections.

Client Sample ID: MW-14A — Lab Sample ID: 280-161449-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	31000		500		ug/L	1		6010B	Dissolved
Magnesium	12000		200		ug/L	1		6010B	Dissolved
Manganese	14		3.0		ug/L	1		6010B	Dissolved
Sodium	9300		1000		ug/L	1		6010B	Dissolved
Chloride	7.5		0.50		mg/L	1		300.0	Total/NA
Sulfate	15		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	0.066		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.1		1.0		mg/L	1		9060	Total/NA
Total Anions	3.1				meq/L	1		SM 1030E	Total/NA
Total Cations	2.9				meq/L	1		SM 1030E	Total/NA
Percent Difference	-3.1				%	1		SM 1030E	Total/NA
Calcium	31				mg/L	1		SM 1030E	Total/NA
Magnesium	12				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	9.3				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	7.5				mg/L	1		SM 1030E	Total/NA
Sulfate	15				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.066				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-3.1				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	170				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.99				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.40				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.21				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.31				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	130				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	2.6				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.0047				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	170		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.02				SU	1		Field Sampling	Total/NA
Field Conductivity	325.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.2				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.40				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	96.3				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

Client Sample ID: MW-14B

Lab Sample ID: 280-161449-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	47000		500		ug/L	1		6010B	Dissolved
Iron	1600		30		ug/L	1		6010B	Dissolved
Magnesium	14000		200		ug/L	1		6010B	Dissolved
Manganese	1300		3.0		ug/L	1		6010B	Dissolved
Sodium	35000		1000		ug/L	1		6010B	Dissolved
Chloride	31		0.50		mg/L	1		300.0	Total/NA
Sulfate	3.7		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.26		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	1.4		1.0		mg/L	1		9060	Total/NA
Total Anions	5.3				meq/L	1		SM 1030E	Total/NA
Total Cations	5.1				meq/L	1		SM 1030E	Total/NA
Percent Difference	-2.1				%	1		SM 1030E	Total/NA
Calcium	47				mg/L	1		SM 1030E	Total/NA
Magnesium	14				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	35				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.26				mg/L	1		SM 1030E	Total/NA
Chloride	31				mg/L	1		SM 1030E	Total/NA
Sulfate	3.7				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	220				mg/L	1		SM 1030E	Total/NA
Alkalinity	220				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-2.1				%	1		SM 1030E	Total/NA
Calculated TDS	260				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	290				mg/L	1		SM 1030E	Total/NA
Iron	1.6				mg/L	1		SM 1030E	Total/NA
Calcium	2.3				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.2				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.019				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.87				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.077				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	220				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	4.4				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.086				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	220		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	290		10		mg/L	1		SM 2540C	Total/NA
Field pH	7.22				SU	1		Field Sampling	Total/NA
Field Conductivity	543.5				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.9				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.80				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-16.3				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-161449-1	TB3	Water	04/22/22 07:00	04/23/22 11:25
280-161449-2	MW-14A	Water	04/22/22 12:00	04/23/22 11:25
280-161449-3	MW-14B	Water	04/22/22 12:45	04/23/22 11:25

Method Summary

Client: Waste Management
Job ID: 280-161449-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

Client Sample ID: TB3
Date Collected: 04/22/22 07:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 09:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 09:29	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 09:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 09:29	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 09:29	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 09:29	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 09:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 09:29	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 09:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 09:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 09:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 09:29	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 09:29	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 09:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 09:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 09:29	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 09:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 09:29	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 09:29	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 09:29	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 09:29	1
2-Hexanone	ND		5.0		ug/L			05/05/22 09:29	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 09:29	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 09:29	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 09:29	1
Acetone	ND		10		ug/L			05/05/22 09:29	1
Benzene	ND		1.0		ug/L			05/05/22 09:29	1
Bromobenzene	ND		1.0		ug/L			05/05/22 09:29	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 09:29	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 09:29	1
Bromoform	ND		1.0		ug/L			05/05/22 09:29	1
Bromomethane	ND		2.0		ug/L			05/05/22 09:29	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 09:29	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 09:29	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 09:29	1
Chloroethane	ND		2.0		ug/L			05/05/22 09:29	1
Chloroform	ND		1.0		ug/L			05/05/22 09:29	1
Chloromethane	ND		2.0		ug/L			05/05/22 09:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 09:29	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 09:29	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 09:29	1
Dibromomethane	ND		1.0		ug/L			05/05/22 09:29	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 09:29	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 09:29	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 09:29	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 09:29	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 09:29	1
Naphthalene	ND		1.0		ug/L			05/05/22 09:29	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 09:29	1

Client Sample ID: TB3

Lab Sample ID: 280-161449-1

Date Collected: 04/22/22 07:00

Matrix: Water

Date Received: 04/23/22 11:25

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			05/05/22 09:29	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 09:29	1
Styrene	ND		1.0		ug/L			05/05/22 09:29	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 09:29	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 09:29	1
Toluene	ND		1.0		ug/L			05/05/22 09:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 09:29	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 09:29	1
Trichloroethene	ND		1.0		ug/L			05/05/22 09:29	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 09:29	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 09:29	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 09:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/22 09:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*05/05/22 09:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*05/05/22 09:29*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*05/05/22 09:29*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*05/05/22 09:29*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/06/22 17:04	05/07/22 03:37	1
1,2-Dibromoethane	ND		0.050		ug/L		05/06/22 17:04	05/07/22 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*101*		*70 - 130*	*05/06/22 17:04*	*05/07/22 03:37*	*1*

Client Sample ID: MW-14A

Lab Sample ID: 280-161449-2

Date Collected: 04/22/22 12:00

Matrix: Water

Date Received: 04/23/22 11:25

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 13:52	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 13:52	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 13:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 13:52	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 13:52	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 13:52	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 13:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 13:52	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 13:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 13:52	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 13:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 13:52	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 13:52	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 13:52	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 13:52	1

Client Sample ID: MW-14A
Date Collected: 04/22/22 12:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 13:52	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 13:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 13:52	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 13:52	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 13:52	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 13:52	1
2-Hexanone	ND		5.0		ug/L			05/05/22 13:52	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 13:52	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 13:52	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 13:52	1
Acetone	ND		10		ug/L			05/05/22 13:52	1
Benzene	ND		1.0		ug/L			05/05/22 13:52	1
Bromobenzene	ND		1.0		ug/L			05/05/22 13:52	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 13:52	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 13:52	1
Bromoform	ND		1.0		ug/L			05/05/22 13:52	1
Bromomethane	ND		2.0		ug/L			05/05/22 13:52	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 13:52	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 13:52	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 13:52	1
Chloroethane	ND		2.0		ug/L			05/05/22 13:52	1
Chloroform	ND		1.0		ug/L			05/05/22 13:52	1
Chloromethane	ND		2.0		ug/L			05/05/22 13:52	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 13:52	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 13:52	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 13:52	1
Dibromomethane	ND		1.0		ug/L			05/05/22 13:52	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 13:52	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 13:52	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 13:52	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 13:52	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 13:52	1
Naphthalene	ND		1.0		ug/L			05/05/22 13:52	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 13:52	1
N-Propylbenzene	ND		1.0		ug/L			05/05/22 13:52	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 13:52	1
Styrene	ND		1.0		ug/L			05/05/22 13:52	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 13:52	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 13:52	1
Toluene	ND		1.0		ug/L			05/05/22 13:52	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 13:52	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 13:52	1
Trichloroethene	ND		1.0		ug/L			05/05/22 13:52	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 13:52	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 13:52	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 13:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*31*	*T J*	*ug/L*		*1.83*	*N/A*		*05/05/22 13:52*	*1*
Unknown	*6.9*	*T J*	*ug/L*		*2.16*	*N/A*		*05/05/22 13:52*	*1*

Client Sample ID: MW-14A

Date Collected: 04/22/22 12:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*05/05/22 13:52*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*05/05/22 13:52*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*05/05/22 13:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*05/05/22 13:52*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/06/22 17:04	05/07/22 04:01	1
1,2-Dibromoethane	ND		0.050		ug/L		05/06/22 17:04	05/07/22 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*110*		*70 - 130*	*05/06/22 17:04*	*05/07/22 04:01*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**31000**		500		ug/L		05/04/22 09:55	05/05/22 12:01	1
Iron	ND		30		ug/L		05/04/22 09:55	05/05/22 12:01	1
Magnesium	**12000**		200		ug/L		05/04/22 09:55	05/05/22 12:01	1
Manganese	**14**		3.0		ug/L		05/04/22 09:55	05/05/22 12:01	1
Potassium	ND		500		ug/L		05/04/22 09:55	05/05/22 12:01	1
Sodium	**9300**		1000		ug/L		05/04/22 09:55	05/05/22 12:01	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**3.1**				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	**2.9**				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	**-3.1**				%			05/10/22 12:14	1
Calcium (SM 1030E)	**31**				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	**12**				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	**9.3**				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	**7.5**				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	**15**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	**130**				mg/L			05/10/22 12:14	1
Alkalinity (SM 1030E)	**130**				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	**0.066**				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	**-3.1**				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	**140**				mg/L			05/10/22 12:14	1
TDS Ratio (SM 1030E)	**1.2**				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	**170**				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	**1.5**				meq/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	**0.99**				meq/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	**0.40**				meq/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	**0.21**				meq/L			05/10/22 12:14	1
Sulfate (SM 1030E (meq))	**0.31**				meq/L			05/10/22 12:14	1
Alkalinity (SM 1030E (meq))	**130**				mg/L			05/10/22 12:14	1

Client Sample ID: MW-14A

Date Collected: 04/22/22 12:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E (meq))	2.6				meq/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	0.0047				meq/L			05/10/22 12:14	1
Iron (SM 1030E (meq))	0.00				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	7.5		0.50		mg/L			05/10/22 02:38	1
Sulfate (EPA 300.0)	15		1.0		mg/L			05/10/22 02:38	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			05/09/22 13:51	1
Nitrate/Nitrite (EPA 353.2)	0.066		0.050		mg/L			05/03/22 16:54	1
Total Organic Carbon - Average (SW846 9060)	1.1		1.0		mg/L			05/04/22 22:24	1
Bicarbonate Alkalinity (SM 2320B)	130		10		mg/L			05/05/22 21:16	1
Total Dissolved Solids (SM 2540C)	170		10		mg/L			04/28/22 12:14	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.02				SU			04/22/22 13:00	1
Field Conductivity	325.0				umhos/cm			04/22/22 13:00	1
Field Temperature	10.2				Degrees C			04/22/22 13:00	1
Field Dissolved Oxygen	1.40				mg/L			04/22/22 13:00	1
Field EH/ORP	96.3				millivolts			04/22/22 13:00	1

Client Sample ID: MW-14B

Date Collected: 04/22/22 12:45
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 14:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 14:14	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 14:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 14:14	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 14:14	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 14:14	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 14:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 14:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 14:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 14:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 14:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 14:14	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 14:14	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 14:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 14:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 14:14	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 14:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 14:14	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 14:14	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 14:14	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 14:14	1
2-Hexanone	ND		5.0		ug/L			05/05/22 14:14	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

Client Sample ID: MW-14B
Date Collected: 04/22/22 12:45
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 14:14	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 14:14	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 14:14	1
Acetone	ND		10		ug/L			05/05/22 14:14	1
Benzene	ND		1.0		ug/L			05/05/22 14:14	1
Bromobenzene	ND		1.0		ug/L			05/05/22 14:14	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 14:14	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 14:14	1
Bromoform	ND		1.0		ug/L			05/05/22 14:14	1
Bromomethane	ND		2.0		ug/L			05/05/22 14:14	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 14:14	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 14:14	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 14:14	1
Chloroethane	ND		2.0		ug/L			05/05/22 14:14	1
Chloroform	ND		1.0		ug/L			05/05/22 14:14	1
Chloromethane	ND		2.0		ug/L			05/05/22 14:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 14:14	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 14:14	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 14:14	1
Dibromomethane	ND		1.0		ug/L			05/05/22 14:14	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 14:14	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 14:14	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 14:14	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 14:14	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 14:14	1
Naphthalene	ND		1.0		ug/L			05/05/22 14:14	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 14:14	1
N-Propylbenzene	ND		1.0		ug/L			05/05/22 14:14	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 14:14	1
Styrene	ND		1.0		ug/L			05/05/22 14:14	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 14:14	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 14:14	1
Toluene	ND		1.0		ug/L			05/05/22 14:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 14:14	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 14:14	1
Trichloroethene	ND		1.0		ug/L			05/05/22 14:14	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 14:14	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 14:14	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 14:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*18*	*T J*	*ug/L*		*1.83*	*N/A*		*05/05/22 14:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*05/05/22 14:14*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*05/05/22 14:14*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*05/05/22 14:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*05/05/22 14:14*	*1*

Client Sample ID: MW-14B

Date Collected: 04/22/22 12:45
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-3

Matrix: Water

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/06/22 17:04	05/07/22 04:25	1
1,2-Dibromoethane	ND		0.050		ug/L		05/06/22 17:04	05/07/22 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*113*		*70 - 130*	*05/06/22 17:04*	*05/07/22 04:25*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**47000**		500		ug/L		05/04/22 09:55	05/05/22 12:05	1
Iron	**1600**		30		ug/L		05/04/22 09:55	05/05/22 12:05	1
Magnesium	**14000**		200		ug/L		05/04/22 09:55	05/05/22 12:05	1
Manganese	**1300**		3.0		ug/L		05/04/22 09:55	05/05/22 12:05	1
Potassium	ND		500		ug/L		05/04/22 09:55	05/05/22 12:05	1
Sodium	**35000**		1000		ug/L		05/04/22 09:55	05/05/22 12:05	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**5.3**				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	**5.1**				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	**-2.1**				%			05/10/22 12:14	1
Calcium (SM 1030E)	**47**				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	**14**				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	**35**				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	**0.26**				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	**31**				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	**3.7**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	**220**				mg/L			05/10/22 12:14	1
Alkalinity (SM 1030E)	**220**				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	**-2.1**				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	**260**				mg/L			05/10/22 12:14	1
TDS Ratio (SM 1030E)	**1.1**				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	**290**				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	**1.6**				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	**2.3**				meq/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	**1.2**				meq/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	**1.5**				meq/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	**0.019**				meq/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	**0.87**				meq/L			05/10/22 12:14	1
Sulfate (SM 1030E (meq))	**0.077**				meq/L			05/10/22 12:14	1
Alkalinity (SM 1030E (meq))	**220**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E (meq))	**4.4**				meq/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Iron (SM 1030E (meq))	**0.086**				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**31**		0.50		mg/L			05/10/22 02:57	1
Sulfate (EPA 300.0)	**3.7**		1.0		mg/L			05/10/22 02:57	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

Client Sample ID: MW-14B
Date Collected: 04/22/22 12:45
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.26		0.030		mg/L			05/09/22 14:08	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/03/22 17:08	1
Total Organic Carbon - Average (SW846 9060)	1.4		1.0		mg/L			05/04/22 23:09	1
Bicarbonate Alkalinity (SM 2320B)	220		10		mg/L			05/05/22 21:04	1
Total Dissolved Solids (SM 2540C)	290		10		mg/L			04/28/22 12:14	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.22				SU			04/22/22 13:45	1
Field Conductivity	543.5				umhos/cm			04/22/22 13:45	1
Field Temperature	10.9				Degrees C			04/22/22 13:45	1
Field Dissolved Oxygen	0.80				mg/L			04/22/22 13:45	1
Field EH/ORP	-16.3				millivolts			04/22/22 13:45	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
140-27331-B-2 MS	Matrix Spike	102	97	99	100
140-27331-B-2 MSD	Matrix Spike Duplicate	103	98	101	101
280-161449-1	TB3	101	98	100	102
280-161449-2	MW-14A	104	99	102	100
280-161449-3	MW-14B	104	99	102	100
LCS 280-573931/4	Lab Control Sample	95	98	97	101
LCS 280-573935/4	Lab Control Sample	101	98	99	101
LCSD 280-573931/5	Lab Control Sample Dup	99	97	97	102
LCSD 280-573935/5	Lab Control Sample Dup	102	98	97	102
MB 280-573931/9	Method Blank	99	97	99	103
MB 280-573935/9	Method Blank	101	99	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-161449-1	TB3	101
280-161449-2	MW-14A	110
280-161449-3	MW-14B	113
LCS 280-574184/2-A	Lab Control Sample	117
LCSD 280-574184/3-A	Lab Control Sample Dup	117
MB 280-574184/1-A	Method Blank	117

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-573931/9
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 08:25	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 08:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 08:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 08:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 08:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 08:25	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 08:25	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 08:25	1
2-Hexanone	ND		5.0		ug/L			05/05/22 08:25	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 08:25	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 08:25	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 08:25	1
Acetone	ND		10		ug/L			05/05/22 08:25	1
Benzene	ND		1.0		ug/L			05/05/22 08:25	1
Bromobenzene	ND		1.0		ug/L			05/05/22 08:25	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 08:25	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 08:25	1
Bromoform	ND		1.0		ug/L			05/05/22 08:25	1
Bromomethane	ND		2.0		ug/L			05/05/22 08:25	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 08:25	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 08:25	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
Chloroethane	ND		2.0		ug/L			05/05/22 08:25	1
Chloroform	ND		1.0		ug/L			05/05/22 08:25	1
Chloromethane	ND		2.0		ug/L			05/05/22 08:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 08:25	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 08:25	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 08:25	1
Dibromomethane	ND		1.0		ug/L			05/05/22 08:25	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 08:25	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 08:25	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 08:25	1
Naphthalene	ND		1.0		ug/L			05/05/22 08:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573931/9
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
N-Propylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
Styrene	ND		1.0		ug/L			05/05/22 08:25	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 08:25	1
Toluene	ND		1.0		ug/L			05/05/22 08:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 08:25	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 08:25	1
Trichloroethene	ND		1.0		ug/L			05/05/22 08:25	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 08:25	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 08:25	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 08:25	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/22 08:25*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*05/05/22 08:25*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/05/22 08:25*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*05/05/22 08:25*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*05/05/22 08:25*	*1*

Lab Sample ID: LCS 280-573931/4
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	74 - 121
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	62 - 132
1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	72 - 122
1,1,2-Trichloroethane	25.0	24.4		ug/L		98	72 - 128
1,1-Dichloroethane	25.0	24.2		ug/L		97	66 - 130
1,1-Dichloroethene	25.0	25.9		ug/L		104	62 - 130
1,1-Dichloropropene	25.0	25.2		ug/L		101	64 - 133
1,2,3-Trichlorobenzene	25.0	21.6		ug/L		86	70 - 127
1,2,3-Trichloropropane	25.0	25.7		ug/L		103	74 - 123
1,2,4-Trichlorobenzene	25.0	21.6		ug/L		86	73 - 124
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	74 - 124
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	77 - 121
1,2-Dichloroethane	25.0	23.1		ug/L		93	61 - 130
1,2-Dichloropropane	25.0	24.0		ug/L		96	68 - 127
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	73 - 127
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	76 - 121
1,3-Dichloropropane	25.0	25.3		ug/L		101	80 - 118
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	76 - 119
2,2-Dichloropropane	25.0	23.5		ug/L		94	57 - 140
2-Butanone (MEK)	100	84.0		ug/L		84	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573931/4
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	25.0	24.5		ug/L		98	75 - 123
2-Hexanone	100	87.9		ug/L		88	58 - 134
4-Chlorotoluene	25.0	24.4		ug/L		98	74 - 124
4-Isopropyltoluene	25.0	24.1		ug/L		96	74 - 127
4-Methyl-2-pentanone	100	83.9		ug/L		84	56 - 135
Acetone	100	87.5		ug/L		88	50 - 137
Benzene	25.0	24.2		ug/L		97	69 - 126
Bromobenzene	25.0	24.1		ug/L		96	75 - 122
Bromochloromethane	25.0	25.0		ug/L		100	71 - 130
Bromodichloromethane	25.0	23.5		ug/L		94	67 - 126
Bromoform	25.0	23.1		ug/L		93	57 - 125
Bromomethane	25.0	25.6		ug/L		103	25 - 163
Carbon disulfide	25.0	26.3		ug/L		105	56 - 128
Carbon tetrachloride	25.0	24.8		ug/L		99	60 - 133
Chlorobenzene	25.0	24.7		ug/L		99	78 - 118
Chloroethane	25.0	26.6		ug/L		106	52 - 144
Chloroform	25.0	24.3		ug/L		97	68 - 128
Chloromethane	25.0	23.1		ug/L		92	43 - 142
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	69 - 126
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	75 - 120
Dibromochloromethane	25.0	24.6		ug/L		99	71 - 122
Dibromomethane	25.0	24.2		ug/L		97	68 - 129
Dichlorodifluoromethane	25.0	23.5		ug/L		94	26 - 152
Ethylbenzene	25.0	24.8		ug/L		99	76 - 121
Hexachlorobutadiene	25.0	23.1		ug/L		92	69 - 133
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 127
Methylene Chloride	25.0	25.7		ug/L		103	64 - 128
Naphthalene	25.0	20.7		ug/L		83	63 - 129
n-Butylbenzene	25.0	24.7		ug/L		99	69 - 130
N-Propylbenzene	25.0	25.2		ug/L		101	73 - 127
sec-Butylbenzene	25.0	25.4		ug/L		102	72 - 127
Styrene	25.0	23.8		ug/L		95	79 - 120
tert-Butylbenzene	25.0	24.5		ug/L		98	72 - 126
Tetrachloroethene	25.0	24.9		ug/L		100	72 - 127
Toluene	25.0	25.8		ug/L		103	68 - 127
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	66 - 129
trans-1,3-Dichloropropene	25.0	22.6		ug/L		90	66 - 127
Trichloroethene	25.0	24.6		ug/L		99	70 - 125
Trichlorofluoromethane	25.0	25.8		ug/L		103	57 - 144
Vinyl chloride	25.0	26.0		ug/L		104	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573931/5
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	23.5		ug/L		94	74 - 121	2	20
1,1,1-Trichloroethane			25.0	23.7		ug/L		95	62 - 132	3	20
1,1,2,2-Tetrachloroethane			25.0	23.9		ug/L		96	72 - 122	3	20
1,1,2-Trichloroethane			25.0	24.4		ug/L		98	72 - 128	0	20
1,1-Dichloroethane			25.0	23.4		ug/L		94	66 - 130	3	20
1,1-Dichloroethene			25.0	25.0		ug/L		100	62 - 130	3	21
1,1-Dichloropropene			25.0	24.3		ug/L		97	64 - 133	4	20
1,2,3-Trichlorobenzene			25.0	21.8		ug/L		87	70 - 127	1	20
1,2,3-Trichloropropane			25.0	25.1		ug/L		100	74 - 123	2	20
1,2,4-Trichlorobenzene			25.0	21.8		ug/L		87	73 - 124	1	20
1,2,4-Trimethylbenzene			25.0	22.8		ug/L		91	74 - 124	4	20
1,2-Dichlorobenzene			25.0	24.3		ug/L		97	77 - 121	2	20
1,2-Dichloroethane			25.0	23.0		ug/L		92	61 - 130	1	20
1,2-Dichloropropane			25.0	23.7		ug/L		95	68 - 127	1	20
1,3,5-Trimethylbenzene			25.0	23.8		ug/L		95	73 - 127	4	20
1,3-Dichlorobenzene			25.0	23.2		ug/L		93	76 - 121	3	20
1,3-Dichloropropane			25.0	25.5		ug/L		102	80 - 118	1	20
1,4-Dichlorobenzene			25.0	24.3		ug/L		97	76 - 119	1	20
2,2-Dichloropropane			25.0	22.5		ug/L		90	57 - 140	4	22
2-Butanone (MEK)			100	84.2		ug/L		84	53 - 135	0	20
2-Chlorotoluene			25.0	23.8		ug/L		95	75 - 123	3	20
2-Hexanone			100	88.7		ug/L		89	58 - 134	1	21
4-Chlorotoluene			25.0	23.4		ug/L		94	74 - 124	4	20
4-Isopropyltoluene			25.0	23.1		ug/L		92	74 - 127	4	20
4-Methyl-2-pentanone			100	84.8		ug/L		85	56 - 135	1	20
Acetone			100	89.6		ug/L		90	50 - 137	2	21
Benzene			25.0	23.7		ug/L		95	69 - 126	2	20
Bromobenzene			25.0	23.4		ug/L		94	75 - 122	3	20
Bromochloromethane			25.0	24.2		ug/L		97	71 - 130	3	20
Bromodichloromethane			25.0	23.1		ug/L		92	67 - 126	2	20
Bromoform			25.0	23.2		ug/L		93	57 - 125	0	20
Bromomethane			25.0	25.5		ug/L		102	25 - 163	1	40
Carbon disulfide			25.0	25.5		ug/L		102	56 - 128	3	20
Carbon tetrachloride			25.0	24.0		ug/L		96	60 - 133	4	20
Chlorobenzene			25.0	24.3		ug/L		97	78 - 118	1	20
Chloroethane			25.0	25.4		ug/L		102	52 - 144	4	30
Chloroform			25.0	23.9		ug/L		96	68 - 128	2	20
Chloromethane			25.0	22.3		ug/L		89	43 - 142	3	20
cis-1,2-Dichloroethene			25.0	23.2		ug/L		93	69 - 126	2	20
cis-1,3-Dichloropropene			25.0	23.5		ug/L		94	75 - 120	1	20
Dibromochloromethane			25.0	24.5		ug/L		98	71 - 122	1	20
Dibromomethane			25.0	23.4		ug/L		94	68 - 129	3	20
Dichlorodifluoromethane			25.0	20.9		ug/L		84	26 - 152	12	21
Ethylbenzene			25.0	24.0		ug/L		96	76 - 121	3	20
Hexachlorobutadiene			25.0	22.9		ug/L		91	69 - 133	1	20
Isopropylbenzene			25.0	23.8		ug/L		95	70 - 127	4	20
Methylene Chloride			25.0	25.7		ug/L		103	64 - 128	0	20
Naphthalene			25.0	20.9		ug/L		84	63 - 129	1	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573931/5
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene			25.0	24.3		ug/L		97	69 - 130	1	20
N-Propylbenzene			25.0	24.3		ug/L		97	73 - 127	4	20
sec-Butylbenzene			25.0	24.6		ug/L		98	72 - 127	3	20
Styrene			25.0	23.5		ug/L		94	79 - 120	1	20
tert-Butylbenzene			25.0	23.7		ug/L		95	72 - 126	3	20
Tetrachloroethene			25.0	24.4		ug/L		98	72 - 127	2	20
Toluene			25.0	25.3		ug/L		101	68 - 127	2	20
trans-1,2-Dichloroethene			25.0	25.7		ug/L		103	66 - 129	2	20
trans-1,3-Dichloropropene			25.0	22.4		ug/L		90	66 - 127	1	20
Trichloroethene			25.0	24.5		ug/L		98	70 - 125	0	20
Trichlorofluoromethane			25.0	23.3		ug/L		93	57 - 144	10	28
Vinyl chloride			25.0	24.0		ug/L		96	53 - 141	8	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*

Lab Sample ID: MB 280-573935/9
Matrix: Water
Analysis Batch: 573935

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 10:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 10:12	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 10:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 10:12	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 10:12	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 10:12	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 10:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 10:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 10:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 10:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 10:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 10:12	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 10:12	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 10:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 10:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 10:12	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 10:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 10:12	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 10:12	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 10:12	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 10:12	1
2-Hexanone	ND		5.0		ug/L			05/05/22 10:12	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 10:12	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 10:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573935/9
Matrix: Water
Analysis Batch: 573935

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 10:12	1
Acetone	ND		10		ug/L			05/05/22 10:12	1
Benzene	ND		1.0		ug/L			05/05/22 10:12	1
Bromobenzene	ND		1.0		ug/L			05/05/22 10:12	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 10:12	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 10:12	1
Bromoform	ND		1.0		ug/L			05/05/22 10:12	1
Bromomethane	ND		2.0		ug/L			05/05/22 10:12	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 10:12	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 10:12	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 10:12	1
Chloroethane	ND		2.0		ug/L			05/05/22 10:12	1
Chloroform	ND		1.0		ug/L			05/05/22 10:12	1
Chloromethane	ND		2.0		ug/L			05/05/22 10:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 10:12	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 10:12	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 10:12	1
Dibromomethane	ND		1.0		ug/L			05/05/22 10:12	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 10:12	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 10:12	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 10:12	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 10:12	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 10:12	1
Naphthalene	ND		1.0		ug/L			05/05/22 10:12	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 10:12	1
N-Propylbenzene	ND		1.0		ug/L			05/05/22 10:12	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 10:12	1
Styrene	ND		1.0		ug/L			05/05/22 10:12	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 10:12	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 10:12	1
Toluene	ND		1.0		ug/L			05/05/22 10:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 10:12	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 10:12	1
Trichloroethene	ND		1.0		ug/L			05/05/22 10:12	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 10:12	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 10:12	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 10:12	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/22 10:12*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*05/05/22 10:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*05/05/22 10:12*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*05/05/22 10:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*05/05/22 10:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573935/4
Matrix: Water
Analysis Batch: 573935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	74 - 121
1,1,1-Trichloroethane	25.0	23.6		ug/L		94	62 - 132
1,1,2,2-Tetrachloroethane	25.0	25.9		ug/L		103	72 - 122
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	72 - 128
1,1-Dichloroethane	25.0	24.5		ug/L		98	66 - 130
1,1-Dichloroethene	25.0	23.5		ug/L		94	62 - 130
1,1-Dichloropropene	25.0	24.0		ug/L		96	64 - 133
1,2,3-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 127
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	74 - 123
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	73 - 124
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	74 - 124
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	77 - 121
1,2-Dichloroethane	25.0	22.7		ug/L		91	61 - 130
1,2-Dichloropropane	25.0	24.0		ug/L		96	68 - 127
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	73 - 127
1,3-Dichlorobenzene	25.0	24.6		ug/L		99	76 - 121
1,3-Dichloropropane	25.0	24.8		ug/L		99	80 - 118
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	76 - 119
2,2-Dichloropropane	25.0	24.3		ug/L		97	57 - 140
2-Butanone (MEK)	100	101		ug/L		101	53 - 135
2-Chlorotoluene	25.0	24.4		ug/L		98	75 - 123
2-Hexanone	100	106		ug/L		106	58 - 134
4-Chlorotoluene	25.0	24.9		ug/L		100	74 - 124
4-Isopropyltoluene	25.0	25.4		ug/L		101	74 - 127
4-Methyl-2-pentanone	100	105		ug/L		105	56 - 135
Acetone	100	97.2		ug/L		97	50 - 137
Benzene	25.0	24.4		ug/L		98	69 - 126
Bromobenzene	25.0	24.9		ug/L		100	75 - 122
Bromochloromethane	25.0	24.5		ug/L		98	71 - 130
Bromodichloromethane	25.0	24.5		ug/L		98	67 - 126
Bromoform	25.0	21.8		ug/L		87	57 - 125
Bromomethane	25.0	24.7		ug/L		99	25 - 163
Carbon disulfide	25.0	22.2		ug/L		89	56 - 128
Carbon tetrachloride	25.0	23.1		ug/L		93	60 - 133
Chlorobenzene	25.0	24.6		ug/L		98	78 - 118
Chloroethane	25.0	26.6		ug/L		107	52 - 144
Chloroform	25.0	24.7		ug/L		99	68 - 128
Chloromethane	25.0	25.8		ug/L		103	43 - 142
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	69 - 126
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	75 - 120
Dibromochloromethane	25.0	25.1		ug/L		101	71 - 122
Dibromomethane	25.0	23.9		ug/L		96	68 - 129
Dichlorodifluoromethane	25.0	26.2		ug/L		105	26 - 152
Ethylbenzene	25.0	24.3		ug/L		97	76 - 121
Hexachlorobutadiene	25.0	22.3		ug/L		89	69 - 133
Isopropylbenzene	25.0	25.1		ug/L		100	70 - 127
Methylene Chloride	25.0	23.4		ug/L		94	64 - 128
Naphthalene	25.0	24.0		ug/L		96	63 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573935/4
Matrix: Water
Analysis Batch: 573935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
n-Butylbenzene			25.0	25.0		ug/L		100	69 - 130		
N-Propylbenzene			25.0	25.2		ug/L		101	73 - 127		
sec-Butylbenzene			25.0	25.4		ug/L		102	72 - 127		
Styrene			25.0	25.7		ug/L		103	79 - 120		
tert-Butylbenzene			25.0	28.4		ug/L		113	72 - 126		
Tetrachloroethene			25.0	25.1		ug/L		100	72 - 127		
Toluene			25.0	24.8		ug/L		99	68 - 127		
trans-1,2-Dichloroethene			25.0	23.9		ug/L		96	66 - 129		
trans-1,3-Dichloropropene			25.0	25.2		ug/L		101	66 - 127		
Trichloroethene			25.0	24.5		ug/L		98	70 - 125		
Trichlorofluoromethane			25.0	26.0		ug/L		104	57 - 144		
Vinyl chloride			25.0	27.0		ug/L		108	53 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Lab Sample ID: LCSD 280-573935/5
Matrix: Water
Analysis Batch: 573935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	24.4		ug/L		98	74 - 121	2	20
1,1,1-Trichloroethane			25.0	22.5		ug/L		90	62 - 132	5	20
1,1,2,2-Tetrachloroethane			25.0	25.4		ug/L		102	72 - 122	2	20
1,1,2-Trichloroethane			25.0	24.7		ug/L		99	72 - 128	1	20
1,1-Dichloroethane			25.0	23.6		ug/L		94	66 - 130	4	20
1,1-Dichloroethene			25.0	22.2		ug/L		89	62 - 130	6	21
1,1-Dichloropropene			25.0	22.4		ug/L		90	64 - 133	7	20
1,2,3-Trichlorobenzene			25.0	23.7		ug/L		95	70 - 127	0	20
1,2,3-Trichloropropane			25.0	24.6		ug/L		98	74 - 123	1	20
1,2,4-Trichlorobenzene			25.0	23.2		ug/L		93	73 - 124	4	20
1,2,4-Trimethylbenzene			25.0	23.9		ug/L		96	74 - 124	5	20
1,2-Dichlorobenzene			25.0	23.7		ug/L		95	77 - 121	5	20
1,2-Dichloroethane			25.0	22.5		ug/L		90	61 - 130	1	20
1,2-Dichloropropane			25.0	23.4		ug/L		94	68 - 127	3	20
1,3,5-Trimethylbenzene			25.0	24.3		ug/L		97	73 - 127	4	20
1,3-Dichlorobenzene			25.0	23.4		ug/L		94	76 - 121	5	20
1,3-Dichloropropane			25.0	24.8		ug/L		99	80 - 118	0	20
1,4-Dichlorobenzene			25.0	23.1		ug/L		93	76 - 119	6	20
2,2-Dichloropropane			25.0	22.7		ug/L		91	57 - 140	7	22
2-Butanone (MEK)			100	102		ug/L		102	53 - 135	1	20
2-Chlorotoluene			25.0	23.7		ug/L		95	75 - 123	3	20
2-Hexanone			100	109		ug/L		109	58 - 134	3	21
4-Chlorotoluene			25.0	23.1		ug/L		93	74 - 124	7	20
4-Isopropyltoluene			25.0	23.3		ug/L		93	74 - 127	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573935/5
Matrix: Water
Analysis Batch: 573935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone			100	107		ug/L		107	56 - 135	2	20
Acetone			100	98.7		ug/L		99	50 - 137	2	21
Benzene			25.0	23.4		ug/L		94	69 - 126	4	20
Bromobenzene			25.0	23.4		ug/L		94	75 - 122	6	20
Bromochloromethane			25.0	23.9		ug/L		95	71 - 130	3	20
Bromodichloromethane			25.0	23.8		ug/L		95	67 - 126	3	20
Bromoform			25.0	22.1		ug/L		88	57 - 125	1	20
Bromomethane			25.0	22.5		ug/L		90	25 - 163	9	40
Carbon disulfide			25.0	20.9		ug/L		83	56 - 128	6	20
Carbon tetrachloride			25.0	21.9		ug/L		87	60 - 133	6	20
Chlorobenzene			25.0	24.0		ug/L		96	78 - 118	2	20
Chloroethane			25.0	24.6		ug/L		98	52 - 144	8	30
Chloroform			25.0	23.1		ug/L		92	68 - 128	7	20
Chloromethane			25.0	24.3		ug/L		97	43 - 142	6	20
cis-1,2-Dichloroethene			25.0	23.4		ug/L		94	69 - 126	4	20
cis-1,3-Dichloropropene			25.0	24.9		ug/L		100	75 - 120	0	20
Dibromochloromethane			25.0	24.2		ug/L		97	71 - 122	4	20
Dibromomethane			25.0	24.1		ug/L		96	68 - 129	1	20
Dichlorodifluoromethane			25.0	25.0		ug/L		100	26 - 152	5	21
Ethylbenzene			25.0	23.8		ug/L		95	76 - 121	2	20
Hexachlorobutadiene			25.0	21.7		ug/L		87	69 - 133	3	20
Isopropylbenzene			25.0	23.5		ug/L		94	70 - 127	7	20
Methylene Chloride			25.0	22.5		ug/L		90	64 - 128	4	20
Naphthalene			25.0	24.4		ug/L		98	63 - 129	2	21
n-Butylbenzene			25.0	23.6		ug/L		94	69 - 130	6	20
N-Propylbenzene			25.0	23.4		ug/L		93	73 - 127	7	20
sec-Butylbenzene			25.0	23.4		ug/L		94	72 - 127	8	20
Styrene			25.0	25.3		ug/L		101	79 - 120	2	20
tert-Butylbenzene			25.0	26.8		ug/L		107	72 - 126	6	20
Tetrachloroethene			25.0	23.4		ug/L		94	72 - 127	7	20
Toluene			25.0	23.2		ug/L		93	68 - 127	6	20
trans-1,2-Dichloroethene			25.0	22.8		ug/L		91	66 - 129	5	20
trans-1,3-Dichloropropene			25.0	24.7		ug/L		99	66 - 127	2	20
Trichloroethene			25.0	23.6		ug/L		94	70 - 125	4	20
Trichlorofluoromethane			25.0	24.7		ug/L		99	57 - 144	5	28
Vinyl chloride			25.0	25.5		ug/L		102	53 - 141	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 140-27331-B-2 MS
Matrix: Water
Analysis Batch: 573935

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		25.0	24.7		ug/L		99	74 - 121
1,1,1-Trichloroethane	ND		25.0	23.9		ug/L		96	62 - 132
1,1,2,2-Tetrachloroethane	ND		25.0	26.5		ug/L		106	72 - 122
1,1,2-Trichloroethane	ND		25.0	25.5		ug/L		102	72 - 128
1,1-Dichloroethane	ND		25.0	24.8		ug/L		99	66 - 130
1,1-Dichloroethene	ND	F2 F1	25.0	2.13	F1	ug/L		9	62 - 130
1,1-Dichloropropene	ND	F2 F1	25.0	18.1		ug/L		73	64 - 133
1,2,3-Trichlorobenzene	ND		25.0	24.3		ug/L		97	70 - 127
1,2,3-Trichloropropane	ND	F1	25.0	ND	F1	ug/L		0	74 - 123
1,2,4-Trichlorobenzene	ND		25.0	23.5		ug/L		94	73 - 124
1,2,4-Trimethylbenzene	ND		25.0	25.3		ug/L		101	74 - 124
1,2-Dichlorobenzene	ND		25.0	24.9		ug/L		99	77 - 121
1,2-Dichloroethane	ND		25.0	23.0		ug/L		92	61 - 130
1,2-Dichloropropane	ND		25.0	24.3		ug/L		97	68 - 127
1,3,5-Trimethylbenzene	ND		25.0	24.9		ug/L		100	73 - 127
1,3-Dichlorobenzene	ND		25.0	24.8		ug/L		99	76 - 121
1,3-Dichloropropane	ND		25.0	25.5		ug/L		102	80 - 118
1,4-Dichlorobenzene	ND		25.0	24.2		ug/L		97	76 - 119
2,2-Dichloropropane	ND		25.0	22.4		ug/L		89	57 - 140
2-Butanone (MEK)	ND		100	61.7		ug/L		60	53 - 135
2-Chlorotoluene	ND		25.0	24.3		ug/L		97	75 - 123
2-Hexanone	ND		100	78.4		ug/L		78	58 - 134
4-Chlorotoluene	ND		25.0	24.8		ug/L		99	74 - 124
4-Isopropyltoluene	ND		25.0	24.3		ug/L		97	74 - 127
4-Methyl-2-pentanone	ND		100	108		ug/L		108	56 - 135
Acetone	15	F1	100	41.6	F1	ug/L		26	50 - 137
Benzene	ND		25.0	25.0		ug/L		100	69 - 126
Bromobenzene	ND		25.0	24.7		ug/L		99	75 - 122
Bromochloromethane	ND		25.0	24.8		ug/L		99	71 - 130
Bromodichloromethane	ND		25.0	25.2		ug/L		101	67 - 126
Bromoform	ND		25.0	21.4		ug/L		86	57 - 125
Bromomethane	ND	F1	25.0	ND	F1	ug/L		1	25 - 163
Carbon disulfide	ND		25.0	21.9		ug/L		88	56 - 128
Carbon tetrachloride	ND		25.0	23.4		ug/L		94	60 - 133
Chlorobenzene	ND		25.0	24.7		ug/L		99	78 - 118
Chloroethane	ND		25.0	27.6		ug/L		110	52 - 144
Chloroform	ND		25.0	25.8		ug/L		100	68 - 128
Chloromethane	ND		25.0	23.2		ug/L		93	43 - 142
cis-1,2-Dichloroethene	ND		25.0	24.3		ug/L		97	69 - 126
cis-1,3-Dichloropropene	ND	F2 F1	25.0	1.22	F1	ug/L		5	75 - 120
Dibromochloromethane	ND		25.0	24.7		ug/L		99	71 - 122
Dibromomethane	ND		25.0	25.3		ug/L		101	68 - 129
Dichlorodifluoromethane	ND		25.0	26.7		ug/L		107	26 - 152
Ethylbenzene	ND		25.0	24.1		ug/L		97	76 - 121
Hexachlorobutadiene	ND		25.0	20.8		ug/L		83	69 - 133
Isopropylbenzene	ND		25.0	24.4		ug/L		98	70 - 127
Methylene Chloride	ND		25.0	22.9		ug/L		92	64 - 128
Naphthalene	ND		25.0	25.0		ug/L		100	63 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 140-27331-B-2 MS
Matrix: Water
Analysis Batch: 573935

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
n-Butylbenzene	ND		25.0	24.1		ug/L		96	69 - 130
N-Propylbenzene	ND		25.0	24.3		ug/L		97	73 - 127
sec-Butylbenzene	ND		25.0	24.2		ug/L		97	72 - 127
Styrene	ND	F1	25.0	ND	F1	ug/L		3	79 - 120
tert-Butylbenzene	ND		25.0	27.8		ug/L		111	72 - 126
Tetrachloroethene	ND		25.0	24.5		ug/L		98	72 - 127
Toluene	ND		25.0	25.0		ug/L		100	68 - 127
trans-1,2-Dichloroethene	ND		25.0	23.3		ug/L		93	66 - 129
trans-1,3-Dichloropropene	ND	F2 F1	25.0	9.73	F1	ug/L		39	66 - 127
Trichloroethene	ND		25.0	23.9		ug/L		96	70 - 125
Trichlorofluoromethane	ND		25.0	26.5		ug/L		106	57 - 144
Vinyl chloride	ND	F2 F1	25.0	14.7		ug/L		59	53 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

Lab Sample ID: 140-27331-B-2 MSD
Matrix: Water
Analysis Batch: 573935

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	23.4		ug/L		94	74 - 121	5	20
1,1,1-Trichloroethane	ND		25.0	22.4		ug/L		90	62 - 132	6	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.1		ug/L		104	72 - 122	2	20
1,1,2-Trichloroethane	ND		25.0	24.8		ug/L		99	72 - 128	3	20
1,1-Dichloroethane	ND		25.0	23.3		ug/L		93	66 - 130	6	20
1,1-Dichloroethene	ND	F2 F1	25.0	ND	F2 F1	ug/L		3	62 - 130	108	21
1,1-Dichloropropene	ND	F2 F1	25.0	14.4	F2 F1	ug/L		57	64 - 133	23	20
1,2,3-Trichlorobenzene	ND		25.0	24.0		ug/L		96	70 - 127	1	20
1,2,3-Trichloropropane	ND	F1	25.0	ND	F1	ug/L		0	74 - 123	NC	20
1,2,4-Trichlorobenzene	ND		25.0	23.0		ug/L		92	73 - 124	2	20
1,2,4-Trimethylbenzene	ND		25.0	23.5		ug/L		94	74 - 124	7	20
1,2-Dichlorobenzene	ND		25.0	23.8		ug/L		95	77 - 121	4	20
1,2-Dichloroethane	ND		25.0	22.9		ug/L		92	61 - 130	0	20
1,2-Dichloropropane	ND		25.0	23.0		ug/L		92	68 - 127	5	20
1,3,5-Trimethylbenzene	ND		25.0	23.7		ug/L		95	73 - 127	5	20
1,3-Dichlorobenzene	ND		25.0	23.3		ug/L		93	76 - 121	6	20
1,3-Dichloropropane	ND		25.0	24.5		ug/L		98	80 - 118	4	20
1,4-Dichlorobenzene	ND		25.0	23.0		ug/L		92	76 - 119	5	20
2,2-Dichloropropane	ND		25.0	21.4		ug/L		86	57 - 140	4	22
2-Butanone (MEK)	ND		100	57.9		ug/L		56	53 - 135	6	20
2-Chlorotoluene	ND		25.0	23.7		ug/L		95	75 - 123	3	20
2-Hexanone	ND		100	77.0		ug/L		77	58 - 134	2	21
4-Chlorotoluene	ND		25.0	23.4		ug/L		94	74 - 124	6	20
4-Isopropyltoluene	ND		25.0	23.0		ug/L		92	74 - 127	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 140-27331-B-2 MSD
Matrix: Water
Analysis Batch: 573935

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone	ND		100	104		ug/L		104	56 - 135	4	20
Acetone	15	F1	100	43.5	F1	ug/L		28	50 - 137	5	21
Benzene	ND		25.0	23.3		ug/L		93	69 - 126	7	20
Bromobenzene	ND		25.0	23.5		ug/L		94	75 - 122	5	20
Bromochloromethane	ND		25.0	23.9		ug/L		96	71 - 130	3	20
Bromodichloromethane	ND		25.0	23.9		ug/L		96	67 - 126	5	20
Bromoform	ND		25.0	21.6		ug/L		86	57 - 125	1	20
Bromomethane	ND	F1	25.0	ND	F1	ug/L		0	25 - 163	NC	40
Carbon disulfide	ND		25.0	20.4		ug/L		82	56 - 128	7	20
Carbon tetrachloride	ND		25.0	21.8		ug/L		87	60 - 133	7	20
Chlorobenzene	ND		25.0	23.8		ug/L		95	78 - 118	4	20
Chloroethane	ND		25.0	26.1		ug/L		104	52 - 144	6	30
Chloroform	ND		25.0	24.4		ug/L		95	68 - 128	6	20
Chloromethane	ND		25.0	22.3		ug/L		89	43 - 142	4	20
cis-1,2-Dichloroethene	ND		25.0	23.6		ug/L		94	69 - 126	3	20
cis-1,3-Dichloropropene	ND	F2 F1	25.0	ND	F2 F1	ug/L		3	75 - 120	53	20
Dibromochloromethane	ND		25.0	23.7		ug/L		95	71 - 122	4	20
Dibromomethane	ND		25.0	24.2		ug/L		97	68 - 129	4	20
Dichlorodifluoromethane	ND		25.0	25.1		ug/L		101	26 - 152	6	21
Ethylbenzene	ND		25.0	23.2		ug/L		93	76 - 121	4	20
Hexachlorobutadiene	ND		25.0	20.1		ug/L		81	69 - 133	3	20
Isopropylbenzene	ND		25.0	23.0		ug/L		92	70 - 127	6	20
Methylene Chloride	ND		25.0	22.1		ug/L		89	64 - 128	4	20
Naphthalene	ND		25.0	25.1		ug/L		100	63 - 129	0	21
n-Butylbenzene	ND		25.0	22.7		ug/L		91	69 - 130	6	20
N-Propylbenzene	ND		25.0	23.0		ug/L		92	73 - 127	6	20
sec-Butylbenzene	ND		25.0	22.6		ug/L		90	72 - 127	7	20
Styrene	ND	F1	25.0	ND	F1	ug/L		3	79 - 120	6	20
tert-Butylbenzene	ND		25.0	26.1		ug/L		105	72 - 126	6	20
Tetrachloroethene	ND		25.0	22.9		ug/L		92	72 - 127	7	20
Toluene	ND		25.0	23.7		ug/L		95	68 - 127	5	20
trans-1,2-Dichloroethene	ND		25.0	21.5		ug/L		86	66 - 129	8	20
trans-1,3-Dichloropropene	ND	F2 F1	25.0	7.69	F2 F1	ug/L		31	66 - 127	23	20
Trichloroethene	ND		25.0	21.6		ug/L		86	70 - 125	10	20
Trichlorofluoromethane	ND		25.0	24.4		ug/L		98	57 - 144	8	28
Vinyl chloride	ND	F2 F1	25.0	10.3	F2 F1	ug/L		41	53 - 141	35	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-574184/1-A
Matrix: Water
Analysis Batch: 574190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/06/22 17:04	05/06/22 23:39	1
1,2-Dibromoethane	ND		0.050		ug/L		05/06/22 17:04	05/06/22 23:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*117*		*70 - 130*	*05/06/22 17:04*	*05/06/22 23:39*	*1*

Lab Sample ID: LCS 280-574184/2-A
Matrix: Water
Analysis Batch: 574190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574184

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromo-3-Chloropropane			0.250	0.253		ug/L		101	60 - 140		
1,2-Dibromoethane			0.250	0.272		ug/L		109	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*117*		*70 - 130*

Lab Sample ID: LCSD 280-574184/3-A
Matrix: Water
Analysis Batch: 574190

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574184

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.250		ug/L		100	60 - 140	1	10
1,2-Dibromoethane			0.250	0.270		ug/L		108	60 - 140	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*117*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-573718/1-A
Matrix: Water
Analysis Batch: 574034

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573718

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/04/22 09:55	05/05/22 09:47	1
Iron	ND		30		ug/L		05/04/22 09:55	05/05/22 09:47	1
Magnesium	ND		200		ug/L		05/04/22 09:55	05/05/22 09:47	1
Manganese	ND		3.0		ug/L		05/04/22 09:55	05/05/22 09:47	1
Potassium	ND		500		ug/L		05/04/22 09:55	05/05/22 09:47	1
Sodium	ND		1000		ug/L		05/04/22 09:55	05/05/22 09:47	1

Lab Sample ID: LCS 280-573718/2-A
Matrix: Water
Analysis Batch: 574115

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573718

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50000	49400		ug/L		99	90 - 111		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-573718/2-A
Matrix: Water
Analysis Batch: 574115

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9800		ug/L		98	89 - 115
Magnesium	50000	48500		ug/L		97	90 - 113
Manganese	1000	960		ug/L		96	90 - 110
Potassium	50000	49300		ug/L		99	89 - 114
Sodium	50000	49600		ug/L		99	90 - 115

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-625182/28
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			05/09/22 22:42	1
Sulfate	ND		1.0		mg/L			05/09/22 22:42	1

Lab Sample ID: LCS 480-625182/29
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	50.9		mg/L		102	90 - 110
Sulfate	50.0	52.1		mg/L		104	90 - 110

Lab Sample ID: 280-161448-D-4 MS
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	22		50.1	68.3		mg/L		93	81 - 120
Sulfate	5.1		50.0	53.9		mg/L		97	80 - 120

Lab Sample ID: 280-161448-D-4 MSD
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22		50.1	68.6		mg/L		93	81 - 120	0	15
Sulfate	5.1		50.0	54.0		mg/L		98	80 - 120	0	15

Lab Sample ID: 480-197307-J-1 MS
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	28		1000	990		mg/L		96	81 - 120
Sulfate	1300		1000	2260		mg/L		93	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-574325/18
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			05/09/22 12:50	1

Lab Sample ID: LCS 280-574325/17
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N			5.00	4.85		mg/L		97	90 - 110		

Lab Sample ID: 280-161446-C-4 MS
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	ND		1.00	1.05		mg/L		105	90 - 110		

Lab Sample ID: 280-161446-C-4 MSD
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.05		mg/L		105	90 - 110	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-573773/22
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			05/03/22 16:34	1

Lab Sample ID: LCS 280-573773/21
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite			5.00	5.09		mg/L		102	90 - 110		

Lab Sample ID: 280-161382-D-2 MS
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite	0.59		4.00	4.62		mg/L		101	90 - 110		

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 280-161382-D-2 MSD
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	0.59		4.00	4.67		mg/L		102	90 - 110	1	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-574005/4
Matrix: Water
Analysis Batch: 574005

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			05/04/22 19:53	1

Lab Sample ID: LCS 280-574005/3
Matrix: Water
Analysis Batch: 574005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	24.8		mg/L		99	88 - 112

Lab Sample ID: 280-161462-B-2 MS
Matrix: Water
Analysis Batch: 574005

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	1.3		25.0	26.1		mg/L		99	88 - 112

Lab Sample ID: 280-161462-B-2 MSD
Matrix: Water
Analysis Batch: 574005

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.3		25.0	26.0		mg/L		99	88 - 112	0	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-574431/1
Matrix: Water
Analysis Batch: 574431

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			05/10/22 12:14	1
Magnesium	0.000				meq/L			05/10/22 12:14	1
Potassium	0.000				meq/L			05/10/22 12:14	1
Sodium	0.000				meq/L			05/10/22 12:14	1
Ammonia as N	0.000				meq/L			05/10/22 12:14	1
Chloride	0.000				meq/L			05/10/22 12:14	1
Sulfate	0.000				meq/L			05/10/22 12:14	1
Alkalinity	0.000				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	0.000				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.000				meq/L			05/10/22 12:14	1
Iron	0.000				meq/L			05/10/22 12:14	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-574081/32
Matrix: Water
Analysis Batch: 574081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			05/05/22 16:09	1

Lab Sample ID: MB 280-574081/58
Matrix: Water
Analysis Batch: 574081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			05/05/22 19:22	1

Lab Sample ID: MB 280-574081/6
Matrix: Water
Analysis Batch: 574081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			05/05/22 13:20	1

Lab Sample ID: 280-161446-A-5 DU
Matrix: Water
Analysis Batch: 574081

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	ND			ND		mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-573282/1
Matrix: Water
Analysis Batch: 573282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/28/22 11:57	1

Lab Sample ID: LCS 280-573282/2
Matrix: Water
Analysis Batch: 573282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			505	491		mg/L		97	88 - 114		

Lab Sample ID: 280-161448-A-3 DU
Matrix: Water
Analysis Batch: 573282

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	ND			ND		mg/L				NC	10

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

GC/MS VOA

Analysis Batch: 573931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-1	TB3	Total/NA	Water	8260B	
MB 280-573931/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573931/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573931/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 573935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Total/NA	Water	8260B	
280-161449-3	MW-14B	Total/NA	Water	8260B	
MB 280-573935/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573935/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573935/5	Lab Control Sample Dup	Total/NA	Water	8260B	
140-27331-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
140-27331-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 574184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-1	TB3	Total/NA	Water	8011	
280-161449-2	MW-14A	Total/NA	Water	8011	
280-161449-3	MW-14B	Total/NA	Water	8011	
MB 280-574184/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-574184/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-574184/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 574190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-1	TB3	Total/NA	Water	8011	574184
280-161449-2	MW-14A	Total/NA	Water	8011	574184
280-161449-3	MW-14B	Total/NA	Water	8011	574184
MB 280-574184/1-A	Method Blank	Total/NA	Water	8011	574184
LCS 280-574184/2-A	Lab Control Sample	Total/NA	Water	8011	574184
LCSD 280-574184/3-A	Lab Control Sample Dup	Total/NA	Water	8011	574184

Metals

Prep Batch: 573718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Dissolved	Water	3005A	
280-161449-3	MW-14B	Dissolved	Water	3005A	
MB 280-573718/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573718/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 574034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Dissolved	Water	6010B	573718
280-161449-3	MW-14B	Dissolved	Water	6010B	573718
MB 280-573718/1-A	Method Blank	Total Recoverable	Water	6010B	573718

Metals

Analysis Batch: 574115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-573718/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573718

General Chemistry

Analysis Batch: 573282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Total/NA	Water	SM 2540C	
280-161449-3	MW-14B	Total/NA	Water	SM 2540C	
MB 280-573282/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-573282/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-161448-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 573773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Total/NA	Water	353.2	
280-161449-3	MW-14B	Total/NA	Water	353.2	
MB 280-573773/22	Method Blank	Total/NA	Water	353.2	
LCS 280-573773/21	Lab Control Sample	Total/NA	Water	353.2	
280-161382-D-2 MS	Matrix Spike	Total/NA	Water	353.2	
280-161382-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 574005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Total/NA	Water	9060	
280-161449-3	MW-14B	Total/NA	Water	9060	
MB 280-574005/4	Method Blank	Total/NA	Water	9060	
LCS 280-574005/3	Lab Control Sample	Total/NA	Water	9060	
280-161462-B-2 MS	Matrix Spike	Total/NA	Water	9060	
280-161462-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 574081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Total/NA	Water	SM 2320B	
280-161449-3	MW-14B	Total/NA	Water	SM 2320B	
MB 280-574081/32	Method Blank	Total/NA	Water	SM 2320B	
MB 280-574081/58	Method Blank	Total/NA	Water	SM 2320B	
MB 280-574081/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-574081/57	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-574081/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-161446-A-5 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 574325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Total/NA	Water	350.1	
280-161449-3	MW-14B	Total/NA	Water	350.1	
MB 280-574325/18	Method Blank	Total/NA	Water	350.1	
LCS 280-574325/17	Lab Control Sample	Total/NA	Water	350.1	
280-161446-C-4 MS	Matrix Spike	Total/NA	Water	350.1	
280-161446-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

General Chemistry

Analysis Batch: 574431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Total/NA	Water	SM 1030E	
280-161449-2	MW-14A	Total/NA	Water	SM 1030E (meq)	
280-161449-3	MW-14B	Total/NA	Water	SM 1030E	
280-161449-3	MW-14B	Total/NA	Water	SM 1030E (meq)	
MB 280-574431/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 625182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Total/NA	Water	300.0	
280-161449-3	MW-14B	Total/NA	Water	300.0	
MB 480-625182/28	Method Blank	Total/NA	Water	300.0	
LCS 480-625182/29	Lab Control Sample	Total/NA	Water	300.0	
280-161448-D-4 MS	Matrix Spike	Total/NA	Water	300.0	
280-161448-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
480-197307-J-1 MS	Matrix Spike	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 572963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161449-2	MW-14A	Total/NA	Water	Field Sampling	
280-161449-3	MW-14B	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

Client Sample ID: TB3

Date Collected: 04/22/22 07:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573931	05/05/22 09:29	TAW	EET DEN
Total/NA	Prep	8011			35.2 mL	35 mL	574184	05/06/22 17:04	KSA	EET DEN
Total/NA	Analysis	8011		1			574190	05/07/22 03:37	KSA	EET DEN

Client Sample ID: MW-14A

Date Collected: 04/22/22 12:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573935	05/05/22 13:52	MD	EET DEN
Total/NA	Prep	8011			35.5 mL	35 mL	574184	05/06/22 17:04	KSA	EET DEN
Total/NA	Analysis	8011		1			574190	05/07/22 04:01	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 12:01	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/10/22 02:38	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 13:51	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 16:54	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	574005	05/04/22 22:24	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			574081	05/05/22 21:16	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573282	04/28/22 12:14	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/22/22 13:00	TJ	EET DEN

Client Sample ID: MW-14B

Date Collected: 04/22/22 12:45
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161449-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573935	05/05/22 14:14	MD	EET DEN
Total/NA	Prep	8011			35 mL	35 mL	574184	05/06/22 17:04	KSA	EET DEN
Total/NA	Analysis	8011		1			574190	05/07/22 04:25	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 12:05	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/10/22 02:57	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 14:08	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 17:08	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	574005	05/04/22 23:09	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			574081	05/05/22 21:04	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573282	04/28/22 12:14	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/22/22 13:45	TJ	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161449-1

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: I. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16511-866.1
Client Contact:	Phone: (503) 7166320	E-Mail: Betsy.Sara@Eurofinset.com		Page:
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Event Desc: Semiannual Compliance Wells - Apr Oct				
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alk	Dissolved Metals	Ammonia/TOC/NO3+NO2	8260B	8011	Cation/Anion Balance	Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	R		N		
TB3	4/22/22	0700	G	W						X	X			5	
MW-14A	4/22/22	1200	G	W	X		X	X	X	X	X	X	X	11	
MW-14B	4/22/22	1245	G	W	X		X	X	X	X	X	X	X	11	

280-161449 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	4/22/22 @ 1630	SCS		4/23/22 1125	ENTACT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 1442296

Cooler Temperature(s) °C and Other Remarks: 1.0, 2.6 IR12 CF +0.1

3/10/2023

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-14A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	(W)	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		**TEMPERATURE:**	(F) 60 .0	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/22/22	11 :24	23 .60	.	13 .32	.	10 .28	X 1	1 .67
/ /	:	.	.	.	.		X 3	5 .01

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/22/22	12 :00	F	3	40 ml HCl	YES	NO		✓
VOA Glass	4/22/22	12 :00	F	3	40 ml $Na_2S_2O_3$	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/22/22	12 :00	F	2	250, 500, 1L None	YES	NO	NA	✓
Yellow Glass	4/22/22	12 :00	F	2	250, 500, 1L H_2SO_4	YES	NO		✓
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	4/22/22	12 :00	F	1	250, 500, 1L HNO_3	YES	YES		✓
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 | 11 | Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH4) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1127)	0.00	5.68	92.5	420.1	10 .6	13.62	3 .66	clear/colorless
1	F(1137)	1 .70	6.05	85.5	341.1	10 .1	13.78	1 .57	clear/colorless
2	F(1147)	3 .40	6.00	90.9	327.8	10 .2	13.81	1 .38	clear/colorless
3	F(1157)	5 .10	6.02	95.9	325.7	10 .2	13.83	1 .39	clear/colorless
4	F(1159)	5 .25	6.02	96.3	325.0	10 .2	13.84	1 .40	clear/colorless
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Standard purge (20/10/20psi) ~ 300 ml/min

SAMPLER: I. Hughust (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-14B
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?					**TEMPERATURE:**	°F 60.0 °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/22/22	12:19	44.00	.	12.80	.	-	X 1	-
/ /	:	.	.	.	.		X 3	-

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/22/22	12:45	F	3 40 ml	HCl	YES	NO		✓
VOA Glass	4/22/22	12:45	F	3 40 ml	$Na_2S_2O_3$	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/22/22	12:45	F	2 250, 500, 1L	None	YES	NO	NA	✓
Yellow Glass	4/22/22	12:45	F	2 250, 500, 1L	H_2SO_4	YES	NO		✓
Red Total Poly	/ /	:			HNO_3	YES	NO		
Red Diss. Poly	4/22/22	12:45	1	1 F,H 250, 500, 1L	HNO_3	YES	YES		✓
White Poly	/ /	:			None	YES	YES		
Clear Poly	/ /	:			$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 | 11 | Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

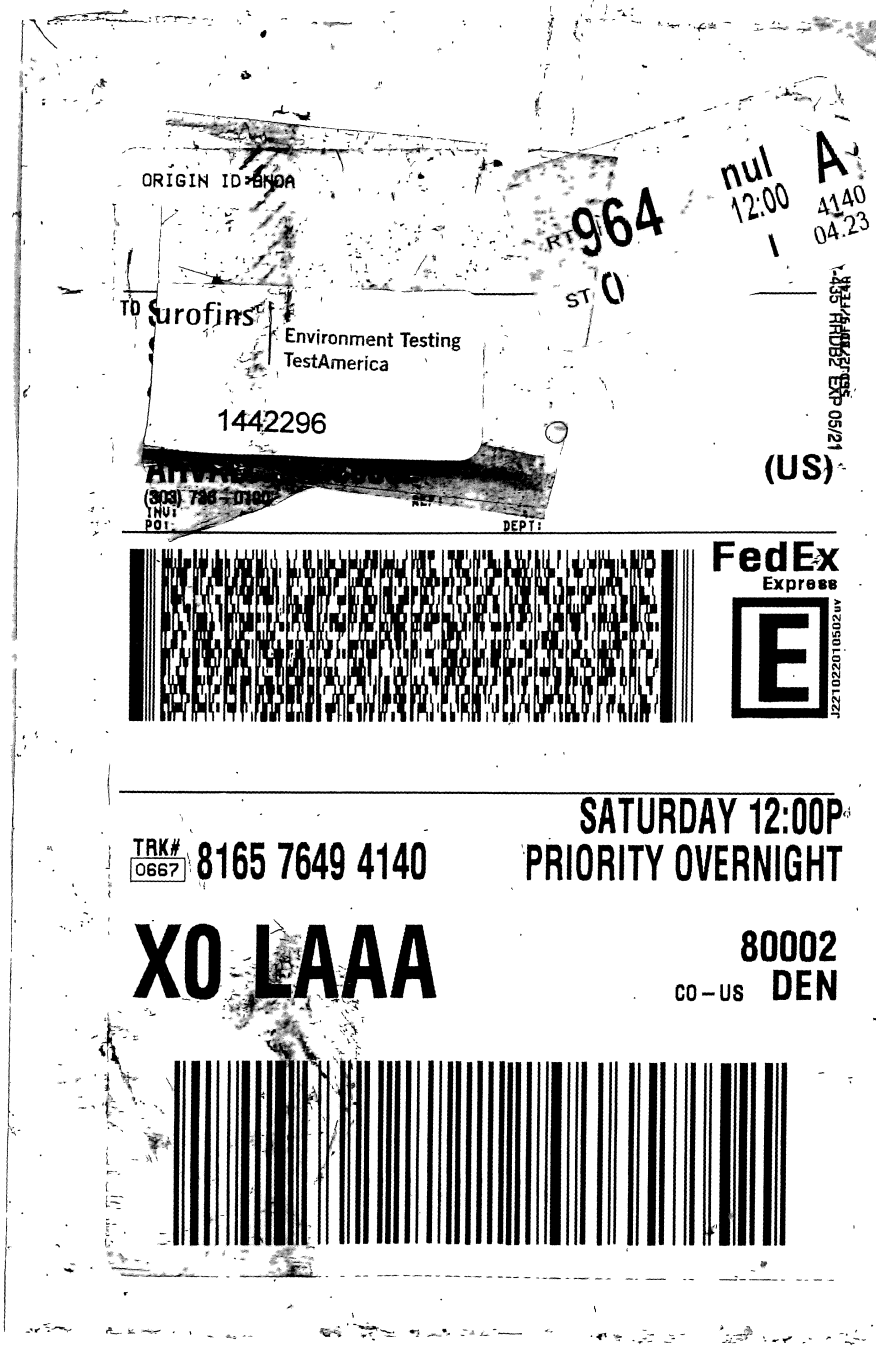
Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1221)	0.00	6.87	111.5	426.6	10.9	12.83	3.65	clear/colorless
1	F(1233)	0.75	7.21	13.8	543.6	10.8	12.83	0.88	clear/colorless
2	F(1235)	0.85	7.21	-5.6	543.5	10.8	12.83	0.89	clear/colorless
3	F(1237)	0.95	7.20	-9.3	543.3	10.8	12.83	0.83	clear/colorless
4	F(1239)	IH 1.05	7.22	-11.4	543.3	10.8	12.83	0.81	clear/colorless
5	F(1241)	1.15	7.22	-16.3	543.5	10.9	12.83	0.80	clear/colorless
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low flow purge method (20/10/20,ii) ~250ml/min

SAMPLER: I. Hultquist (PRINTED NAME) (SIGNATURE)

280-161449 Waybill



ORIGIN ID:BNOA

SHIP DATE: 22APR22
ACTWGT: 49.15 LB
CAD: /SSFE2300
DIMS: 22x14x13 IN

Part # 156297-435-FAMIS EXP 05/21

TO SAMPLE RECEIVING
EUROPHINS TEST AMERICA
4955 YARROW ST

2 of 2

ARVADA CO 80002 (US)
(303) 736-0100
INV:
PO:
REF:
DEPT:

FedEx Express

J221022010502aa

TRK# 0667 8165 7649 4130

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO LAAA

80002
CO-US DEN

RT 964 nul A
ST 0 12:00
1 4130
04,23

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-611880.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-161449-1
Address: 10 Hazelwood Drive,	Due Date Requested: 5/12/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-14A (280-161449-2)	4/22/22	12:00 Pacific		Water			X	1	
MW-14B (280-161449-3)	4/22/22	12:45 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 4/26/22 1530	Company ETADSN	Received by: [signature]
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.7 #1 ICE

Date/Time:	Company
4/27/22 1000	TA

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161449-1

Login Number: 161449
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to job narrative for details
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161449-1

Login Number: 161449
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 04/29/22 04:41 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7 IR GUN #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Spring 2022

Detection Groundwater

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Generated 3/10/2023 2:46:55 PM

JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Detection Wells - Apr Oct

JOB NUMBER

280-161462-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

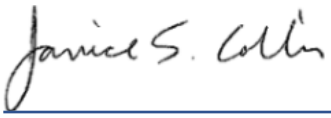
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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3/10/2023 2:46:55 PM

Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-161462-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-161462-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 04/25/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 3.2°C and 7.5°C. The cooler temperature was above the recommended temperature of 6.0 C. The client was notified and requested to proceed with all analyses.

Holding Times

All holding times were met.

Method Blanks

Dissolved Iron Method 6010B was detected in the Method Blank below the project established reporting limit. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits.

All Method Blanks met method criteria.

Laboratory Control Samples (LCS)

All Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) for Method 8260B, however, an LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

All other MS and MSD results were within established control limits.

General Chemistry

The Continuing Calibration Blank (CCB) was outside control limits for Bicarbonate Alkalinity during Method 2320B analysis. Because the associated samples exhibited detections of Total Alkalinity and Bicarbonate Alkalinity greater than ten times the CCB result, corrective action was deemed unnecessary.

General Comments

Job ID: 280-161462-1 (Continued)

Laboratory: Eurofins Denver (Continued)

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

The analysis for Chloride and Sulfate Method 300.0 was performed by TestAmerica Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
Phone: 716-691-2600

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161462-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-161462-1

No Detections.

Client Sample ID: MW-20A — Lab Sample ID: 280-161462-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	91000		500		ug/L	1		6010B	Dissolved
Iron	1800	B	30		ug/L	1		6010B	Dissolved
Magnesium	33000		200		ug/L	1		6010B	Dissolved
Manganese	2100		3.0		ug/L	1		6010B	Dissolved
Sodium	33000		1000		ug/L	1		6010B	Dissolved
Chloride	180		0.50		mg/L	1		300.0	Total/NA
Sulfate	6.0		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.22		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	1.3		1.0		mg/L	1		9060	Total/NA
Total Anions	9.0				meq/L	1		SM 1030E	Total/NA
Total Cations	8.8				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.1				%	1		SM 1030E	Total/NA
Calcium	91				mg/L	1		SM 1030E	Total/NA
Magnesium	33				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	33				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.22				mg/L	1		SM 1030E	Total/NA
Chloride	180				mg/L	1		SM 1030E	Total/NA
Sulfate	6.0				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	190				mg/L	1		SM 1030E	Total/NA
Alkalinity	190				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.1				%	1		SM 1030E	Total/NA
Calculated TDS	450				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	510				mg/L	1		SM 1030E	Total/NA
Iron	1.8				mg/L	1		SM 1030E	Total/NA
Calcium	4.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	2.7				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.4				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.016				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	5.1				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.12				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	190				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	3.8				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.097				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	190		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	510		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.64				SU	1		Field Sampling	Total/NA
Field Conductivity	1017				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.5				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.35				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-3.8				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161462-1

Client Sample ID: MW-20B

Lab Sample ID: 280-161462-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	64000		500		ug/L	1		6010B	Dissolved
Magnesium	22000		200		ug/L	1		6010B	Dissolved
Manganese	230		3.0		ug/L	1		6010B	Dissolved
Sodium	30000		1000		ug/L	1		6010B	Dissolved
Chloride	66		0.50		mg/L	1		300.0	Total/NA
Sulfate	1.2		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.11		0.030		mg/L	1		350.1	Total/NA
Total Anions	6.5				meq/L	1		SM 1030E	Total/NA
Total Cations	6.3				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.3				%	1		SM 1030E	Total/NA
Calcium	64				mg/L	1		SM 1030E	Total/NA
Magnesium	22				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	30				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.11				mg/L	1		SM 1030E	Total/NA
Chloride	66				mg/L	1		SM 1030E	Total/NA
Sulfate	1.2				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	230				mg/L	1		SM 1030E	Total/NA
Alkalinity	230				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.3				%	1		SM 1030E	Total/NA
Calculated TDS	320				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	340				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	3.2				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.8				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.3				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.0079				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	1.9				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.025				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	230				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	4.6				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	220	^2	10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	340		10		mg/L	1		SM 2540C	Total/NA
Field pH	7.05				SU	1		Field Sampling	Total/NA
Field Conductivity	651.4				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.8				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.50				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	131.7				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-161462-1	TRIP BLANK	Water	04/19/22 07:00	04/25/22 08:50
280-161462-2	MW-20A	Water	04/19/22 10:30	04/25/22 08:50
280-161462-3	MW-20B	Water	04/19/22 09:15	04/25/22 08:50

Method Summary

Client: Waste Management
Job ID: 280-161462-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161462-1

Client Sample ID: TRIP BLANK
Date Collected: 04/19/22 07:00
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161462-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/01/22 11:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/01/22 11:17	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/01/22 11:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/01/22 11:17	1
1,1-Dichloroethane	ND		1.0		ug/L			05/01/22 11:17	1
1,1-Dichloroethene	ND		1.0		ug/L			05/01/22 11:17	1
1,1-Dichloropropene	ND		1.0		ug/L			05/01/22 11:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/01/22 11:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/01/22 11:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/01/22 11:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/01/22 11:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/01/22 11:17	1
1,2-Dichloroethane	ND		1.0		ug/L			05/01/22 11:17	1
1,2-Dichloropropane	ND		1.0		ug/L			05/01/22 11:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/01/22 11:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/01/22 11:17	1
1,3-Dichloropropane	ND		1.0		ug/L			05/01/22 11:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/01/22 11:17	1
2,2-Dichloropropane	ND		5.0		ug/L			05/01/22 11:17	1
2-Butanone (MEK)	ND		6.0		ug/L			05/01/22 11:17	1
2-Chlorotoluene	ND		1.0		ug/L			05/01/22 11:17	1
2-Hexanone	ND		5.0		ug/L			05/01/22 11:17	1
4-Chlorotoluene	ND		1.0		ug/L			05/01/22 11:17	1
4-Isopropyltoluene	ND		1.0		ug/L			05/01/22 11:17	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/01/22 11:17	1
Acetone	ND		10		ug/L			05/01/22 11:17	1
Benzene	ND		1.0		ug/L			05/01/22 11:17	1
Bromobenzene	ND		1.0		ug/L			05/01/22 11:17	1
Bromochloromethane	ND		1.0		ug/L			05/01/22 11:17	1
Bromodichloromethane	ND		1.0		ug/L			05/01/22 11:17	1
Bromoform	ND		1.0		ug/L			05/01/22 11:17	1
Bromomethane	ND		2.0		ug/L			05/01/22 11:17	1
Carbon disulfide	ND		2.0		ug/L			05/01/22 11:17	1
Carbon tetrachloride	ND		1.0		ug/L			05/01/22 11:17	1
Chlorobenzene	ND		1.0		ug/L			05/01/22 11:17	1
Chloroethane	ND		2.0		ug/L			05/01/22 11:17	1
Chloroform	ND		1.0		ug/L			05/01/22 11:17	1
Chloromethane	ND		2.0		ug/L			05/01/22 11:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/01/22 11:17	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/01/22 11:17	1
Dibromochloromethane	ND		1.0		ug/L			05/01/22 11:17	1
Dibromomethane	ND		1.0		ug/L			05/01/22 11:17	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/01/22 11:17	1
Ethylbenzene	ND		1.0		ug/L			05/01/22 11:17	1
Hexachlorobutadiene	ND		1.0		ug/L			05/01/22 11:17	1
Isopropylbenzene	ND		1.0		ug/L			05/01/22 11:17	1
Methylene Chloride	ND		5.0		ug/L			05/01/22 11:17	1
Naphthalene	ND		1.0		ug/L			05/01/22 11:17	1
n-Butylbenzene	ND		1.0		ug/L			05/01/22 11:17	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-161462-1

Date Collected: 04/19/22 07:00

Matrix: Water

Date Received: 04/25/22 08:50

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			05/01/22 11:17	1
sec-Butylbenzene	ND		1.0		ug/L			05/01/22 11:17	1
Styrene	ND		1.0		ug/L			05/01/22 11:17	1
tert-Butylbenzene	ND		1.0		ug/L			05/01/22 11:17	1
Tetrachloroethene	ND		1.0		ug/L			05/01/22 11:17	1
Toluene	ND		1.0		ug/L			05/01/22 11:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/01/22 11:17	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/01/22 11:17	1
Trichloroethene	ND		1.0		ug/L			05/01/22 11:17	1
Trichlorofluoromethane	ND		2.0		ug/L			05/01/22 11:17	1
Vinyl chloride	ND		1.0		ug/L			05/01/22 11:17	1
Xylenes (total)	ND		2.0		ug/L			05/01/22 11:17	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/01/22 11:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*05/01/22 11:17*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*05/01/22 11:17*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*05/01/22 11:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*05/01/22 11:17*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		04/28/22 16:41	04/29/22 06:53	1
1,2-Dibromoethane	ND		0.050		ug/L		04/28/22 16:41	04/29/22 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*101*		*70 - 130*	*04/28/22 16:41*	*04/29/22 06:53*	*1*

Client Sample ID: MW-20A

Lab Sample ID: 280-161462-2

Date Collected: 04/19/22 10:30

Matrix: Water

Date Received: 04/25/22 08:50

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/01/22 12:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/01/22 12:42	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/01/22 12:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/01/22 12:42	1
1,1-Dichloroethane	ND		1.0		ug/L			05/01/22 12:42	1
1,1-Dichloroethene	ND		1.0		ug/L			05/01/22 12:42	1
1,1-Dichloropropene	ND		1.0		ug/L			05/01/22 12:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/01/22 12:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/01/22 12:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/01/22 12:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/01/22 12:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/01/22 12:42	1
1,2-Dichloroethane	ND		1.0		ug/L			05/01/22 12:42	1
1,2-Dichloropropane	ND		1.0		ug/L			05/01/22 12:42	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/01/22 12:42	1

Client Sample ID: MW-20A
Date Collected: 04/19/22 10:30
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161462-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			05/01/22 12:42	1
1,3-Dichloropropane	ND		1.0		ug/L			05/01/22 12:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/01/22 12:42	1
2,2-Dichloropropane	ND		5.0		ug/L			05/01/22 12:42	1
2-Butanone (MEK)	ND		6.0		ug/L			05/01/22 12:42	1
2-Chlorotoluene	ND		1.0		ug/L			05/01/22 12:42	1
2-Hexanone	ND		5.0		ug/L			05/01/22 12:42	1
4-Chlorotoluene	ND		1.0		ug/L			05/01/22 12:42	1
4-Isopropyltoluene	ND		1.0		ug/L			05/01/22 12:42	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/01/22 12:42	1
Acetone	ND		10		ug/L			05/01/22 12:42	1
Benzene	ND		1.0		ug/L			05/01/22 12:42	1
Bromobenzene	ND		1.0		ug/L			05/01/22 12:42	1
Bromochloromethane	ND		1.0		ug/L			05/01/22 12:42	1
Bromodichloromethane	ND		1.0		ug/L			05/01/22 12:42	1
Bromoform	ND		1.0		ug/L			05/01/22 12:42	1
Bromomethane	ND		2.0		ug/L			05/01/22 12:42	1
Carbon disulfide	ND		2.0		ug/L			05/01/22 12:42	1
Carbon tetrachloride	ND		1.0		ug/L			05/01/22 12:42	1
Chlorobenzene	ND		1.0		ug/L			05/01/22 12:42	1
Chloroethane	ND		2.0		ug/L			05/01/22 12:42	1
Chloroform	ND		1.0		ug/L			05/01/22 12:42	1
Chloromethane	ND		2.0		ug/L			05/01/22 12:42	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/01/22 12:42	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/01/22 12:42	1
Dibromochloromethane	ND		1.0		ug/L			05/01/22 12:42	1
Dibromomethane	ND		1.0		ug/L			05/01/22 12:42	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/01/22 12:42	1
Ethylbenzene	ND		1.0		ug/L			05/01/22 12:42	1
Hexachlorobutadiene	ND		1.0		ug/L			05/01/22 12:42	1
Isopropylbenzene	ND		1.0		ug/L			05/01/22 12:42	1
Methylene Chloride	ND		5.0		ug/L			05/01/22 12:42	1
Naphthalene	ND		1.0		ug/L			05/01/22 12:42	1
n-Butylbenzene	ND		1.0		ug/L			05/01/22 12:42	1
N-Propylbenzene	ND		1.0		ug/L			05/01/22 12:42	1
sec-Butylbenzene	ND		1.0		ug/L			05/01/22 12:42	1
Styrene	ND		1.0		ug/L			05/01/22 12:42	1
tert-Butylbenzene	ND		1.0		ug/L			05/01/22 12:42	1
Tetrachloroethene	ND		1.0		ug/L			05/01/22 12:42	1
Toluene	ND		1.0		ug/L			05/01/22 12:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/01/22 12:42	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/01/22 12:42	1
Trichloroethene	ND		1.0		ug/L			05/01/22 12:42	1
Trichlorofluoromethane	ND		2.0		ug/L			05/01/22 12:42	1
Vinyl chloride	ND		1.0		ug/L			05/01/22 12:42	1
Xylenes (total)	ND		2.0		ug/L			05/01/22 12:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/01/22 12:42*	*1*

Client Sample ID: MW-20A

Date Collected: 04/19/22 10:30
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161462-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*05/01/22 12:42*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*05/01/22 12:42*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 120*		*05/01/22 12:42*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*05/01/22 12:42*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		04/28/22 16:41	04/29/22 07:17	1
1,2-Dibromoethane	ND		0.050		ug/L		04/28/22 16:41	04/29/22 07:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*104*		*70 - 130*	*04/28/22 16:41*	*04/29/22 07:17*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**91000**		500		ug/L		05/05/22 09:44	05/06/22 04:04	1
Iron	**1800**	**B**	30		ug/L		05/05/22 09:44	05/06/22 04:04	1
Magnesium	**33000**		200		ug/L		05/05/22 09:44	05/06/22 04:04	1
Manganese	**2100**		3.0		ug/L		05/05/22 09:44	05/06/22 04:04	1
Potassium	ND		500		ug/L		05/05/22 09:44	05/06/22 04:04	1
Sodium	**33000**		1000		ug/L		05/05/22 09:44	05/06/22 04:04	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**9.0**				meq/L			05/10/22 12:17	1
Total Cations (SM 1030E)	**8.8**				meq/L			05/10/22 12:17	1
Percent Difference (SM 1030E)	**-1.1**				%			05/10/22 12:17	1
Calcium (SM 1030E)	**91**				mg/L			05/10/22 12:17	1
Magnesium (SM 1030E)	**33**				mg/L			05/10/22 12:17	1
Potassium (SM 1030E)	**0.00**				mg/L			05/10/22 12:17	1
Sodium (SM 1030E)	**33**				mg/L			05/10/22 12:17	1
Ammonia as N (SM 1030E)	**0.22**				mg/L			05/10/22 12:17	1
Chloride (SM 1030E)	**180**				mg/L			05/10/22 12:17	1
Sulfate (SM 1030E)	**6.0**				mg/L			05/10/22 12:17	1
Bicarbonate Alkalinity (SM 1030E)	**190**				mg/L			05/10/22 12:17	1
Alkalinity (SM 1030E)	**190**				mg/L			05/10/22 12:17	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			05/10/22 12:17	1
Anion/Cation Balance (SM 1030E)	**-1.1**				%			05/10/22 12:17	1
Calculated TDS (SM 1030E)	**450**				mg/L			05/10/22 12:17	1
TDS Ratio (SM 1030E)	**1.1**				NONE			05/10/22 12:17	1
Total Dissolved Solids (SM 1030E)	**510**				mg/L			05/10/22 12:17	1
Iron (SM 1030E)	**1.8**				mg/L			05/10/22 12:17	1
Calcium (SM 1030E (meq))	**4.5**				meq/L			05/10/22 12:17	1
Magnesium (SM 1030E (meq))	**2.7**				meq/L			05/10/22 12:17	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:17	1
Sodium (SM 1030E (meq))	**1.4**				meq/L			05/10/22 12:17	1
Ammonia as N (SM 1030E (meq))	**0.016**				meq/L			05/10/22 12:17	1
Chloride (SM 1030E (meq))	**5.1**				meq/L			05/10/22 12:17	1
Sulfate (SM 1030E (meq))	**0.12**				meq/L			05/10/22 12:17	1
Alkalinity (SM 1030E (meq))	**190**				mg/L			05/10/22 12:17	1

Client Sample ID: MW-20A

Date Collected: 04/19/22 10:30
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161462-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E (meq))	3.8				meq/L			05/10/22 12:17	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			05/10/22 12:17	1
Iron (SM 1030E (meq))	0.097				meq/L			05/10/22 12:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	180		0.50		mg/L			05/10/22 03:17	1
Sulfate (EPA 300.0)	6.0		1.0		mg/L			05/10/22 03:17	1
Ammonia as N (EPA 350.1)	0.22		0.030		mg/L			05/09/22 14:16	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/04/22 19:08	1
Total Organic Carbon - Average (SW846 9060)	1.3		1.0		mg/L			05/04/22 20:21	1
Bicarbonate Alkalinity (SM 2320B)	190		10		mg/L			04/28/22 21:17	1
Total Dissolved Solids (SM 2540C)	510		10		mg/L			04/26/22 08:45	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.64				SU			04/19/22 11:30	1
Field Conductivity	1017				umhos/cm			04/19/22 11:30	1
Field Temperature	10.5				Degrees C			04/19/22 11:30	1
Field Dissolved Oxygen	0.35				mg/L			04/19/22 11:30	1
Field EH/ORP	-3.8				millivolts			04/19/22 11:30	1

Client Sample ID: MW-20B

Date Collected: 04/19/22 09:15
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161462-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/01/22 13:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/01/22 13:04	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/01/22 13:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/01/22 13:04	1
1,1-Dichloroethane	ND		1.0		ug/L			05/01/22 13:04	1
1,1-Dichloroethene	ND		1.0		ug/L			05/01/22 13:04	1
1,1-Dichloropropene	ND		1.0		ug/L			05/01/22 13:04	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/01/22 13:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/01/22 13:04	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/01/22 13:04	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/01/22 13:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/01/22 13:04	1
1,2-Dichloroethane	ND		1.0		ug/L			05/01/22 13:04	1
1,2-Dichloropropane	ND		1.0		ug/L			05/01/22 13:04	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/01/22 13:04	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/01/22 13:04	1
1,3-Dichloropropane	ND		1.0		ug/L			05/01/22 13:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/01/22 13:04	1
2,2-Dichloropropane	ND		5.0		ug/L			05/01/22 13:04	1
2-Butanone (MEK)	ND		6.0		ug/L			05/01/22 13:04	1
2-Chlorotoluene	ND		1.0		ug/L			05/01/22 13:04	1
2-Hexanone	ND		5.0		ug/L			05/01/22 13:04	1

Client Sample ID: MW-20B
Date Collected: 04/19/22 09:15
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161462-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0		ug/L			05/01/22 13:04	1
4-Isopropyltoluene	ND		1.0		ug/L			05/01/22 13:04	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/01/22 13:04	1
Acetone	ND		10		ug/L			05/01/22 13:04	1
Benzene	ND		1.0		ug/L			05/01/22 13:04	1
Bromobenzene	ND		1.0		ug/L			05/01/22 13:04	1
Bromochloromethane	ND		1.0		ug/L			05/01/22 13:04	1
Bromodichloromethane	ND		1.0		ug/L			05/01/22 13:04	1
Bromoform	ND		1.0		ug/L			05/01/22 13:04	1
Bromomethane	ND		2.0		ug/L			05/01/22 13:04	1
Carbon disulfide	ND		2.0		ug/L			05/01/22 13:04	1
Carbon tetrachloride	ND		1.0		ug/L			05/01/22 13:04	1
Chlorobenzene	ND		1.0		ug/L			05/01/22 13:04	1
Chloroethane	ND		2.0		ug/L			05/01/22 13:04	1
Chloroform	ND		1.0		ug/L			05/01/22 13:04	1
Chloromethane	ND		2.0		ug/L			05/01/22 13:04	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/01/22 13:04	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/01/22 13:04	1
Dibromochloromethane	ND		1.0		ug/L			05/01/22 13:04	1
Dibromomethane	ND		1.0		ug/L			05/01/22 13:04	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/01/22 13:04	1
Ethylbenzene	ND		1.0		ug/L			05/01/22 13:04	1
Hexachlorobutadiene	ND		1.0		ug/L			05/01/22 13:04	1
Isopropylbenzene	ND		1.0		ug/L			05/01/22 13:04	1
Methylene Chloride	ND		5.0		ug/L			05/01/22 13:04	1
Naphthalene	ND		1.0		ug/L			05/01/22 13:04	1
n-Butylbenzene	ND		1.0		ug/L			05/01/22 13:04	1
N-Propylbenzene	ND		1.0		ug/L			05/01/22 13:04	1
sec-Butylbenzene	ND		1.0		ug/L			05/01/22 13:04	1
Styrene	ND		1.0		ug/L			05/01/22 13:04	1
tert-Butylbenzene	ND		1.0		ug/L			05/01/22 13:04	1
Tetrachloroethene	ND		1.0		ug/L			05/01/22 13:04	1
Toluene	ND		1.0		ug/L			05/01/22 13:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/01/22 13:04	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/01/22 13:04	1
Trichloroethene	ND		1.0		ug/L			05/01/22 13:04	1
Trichlorofluoromethane	ND		2.0		ug/L			05/01/22 13:04	1
Vinyl chloride	ND		1.0		ug/L			05/01/22 13:04	1
Xylenes (total)	ND		2.0		ug/L			05/01/22 13:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/01/22 13:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*		*05/01/22 13:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/01/22 13:04*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 120*		*05/01/22 13:04*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*05/01/22 13:04*	*1*

Client Sample ID: MW-20B

Date Collected: 04/19/22 09:15
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161462-3

Matrix: Water

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		04/28/22 16:41	04/29/22 07:41	1
1,2-Dibromoethane	ND		0.050		ug/L		04/28/22 16:41	04/29/22 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*109*		*70 - 130*	*04/28/22 16:41*	*04/29/22 07:41*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**64000**		500		ug/L		05/05/22 09:44	05/06/22 04:08	1
Iron	ND		30		ug/L		05/05/22 09:44	05/06/22 04:08	1
Magnesium	**22000**		200		ug/L		05/05/22 09:44	05/06/22 04:08	1
Manganese	**230**		3.0		ug/L		05/05/22 09:44	05/06/22 04:08	1
Potassium	ND		500		ug/L		05/05/22 09:44	05/06/22 04:08	1
Sodium	**30000**		1000		ug/L		05/05/22 09:44	05/06/22 04:08	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**6.5**				meq/L			05/10/22 12:17	1
Total Cations (SM 1030E)	**6.3**				meq/L			05/10/22 12:17	1
Percent Difference (SM 1030E)	**-1.3**				%			05/10/22 12:17	1
Calcium (SM 1030E)	**64**				mg/L			05/10/22 12:17	1
Magnesium (SM 1030E)	**22**				mg/L			05/10/22 12:17	1
Potassium (SM 1030E)	**0.00**				mg/L			05/10/22 12:17	1
Sodium (SM 1030E)	**30**				mg/L			05/10/22 12:17	1
Ammonia as N (SM 1030E)	**0.11**				mg/L			05/10/22 12:17	1
Chloride (SM 1030E)	**66**				mg/L			05/10/22 12:17	1
Sulfate (SM 1030E)	**1.2**				mg/L			05/10/22 12:17	1
Bicarbonate Alkalinity (SM 1030E)	**230**				mg/L			05/10/22 12:17	1
Alkalinity (SM 1030E)	**230**				mg/L			05/10/22 12:17	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			05/10/22 12:17	1
Anion/Cation Balance (SM 1030E)	**-1.3**				%			05/10/22 12:17	1
Calculated TDS (SM 1030E)	**320**				mg/L			05/10/22 12:17	1
TDS Ratio (SM 1030E)	**1.1**				NONE			05/10/22 12:17	1
Total Dissolved Solids (SM 1030E)	**340**				mg/L			05/10/22 12:17	1
Iron (SM 1030E)	**0.00**				mg/L			05/10/22 12:17	1
Calcium (SM 1030E (meq))	**3.2**				meq/L			05/10/22 12:17	1
Magnesium (SM 1030E (meq))	**1.8**				meq/L			05/10/22 12:17	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:17	1
Sodium (SM 1030E (meq))	**1.3**				meq/L			05/10/22 12:17	1
Ammonia as N (SM 1030E (meq))	**0.0079**				meq/L			05/10/22 12:17	1
Chloride (SM 1030E (meq))	**1.9**				meq/L			05/10/22 12:17	1
Sulfate (SM 1030E (meq))	**0.025**				meq/L			05/10/22 12:17	1
Alkalinity (SM 1030E (meq))	**230**				mg/L			05/10/22 12:17	1
Bicarbonate Alkalinity (SM 1030E (meq))	**4.6**				meq/L			05/10/22 12:17	1
Nitrate/Nitrite (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:17	1
Iron (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**66**		0.50		mg/L			05/10/22 20:46	1
Sulfate (EPA 300.0)	**1.2**		1.0		mg/L			05/10/22 03:37	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161462-1

Client Sample ID: MW-20B
Date Collected: 04/19/22 09:15
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161462-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**0.11**		0.030		mg/L			05/09/22 14:26	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/04/22 19:10	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			05/04/22 21:08	1
Bicarbonate Alkalinity (SM 2320B)	**220**	**^2**	10		mg/L			04/28/22 22:07	1
Total Dissolved Solids (SM 2540C)	**340**		10		mg/L			04/26/22 08:45	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.05**				SU			04/19/22 10:15	1
Field Conductivity	**651.4**				umhos/cm			04/19/22 10:15	1
Field Temperature	**10.8**				Degrees C			04/19/22 10:15	1
Field Dissolved Oxygen	**0.50**				mg/L			04/19/22 10:15	1
Field EH/ORP	**131.7**				millivolts			04/19/22 10:15	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161462-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-161462-1	TRIP BLANK	103	98	101	100
280-161462-2	MW-20A	98	98	110	98
280-161462-3	MW-20B	96	97	91	102
LCS 280-573498/1002	Lab Control Sample	104	98	101	100
LCSD 280-573498/5	Lab Control Sample Dup	95	98	93	101
MB 280-573498/9	Method Blank	103	98	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-161462-1	TRIP BLANK	101
280-161462-2	MW-20A	104
280-161462-3	MW-20B	109
LCS 280-573322/2-A	Lab Control Sample	112
LCSD 280-573322/3-A	Lab Control Sample Dup	114
MB 280-573322/1-A	Method Blank	112

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-573498/9
Matrix: Water
Analysis Batch: 573498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/01/22 10:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/01/22 10:55	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/01/22 10:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/01/22 10:55	1
1,1-Dichloroethane	ND		1.0		ug/L			05/01/22 10:55	1
1,1-Dichloroethene	ND		1.0		ug/L			05/01/22 10:55	1
1,1-Dichloropropene	ND		1.0		ug/L			05/01/22 10:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/01/22 10:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/01/22 10:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/01/22 10:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/01/22 10:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/01/22 10:55	1
1,2-Dichloroethane	ND		1.0		ug/L			05/01/22 10:55	1
1,2-Dichloropropane	ND		1.0		ug/L			05/01/22 10:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/01/22 10:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/01/22 10:55	1
1,3-Dichloropropane	ND		1.0		ug/L			05/01/22 10:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/01/22 10:55	1
2,2-Dichloropropane	ND		5.0		ug/L			05/01/22 10:55	1
2-Butanone (MEK)	ND		6.0		ug/L			05/01/22 10:55	1
2-Chlorotoluene	ND		1.0		ug/L			05/01/22 10:55	1
2-Hexanone	ND		5.0		ug/L			05/01/22 10:55	1
4-Chlorotoluene	ND		1.0		ug/L			05/01/22 10:55	1
4-Isopropyltoluene	ND		1.0		ug/L			05/01/22 10:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/01/22 10:55	1
Acetone	ND		10		ug/L			05/01/22 10:55	1
Benzene	ND		1.0		ug/L			05/01/22 10:55	1
Bromobenzene	ND		1.0		ug/L			05/01/22 10:55	1
Bromochloromethane	ND		1.0		ug/L			05/01/22 10:55	1
Bromodichloromethane	ND		1.0		ug/L			05/01/22 10:55	1
Bromoform	ND		1.0		ug/L			05/01/22 10:55	1
Bromomethane	ND		2.0		ug/L			05/01/22 10:55	1
Carbon disulfide	ND		2.0		ug/L			05/01/22 10:55	1
Carbon tetrachloride	ND		1.0		ug/L			05/01/22 10:55	1
Chlorobenzene	ND		1.0		ug/L			05/01/22 10:55	1
Chloroethane	ND		2.0		ug/L			05/01/22 10:55	1
Chloroform	ND		1.0		ug/L			05/01/22 10:55	1
Chloromethane	ND		2.0		ug/L			05/01/22 10:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/01/22 10:55	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/01/22 10:55	1
Dibromochloromethane	ND		1.0		ug/L			05/01/22 10:55	1
Dibromomethane	ND		1.0		ug/L			05/01/22 10:55	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/01/22 10:55	1
Ethylbenzene	ND		1.0		ug/L			05/01/22 10:55	1
Hexachlorobutadiene	ND		1.0		ug/L			05/01/22 10:55	1
Isopropylbenzene	ND		1.0		ug/L			05/01/22 10:55	1
Methylene Chloride	ND		5.0		ug/L			05/01/22 10:55	1
Naphthalene	ND		1.0		ug/L			05/01/22 10:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573498/9
Matrix: Water
Analysis Batch: 573498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			05/01/22 10:55	1
N-Propylbenzene	ND		1.0		ug/L			05/01/22 10:55	1
sec-Butylbenzene	ND		1.0		ug/L			05/01/22 10:55	1
Styrene	ND		1.0		ug/L			05/01/22 10:55	1
tert-Butylbenzene	ND		1.0		ug/L			05/01/22 10:55	1
Tetrachloroethene	ND		1.0		ug/L			05/01/22 10:55	1
Toluene	ND		1.0		ug/L			05/01/22 10:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/01/22 10:55	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/01/22 10:55	1
Trichloroethene	ND		1.0		ug/L			05/01/22 10:55	1
Trichlorofluoromethane	ND		2.0		ug/L			05/01/22 10:55	1
Vinyl chloride	ND		1.0		ug/L			05/01/22 10:55	1
Xylenes (total)	ND		2.0		ug/L			05/01/22 10:55	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/01/22 10:55*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*05/01/22 10:55*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*05/01/22 10:55*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*05/01/22 10:55*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*05/01/22 10:55*	*1*

Lab Sample ID: LCS 280-573498/1002
Matrix: Water
Analysis Batch: 573498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	74 - 121
1,1,1-Trichloroethane	25.0	27.8		ug/L		111	62 - 132
1,1,2,2-Tetrachloroethane	25.0	27.1		ug/L		109	72 - 122
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	72 - 128
1,1-Dichloroethane	25.0	26.6		ug/L		106	66 - 130
1,1-Dichloroethene	25.0	27.1		ug/L		108	62 - 130
1,1-Dichloropropene	25.0	27.6		ug/L		110	64 - 133
1,2,3-Trichlorobenzene	25.0	20.4		ug/L		82	70 - 127
1,2,3-Trichloropropane	25.0	26.9		ug/L		107	74 - 123
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	73 - 124
1,2,4-Trimethylbenzene	25.0	27.2		ug/L		109	74 - 124
1,2-Dichlorobenzene	25.0	28.2		ug/L		113	77 - 121
1,2-Dichloroethane	25.0	28.8		ug/L		115	61 - 130
1,2-Dichloropropane	25.0	27.1		ug/L		108	68 - 127
1,3,5-Trimethylbenzene	25.0	27.2		ug/L		109	73 - 127
1,3-Dichlorobenzene	25.0	28.2		ug/L		113	76 - 121
1,3-Dichloropropane	25.0	28.0		ug/L		112	80 - 118
1,4-Dichlorobenzene	25.0	28.0		ug/L		112	76 - 119
2,2-Dichloropropane	25.0	27.4		ug/L		109	57 - 140
2-Butanone (MEK)	100	92.1		ug/L		92	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573498/1002
Matrix: Water
Analysis Batch: 573498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	25.0	27.3		ug/L		109	75 - 123
2-Hexanone	100	97.7		ug/L		98	58 - 134
4-Chlorotoluene	25.0	26.5		ug/L		106	74 - 124
4-Isopropyltoluene	25.0	27.2		ug/L		109	74 - 127
4-Methyl-2-pentanone	100	79.4		ug/L		79	56 - 135
Acetone	100	90.6		ug/L		91	50 - 137
Benzene	25.0	26.2		ug/L		105	69 - 126
Bromobenzene	25.0	27.8		ug/L		111	75 - 122
Bromochloromethane	25.0	25.0		ug/L		100	71 - 130
Bromodichloromethane	25.0	26.6		ug/L		107	67 - 126
Bromoform	25.0	24.2		ug/L		97	57 - 125
Bromomethane	25.0	20.1		ug/L		80	25 - 163
Carbon disulfide	25.0	27.1		ug/L		108	56 - 128
Carbon tetrachloride	25.0	26.5		ug/L		106	60 - 133
Chlorobenzene	25.0	27.6		ug/L		111	78 - 118
Chloroethane	25.0	34.2		ug/L		137	52 - 144
Chloroform	25.0	27.5		ug/L		110	68 - 128
Chloromethane	25.0	26.7		ug/L		107	43 - 142
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	69 - 126
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	75 - 120
Dibromochloromethane	25.0	26.6		ug/L		106	71 - 122
Dibromomethane	25.0	26.2		ug/L		105	68 - 129
Dichlorodifluoromethane	25.0	29.3		ug/L		117	26 - 152
Ethylbenzene	25.0	26.7		ug/L		107	76 - 121
Hexachlorobutadiene	25.0	24.7		ug/L		99	69 - 133
Isopropylbenzene	25.0	27.3		ug/L		109	70 - 127
Methylene Chloride	25.0	27.7		ug/L		111	64 - 128
Naphthalene	25.0	19.4		ug/L		78	63 - 129
n-Butylbenzene	25.0	26.8		ug/L		107	69 - 130
N-Propylbenzene	25.0	27.0		ug/L		108	73 - 127
sec-Butylbenzene	25.0	26.8		ug/L		107	72 - 127
Styrene	25.0	26.4		ug/L		106	79 - 120
tert-Butylbenzene	25.0	23.0		ug/L		92	72 - 126
Tetrachloroethene	25.0	27.4		ug/L		110	72 - 127
Toluene	25.0	25.9		ug/L		104	68 - 127
trans-1,2-Dichloroethene	25.0	27.3		ug/L		109	66 - 129
trans-1,3-Dichloropropene	25.0	24.6		ug/L		99	66 - 127
Trichloroethene	25.0	28.6		ug/L		114	70 - 125
Trichlorofluoromethane	25.0	26.4		ug/L		106	57 - 144
Vinyl chloride	25.0	27.2		ug/L		109	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573498/5
Matrix: Water
Analysis Batch: 573498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	26.2		ug/L		105	74 - 121	4	20
1,1,1-Trichloroethane			25.0	24.6		ug/L		99	62 - 132	12	20
1,1,2,2-Tetrachloroethane			25.0	25.5		ug/L		102	72 - 122	6	20
1,1,2-Trichloroethane			25.0	24.7		ug/L		99	72 - 128	5	20
1,1-Dichloroethane			25.0	24.2		ug/L		97	66 - 130	10	20
1,1-Dichloroethene			25.0	25.4		ug/L		102	62 - 130	6	21
1,1-Dichloropropene			25.0	24.8		ug/L		99	64 - 133	11	20
1,2,3-Trichlorobenzene			25.0	21.0		ug/L		84	70 - 127	3	20
1,2,3-Trichloropropane			25.0	25.9		ug/L		104	74 - 123	3	20
1,2,4-Trichlorobenzene			25.0	25.7		ug/L		103	73 - 124	2	20
1,2,4-Trimethylbenzene			25.0	26.0		ug/L		104	74 - 124	4	20
1,2-Dichlorobenzene			25.0	27.8		ug/L		111	77 - 121	1	20
1,2-Dichloroethane			25.0	25.2		ug/L		101	61 - 130	13	20
1,2-Dichloropropane			25.0	25.0		ug/L		100	68 - 127	8	20
1,3,5-Trimethylbenzene			25.0	25.8		ug/L		103	73 - 127	5	20
1,3-Dichlorobenzene			25.0	27.6		ug/L		110	76 - 121	2	20
1,3-Dichloropropane			25.0	27.0		ug/L		108	80 - 118	4	20
1,4-Dichlorobenzene			25.0	27.7		ug/L		111	76 - 119	1	20
2,2-Dichloropropane			25.0	24.0		ug/L		96	57 - 140	13	22
2-Butanone (MEK)			100	89.7		ug/L		90	53 - 135	3	20
2-Chlorotoluene			25.0	26.0		ug/L		104	75 - 123	5	20
2-Hexanone			100	97.2		ug/L		97	58 - 134	1	21
4-Chlorotoluene			25.0	26.0		ug/L		104	74 - 124	2	20
4-Isopropyltoluene			25.0	26.3		ug/L		105	74 - 127	3	20
4-Methyl-2-pentanone			100	76.9		ug/L		77	56 - 135	3	20
Acetone			100	90.1		ug/L		90	50 - 137	1	21
Benzene			25.0	24.5		ug/L		98	69 - 126	7	20
Bromobenzene			25.0	27.2		ug/L		109	75 - 122	2	20
Bromochloromethane			25.0	24.0		ug/L		96	71 - 130	4	20
Bromodichloromethane			25.0	23.9		ug/L		96	67 - 126	11	20
Bromoform			25.0	22.3		ug/L		89	57 - 125	8	20
Bromomethane			25.0	21.9		ug/L		88	25 - 163	9	40
Carbon disulfide			25.0	24.9		ug/L		100	56 - 128	8	20
Carbon tetrachloride			25.0	23.5		ug/L		94	60 - 133	12	20
Chlorobenzene			25.0	27.1		ug/L		108	78 - 118	2	20
Chloroethane			25.0	31.1		ug/L		124	52 - 144	10	30
Chloroform			25.0	24.8		ug/L		99	68 - 128	10	20
Chloromethane			25.0	23.7		ug/L		95	43 - 142	12	20
cis-1,2-Dichloroethene			25.0	24.3		ug/L		97	69 - 126	10	20
cis-1,3-Dichloropropene			25.0	23.0		ug/L		92	75 - 120	5	20
Dibromochloromethane			25.0	24.9		ug/L		100	71 - 122	7	20
Dibromomethane			25.0	24.3		ug/L		97	68 - 129	7	20
Dichlorodifluoromethane			25.0	26.4		ug/L		105	26 - 152	11	21
Ethylbenzene			25.0	25.9		ug/L		103	76 - 121	3	20
Hexachlorobutadiene			25.0	25.5		ug/L		102	69 - 133	3	20
Isopropylbenzene			25.0	26.1		ug/L		104	70 - 127	4	20
Methylene Chloride			25.0	25.6		ug/L		102	64 - 128	8	20
Naphthalene			25.0	20.7		ug/L		83	63 - 129	6	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573498/5
Matrix: Water
Analysis Batch: 573498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene			25.0	25.9		ug/L		104	69 - 130	3	20
N-Propylbenzene			25.0	26.0		ug/L		104	73 - 127	4	20
sec-Butylbenzene			25.0	25.9		ug/L		103	72 - 127	3	20
Styrene			25.0	25.6		ug/L		102	79 - 120	3	20
tert-Butylbenzene			25.0	22.2		ug/L		89	72 - 126	3	20
Tetrachloroethene			25.0	26.3		ug/L		105	72 - 127	4	20
Toluene			25.0	24.3		ug/L		97	68 - 127	6	20
trans-1,2-Dichloroethene			25.0	24.3		ug/L		97	66 - 129	11	20
trans-1,3-Dichloropropene			25.0	22.8		ug/L		91	66 - 127	8	20
Trichloroethene			25.0	28.1		ug/L		112	70 - 125	2	20
Trichlorofluoromethane			25.0	23.7		ug/L		95	57 - 144	11	28
Vinyl chloride			25.0	25.4		ug/L		102	53 - 141	7	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-573322/1-A
Matrix: Water
Analysis Batch: 573329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		04/28/22 16:41	04/28/22 22:56	1
1,2-Dibromoethane	ND		0.050		ug/L		04/28/22 16:41	04/28/22 22:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*112*		*70 - 130*	*04/28/22 16:41*	*04/28/22 22:56*	*1*

Lab Sample ID: LCS 280-573322/2-A
Matrix: Water
Analysis Batch: 573329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573322

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane			0.250	0.258		ug/L		103	60 - 140
1,2-Dibromoethane			0.250	0.245		ug/L		98	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*112*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 280-573322/3-A
Matrix: Water
Analysis Batch: 573329

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.257		ug/L		103	60 - 140	0	10
1,2-Dibromoethane			0.250	0.246		ug/L		98	60 - 140	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*114*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-573815/1-A
Matrix: Water
Analysis Batch: 574159

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/05/22 09:44	05/06/22 02:43	1
Iron	37.3		30		ug/L		05/05/22 09:44	05/06/22 02:43	1
Magnesium	ND		200		ug/L		05/05/22 09:44	05/06/22 02:43	1
Manganese	ND		3.0		ug/L		05/05/22 09:44	05/06/22 02:43	1
Potassium	ND		500		ug/L		05/05/22 09:44	05/06/22 02:43	1
Sodium	ND		1000		ug/L		05/05/22 09:44	05/06/22 02:43	1

Lab Sample ID: LCS 280-573815/2-A
Matrix: Water
Analysis Batch: 574159

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573815

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50000	50900		ug/L		102	90 - 111		
Iron			10000	10400		ug/L		104	89 - 115		
Magnesium			50000	48500		ug/L		97	90 - 113		
Manganese			1000	993		ug/L		99	90 - 110		
Potassium			50000	50600		ug/L		101	89 - 114		
Sodium			50000	51500		ug/L		103	90 - 115		

Lab Sample ID: 280-161736-A-3-B MS
Matrix: Water
Analysis Batch: 574159

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 573815

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	69000		50000	116000		ug/L		95	48 - 153		
Iron	42000	B	10000	51100	4	ug/L		90	52 - 155		
Magnesium	12000		50000	60000		ug/L		96	62 - 146		
Manganese	190		1000	1160		ug/L		96	79 - 121		
Potassium	3300		50000	54000		ug/L		101	76 - 132		
Sodium	230000		50000	274000	4	ug/L		95	70 - 203		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-161736-A-3-C MSD
Matrix: Water
Analysis Batch: 574159

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 573815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	69000		50000	116000		ug/L		94	48 - 153	0	20
Iron	42000	B	10000	50800	4	ug/L		87	52 - 155	1	20
Magnesium	12000		50000	59800		ug/L		95	62 - 146	0	20
Manganese	190		1000	1150		ug/L		96	79 - 121	0	20
Potassium	3300		50000	54300		ug/L		102	76 - 132	1	20
Sodium	230000		50000	272000	4	ug/L		91	70 - 203	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-625182/28
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			05/09/22 22:42	1
Sulfate	ND		1.0		mg/L			05/09/22 22:42	1

Lab Sample ID: LCS 480-625182/29
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	50.9		mg/L		102	90 - 110
Sulfate	50.0	52.1		mg/L		104	90 - 110

Lab Sample ID: 280-161448-D-4 MS
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	22		50.1	68.3		mg/L		93	81 - 120
Sulfate	5.1		50.0	53.9		mg/L		97	80 - 120

Lab Sample ID: 280-161448-D-4 MSD
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22		50.1	68.6		mg/L		93	81 - 120	0	15
Sulfate	5.1		50.0	54.0		mg/L		98	80 - 120	0	15

Lab Sample ID: 480-197307-J-1 MS
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	28		1000	990		mg/L		96	81 - 120
Sulfate	1300		1000	2260		mg/L		93	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-625351/4
Matrix: Water
Analysis Batch: 625351

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			05/10/22 17:10	1
Sulfate	ND		1.0		mg/L			05/10/22 17:10	1

Lab Sample ID: LCS 480-625351/5
Matrix: Water
Analysis Batch: 625351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	51.4		mg/L		103	90 - 110
Sulfate	50.0	52.7		mg/L		105	90 - 110

Lab Sample ID: 480-197247-J-7 MS
Matrix: Water
Analysis Batch: 625351

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13		100	109		mg/L		96	81 - 120
Sulfate	130		100	224		mg/L		95	80 - 120

Lab Sample ID: 480-197247-J-7 MSD
Matrix: Water
Analysis Batch: 625351

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13		100	110		mg/L		97	81 - 120	1	15
Sulfate	130		100	220		mg/L		91	80 - 120	2	15

Lab Sample ID: 480-197212-D-12 MS
Matrix: Water
Analysis Batch: 625351

Client Sample ID: Matrix Spike
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	170		50.1	206	E	mg/L		82	81 - 120
Sulfate	14		50.0	64.2		mg/L		101	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-574325/18
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			05/09/22 12:50	1

Lab Sample ID: MB 280-574325/52
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			05/09/22 14:22	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 280-574325/17
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	5.00	4.85		mg/L		97	90 - 110

Lab Sample ID: LCS 280-574325/51
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.61		mg/L		104	90 - 110

Lab Sample ID: 280-161462-3 MS
Matrix: Water
Analysis Batch: 574325

Client Sample ID: MW-20B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	0.11		1.00	1.15		mg/L		104	90 - 110

Lab Sample ID: 280-161462-3 MSD
Matrix: Water
Analysis Batch: 574325

Client Sample ID: MW-20B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	0.11		1.00	1.16		mg/L		104	90 - 110	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-573912/61
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			05/04/22 18:34	1

Lab Sample ID: LCS 280-573912/60
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	5.00	5.11		mg/L		102	90 - 110

Lab Sample ID: 280-161791-D-2 MS
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	1.8		4.00	5.99		mg/L		104	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 280-161791-D-2 MSD
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	1.8		4.00	5.94		mg/L		103	90 - 110	1	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-574005/4
Matrix: Water
Analysis Batch: 574005

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			05/04/22 19:53	1

Lab Sample ID: LCS 280-574005/3
Matrix: Water
Analysis Batch: 574005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	24.8		mg/L		99	88 - 112

Lab Sample ID: 280-161462-2 MS
Matrix: Water
Analysis Batch: 574005

Client Sample ID: MW-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	1.3		25.0	26.1		mg/L		99	88 - 112

Lab Sample ID: 280-161462-2 MSD
Matrix: Water
Analysis Batch: 574005

Client Sample ID: MW-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.3		25.0	26.0		mg/L		99	88 - 112	0	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-574431/1
Matrix: Water
Analysis Batch: 574431

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			05/10/22 12:14	1
Magnesium	0.000				meq/L			05/10/22 12:14	1
Potassium	0.000				meq/L			05/10/22 12:14	1
Sodium	0.000				meq/L			05/10/22 12:14	1
Ammonia as N	0.000				meq/L			05/10/22 12:14	1
Chloride	0.000				meq/L			05/10/22 12:14	1
Sulfate	0.000				meq/L			05/10/22 12:14	1
Alkalinity	0.000				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	0.000				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.000				meq/L			05/10/22 12:14	1
Iron	0.000				meq/L			05/10/22 12:14	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-573361/58
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			04/28/22 20:24	1

Lab Sample ID: 280-161414-A-8 DU
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	350			353		mg/L				2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-572980/1
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/26/22 07:45	1

Lab Sample ID: LCS 280-572980/2
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			505	506		mg/L		100	88 - 114		

Lab Sample ID: LCSD 280-572980/3
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			505	494		mg/L		98	88 - 114	2	20

Lab Sample ID: 280-161409-A-5 DU
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	190			204		mg/L				6	10

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161462-1

GC/MS VOA

Analysis Batch: 573498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-1	TRIP BLANK	Total/NA	Water	8260B	
280-161462-2	MW-20A	Total/NA	Water	8260B	
280-161462-3	MW-20B	Total/NA	Water	8260B	
MB 280-573498/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573498/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573498/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 573322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-1	TRIP BLANK	Total/NA	Water	8011	
280-161462-2	MW-20A	Total/NA	Water	8011	
280-161462-3	MW-20B	Total/NA	Water	8011	
MB 280-573322/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-573322/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-573322/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 573329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-1	TRIP BLANK	Total/NA	Water	8011	573322
280-161462-2	MW-20A	Total/NA	Water	8011	573322
280-161462-3	MW-20B	Total/NA	Water	8011	573322
MB 280-573322/1-A	Method Blank	Total/NA	Water	8011	573322
LCS 280-573322/2-A	Lab Control Sample	Total/NA	Water	8011	573322
LCSD 280-573322/3-A	Lab Control Sample Dup	Total/NA	Water	8011	573322

Metals

Prep Batch: 573815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-2	MW-20A	Dissolved	Water	3005A	
280-161462-3	MW-20B	Dissolved	Water	3005A	
MB 280-573815/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573815/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161736-A-3-B MS	Matrix Spike	Dissolved	Water	3005A	
280-161736-A-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 574159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-2	MW-20A	Dissolved	Water	6010B	573815
280-161462-3	MW-20B	Dissolved	Water	6010B	573815
MB 280-573815/1-A	Method Blank	Total Recoverable	Water	6010B	573815
LCS 280-573815/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573815
280-161736-A-3-B MS	Matrix Spike	Dissolved	Water	6010B	573815
280-161736-A-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	573815

General Chemistry

Analysis Batch: 572980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-2	MW-20A	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 572980 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-3	MW-20B	Total/NA	Water	SM 2540C	
MB 280-572980/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-572980/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-572980/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-161409-A-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 573361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-2	MW-20A	Total/NA	Water	SM 2320B	
280-161462-3	MW-20B	Total/NA	Water	SM 2320B	
MB 280-573361/58	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-573361/57	Lab Control Sample	Total/NA	Water	SM 2320B	
280-161414-A-8 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 573912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-2	MW-20A	Total/NA	Water	353.2	
280-161462-3	MW-20B	Total/NA	Water	353.2	
MB 280-573912/61	Method Blank	Total/NA	Water	353.2	
LCS 280-573912/60	Lab Control Sample	Total/NA	Water	353.2	
280-161791-D-2 MS	Matrix Spike	Total/NA	Water	353.2	
280-161791-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 574005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-2	MW-20A	Total/NA	Water	9060	
280-161462-3	MW-20B	Total/NA	Water	9060	
MB 280-574005/4	Method Blank	Total/NA	Water	9060	
LCS 280-574005/3	Lab Control Sample	Total/NA	Water	9060	
280-161462-2 MS	MW-20A	Total/NA	Water	9060	
280-161462-2 MSD	MW-20A	Total/NA	Water	9060	

Analysis Batch: 574325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-2	MW-20A	Total/NA	Water	350.1	
280-161462-3	MW-20B	Total/NA	Water	350.1	
MB 280-574325/18	Method Blank	Total/NA	Water	350.1	
MB 280-574325/52	Method Blank	Total/NA	Water	350.1	
LCS 280-574325/17	Lab Control Sample	Total/NA	Water	350.1	
LCS 280-574325/51	Lab Control Sample	Total/NA	Water	350.1	
280-161462-3 MS	MW-20B	Total/NA	Water	350.1	
280-161462-3 MSD	MW-20B	Total/NA	Water	350.1	

Analysis Batch: 574431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-2	MW-20A	Total/NA	Water	SM 1030E	
280-161462-2	MW-20A	Total/NA	Water	SM 1030E (meq)	
280-161462-3	MW-20B	Total/NA	Water	SM 1030E	
280-161462-3	MW-20B	Total/NA	Water	SM 1030E (meq)	
MB 280-574431/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161462-1

General Chemistry

Analysis Batch: 625182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-2	MW-20A	Total/NA	Water	300.0	
280-161462-3	MW-20B	Total/NA	Water	300.0	
MB 480-625182/28	Method Blank	Total/NA	Water	300.0	
LCS 480-625182/29	Lab Control Sample	Total/NA	Water	300.0	
280-161448-D-4 MS	Matrix Spike	Total/NA	Water	300.0	
280-161448-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
480-197307-J-1 MS	Matrix Spike	Total/NA	Water	300.0	

Analysis Batch: 625351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-3	MW-20B	Total/NA	Water	300.0	
MB 480-625351/4	Method Blank	Total/NA	Water	300.0	
LCS 480-625351/5	Lab Control Sample	Total/NA	Water	300.0	
480-197212-D-12 MS	Matrix Spike	Dissolved	Water	300.0	
480-197247-J-7 MS	Matrix Spike	Total/NA	Water	300.0	
480-197247-J-7 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 572963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161462-2	MW-20A	Total/NA	Water	Field Sampling	
280-161462-3	MW-20B	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161462-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-161462-1

Date Collected: 04/19/22 07:00

Matrix: Water

Date Received: 04/25/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573498	05/01/22 11:17	TAW	EET DEN
Total/NA	Prep	8011			35.2 mL	35 mL	573322	04/28/22 16:41	KSA	EET DEN
Total/NA	Analysis	8011		1			573329	04/29/22 06:53	KSA	EET DEN

Client Sample ID: MW-20A

Lab Sample ID: 280-161462-2

Date Collected: 04/19/22 10:30

Matrix: Water

Date Received: 04/25/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573498	05/01/22 12:42	TAW	EET DEN
Total/NA	Prep	8011			34.8 mL	35 mL	573322	04/28/22 16:41	KSA	EET DEN
Total/NA	Analysis	8011		1			573329	04/29/22 07:17	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573815	05/05/22 09:44	MAB	EET DEN
Dissolved	Analysis	6010B		1			574159	05/06/22 04:04	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/10/22 03:17	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 14:16	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573912	05/04/22 19:08	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	574005	05/04/22 20:21	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:17	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:17	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 21:17	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	572980	04/26/22 08:45	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/19/22 11:30	TJ	EET DEN

Client Sample ID: MW-20B

Lab Sample ID: 280-161462-3

Date Collected: 04/19/22 09:15

Matrix: Water

Date Received: 04/25/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573498	05/01/22 13:04	TAW	EET DEN
Total/NA	Prep	8011			35.1 mL	35 mL	573322	04/28/22 16:41	KSA	EET DEN
Total/NA	Analysis	8011		1			573329	04/29/22 07:41	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573815	05/05/22 09:44	MAB	EET DEN
Dissolved	Analysis	6010B		1			574159	05/06/22 04:08	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/10/22 03:37	IMZ	EET BUF
Total/NA	Analysis	300.0		1			625351	05/10/22 20:46	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 14:26	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573912	05/04/22 19:10	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	574005	05/04/22 21:08	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:17	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:17	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 22:07	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	572980	04/26/22 08:45	ABW	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-161462-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: MW-20B
Lab Sample ID: 280-161462-3

Date Collected: 04/19/22 09:15
Matrix: Water

Date Received: 04/25/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			572963	04/19/22 10:15	TJ	EET DEN

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler:	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16508-865.1
Client Contact:	Phone:	E-Mail: Betsy.Sara@Eurofinset.com		Page: Page 1 of 1
Company: Waste Management				Job #:

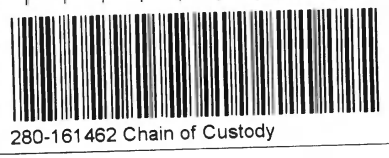
Address: 13469 SW Highway 18	Due Date Requested:	Analysis Requested
City: McMinnville	TAT Requested (days):	
State, Zip: OR, 97128		
Phone:	PO #:	
Email:	WO #:	
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786	
Site: Oregon	SSOW#:	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alk	Dissolved Metals	Ammonia/TOC/NO3+NO2	8260B	8011	Cation/Anion Balance	Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	R		N		
TB1	4/19/22	0700	G	W						X	X			8	
MW-20A	4/19/22	1030	G	W	X		X	X	X	X	X	X	X	10	



Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/21/22 @ 1630	SCS		04/25/2022 0810	EPA DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 7.4 CF +0.1 IR +1.2 3.1

3/10/2023

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: I. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16517-870.1
Client Contact:	Phone: 503 716 6320	E-Mail: Betsy.Sara@Eurofinset.com		Page: Page 1 of 1

Company: Waste Management
Address: 13469 SW Highway 18
City: McMinnville
State, Zip: OR, 97128
Phone:
Email:
Project Name: 1003|Riverbend Landfill SCS Engineers
Event Desc: Annual MW-20B - Apr
Site: Oregon

Due Date Requested:
TAT Requested (days):
PO #:
WO #:
Project #: 28002786
SSOW#:

Job #:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alk	Dissolved Metals	Ammonia/TOC/NO3+NO2	8260B	8011	Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	S	A	R	N		
MW-20B	4/19/22	0915	G	W	X		X	X	X	X	X	X	10	
TB1	4/19/22	0700	G	W						X	X		2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 4/21/2022 @ 1630	Company SCS	Received by:	Date/Time: 04/22/2022 0850	Company GEL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 7.4 CF +0.1 IR +3.1 = 3.1

Page 37 of 44

3/10/2023

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-20A

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	(°F) 48.0 °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
4/17/22	07:41	23.60	.	2.87	.	20.87	X 1	3.37
/ /	:	.	.	.	.		X 3	10.17

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/19/22	10:30	F	3	(40 ml)	(HCl)	(YES)	NO		
VOA Glass	4/19/22	10:30	F	3	(40 ml)	($Na_2S_2O_3$)	(YES)	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/19/22	10:30	F	2	250, 500, 1L	None	YES	NO	NA	
Yellow Glass	4/19/22	10:30	F	2	250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	4/19/22	10:30	F	1	125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 — 10 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	F (0948)	0.00	6.30	98.2	1603.0	10.5	4.51	2.71	c/c
1	F (0956)	2.30	6.58	40.2	1012.0	10.5	6.56	0.39	very tan/cloudy
2	F (1002)	5.0	6.64	17.7	1017.0	10.5	8.60	0.37	tan/clear
3	F (1070)	10.20	6.65	-0.04	1017.0	10.5	10.42	0.32	c/c
4	F (1072)	11.0	6.63	-2.0	1017.0	10.5	10.82	0.36	c/c
5	F (1074)	12.0	6.67	-4.1	1017.0	10.5	10.82	0.34	c/c
6	F (1076)	12.9	6.64	-3.8	1017.0	10.5	10.82	0.35	c/c

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity/Color]

Standard Purge 9/11/20 PSI ~ 1L/min c/c = clear/colorless

SAMPLER: Edan Taylor
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-20B
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	° F . ° C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
4/19/22	8:31	37.85	.	1.56	.	36.29	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/19/22	9:15	F	3	40 ml HCl	YES	NO		
VOA Glass	4/19/22	9:15	F	3	40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	4/19/22	9:15	F	2	250, 500, 1L None	YES	NO	NA	
Yellow Glass	4/19/22	9:15	F	1	250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	4/19/22	9:15	F	1	250, 500, 1L HNO_3	YES	YES		
	/ /	:			250, 500, 1L	YES			

White no acid, Yellow H2SO4, Red HNO3 — 10 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Glass	(COD) (TOC) (NH3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

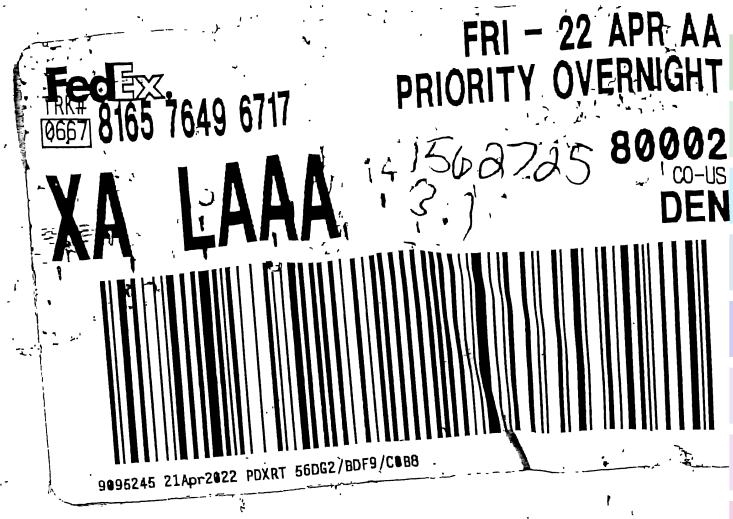
Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	F 0851	0.00	5.82	184.6	658.2	10.3	1.56	11.2	C/C
1	F 0859	0.75	6.98	140.8	653.0	10.7	1.58	0.58	C/C
2	F 0901	0.95	7.01	139.6	651.5	10.8	1.58	0.52	C/C
3	F 0903	1.15	7.05	129.4	651.4	10.8	1.59	0.53	C/C
4	F 0905	1.35	7.01	134.6	651.4	10.8	1.59	0.54	C/C
5	F 0907	1.55	7.03	132.9	651.4	10.8	1.59	0.54	C/C
6	F 0909	1.65	7.05	131.7	651.4	10.8	1.59	0.50	C/C

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

low flow purge method 20/10/20 PSI ~ 250 mL/min C/C = clear/colorless

SAMPLER: Edan Taylor (PRINTED NAME) (SIGNATURE)

ORIGIN ID:PDXA
SHIP DATE: 21APR22
ACTWGT: 52.00 LB
CAD: 7SSFE2300
DIMS: 24x14x14 IN
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA - DENVER
4955 YARROW ST
ARVADA CO 800
(US)
(303) 736-0100
INV:
PO:
Eurofins
Environment Testing
TestAmerica
1562723
FedEx
Express
FRI - 22 APR 10:30A
PRIORITY OVERNIGHT
TRK# 0667 8165 7649 6706
AHS
80002
CO-US DEN
XA LAAA
280-161462 Waybill
74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XA LAAA
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CO-US
DEN
9096245 21Apr2022 PDXRT 56DG2/BDF9/C0B8

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-611883.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-161462-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 5/15/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298	PO #:			
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	WO #:			
Email:	Project #: 28002786			
Project Name: 1003|Riverbend Landfill SCS Engineers	SSOW#:			
Site: 1003|Riverbend Landfill				

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-20A (280-161462-2)	4/19/22	10:30 Pacific		Water			X	1	
MW-20B (280-161462-3)	4/19/22	09:15 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 4/26/22 1530	Company: EFAD&N	Received by: [signature] Date/Time: 4/28/22 1000 Company: TVA
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.7 # ICE

Ver: 06/08/2021

3/10/2023

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161462-1

Login Number: 161462
List Number: 1
Creator: Kazenga, Oliver M

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Refer to job narrative for details
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161462-1

Login Number: 161462
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 04/29/22 04:40 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7 IR GUN #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Generated 3/10/2023 2:35:57 PM

JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Detection Wells - Apr Oct

JOB NUMBER

280-161448-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

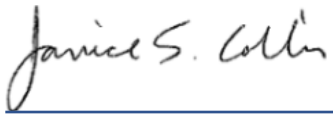
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-161448-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-161448-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 04/23/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 1.1°C and 2.7°C

Holding Times

All holding times were met.

Method Blanks

All Method Blanks met method criteria.

Laboratory Control Samples (LCS)

All Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) for Method 8260B and 8011, however, LCS/LCSD pairs were analyzed to demonstrate method precision and accuracy.

All other MS and MSD results were within established control limits.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

The analysis for Chloride and Sulfate Method 300.0 was performed by TestAmerica Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Job ID: 280-161448-1 (Continued)

Laboratory: Eurofins Denver (Continued)

Phone: 716-691-2600

Detection Summary

Client: Waste Management
Job ID: 280-161448-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: TB3 — Lab Sample ID: 280-161448-1

No Detections.

Client Sample ID: MW-19A — Lab Sample ID: 280-161448-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	33000		500		ug/L	1		6010B	Dissolved
Iron	310		30		ug/L	1		6010B	Dissolved
Magnesium	11000		200		ug/L	1		6010B	Dissolved
Manganese	190		3.0		ug/L	1		6010B	Dissolved
Potassium	1400		500		ug/L	1		6010B	Dissolved
Sodium	11000		1000		ug/L	1		6010B	Dissolved
Chloride	22		0.50		mg/L	1		300.0	Total/NA
Sulfate	5.1		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.039		0.030		mg/L	1		350.1	Total/NA
Nitrate/Nitrite	0.12		0.050		mg/L	1		353.2	Total/NA
Total Anions	3.3				meq/L	1		SM 1030E	Total/NA
Total Cations	3.1				meq/L	1		SM 1030E	Total/NA
Percent Difference	-3.9				%	1		SM 1030E	Total/NA
Calcium	33				mg/L	1		SM 1030E	Total/NA
Magnesium	11				mg/L	1		SM 1030E	Total/NA
Potassium	1.4				mg/L	1		SM 1030E	Total/NA
Sodium	11				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.039				mg/L	1		SM 1030E	Total/NA
Chloride	22				mg/L	1		SM 1030E	Total/NA
Sulfate	5.1				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.12				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-3.9				%	1		SM 1030E	Total/NA
Calculated TDS	160				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	190				mg/L	1		SM 1030E	Total/NA
Iron	0.31				mg/L	1		SM 1030E	Total/NA
Calcium	1.6				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.91				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.036				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.48				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.0028				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.62				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.11				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	130				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	2.6				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.0086				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.017				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	190		10		mg/L	1		SM 2540C	Total/NA
Field pH	7.42				SU	1		Field Sampling	Total/NA
Field Conductivity	341.4				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.6				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.78				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-60.6				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161448-1

Client Sample ID: FB4 — Lab Sample ID: 280-161448-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Total Anions	0.00				meq/L	1		SM 1030E	Total/NA
Total Cations	0.00				meq/L	1		SM 1030E	Total/NA
Percent Difference	NC				%	1		SM 1030E	Total/NA
Calcium	0.00				mg/L	1		SM 1030E	Total/NA
Magnesium	0.00				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	0.00				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	0.00				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	NC				%	1		SM 1030E	Total/NA
Calculated TDS	0.00				mg/L	1		SM 1030E	Total/NA
TDS Ratio	NC				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	0.00				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA

Client Sample ID: DUP4 — Lab Sample ID: 280-161448-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	34000		500		ug/L	1		6010B	Dissolved
Iron	360		30		ug/L	1		6010B	Dissolved
Magnesium	12000		200		ug/L	1		6010B	Dissolved
Manganese	200		3.0		ug/L	1		6010B	Dissolved
Potassium	1100		500		ug/L	1		6010B	Dissolved
Sodium	11000		1000		ug/L	1		6010B	Dissolved
Chloride	22		0.50		mg/L	1		300.0	Total/NA
Sulfate	5.1		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	0.12		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	2.2		1.0		mg/L	1		9060	Total/NA
Total Anions	3.3				meq/L	1		SM 1030E	Total/NA
Total Cations	3.2				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.9				%	1		SM 1030E	Total/NA
Calcium	34				mg/L	1		SM 1030E	Total/NA
Magnesium	12				mg/L	1		SM 1030E	Total/NA
Potassium	1.1				mg/L	1		SM 1030E	Total/NA
Sodium	11				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP4 (Continued)

Lab Sample ID: 280-161448-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Chloride	22				mg/L	1		SM 1030E	Total/NA
Sulfate	5.1				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.12				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.9				%	1		SM 1030E	Total/NA
Calculated TDS	160				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	190				mg/L	1		SM 1030E	Total/NA
Iron	0.36				mg/L	1		SM 1030E	Total/NA
Calcium	1.7				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.99				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.028				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.48				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.62				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.11				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	130				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	2.6				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.0086				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.019				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	190		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-161448-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-161448-1	TB3	Water	04/22/22 07:00	04/23/22 11:25
280-161448-2	MW-19A	Water	04/22/22 09:25	04/23/22 11:25
280-161448-3	FB4	Water	04/22/22 09:10	04/23/22 11:25
280-161448-4	DUP4	Water	04/22/22 09:30	04/23/22 11:25

Method Summary

Client: Waste Management
Job ID: 280-161448-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161448-1

Client Sample ID: TB3
Date Collected: 04/22/22 07:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161448-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 09:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 09:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 09:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 09:50	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 09:50	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 09:50	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 09:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 09:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 09:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 09:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 09:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 09:50	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 09:50	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 09:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 09:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 09:50	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 09:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 09:50	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 09:50	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 09:50	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 09:50	1
2-Hexanone	ND		5.0		ug/L			05/05/22 09:50	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 09:50	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 09:50	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 09:50	1
Acetone	ND		10		ug/L			05/05/22 09:50	1
Benzene	ND		1.0		ug/L			05/05/22 09:50	1
Bromobenzene	ND		1.0		ug/L			05/05/22 09:50	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 09:50	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 09:50	1
Bromoform	ND		1.0		ug/L			05/05/22 09:50	1
Bromomethane	ND		2.0		ug/L			05/05/22 09:50	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 09:50	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 09:50	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 09:50	1
Chloroethane	ND		2.0		ug/L			05/05/22 09:50	1
Chloroform	ND		1.0		ug/L			05/05/22 09:50	1
Chloromethane	ND		2.0		ug/L			05/05/22 09:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 09:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 09:50	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 09:50	1
Dibromomethane	ND		1.0		ug/L			05/05/22 09:50	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 09:50	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 09:50	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 09:50	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 09:50	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 09:50	1
Naphthalene	ND		1.0		ug/L			05/05/22 09:50	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 09:50	1

Client Sample ID: TB3

Lab Sample ID: 280-161448-1

Date Collected: 04/22/22 07:00

Matrix: Water

Date Received: 04/23/22 11:25

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			05/05/22 09:50	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 09:50	1
Styrene	ND		1.0		ug/L			05/05/22 09:50	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 09:50	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 09:50	1
Toluene	ND		1.0		ug/L			05/05/22 09:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 09:50	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 09:50	1
Trichloroethene	ND		1.0		ug/L			05/05/22 09:50	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 09:50	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 09:50	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 09:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/22 09:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*05/05/22 09:50*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/05/22 09:50*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*05/05/22 09:50*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*05/05/22 09:50*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/06/22 17:04	05/07/22 02:02	1
1,2-Dibromoethane	ND		0.050		ug/L		05/06/22 17:04	05/07/22 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*106*		*70 - 130*	*05/06/22 17:04*	*05/07/22 02:02*	*1*

Client Sample ID: MW-19A

Lab Sample ID: 280-161448-2

Date Collected: 04/22/22 09:25

Matrix: Water

Date Received: 04/23/22 11:25

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 12:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 12:41	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 12:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 12:41	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 12:41	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 12:41	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 12:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 12:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 12:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 12:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 12:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 12:41	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 12:41	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 12:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 12:41	1

Client Sample ID: MW-19A
Date Collected: 04/22/22 09:25
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161448-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 12:41	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 12:41	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 12:41	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 12:41	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 12:41	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 12:41	1
2-Hexanone	ND		5.0		ug/L			05/05/22 12:41	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 12:41	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 12:41	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 12:41	1
Acetone	ND		10		ug/L			05/05/22 12:41	1
Benzene	ND		1.0		ug/L			05/05/22 12:41	1
Bromobenzene	ND		1.0		ug/L			05/05/22 12:41	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 12:41	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 12:41	1
Bromoform	ND		1.0		ug/L			05/05/22 12:41	1
Bromomethane	ND		2.0		ug/L			05/05/22 12:41	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 12:41	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 12:41	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 12:41	1
Chloroethane	ND		2.0		ug/L			05/05/22 12:41	1
Chloroform	ND		1.0		ug/L			05/05/22 12:41	1
Chloromethane	ND		2.0		ug/L			05/05/22 12:41	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 12:41	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 12:41	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 12:41	1
Dibromomethane	ND		1.0		ug/L			05/05/22 12:41	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 12:41	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 12:41	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 12:41	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 12:41	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 12:41	1
Naphthalene	ND		1.0		ug/L			05/05/22 12:41	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 12:41	1
N-Propylbenzene	ND		1.0		ug/L			05/05/22 12:41	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 12:41	1
Styrene	ND		1.0		ug/L			05/05/22 12:41	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 12:41	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 12:41	1
Toluene	ND		1.0		ug/L			05/05/22 12:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 12:41	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 12:41	1
Trichloroethene	ND		1.0		ug/L			05/05/22 12:41	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 12:41	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 12:41	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 12:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/22 12:41*	*1*

Client Sample ID: MW-19A

Date Collected: 04/22/22 09:25
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161448-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*05/05/22 12:41*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*05/05/22 12:41*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*05/05/22 12:41*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*05/05/22 12:41*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/06/22 17:04	05/07/22 02:26	1
1,2-Dibromoethane	ND		0.050		ug/L		05/06/22 17:04	05/07/22 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*114*		*70 - 130*	*05/06/22 17:04*	*05/07/22 02:26*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**33000**		500		ug/L		05/04/22 09:55	05/05/22 11:27	1
Iron	**310**		30		ug/L		05/04/22 09:55	05/05/22 11:27	1
Magnesium	**11000**		200		ug/L		05/04/22 09:55	05/05/22 11:27	1
Manganese	**190**		3.0		ug/L		05/04/22 09:55	05/05/22 11:27	1
Potassium	**1400**		500		ug/L		05/04/22 09:55	05/05/22 11:27	1
Sodium	**11000**		1000		ug/L		05/04/22 09:55	05/05/22 11:27	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**3.3**				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	**3.1**				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	**-3.9**				%			05/10/22 12:14	1
Calcium (SM 1030E)	**33**				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	**11**				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	**1.4**				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	**11**				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	**0.039**				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	**22**				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	**5.1**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	**130**				mg/L			05/10/22 12:14	1
Alkalinity (SM 1030E)	**130**				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	**0.12**				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	**-3.9**				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	**160**				mg/L			05/10/22 12:14	1
TDS Ratio (SM 1030E)	**1.2**				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	**190**				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	**0.31**				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	**1.6**				meq/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	**0.91**				meq/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	**0.036**				meq/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	**0.48**				meq/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	**0.0028**				meq/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	**0.62**				meq/L			05/10/22 12:14	1
Sulfate (SM 1030E (meq))	**0.11**				meq/L			05/10/22 12:14	1
Alkalinity (SM 1030E (meq))	**130**				mg/L			05/10/22 12:14	1

Client Sample ID: MW-19A

Date Collected: 04/22/22 09:25
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161448-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E (meq))	2.6				meq/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	0.0086				meq/L			05/10/22 12:14	1
Iron (SM 1030E (meq))	0.017				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	22		0.50		mg/L			05/10/22 00:20	1
Sulfate (EPA 300.0)	5.1		1.0		mg/L			05/10/22 00:20	1
Ammonia as N (EPA 350.1)	0.039		0.030		mg/L			05/09/22 13:43	1
Nitrate/Nitrite (EPA 353.2)	0.12		0.050		mg/L			05/02/22 18:02	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			05/04/22 21:53	1
Bicarbonate Alkalinity (SM 2320B)	130		10		mg/L			05/03/22 22:52	1
Total Dissolved Solids (SM 2540C)	190		10		mg/L			04/28/22 11:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.42				SU			04/22/22 10:25	1
Field Conductivity	341.4				umhos/cm			04/22/22 10:25	1
Field Temperature	11.6				Degrees C			04/22/22 10:25	1
Field Dissolved Oxygen	0.78				mg/L			04/22/22 10:25	1
Field EH/ORP	-60.6				millivolts			04/22/22 10:25	1

Client Sample ID: FB4

Date Collected: 04/22/22 09:10
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161448-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 13:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 13:02	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 13:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 13:02	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 13:02	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 13:02	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 13:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 13:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 13:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 13:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 13:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 13:02	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 13:02	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 13:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 13:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 13:02	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 13:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 13:02	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 13:02	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 13:02	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 13:02	1
2-Hexanone	ND		5.0		ug/L			05/05/22 13:02	1

Client Sample ID: FB4
Date Collected: 04/22/22 09:10
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161448-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 13:02	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 13:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 13:02	1
Acetone	ND		10		ug/L			05/05/22 13:02	1
Benzene	ND		1.0		ug/L			05/05/22 13:02	1
Bromobenzene	ND		1.0		ug/L			05/05/22 13:02	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 13:02	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 13:02	1
Bromoform	ND		1.0		ug/L			05/05/22 13:02	1
Bromomethane	ND		2.0		ug/L			05/05/22 13:02	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 13:02	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 13:02	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 13:02	1
Chloroethane	ND		2.0		ug/L			05/05/22 13:02	1
Chloroform	ND		1.0		ug/L			05/05/22 13:02	1
Chloromethane	ND		2.0		ug/L			05/05/22 13:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 13:02	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 13:02	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 13:02	1
Dibromomethane	ND		1.0		ug/L			05/05/22 13:02	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 13:02	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 13:02	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 13:02	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 13:02	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 13:02	1
Naphthalene	ND		1.0		ug/L			05/05/22 13:02	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 13:02	1
N-Propylbenzene	ND		1.0		ug/L			05/05/22 13:02	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 13:02	1
Styrene	ND		1.0		ug/L			05/05/22 13:02	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 13:02	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 13:02	1
Toluene	ND		1.0		ug/L			05/05/22 13:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 13:02	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 13:02	1
Trichloroethene	ND		1.0		ug/L			05/05/22 13:02	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 13:02	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 13:02	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 13:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/22 13:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*05/05/22 13:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/05/22 13:02*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*05/05/22 13:02*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*05/05/22 13:02*	*1*

Client Sample ID: FB4

Date Collected: 04/22/22 09:10
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161448-3

Matrix: Water

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/06/22 17:04	05/07/22 02:50	1
1,2-Dibromoethane	ND		0.050		ug/L		05/06/22 17:04	05/07/22 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*106*		*70 - 130*	*05/06/22 17:04*	*05/07/22 02:50*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/04/22 09:55	05/05/22 11:53	1
Iron	ND		30		ug/L		05/04/22 09:55	05/05/22 11:53	1
Magnesium	ND		200		ug/L		05/04/22 09:55	05/05/22 11:53	1
Manganese	ND		3.0		ug/L		05/04/22 09:55	05/05/22 11:53	1
Potassium	ND		500		ug/L		05/04/22 09:55	05/05/22 11:53	1
Sodium	ND		1000		ug/L		05/04/22 09:55	05/05/22 11:53	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**0.00**				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	**0.00**				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	**NC**				%			05/10/22 12:14	1
Calcium (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Alkalinity (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	**NC**				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
TDS Ratio (SM 1030E)	**NC**				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Sulfate (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Alkalinity (SM 1030E (meq))	**0.00**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Iron (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		0.50		mg/L			05/10/22 00:40	1
Sulfate (EPA 300.0)	ND		1.0		mg/L			05/10/22 00:40	1

Client Sample ID: FB4

Lab Sample ID: 280-161448-3

Date Collected: 04/22/22 09:10

Matrix: Water

Date Received: 04/23/22 11:25

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			05/09/22 13:46	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/02/22 18:04	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			05/04/22 22:09	1
Bicarbonate Alkalinity (SM 2320B)	ND		10		mg/L			05/03/22 22:58	1
Total Dissolved Solids (SM 2540C)	ND		10		mg/L			04/28/22 12:14	1

Client Sample ID: DUP4

Lab Sample ID: 280-161448-4

Date Collected: 04/22/22 09:30

Matrix: Water

Date Received: 04/23/22 11:25

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 13:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 13:23	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 13:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 13:23	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 13:23	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 13:23	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 13:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 13:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 13:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 13:23	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 13:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 13:23	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 13:23	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 13:23	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 13:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 13:23	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 13:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 13:23	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 13:23	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 13:23	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 13:23	1
2-Hexanone	ND		5.0		ug/L			05/05/22 13:23	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 13:23	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 13:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 13:23	1
Acetone	ND		10		ug/L			05/05/22 13:23	1
Benzene	ND		1.0		ug/L			05/05/22 13:23	1
Bromobenzene	ND		1.0		ug/L			05/05/22 13:23	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 13:23	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 13:23	1
Bromoform	ND		1.0		ug/L			05/05/22 13:23	1
Bromomethane	ND		2.0		ug/L			05/05/22 13:23	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 13:23	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 13:23	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 13:23	1
Chloroethane	ND		2.0		ug/L			05/05/22 13:23	1
Chloroform	ND		1.0		ug/L			05/05/22 13:23	1

Client Sample ID: DUP4

Date Collected: 04/22/22 09:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161448-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		2.0		ug/L			05/05/22 13:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 13:23	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 13:23	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 13:23	1
Dibromomethane	ND		1.0		ug/L			05/05/22 13:23	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 13:23	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 13:23	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 13:23	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 13:23	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 13:23	1
Naphthalene	ND		1.0		ug/L			05/05/22 13:23	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 13:23	1
N-Propylbenzene	ND		1.0		ug/L			05/05/22 13:23	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 13:23	1
Styrene	ND		1.0		ug/L			05/05/22 13:23	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 13:23	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 13:23	1
Toluene	ND		1.0		ug/L			05/05/22 13:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 13:23	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 13:23	1
Trichloroethene	ND		1.0		ug/L			05/05/22 13:23	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 13:23	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 13:23	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 13:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/22 13:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*05/05/22 13:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*05/05/22 13:23*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*05/05/22 13:23*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*05/05/22 13:23*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/06/22 17:04	05/07/22 03:14	1
1,2-Dibromoethane	ND		0.050		ug/L		05/06/22 17:04	05/07/22 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*114*		*70 - 130*	*05/06/22 17:04*	*05/07/22 03:14*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**34000**		500		ug/L		05/04/22 09:55	05/05/22 11:57	1
Iron	**360**		30		ug/L		05/04/22 09:55	05/05/22 11:57	1
Magnesium	**12000**		200		ug/L		05/04/22 09:55	05/05/22 11:57	1
Manganese	**200**		3.0		ug/L		05/04/22 09:55	05/05/22 11:57	1
Potassium	**1100**		500		ug/L		05/04/22 09:55	05/05/22 11:57	1
Sodium	**11000**		1000		ug/L		05/04/22 09:55	05/05/22 11:57	1

Client Sample ID: DUP4
Date Collected: 04/22/22 09:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161448-4
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	3.3				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	3.2				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	-1.9				%			05/10/22 12:14	1
Calcium (SM 1030E)	34				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	12				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	1.1				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	11				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	22				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	5.1				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	130				mg/L			05/10/22 12:14	1
Alkalinity (SM 1030E)	130				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	0.12				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	-1.9				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	160				mg/L			05/10/22 12:14	1
TDS Ratio (SM 1030E)	1.2				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	190				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	0.36				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	1.7				meq/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	0.99				meq/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	0.028				meq/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	0.48				meq/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	0.00				meq/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	0.62				meq/L			05/10/22 12:14	1
Sulfate (SM 1030E (meq))	0.11				meq/L			05/10/22 12:14	1
Alkalinity (SM 1030E (meq))	130				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E (meq))	2.6				meq/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	0.0086				meq/L			05/10/22 12:14	1
Iron (SM 1030E (meq))	0.019				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	22		0.50		mg/L			05/10/22 01:00	1
Sulfate (EPA 300.0)	5.1		1.0		mg/L			05/10/22 01:00	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			05/09/22 13:48	1
Nitrate/Nitrite (EPA 353.2)	0.12		0.050		mg/L			05/02/22 18:06	1
Total Organic Carbon - Average (SW846 9060)	2.2		1.0		mg/L			05/02/22 17:08	1
Bicarbonate Alkalinity (SM 2320B)	130		10		mg/L			05/05/22 20:57	1
Total Dissolved Solids (SM 2540C)	190		10		mg/L			04/28/22 12:14	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161448-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-161448-1	TB3	101	97	100	102
280-161448-2	MW-19A	100	98	101	101
280-161448-3	FB4	103	97	101	102
280-161448-4	DUP4	101	98	101	104
LCS 280-573931/4	Lab Control Sample	95	98	97	101
LCSD 280-573931/5	Lab Control Sample Dup	99	97	97	102
MB 280-573931/9	Method Blank	99	97	99	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-161448-1	TB3	106
280-161448-2	MW-19A	114
280-161448-3	FB4	106
280-161448-4	DUP4	114
LCS 280-574184/2-A	Lab Control Sample	117
LCSD 280-574184/3-A	Lab Control Sample Dup	117
MB 280-574184/1-A	Method Blank	117

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-573931/9
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 08:25	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 08:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 08:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 08:25	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 08:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 08:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 08:25	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 08:25	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 08:25	1
2-Hexanone	ND		5.0		ug/L			05/05/22 08:25	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 08:25	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 08:25	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 08:25	1
Acetone	ND		10		ug/L			05/05/22 08:25	1
Benzene	ND		1.0		ug/L			05/05/22 08:25	1
Bromobenzene	ND		1.0		ug/L			05/05/22 08:25	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 08:25	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 08:25	1
Bromoform	ND		1.0		ug/L			05/05/22 08:25	1
Bromomethane	ND		2.0		ug/L			05/05/22 08:25	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 08:25	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 08:25	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 08:25	1
Chloroethane	ND		2.0		ug/L			05/05/22 08:25	1
Chloroform	ND		1.0		ug/L			05/05/22 08:25	1
Chloromethane	ND		2.0		ug/L			05/05/22 08:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 08:25	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 08:25	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 08:25	1
Dibromomethane	ND		1.0		ug/L			05/05/22 08:25	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 08:25	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 08:25	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 08:25	1
Naphthalene	ND		1.0		ug/L			05/05/22 08:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573931/9
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
N-Propylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
Styrene	ND		1.0		ug/L			05/05/22 08:25	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 08:25	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 08:25	1
Toluene	ND		1.0		ug/L			05/05/22 08:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 08:25	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 08:25	1
Trichloroethene	ND		1.0		ug/L			05/05/22 08:25	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 08:25	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 08:25	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 08:25	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/22 08:25*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*05/05/22 08:25*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/05/22 08:25*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*05/05/22 08:25*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*05/05/22 08:25*	*1*

Lab Sample ID: LCS 280-573931/4
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	74 - 121
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	62 - 132
1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	72 - 122
1,1,2-Trichloroethane	25.0	24.4		ug/L		98	72 - 128
1,1-Dichloroethane	25.0	24.2		ug/L		97	66 - 130
1,1-Dichloroethene	25.0	25.9		ug/L		104	62 - 130
1,1-Dichloropropene	25.0	25.2		ug/L		101	64 - 133
1,2,3-Trichlorobenzene	25.0	21.6		ug/L		86	70 - 127
1,2,3-Trichloropropane	25.0	25.7		ug/L		103	74 - 123
1,2,4-Trichlorobenzene	25.0	21.6		ug/L		86	73 - 124
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	74 - 124
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	77 - 121
1,2-Dichloroethane	25.0	23.1		ug/L		93	61 - 130
1,2-Dichloropropane	25.0	24.0		ug/L		96	68 - 127
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	73 - 127
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	76 - 121
1,3-Dichloropropane	25.0	25.3		ug/L		101	80 - 118
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	76 - 119
2,2-Dichloropropane	25.0	23.5		ug/L		94	57 - 140
2-Butanone (MEK)	100	84.0		ug/L		84	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573931/4
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	25.0	24.5		ug/L		98	75 - 123
2-Hexanone	100	87.9		ug/L		88	58 - 134
4-Chlorotoluene	25.0	24.4		ug/L		98	74 - 124
4-Isopropyltoluene	25.0	24.1		ug/L		96	74 - 127
4-Methyl-2-pentanone	100	83.9		ug/L		84	56 - 135
Acetone	100	87.5		ug/L		88	50 - 137
Benzene	25.0	24.2		ug/L		97	69 - 126
Bromobenzene	25.0	24.1		ug/L		96	75 - 122
Bromochloromethane	25.0	25.0		ug/L		100	71 - 130
Bromodichloromethane	25.0	23.5		ug/L		94	67 - 126
Bromoform	25.0	23.1		ug/L		93	57 - 125
Bromomethane	25.0	25.6		ug/L		103	25 - 163
Carbon disulfide	25.0	26.3		ug/L		105	56 - 128
Carbon tetrachloride	25.0	24.8		ug/L		99	60 - 133
Chlorobenzene	25.0	24.7		ug/L		99	78 - 118
Chloroethane	25.0	26.6		ug/L		106	52 - 144
Chloroform	25.0	24.3		ug/L		97	68 - 128
Chloromethane	25.0	23.1		ug/L		92	43 - 142
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	69 - 126
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	75 - 120
Dibromochloromethane	25.0	24.6		ug/L		99	71 - 122
Dibromomethane	25.0	24.2		ug/L		97	68 - 129
Dichlorodifluoromethane	25.0	23.5		ug/L		94	26 - 152
Ethylbenzene	25.0	24.8		ug/L		99	76 - 121
Hexachlorobutadiene	25.0	23.1		ug/L		92	69 - 133
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 127
Methylene Chloride	25.0	25.7		ug/L		103	64 - 128
Naphthalene	25.0	20.7		ug/L		83	63 - 129
n-Butylbenzene	25.0	24.7		ug/L		99	69 - 130
N-Propylbenzene	25.0	25.2		ug/L		101	73 - 127
sec-Butylbenzene	25.0	25.4		ug/L		102	72 - 127
Styrene	25.0	23.8		ug/L		95	79 - 120
tert-Butylbenzene	25.0	24.5		ug/L		98	72 - 126
Tetrachloroethene	25.0	24.9		ug/L		100	72 - 127
Toluene	25.0	25.8		ug/L		103	68 - 127
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	66 - 129
trans-1,3-Dichloropropene	25.0	22.6		ug/L		90	66 - 127
Trichloroethene	25.0	24.6		ug/L		99	70 - 125
Trichlorofluoromethane	25.0	25.8		ug/L		103	57 - 144
Vinyl chloride	25.0	26.0		ug/L		104	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573931/5
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	23.5		ug/L		94	74 - 121	2	20
1,1,1-Trichloroethane			25.0	23.7		ug/L		95	62 - 132	3	20
1,1,2,2-Tetrachloroethane			25.0	23.9		ug/L		96	72 - 122	3	20
1,1,2-Trichloroethane			25.0	24.4		ug/L		98	72 - 128	0	20
1,1-Dichloroethane			25.0	23.4		ug/L		94	66 - 130	3	20
1,1-Dichloroethene			25.0	25.0		ug/L		100	62 - 130	3	21
1,1-Dichloropropene			25.0	24.3		ug/L		97	64 - 133	4	20
1,2,3-Trichlorobenzene			25.0	21.8		ug/L		87	70 - 127	1	20
1,2,3-Trichloropropane			25.0	25.1		ug/L		100	74 - 123	2	20
1,2,4-Trichlorobenzene			25.0	21.8		ug/L		87	73 - 124	1	20
1,2,4-Trimethylbenzene			25.0	22.8		ug/L		91	74 - 124	4	20
1,2-Dichlorobenzene			25.0	24.3		ug/L		97	77 - 121	2	20
1,2-Dichloroethane			25.0	23.0		ug/L		92	61 - 130	1	20
1,2-Dichloropropane			25.0	23.7		ug/L		95	68 - 127	1	20
1,3,5-Trimethylbenzene			25.0	23.8		ug/L		95	73 - 127	4	20
1,3-Dichlorobenzene			25.0	23.2		ug/L		93	76 - 121	3	20
1,3-Dichloropropane			25.0	25.5		ug/L		102	80 - 118	1	20
1,4-Dichlorobenzene			25.0	24.3		ug/L		97	76 - 119	1	20
2,2-Dichloropropane			25.0	22.5		ug/L		90	57 - 140	4	22
2-Butanone (MEK)			100	84.2		ug/L		84	53 - 135	0	20
2-Chlorotoluene			25.0	23.8		ug/L		95	75 - 123	3	20
2-Hexanone			100	88.7		ug/L		89	58 - 134	1	21
4-Chlorotoluene			25.0	23.4		ug/L		94	74 - 124	4	20
4-Isopropyltoluene			25.0	23.1		ug/L		92	74 - 127	4	20
4-Methyl-2-pentanone			100	84.8		ug/L		85	56 - 135	1	20
Acetone			100	89.6		ug/L		90	50 - 137	2	21
Benzene			25.0	23.7		ug/L		95	69 - 126	2	20
Bromobenzene			25.0	23.4		ug/L		94	75 - 122	3	20
Bromochloromethane			25.0	24.2		ug/L		97	71 - 130	3	20
Bromodichloromethane			25.0	23.1		ug/L		92	67 - 126	2	20
Bromoform			25.0	23.2		ug/L		93	57 - 125	0	20
Bromomethane			25.0	25.5		ug/L		102	25 - 163	1	40
Carbon disulfide			25.0	25.5		ug/L		102	56 - 128	3	20
Carbon tetrachloride			25.0	24.0		ug/L		96	60 - 133	4	20
Chlorobenzene			25.0	24.3		ug/L		97	78 - 118	1	20
Chloroethane			25.0	25.4		ug/L		102	52 - 144	4	30
Chloroform			25.0	23.9		ug/L		96	68 - 128	2	20
Chloromethane			25.0	22.3		ug/L		89	43 - 142	3	20
cis-1,2-Dichloroethene			25.0	23.2		ug/L		93	69 - 126	2	20
cis-1,3-Dichloropropene			25.0	23.5		ug/L		94	75 - 120	1	20
Dibromochloromethane			25.0	24.5		ug/L		98	71 - 122	1	20
Dibromomethane			25.0	23.4		ug/L		94	68 - 129	3	20
Dichlorodifluoromethane			25.0	20.9		ug/L		84	26 - 152	12	21
Ethylbenzene			25.0	24.0		ug/L		96	76 - 121	3	20
Hexachlorobutadiene			25.0	22.9		ug/L		91	69 - 133	1	20
Isopropylbenzene			25.0	23.8		ug/L		95	70 - 127	4	20
Methylene Chloride			25.0	25.7		ug/L		103	64 - 128	0	20
Naphthalene			25.0	20.9		ug/L		84	63 - 129	1	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573931/5
Matrix: Water
Analysis Batch: 573931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene	25.0	24.3		ug/L		97	69 - 130	1	20
N-Propylbenzene	25.0	24.3		ug/L		97	73 - 127	4	20
sec-Butylbenzene	25.0	24.6		ug/L		98	72 - 127	3	20
Styrene	25.0	23.5		ug/L		94	79 - 120	1	20
tert-Butylbenzene	25.0	23.7		ug/L		95	72 - 126	3	20
Tetrachloroethene	25.0	24.4		ug/L		98	72 - 127	2	20
Toluene	25.0	25.3		ug/L		101	68 - 127	2	20
trans-1,2-Dichloroethene	25.0	25.7		ug/L		103	66 - 129	2	20
trans-1,3-Dichloropropene	25.0	22.4		ug/L		90	66 - 127	1	20
Trichloroethene	25.0	24.5		ug/L		98	70 - 125	0	20
Trichlorofluoromethane	25.0	23.3		ug/L		93	57 - 144	10	28
Vinyl chloride	25.0	24.0		ug/L		96	53 - 141	8	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-574184/1-A
Matrix: Water
Analysis Batch: 574190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/06/22 17:04	05/06/22 23:39	1
1,2-Dibromoethane	ND		0.050		ug/L		05/06/22 17:04	05/06/22 23:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*117*		*70 - 130*	*05/06/22 17:04*	*05/06/22 23:39*	*1*

Lab Sample ID: LCS 280-574184/2-A
Matrix: Water
Analysis Batch: 574190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.250	0.253		ug/L		101	60 - 140
1,2-Dibromoethane	0.250	0.272		ug/L		109	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*117*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 280-574184/3-A
Matrix: Water
Analysis Batch: 574190

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574184

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.250		ug/L		100	60 - 140	1	10
1,2-Dibromoethane			0.250	0.270		ug/L		108	60 - 140	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*117*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-573718/1-A
Matrix: Water
Analysis Batch: 574034

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573718

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/04/22 09:55	05/05/22 09:47	1
Iron	ND		30		ug/L		05/04/22 09:55	05/05/22 09:47	1
Magnesium	ND		200		ug/L		05/04/22 09:55	05/05/22 09:47	1
Manganese	ND		3.0		ug/L		05/04/22 09:55	05/05/22 09:47	1
Potassium	ND		500		ug/L		05/04/22 09:55	05/05/22 09:47	1
Sodium	ND		1000		ug/L		05/04/22 09:55	05/05/22 09:47	1

Lab Sample ID: LCS 280-573718/2-A
Matrix: Water
Analysis Batch: 574115

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573718

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50000	49400		ug/L		99	90 - 111		
Iron			10000	9800		ug/L		98	89 - 115		
Magnesium			50000	48500		ug/L		97	90 - 113		
Manganese			1000	960		ug/L		96	90 - 110		
Potassium			50000	49300		ug/L		99	89 - 114		
Sodium			50000	49600		ug/L		99	90 - 115		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-625182/28
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			05/09/22 22:42	1
Sulfate	ND		1.0		mg/L			05/09/22 22:42	1

Lab Sample ID: LCS 480-625182/29
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.1	50.9		mg/L		102	90 - 110		
Sulfate			50.0	52.1		mg/L		104	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-161448-4 MS
Matrix: Water
Analysis Batch: 625182

Client Sample ID: DUP4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	22		50.1	68.3		mg/L		93	81 - 120
Sulfate	5.1		50.0	53.9		mg/L		97	80 - 120

Lab Sample ID: 280-161448-4 MSD
Matrix: Water
Analysis Batch: 625182

Client Sample ID: DUP4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22		50.1	68.6		mg/L		93	81 - 120	0	15
Sulfate	5.1		50.0	54.0		mg/L		98	80 - 120	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-574325/18
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			05/09/22 12:50	1

Lab Sample ID: LCS 280-574325/17
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	5.00	4.85		mg/L		97	90 - 110

Lab Sample ID: 280-161446-C-4 MS
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	ND		1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 280-161446-C-4 MSD
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.05		mg/L		105	90 - 110	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-573635/22
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			05/02/22 16:56	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 280-573635/21
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite			5.00	5.17		mg/L		103	90 - 110		

Lab Sample ID: 280-161417-B-2 MS
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite	0.065		4.00	4.26		mg/L		105	90 - 110		

Lab Sample ID: 280-161417-B-2 MSD
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	0.065		4.00	4.29		mg/L		106	90 - 110	1	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-573694/4
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			05/02/22 15:25	1

Lab Sample ID: LCS 280-573694/3
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	24.6		mg/L		98	88 - 112		

Lab Sample ID: 280-161491-A-1 MS
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	1.6		25.0	27.2		mg/L		102	88 - 112		

Lab Sample ID: 280-161491-A-1 MSD
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.6		25.0	27.5		mg/L		103	88 - 112	1	15

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 280-574005/4
Matrix: Water
Analysis Batch: 574005

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			05/04/22 19:53	1

Lab Sample ID: LCS 280-574005/3
Matrix: Water
Analysis Batch: 574005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	24.8		mg/L		99	88 - 112		

Lab Sample ID: 280-161462-B-2 MS
Matrix: Water
Analysis Batch: 574005

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	1.3		25.0	26.1		mg/L		99	88 - 112		

Lab Sample ID: 280-161462-B-2 MSD
Matrix: Water
Analysis Batch: 574005

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.3		25.0	26.0		mg/L		99	88 - 112	0	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-574431/1
Matrix: Water
Analysis Batch: 574431

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			05/10/22 12:14	1
Magnesium	0.000				meq/L			05/10/22 12:14	1
Potassium	0.000				meq/L			05/10/22 12:14	1
Sodium	0.000				meq/L			05/10/22 12:14	1
Ammonia as N	0.000				meq/L			05/10/22 12:14	1
Chloride	0.000				meq/L			05/10/22 12:14	1
Sulfate	0.000				meq/L			05/10/22 12:14	1
Alkalinity	0.000				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	0.000				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.000				meq/L			05/10/22 12:14	1
Iron	0.000				meq/L			05/10/22 12:14	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-573792/58
Matrix: Water
Analysis Batch: 573792

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			05/03/22 18:49	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 280-574081/32
Matrix: Water
Analysis Batch: 574081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			05/05/22 16:09	1

Lab Sample ID: MB 280-574081/58
Matrix: Water
Analysis Batch: 574081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			05/05/22 19:22	1

Lab Sample ID: MB 280-574081/6
Matrix: Water
Analysis Batch: 574081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			05/05/22 13:20	1

Lab Sample ID: 280-161446-A-5 DU
Matrix: Water
Analysis Batch: 574081

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	ND			ND		mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-573280/1
Matrix: Water
Analysis Batch: 573280

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/28/22 11:53	1

Lab Sample ID: LCS 280-573280/2
Matrix: Water
Analysis Batch: 573280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			505	493		mg/L		98	88 - 114		

Lab Sample ID: 280-161448-2 DU
Matrix: Water
Analysis Batch: 573280

Client Sample ID: MW-19A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	190			190		mg/L				1	10

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 280-573282/1
Matrix: Water
Analysis Batch: 573282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/28/22 11:57	1

Lab Sample ID: LCS 280-573282/2
Matrix: Water
Analysis Batch: 573282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			505	491		mg/L		97	88 - 114		

Lab Sample ID: 280-161448-3 DU
Matrix: Water
Analysis Batch: 573282

Client Sample ID: FB4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	ND			ND		mg/L				NC	10

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161448-1

GC/MS VOA

Analysis Batch: 573931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-1	TB3	Total/NA	Water	8260B	
280-161448-2	MW-19A	Total/NA	Water	8260B	
280-161448-3	FB4	Total/NA	Water	8260B	
280-161448-4	DUP4	Total/NA	Water	8260B	
MB 280-573931/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573931/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573931/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 574184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-1	TB3	Total/NA	Water	8011	
280-161448-2	MW-19A	Total/NA	Water	8011	
280-161448-3	FB4	Total/NA	Water	8011	
280-161448-4	DUP4	Total/NA	Water	8011	
MB 280-574184/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-574184/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-574184/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 574190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-1	TB3	Total/NA	Water	8011	574184
280-161448-2	MW-19A	Total/NA	Water	8011	574184
280-161448-3	FB4	Total/NA	Water	8011	574184
280-161448-4	DUP4	Total/NA	Water	8011	574184
MB 280-574184/1-A	Method Blank	Total/NA	Water	8011	574184
LCS 280-574184/2-A	Lab Control Sample	Total/NA	Water	8011	574184
LCSD 280-574184/3-A	Lab Control Sample Dup	Total/NA	Water	8011	574184

Metals

Prep Batch: 573718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-2	MW-19A	Dissolved	Water	3005A	
280-161448-3	FB4	Dissolved	Water	3005A	
280-161448-4	DUP4	Dissolved	Water	3005A	
MB 280-573718/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573718/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 574034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-2	MW-19A	Dissolved	Water	6010B	573718
280-161448-3	FB4	Dissolved	Water	6010B	573718
280-161448-4	DUP4	Dissolved	Water	6010B	573718
MB 280-573718/1-A	Method Blank	Total Recoverable	Water	6010B	573718

Analysis Batch: 574115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-573718/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573718

General Chemistry

Analysis Batch: 573280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-2	MW-19A	Total/NA	Water	SM 2540C	
MB 280-573280/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-573280/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-161448-2 DU	MW-19A	Total/NA	Water	SM 2540C	

Analysis Batch: 573282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-3	FB4	Total/NA	Water	SM 2540C	
280-161448-4	DUP4	Total/NA	Water	SM 2540C	
MB 280-573282/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-573282/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-161448-3 DU	FB4	Total/NA	Water	SM 2540C	

Analysis Batch: 573635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-2	MW-19A	Total/NA	Water	353.2	
280-161448-3	FB4	Total/NA	Water	353.2	
280-161448-4	DUP4	Total/NA	Water	353.2	
MB 280-573635/22	Method Blank	Total/NA	Water	353.2	
LCS 280-573635/21	Lab Control Sample	Total/NA	Water	353.2	
280-161417-B-2 MS	Matrix Spike	Total/NA	Water	353.2	
280-161417-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 573694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-4	DUP4	Total/NA	Water	9060	
MB 280-573694/4	Method Blank	Total/NA	Water	9060	
LCS 280-573694/3	Lab Control Sample	Total/NA	Water	9060	
280-161491-A-1 MS	Matrix Spike	Total/NA	Water	9060	
280-161491-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 573792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-2	MW-19A	Total/NA	Water	SM 2320B	
280-161448-3	FB4	Total/NA	Water	SM 2320B	
MB 280-573792/58	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-573792/57	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 574005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-2	MW-19A	Total/NA	Water	9060	
280-161448-3	FB4	Total/NA	Water	9060	
MB 280-574005/4	Method Blank	Total/NA	Water	9060	
LCS 280-574005/3	Lab Control Sample	Total/NA	Water	9060	
280-161462-B-2 MS	Matrix Spike	Total/NA	Water	9060	
280-161462-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 574081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-4	DUP4	Total/NA	Water	SM 2320B	
MB 280-574081/32	Method Blank	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 574081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-574081/58	Method Blank	Total/NA	Water	SM 2320B	
MB 280-574081/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-574081/57	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-574081/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-161446-A-5 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 574325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-2	MW-19A	Total/NA	Water	350.1	
280-161448-3	FB4	Total/NA	Water	350.1	
280-161448-4	DUP4	Total/NA	Water	350.1	
MB 280-574325/18	Method Blank	Total/NA	Water	350.1	
LCS 280-574325/17	Lab Control Sample	Total/NA	Water	350.1	
280-161446-C-4 MS	Matrix Spike	Total/NA	Water	350.1	
280-161446-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 574431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-2	MW-19A	Total/NA	Water	SM 1030E	
280-161448-2	MW-19A	Total/NA	Water	SM 1030E (meq)	
280-161448-3	FB4	Total/NA	Water	SM 1030E	
280-161448-3	FB4	Total/NA	Water	SM 1030E (meq)	
280-161448-4	DUP4	Total/NA	Water	SM 1030E	
280-161448-4	DUP4	Total/NA	Water	SM 1030E (meq)	
MB 280-574431/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 625182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-2	MW-19A	Total/NA	Water	300.0	
280-161448-3	FB4	Total/NA	Water	300.0	
280-161448-4	DUP4	Total/NA	Water	300.0	
MB 480-625182/28	Method Blank	Total/NA	Water	300.0	
LCS 480-625182/29	Lab Control Sample	Total/NA	Water	300.0	
280-161448-4 MS	DUP4	Total/NA	Water	300.0	
280-161448-4 MSD	DUP4	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 572963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161448-2	MW-19A	Total/NA	Water	Field Sampling	

Client Sample ID: TB3
Lab Sample ID: 280-161448-1
Date Collected: 04/22/22 07:00
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573931	05/05/22 09:50	TAW	EET DEN
Total/NA	Prep	8011			34.7 mL	35 mL	574184	05/06/22 17:04	KSA	EET DEN
Total/NA	Analysis	8011		1			574190	05/07/22 02:02	KSA	EET DEN

Client Sample ID: MW-19A
Lab Sample ID: 280-161448-2
Date Collected: 04/22/22 09:25
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573931	05/05/22 12:41	TAW	EET DEN
Total/NA	Prep	8011			35 mL	35 mL	574184	05/06/22 17:04	KSA	EET DEN
Total/NA	Analysis	8011		1			574190	05/07/22 02:26	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 11:27	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/10/22 00:20	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 13:43	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 18:02	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	574005	05/04/22 21:53	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 22:52	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573280	04/28/22 11:53	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/22/22 10:25	TJ	EET DEN

Client Sample ID: FB4
Lab Sample ID: 280-161448-3
Date Collected: 04/22/22 09:10
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573931	05/05/22 13:02	TAW	EET DEN
Total/NA	Prep	8011			35.3 mL	35 mL	574184	05/06/22 17:04	KSA	EET DEN
Total/NA	Analysis	8011		1			574190	05/07/22 02:50	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 11:53	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/10/22 00:40	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 13:46	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 18:04	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	574005	05/04/22 22:09	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 22:58	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573282	04/28/22 12:14	ABW	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161448-1

Client Sample ID: DUP4

Date Collected: 04/22/22 09:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161448-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573931	05/05/22 13:23	TAW	EET DEN
Total/NA	Prep	8011			34.9 mL	35 mL	574184	05/06/22 17:04	KSA	EET DEN
Total/NA	Analysis	8011		1			574190	05/07/22 03:14	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 11:57	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/10/22 01:00	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 13:48	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 18:06	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573694	05/02/22 17:08	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			574081	05/05/22 20:57	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573282	04/28/22 12:14	ABW	EET DEN

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: I. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16508-865.1
Client Contact:	Phone: 503 716 6320	E-Mail: Betsy.Sara@Eurofinset.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name:1003|Riverbend Landfill SCS Engineers Event Desc: Semiannual Detection Wells - Apr Oct	Project #: 28002786			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alk	Dissolved Metals	Ammonia/TOC/NO3+NO2	8260B	8011	Cation/Anion Balance	Chloride/Sulfate (TA Buffalo)							Total Number of containers	Special Instructions/Note:
Preservation Code:							N	D	S	A	R		N								
TB3	4/22/22	0700	G	W						X	X									5	
MW-19A	4/22/22	0925	G	W	X		X	X	X	X	X	X	X							11	
FB4	4/22/22	0910	G	W	X		X	X	X	X	X	X	X							11	
DUP4	4/22/22	0930	G	W	X		X	X	X	X	X	X	X							11	

280-161448 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 4/22/22 @ 1630	Company: SCS	Received by:	Date/Time: 4/23/22 1125	Company: EA/DEN
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: ☒ Yes ☐ No | Custody Seal No.: 1442296

Cooler Temperature(s) °C and Other Remarks: 2.6/1.0 IR12 CF+0.1

3/10/2023

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: I. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16508-865.1
Client Contact:	Phone: 503 7166320	E-Mail: Betsy.Sara@Eurofinset.com		Page: Page 1 of 1
Company: Waste Management				Job #
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers Event Desc: Semiannual Detection Wells - Apr Oct	Project #: 28002786			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alk	Dissolved Metals	Ammonia/TOC/NO3+NO2	8260B	8011	Cation/Anion Balance	Chloride/Sulfate (TA Buffalo)							Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	R		N									
TB3	4/22/22	0700	G	W		~~X~~				X	X										5	
MW-19A	4/22/22	0925	G	W	X		X	X	X	X	X	X	X								11	
FB4	4/22/22	0910	G	W	X		X	X	X	X	X	X	X								11	
DUP4	4/22/22	0930	G	W	X		X	X	X	X	X	X	X								11	

280-161448 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		4/22/22 @ 1630	SCS		4/23/22 1125	EA/DEN
2						
3						

Custody Seals Intact: ☒ Yes ☐ No | Custody Seal No.: 14142296

Cooler Temperature(s) °C and Other Remarks: 2.6/1.0 IR12 CF+0.1

3/10/2023

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-19A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	(W)	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY	(CLOUDY)	RAIN	?	**TEMPERATURE:**	(°F) 50.0 °C					

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/22/22	08:04	32.00	.	4.79	.	27.21	X 1	4.43
/ /	:	.	.	.	.		X 3	13.29

Gal/ft = (dia./2)² x 0.163	1" =	0.041	(2") =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/22/22	09:25	F	3	(40 ml)	HCl	YES (NO)		✓
VOA Glass	4/22/22	09:25	F	3	(40 ml)	$Na_2S_2O_3$	YES (NO)		✓
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/22/22	09:25	F	2	(250), 500, (1L)	None	(YES)	(NO)	NA	✓
Yellow Glass	4/22/22	09:25	F	1	250, (500), 1L	H_2SO_4	YES	(NO)		✓
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/22/22	09:25	F	1	(250), 500, 1L	HNO_3	(YES)	(YES)		✓
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F(0807)	0.00	6.10	218.3	165.6	11.2	5.36	7.78	clear/colorless
1	F(0825)	4.50	7.22	38.0	362.7	11.5	~~6.88~~	4.70	cloudy/tan DTW 5.8
2	F(0857)	9.00	7.36	31.2	346.9	11.6	~~6.84~~	0.72	clear/colorless DTW 6.0
3	F(0922)	13.50	7.41	-59.2	343.0	11.6	6.06	0.76	clear/colorless
4	F(0924)	13.90	7.42	-60.6	341.4	11.6	6.07	0.78	clear/colorless
5		.	.			.	.	.	
6			.				.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Standard purge method (7/5/25 psi) ~ 750 ml/min

SAMPLER:
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** FB4

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	NE	E	SE	S	(SW)	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY	(CLOUDY)		RAIN		?			**TEMPERATURE:**	(°F) 50 .0	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Transfer

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/22/22	09:10	G	3	~~40 ml~~	~~HCl~~	YES	~~NO~~	
VOA Glass	4/22/22	09:10	G	3	40 ml	$Na_2S_2O_3$	YES	NO	
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO	
White Poly	4/22/22	09:10	G	2	250, 500, 1L	None	YES	NO	NA
Yellow Glass	4/22/22	09:10	G	2	~~250~~, 500, 1L	~~H_2SO_4~~	YES	~~NO~~	
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO	
Red Diss. Poly	4/22/22	09:10	G	1	250, 500, 1L	HNO_3	YES	YES	
White Poly	/ /	:			250, 500, 1L	None	YES	YES	
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO	

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	G (0910)	0.00	—	—	—	—.	—	—.	—
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected near MW-19A using Lab Supplied DI water

SAMPLER: J. Hultquist (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** DUP4

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	NE	E	SE	S	(SW)	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	(RAIN) JH		?				**TEMPERATURE:**	(°F 50.0 °C)	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.		.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" =	0.041	(2") =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) ~~Dedicated Pump~~ (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/22/22	09:30	F	3	~~40 ml~~	HCl	YES	NO	
VOA Glass	4/22/22	09:30	F	3	~~40 ml~~	$Na_2S_2O_3$	YES	NO	
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/22/22	09:30	F	2	~~250~~, 500 1L	None	YES	NO	NA	
Yellow Glass	4/22/22	09:30	F	1	250, ~~500~~, 1L	H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/22/22	09:30	F	1	250, ~~500~~, 1L	HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 | 11 | Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	~~(8260)~~ ~~(8011)~~ OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

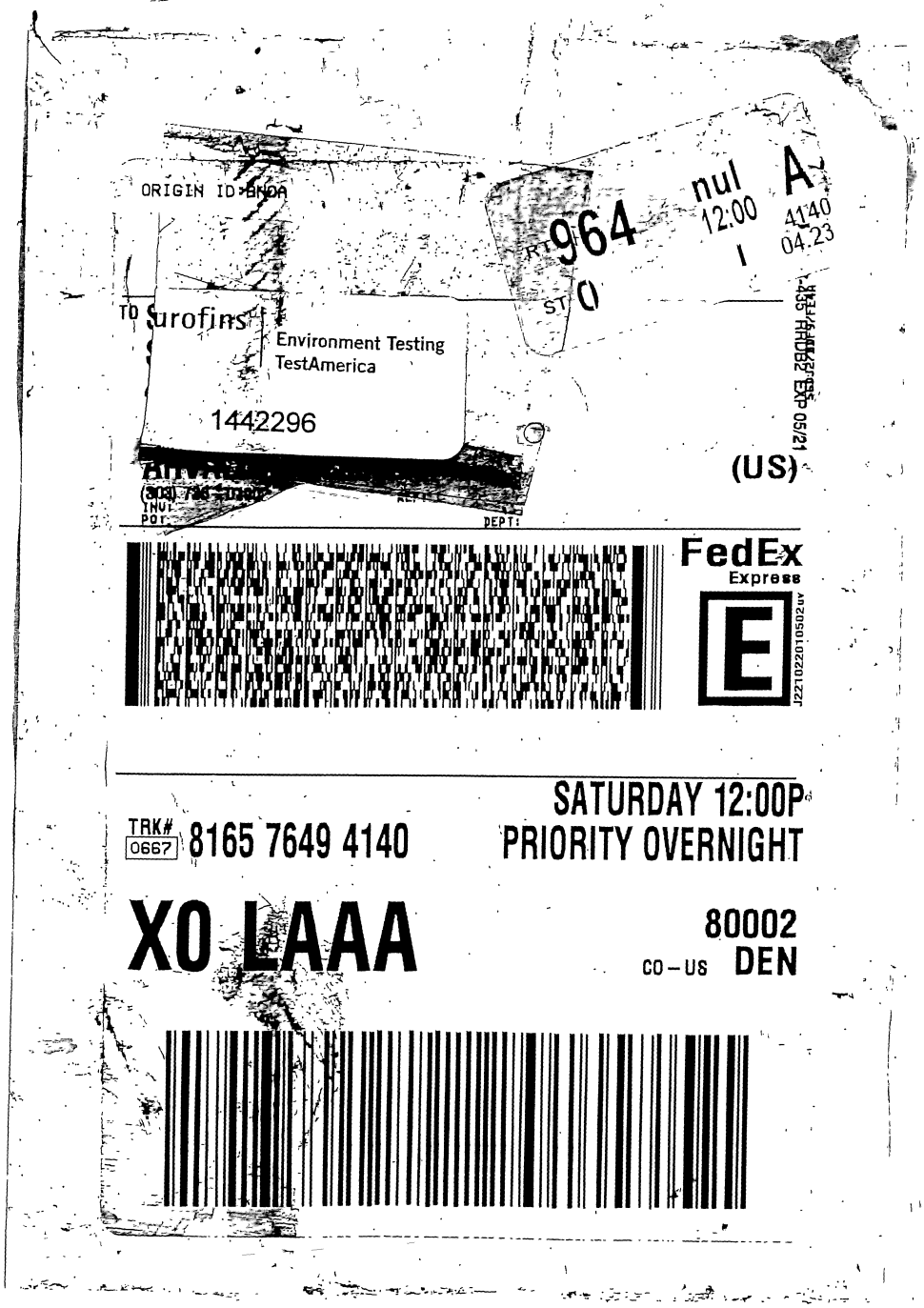
WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F(0930)	0.00	—	—	—	—	—	—	—
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity Color]

Collected @ MW-19A

SAMPLER: I Hultquist (PRINTED NAME) (SIGNATURE)



280-161448 Waybill

ORIGIN ID:BNOA
SHIP DATE: 22APR22
ACTWGT: 49.15 LB
CAD: /SSFE2300
DIMS: 22x14x13 IN
TO SAMPLE RECEIVING
EUROPHINS TEST AMERICA
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
INV:
PO:
REF:
DEPT:
(US)
FedEx
Express
TRK# 0667 8165 7649 4130
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO LAAA
80002
CO-US DEN
Part # 156297-435 REV 07 EXP 05/21
964
ST 0
nul
12:00
A
4130
04/23

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-611879.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-161448-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 5/12/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-19A (280-161448-2)	4/22/22	09:25 Pacific		Water			X	1	
FB4 (280-161448-3)	4/22/22	09:10 Pacific		Water			X	1	
DUP4 (280-161448-4)	4/22/22	09:30 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Arnold Davis	Date/Time: 4/26/22 1530	Company ETADEN	Received by: [signature]	Date/Time: 4/28/22 1000	Company TA	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.7 #1 ICE			

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161448-1

Login Number: 161448
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161448-1

Login Number: 161448
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 04/29/22 04:49 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7 ir gun #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

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JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Downgradient Det. Wells - Apr

JOB NUMBER

280-161465-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

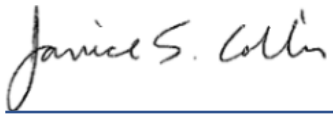
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Definitions/Glossary

Client: Waste Management
Job ID: 280-161465-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-161465-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-161465-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 04/25/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.2 C.

Holding Times

The holding times were met.

Method Blanks

All Method Blanks met method criteria.

Laboratory Control Samples (LCS)

1,2,3-Trichlorobenzene Method 8260B recovered outside control limits for the LCS associated with analytical batch 280-573456. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

All other Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-573649. An LCS/LCSD pair was analyzed for batch precision and accuracy.

All MS and MSD results were within established control limits.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161465-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-161465-1

No Detections.

Client Sample ID: MW-5A — Lab Sample ID: 280-161465-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	7.8		1.0		ug/L	1		8260B	Total/NA
Chlorobenzene	6.1		1.0		ug/L	1		8260B	Total/NA
Field pH	5.80				SU	1		Field Sampling	Total/NA
Field Conductivity	1290				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.9				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.60				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	22.7				millivolts	1		Field Sampling	Total/NA

Client Sample ID: DUP2 — Lab Sample ID: 280-161465-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	7.7		1.0		ug/L	1		8260B	Total/NA
Chlorobenzene	6.1		1.0		ug/L	1		8260B	Total/NA
Field pH	5.80				SU	1		Field Sampling	Total/NA
Field Conductivity	1290				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.9				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.60				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	22.7				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-5B — Lab Sample ID: 280-161465-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.06				SU	1		Field Sampling	Total/NA
Field Conductivity	614.40				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.0				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.78				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-54.7				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-161465-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-161465-1	TRIP BLANK	Water	04/19/22 07:00	04/25/22 08:50
280-161465-2	MW-5A	Water	04/20/22 13:30	04/25/22 08:50
280-161465-3	DUP2	Water	04/20/22 13:35	04/25/22 08:50
280-161465-4	MW-5B	Water	04/20/22 14:45	04/25/22 08:50

Method Summary

Client: Waste Management
Job ID: 280-161465-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161465-1

Client Sample ID: TRIP BLANK
Date Collected: 04/19/22 07:00
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161465-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 00:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/30/22 00:14	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 00:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/30/22 00:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/30/22 00:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/30/22 00:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/30/22 00:14	1
1,2,3-Trichlorobenzene	ND	*-	1.0		ug/L			04/30/22 00:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/30/22 00:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/30/22 00:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/30/22 00:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/30/22 00:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/30/22 00:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/30/22 00:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/30/22 00:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/30/22 00:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/30/22 00:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/30/22 00:14	1
2,2-Dichloropropane	ND		5.0		ug/L			04/30/22 00:14	1
2-Butanone (MEK)	ND		6.0		ug/L			04/30/22 00:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/30/22 00:14	1
2-Hexanone	ND		5.0		ug/L			04/30/22 00:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/30/22 00:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/30/22 00:14	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/30/22 00:14	1
Acetone	ND		10		ug/L			04/30/22 00:14	1
Benzene	ND		1.0		ug/L			04/30/22 00:14	1
Bromobenzene	ND		1.0		ug/L			04/30/22 00:14	1
Bromochloromethane	ND		1.0		ug/L			04/30/22 00:14	1
Bromodichloromethane	ND		1.0		ug/L			04/30/22 00:14	1
Bromoform	ND		1.0		ug/L			04/30/22 00:14	1
Bromomethane	ND		2.0		ug/L			04/30/22 00:14	1
Carbon disulfide	ND		2.0		ug/L			04/30/22 00:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/30/22 00:14	1
Chlorobenzene	ND		1.0		ug/L			04/30/22 00:14	1
Chloroethane	ND		2.0		ug/L			04/30/22 00:14	1
Chloroform	ND		1.0		ug/L			04/30/22 00:14	1
Chloromethane	ND		2.0		ug/L			04/30/22 00:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 00:14	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/30/22 00:14	1
Dibromochloromethane	ND		1.0		ug/L			04/30/22 00:14	1
Dibromomethane	ND		1.0		ug/L			04/30/22 00:14	1
Dichlorodifluoromethane	ND		2.0		ug/L			04/30/22 00:14	1
Ethylbenzene	ND		1.0		ug/L			04/30/22 00:14	1
Hexachlorobutadiene	ND		1.0		ug/L			04/30/22 00:14	1
Isopropylbenzene	ND		1.0		ug/L			04/30/22 00:14	1
Methylene Chloride	ND		5.0		ug/L			04/30/22 00:14	1
Naphthalene	ND		1.0		ug/L			04/30/22 00:14	1
n-Butylbenzene	ND		1.0		ug/L			04/30/22 00:14	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-161465-1

Date Collected: 04/19/22 07:00

Matrix: Water

Date Received: 04/25/22 08:50

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			04/30/22 00:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/30/22 00:14	1
Styrene	ND		1.0		ug/L			04/30/22 00:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/30/22 00:14	1
Tetrachloroethene	ND		1.0		ug/L			04/30/22 00:14	1
Toluene	ND		1.0		ug/L			04/30/22 00:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 00:14	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			04/30/22 00:14	1
Trichloroethene	ND		1.0		ug/L			04/30/22 00:14	1
Trichlorofluoromethane	ND		2.0		ug/L			04/30/22 00:14	1
Vinyl chloride	ND		1.0		ug/L			04/30/22 00:14	1
Xylenes (total)	ND		2.0		ug/L			04/30/22 00:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*6.6*	*T J*	*ug/L*		*1.45*	*N/A*		*04/30/22 00:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*		*04/30/22 00:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*04/30/22 00:14*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 120*		*04/30/22 00:14*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*04/30/22 00:14*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		04/28/22 16:47	04/29/22 16:03	1
1,2-Dibromoethane	ND		0.050		ug/L		04/28/22 16:47	04/29/22 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*111*		*70 - 130*	*04/28/22 16:47*	*04/29/22 16:03*	*1*

Client Sample ID: MW-5A

Lab Sample ID: 280-161465-2

Date Collected: 04/20/22 13:30

Matrix: Water

Date Received: 04/25/22 08:50

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 14:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 14:19	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 14:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 14:19	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 14:19	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 14:19	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 14:19	1
1,2,3-Trichlorobenzene	ND	*-	1.0		ug/L			05/03/22 14:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 14:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 14:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 14:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 14:19	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 14:19	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 14:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 14:19	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161465-1

Client Sample ID: MW-5A
Date Collected: 04/20/22 13:30
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161465-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 14:19	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 14:19	1
1,4-Dichlorobenzene	**7.8**		1.0		ug/L			05/03/22 14:19	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 14:19	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 14:19	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 14:19	1
2-Hexanone	ND		5.0		ug/L			05/03/22 14:19	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 14:19	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 14:19	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 14:19	1
Acetone	ND		10		ug/L			05/03/22 14:19	1
Benzene	ND		1.0		ug/L			05/03/22 14:19	1
Bromobenzene	ND		1.0		ug/L			05/03/22 14:19	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 14:19	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 14:19	1
Bromoform	ND		1.0		ug/L			05/03/22 14:19	1
Bromomethane	ND		2.0		ug/L			05/03/22 14:19	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 14:19	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 14:19	1
Chlorobenzene	**6.1**		1.0		ug/L			05/03/22 14:19	1
Chloroethane	ND		2.0		ug/L			05/03/22 14:19	1
Chloroform	ND		1.0		ug/L			05/03/22 14:19	1
Chloromethane	ND		2.0		ug/L			05/03/22 14:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 14:19	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 14:19	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 14:19	1
Dibromomethane	ND		1.0		ug/L			05/03/22 14:19	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 14:19	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 14:19	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 14:19	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 14:19	1
Methylene Chloride	ND		5.0		ug/L			05/03/22 14:19	1
Naphthalene	ND		1.0		ug/L			05/03/22 14:19	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 14:19	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 14:19	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 14:19	1
Styrene	ND		1.0		ug/L			05/03/22 14:19	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 14:19	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 14:19	1
Toluene	ND		1.0		ug/L			05/03/22 14:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 14:19	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 14:19	1
Trichloroethene	ND		1.0		ug/L			05/03/22 14:19	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 14:19	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 14:19	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 14:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 14:19*	*1*

Client Sample ID: MW-5A

Date Collected: 04/20/22 13:30
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161465-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 14:19*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 14:19*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 120*		*05/03/22 14:19*	*1*
Toluene-d8 (Surr)	*109*		*80 - 125*		*05/03/22 14:19*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		04/28/22 16:47	04/29/22 16:27	1
1,2-Dibromoethane	ND		0.050		ug/L		04/28/22 16:47	04/29/22 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*109*		*70 - 130*	*04/28/22 16:47*	*04/29/22 16:27*	*1*

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**5.80**				SU			04/20/22 14:30	1
Field Conductivity	**1290**				umhos/cm			04/20/22 14:30	1
Field Temperature	**13.9**				Degrees C			04/20/22 14:30	1
Field Dissolved Oxygen	**0.60**				mg/L			04/20/22 14:30	1
Field EH/ORP	**22.7**				millivolts			04/20/22 14:30	1

Client Sample ID: DUP2

Date Collected: 04/20/22 13:35
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161465-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 14:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 14:40	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 14:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 14:40	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 14:40	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 14:40	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 14:40	1
1,2,3-Trichlorobenzene	ND	*-	1.0		ug/L			05/03/22 14:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 14:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 14:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 14:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 14:40	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 14:40	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 14:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 14:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 14:40	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 14:40	1
1,4-Dichlorobenzene	**7.7**		1.0		ug/L			05/03/22 14:40	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 14:40	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 14:40	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 14:40	1
2-Hexanone	ND		5.0		ug/L			05/03/22 14:40	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 14:40	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 14:40	1

Client Sample ID: DUP2
Date Collected: 04/20/22 13:35
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161465-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 14:40	1
Acetone	ND		10		ug/L			05/03/22 14:40	1
Benzene	ND		1.0		ug/L			05/03/22 14:40	1
Bromobenzene	ND		1.0		ug/L			05/03/22 14:40	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 14:40	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 14:40	1
Bromoform	ND		1.0		ug/L			05/03/22 14:40	1
Bromomethane	ND		2.0		ug/L			05/03/22 14:40	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 14:40	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 14:40	1
Chlorobenzene	**6.1**		1.0		ug/L			05/03/22 14:40	1
Chloroethane	ND		2.0		ug/L			05/03/22 14:40	1
Chloroform	ND		1.0		ug/L			05/03/22 14:40	1
Chloromethane	ND		2.0		ug/L			05/03/22 14:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 14:40	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 14:40	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 14:40	1
Dibromomethane	ND		1.0		ug/L			05/03/22 14:40	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 14:40	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 14:40	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 14:40	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 14:40	1
Methylene Chloride	ND		5.0		ug/L			05/03/22 14:40	1
Naphthalene	ND		1.0		ug/L			05/03/22 14:40	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 14:40	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 14:40	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 14:40	1
Styrene	ND		1.0		ug/L			05/03/22 14:40	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 14:40	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 14:40	1
Toluene	ND		1.0		ug/L			05/03/22 14:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 14:40	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 14:40	1
Trichloroethene	ND		1.0		ug/L			05/03/22 14:40	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 14:40	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 14:40	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 14:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 14:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*		*05/03/22 14:40*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 14:40*	*1*
Dibromofluoromethane (Surr)	*88*		*77 - 120*		*05/03/22 14:40*	*1*
Toluene-d8 (Surr)	*110*		*80 - 125*		*05/03/22 14:40*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		04/28/22 16:47	04/29/22 16:51	1

Client Sample ID: DUP2

Date Collected: 04/20/22 13:35
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161465-3
Matrix: Water

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/L		04/28/22 16:47	04/29/22 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*113*		*70 - 130*	*04/28/22 16:47*	*04/29/22 16:51*	*1*

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**5.80**				SU			04/20/22 14:35	1
Field Conductivity	**1290**				umhos/cm			04/20/22 14:35	1
Field Temperature	**13.9**				Degrees C			04/20/22 14:35	1
Field Dissolved Oxygen	**0.60**				mg/L			04/20/22 14:35	1
Field EH/ORP	**22.7**				millivolts			04/20/22 14:35	1

Client Sample ID: MW-5B

Date Collected: 04/20/22 14:45
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161465-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 15:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 15:02	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 15:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 15:02	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 15:02	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 15:02	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 15:02	1
1,2,3-Trichlorobenzene	ND	*-	1.0		ug/L			05/03/22 15:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 15:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 15:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 15:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 15:02	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 15:02	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 15:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 15:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 15:02	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 15:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 15:02	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 15:02	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 15:02	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 15:02	1
2-Hexanone	ND		5.0		ug/L			05/03/22 15:02	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 15:02	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 15:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 15:02	1
Acetone	ND		10		ug/L			05/03/22 15:02	1
Benzene	ND		1.0		ug/L			05/03/22 15:02	1
Bromobenzene	ND		1.0		ug/L			05/03/22 15:02	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 15:02	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 15:02	1
Bromoform	ND		1.0		ug/L			05/03/22 15:02	1

Client Sample ID: MW-5B
Date Collected: 04/20/22 14:45
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161465-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		2.0		ug/L			05/03/22 15:02	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 15:02	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 15:02	1
Chlorobenzene	ND		1.0		ug/L			05/03/22 15:02	1
Chloroethane	ND		2.0		ug/L			05/03/22 15:02	1
Chloroform	ND		1.0		ug/L			05/03/22 15:02	1
Chloromethane	ND		2.0		ug/L			05/03/22 15:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 15:02	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 15:02	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 15:02	1
Dibromomethane	ND		1.0		ug/L			05/03/22 15:02	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 15:02	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 15:02	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 15:02	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 15:02	1
Methylene Chloride	ND		5.0		ug/L			05/03/22 15:02	1
Naphthalene	ND		1.0		ug/L			05/03/22 15:02	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 15:02	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 15:02	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 15:02	1
Styrene	ND		1.0		ug/L			05/03/22 15:02	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 15:02	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 15:02	1
Toluene	ND		1.0		ug/L			05/03/22 15:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 15:02	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 15:02	1
Trichloroethene	ND		1.0		ug/L			05/03/22 15:02	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 15:02	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 15:02	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 15:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 15:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*		*05/03/22 15:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/03/22 15:02*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 120*		*05/03/22 15:02*	*1*
Toluene-d8 (Surr)	*112*		*80 - 125*		*05/03/22 15:02*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		04/28/22 16:47	04/29/22 17:16	1
1,2-Dibromoethane	ND		0.050		ug/L		04/28/22 16:47	04/29/22 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*113*		*70 - 130*	*04/28/22 16:47*	*04/29/22 17:16*	*1*

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.06**				SU			04/20/22 15:45	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161465-1

Client Sample ID: MW-5B
Date Collected: 04/20/22 14:45
Date Received: 04/25/22 08:50

Lab Sample ID: 280-161465-4
Matrix: Water

Method: EPA Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Conductivity	614.40				umhos/cm			04/20/22 15:45	1
Field Temperature	14.0				Degrees C			04/20/22 15:45	1
Field Dissolved Oxygen	0.78				mg/L			04/20/22 15:45	1
Field EH/ORP	-54.7				millivolts			04/20/22 15:45	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161465-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-161465-1	TRIP BLANK	105	101	104	97
280-161465-2	MW-5A	94	96	92	109
280-161465-3	DUP2	91	96	88	110
280-161465-4	MW-5B	92	97	86	112
LCS 280-573456/1002	Lab Control Sample	92	99	92	108
LCS 280-573649/4	Lab Control Sample	91	97	90	110
LCSD 280-573456/5	Lab Control Sample Dup	89	96	90	109
LCSD 280-573649/5	Lab Control Sample Dup	93	96	90	109
MB 280-573456/9	Method Blank	94	97	94	108
MB 280-573649/9	Method Blank	94	96	90	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-161465-1	TRIP BLANK	111
280-161465-2	MW-5A	109
280-161465-3	DUP2	113
280-161465-4	MW-5B	113
LCS 280-573324/2-A	Lab Control Sample	116
LCSD 280-573324/3-A	Lab Control Sample Dup	116
MB 280-573324/1-A	Method Blank	110

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-573456/9
Matrix: Water
Analysis Batch: 573456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/29/22 22:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/29/22 22:48	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/29/22 22:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/29/22 22:48	1
1,1-Dichloroethane	ND		1.0		ug/L			04/29/22 22:48	1
1,1-Dichloroethene	ND		1.0		ug/L			04/29/22 22:48	1
1,1-Dichloropropene	ND		1.0		ug/L			04/29/22 22:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/29/22 22:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/29/22 22:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/29/22 22:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/29/22 22:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/29/22 22:48	1
1,2-Dichloroethane	ND		1.0		ug/L			04/29/22 22:48	1
1,2-Dichloropropane	ND		1.0		ug/L			04/29/22 22:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/29/22 22:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/29/22 22:48	1
1,3-Dichloropropane	ND		1.0		ug/L			04/29/22 22:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/29/22 22:48	1
2,2-Dichloropropane	ND		5.0		ug/L			04/29/22 22:48	1
2-Butanone (MEK)	ND		6.0		ug/L			04/29/22 22:48	1
2-Chlorotoluene	ND		1.0		ug/L			04/29/22 22:48	1
2-Hexanone	ND		5.0		ug/L			04/29/22 22:48	1
4-Chlorotoluene	ND		1.0		ug/L			04/29/22 22:48	1
4-Isopropyltoluene	ND		1.0		ug/L			04/29/22 22:48	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/29/22 22:48	1
Acetone	ND		10		ug/L			04/29/22 22:48	1
Benzene	ND		1.0		ug/L			04/29/22 22:48	1
Bromobenzene	ND		1.0		ug/L			04/29/22 22:48	1
Bromochloromethane	ND		1.0		ug/L			04/29/22 22:48	1
Bromodichloromethane	ND		1.0		ug/L			04/29/22 22:48	1
Bromoform	ND		1.0		ug/L			04/29/22 22:48	1
Bromomethane	ND		2.0		ug/L			04/29/22 22:48	1
Carbon disulfide	ND		2.0		ug/L			04/29/22 22:48	1
Carbon tetrachloride	ND		1.0		ug/L			04/29/22 22:48	1
Chlorobenzene	ND		1.0		ug/L			04/29/22 22:48	1
Chloroethane	ND		2.0		ug/L			04/29/22 22:48	1
Chloroform	ND		1.0		ug/L			04/29/22 22:48	1
Chloromethane	ND		2.0		ug/L			04/29/22 22:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/29/22 22:48	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/29/22 22:48	1
Dibromochloromethane	ND		1.0		ug/L			04/29/22 22:48	1
Dibromomethane	ND		1.0		ug/L			04/29/22 22:48	1
Dichlorodifluoromethane	ND		2.0		ug/L			04/29/22 22:48	1
Ethylbenzene	ND		1.0		ug/L			04/29/22 22:48	1
Hexachlorobutadiene	ND		1.0		ug/L			04/29/22 22:48	1
Isopropylbenzene	ND		1.0		ug/L			04/29/22 22:48	1
Methylene Chloride	ND		5.0		ug/L			04/29/22 22:48	1
Naphthalene	ND		1.0		ug/L			04/29/22 22:48	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573456/9
Matrix: Water
Analysis Batch: 573456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			04/29/22 22:48	1
N-Propylbenzene	ND		1.0		ug/L			04/29/22 22:48	1
sec-Butylbenzene	ND		1.0		ug/L			04/29/22 22:48	1
Styrene	ND		1.0		ug/L			04/29/22 22:48	1
tert-Butylbenzene	ND		1.0		ug/L			04/29/22 22:48	1
Tetrachloroethene	ND		1.0		ug/L			04/29/22 22:48	1
Toluene	ND		1.0		ug/L			04/29/22 22:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/29/22 22:48	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			04/29/22 22:48	1
Trichloroethene	ND		1.0		ug/L			04/29/22 22:48	1
Trichlorofluoromethane	ND		2.0		ug/L			04/29/22 22:48	1
Vinyl chloride	ND		1.0		ug/L			04/29/22 22:48	1
Xylenes (total)	ND		2.0		ug/L			04/29/22 22:48	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*04/29/22 22:48*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*04/29/22 22:48*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*04/29/22 22:48*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*04/29/22 22:48*	*1*
Toluene-d8 (Surr)	*108*		*80 - 125*		*04/29/22 22:48*	*1*

Lab Sample ID: LCS 280-573456/1002
Matrix: Water
Analysis Batch: 573456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	23.1		ug/L		92	74 - 121
1,1,1-Trichloroethane	25.0	21.5		ug/L		86	62 - 132
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	72 - 122
1,1,2-Trichloroethane	25.0	21.8		ug/L		87	72 - 128
1,1-Dichloroethane	25.0	21.6		ug/L		86	66 - 130
1,1-Dichloroethene	25.0	20.0		ug/L		80	62 - 130
1,1-Dichloropropene	25.0	21.4		ug/L		86	64 - 133
1,2,3-Trichlorobenzene	25.0	17.3	*-	ug/L		69	70 - 127
1,2,3-Trichloropropane	25.0	20.8		ug/L		83	74 - 123
1,2,4-Trichlorobenzene	25.0	22.5		ug/L		90	73 - 124
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	74 - 124
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	77 - 121
1,2-Dichloroethane	25.0	23.0		ug/L		92	61 - 130
1,2-Dichloropropane	25.0	21.9		ug/L		88	68 - 127
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		97	73 - 127
1,3-Dichlorobenzene	25.0	24.9		ug/L		99	76 - 121
1,3-Dichloropropane	25.0	25.5		ug/L		102	80 - 118
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	76 - 119
2,2-Dichloropropane	25.0	22.0		ug/L		88	57 - 140
2-Butanone (MEK)	100	80.3		ug/L		80	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573456/1002
Matrix: Water
Analysis Batch: 573456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	25.0	21.8		ug/L		87	75 - 123
2-Hexanone	100	95.3		ug/L		95	58 - 134
4-Chlorotoluene	25.0	21.7		ug/L		87	74 - 124
4-Isopropyltoluene	25.0	24.9		ug/L		100	74 - 127
4-Methyl-2-pentanone	100	75.7		ug/L		76	56 - 135
Acetone	100	73.1		ug/L		73	50 - 137
Benzene	25.0	23.0		ug/L		92	69 - 126
Bromobenzene	25.0	23.2		ug/L		93	75 - 122
Bromochloromethane	25.0	19.5		ug/L		78	71 - 130
Bromodichloromethane	25.0	21.5		ug/L		86	67 - 126
Bromoform	25.0	19.6		ug/L		78	57 - 125
Bromomethane	25.0	16.9		ug/L		68	25 - 163
Carbon disulfide	25.0	20.7		ug/L		83	56 - 128
Carbon tetrachloride	25.0	19.5		ug/L		78	60 - 133
Chlorobenzene	25.0	25.9		ug/L		104	78 - 118
Chloroethane	25.0	22.8		ug/L		91	52 - 144
Chloroform	25.0	22.3		ug/L		89	68 - 128
Chloromethane	25.0	22.4		ug/L		90	43 - 142
cis-1,2-Dichloroethene	25.0	21.0		ug/L		84	69 - 126
cis-1,3-Dichloropropene	25.0	21.8		ug/L		87	75 - 120
Dibromochloromethane	25.0	22.0		ug/L		88	71 - 122
Dibromomethane	25.0	20.8		ug/L		83	68 - 129
Dichlorodifluoromethane	25.0	21.1		ug/L		84	26 - 152
Ethylbenzene	25.0	23.3		ug/L		93	76 - 121
Hexachlorobutadiene	25.0	19.8		ug/L		79	69 - 133
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 127
Methylene Chloride	25.0	22.5		ug/L		90	64 - 128
Naphthalene	25.0	18.3		ug/L		73	63 - 129
n-Butylbenzene	25.0	24.1		ug/L		96	69 - 130
N-Propylbenzene	25.0	21.8		ug/L		87	73 - 127
sec-Butylbenzene	25.0	21.6		ug/L		86	72 - 127
Styrene	25.0	25.0		ug/L		100	79 - 120
tert-Butylbenzene	25.0	23.8		ug/L		95	72 - 126
Tetrachloroethene	25.0	21.8		ug/L		87	72 - 127
Toluene	25.0	23.2		ug/L		93	68 - 127
trans-1,2-Dichloroethene	25.0	20.7		ug/L		83	66 - 129
trans-1,3-Dichloropropene	25.0	21.6		ug/L		86	66 - 127
Trichloroethene	25.0	23.4		ug/L		94	70 - 125
Trichlorofluoromethane	25.0	22.3		ug/L		89	57 - 144
Vinyl chloride	25.0	23.6		ug/L		95	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*92*		*77 - 120*
Toluene-d8 (Surr)	*108*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573456/5
Matrix: Water
Analysis Batch: 573456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	23.5		ug/L		94	74 - 121	2	20
1,1,1-Trichloroethane			25.0	22.0		ug/L		88	62 - 132	2	20
1,1,2,2-Tetrachloroethane			25.0	23.3		ug/L		93	72 - 122	1	20
1,1,2-Trichloroethane			25.0	22.7		ug/L		91	72 - 128	4	20
1,1-Dichloroethane			25.0	21.8		ug/L		87	66 - 130	1	20
1,1-Dichloroethene			25.0	20.3		ug/L		81	62 - 130	2	21
1,1-Dichloropropene			25.0	21.2		ug/L		85	64 - 133	1	20
1,2,3-Trichlorobenzene			25.0	17.9		ug/L		72	70 - 127	3	20
1,2,3-Trichloropropane			25.0	21.3		ug/L		85	74 - 123	3	20
1,2,4-Trichlorobenzene			25.0	22.7		ug/L		91	73 - 124	1	20
1,2,4-Trimethylbenzene			25.0	25.2		ug/L		101	74 - 124	2	20
1,2-Dichlorobenzene			25.0	25.6		ug/L		103	77 - 121	4	20
1,2-Dichloroethane			25.0	23.4		ug/L		94	61 - 130	2	20
1,2-Dichloropropane			25.0	22.2		ug/L		89	68 - 127	1	20
1,3,5-Trimethylbenzene			25.0	24.8		ug/L		99	73 - 127	2	20
1,3-Dichlorobenzene			25.0	25.3		ug/L		101	76 - 121	2	20
1,3-Dichloropropane			25.0	26.0		ug/L		104	80 - 118	2	20
1,4-Dichlorobenzene			25.0	25.6		ug/L		102	76 - 119	5	20
2,2-Dichloropropane			25.0	21.6		ug/L		86	57 - 140	2	22
2-Butanone (MEK)			100	83.7		ug/L		84	53 - 135	4	20
2-Chlorotoluene			25.0	22.6		ug/L		90	75 - 123	4	20
2-Hexanone			100	98.6		ug/L		99	58 - 134	3	21
4-Chlorotoluene			25.0	22.5		ug/L		90	74 - 124	3	20
4-Isopropyltoluene			25.0	25.3		ug/L		101	74 - 127	2	20
4-Methyl-2-pentanone			100	78.3		ug/L		78	56 - 135	3	20
Acetone			100	76.3		ug/L		76	50 - 137	4	21
Benzene			25.0	23.3		ug/L		93	69 - 126	2	20
Bromobenzene			25.0	23.9		ug/L		96	75 - 122	3	20
Bromochloromethane			25.0	20.4		ug/L		81	71 - 130	4	20
Bromodichloromethane			25.0	21.4		ug/L		86	67 - 126	0	20
Bromoform			25.0	19.6		ug/L		78	57 - 125	0	20
Bromomethane			25.0	14.8		ug/L		59	25 - 163	14	40
Carbon disulfide			25.0	20.4		ug/L		82	56 - 128	1	20
Carbon tetrachloride			25.0	19.9		ug/L		80	60 - 133	2	20
Chlorobenzene			25.0	26.4		ug/L		106	78 - 118	2	20
Chloroethane			25.0	19.2		ug/L		77	52 - 144	17	30
Chloroform			25.0	22.3		ug/L		89	68 - 128	0	20
Chloromethane			25.0	18.5		ug/L		74	43 - 142	19	20
cis-1,2-Dichloroethene			25.0	21.5		ug/L		86	69 - 126	2	20
cis-1,3-Dichloropropene			25.0	22.0		ug/L		88	75 - 120	1	20
Dibromochloromethane			25.0	22.0		ug/L		88	71 - 122	0	20
Dibromomethane			25.0	21.1		ug/L		84	68 - 129	2	20
Dichlorodifluoromethane			25.0	17.9		ug/L		72	26 - 152	16	21
Ethylbenzene			25.0	24.1		ug/L		96	76 - 121	4	20
Hexachlorobutadiene			25.0	20.4		ug/L		81	69 - 133	3	20
Isopropylbenzene			25.0	24.8		ug/L		99	70 - 127	0	20
Methylene Chloride			25.0	22.7		ug/L		91	64 - 128	1	20
Naphthalene			25.0	19.6		ug/L		78	63 - 129	7	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573456/5
Matrix: Water
Analysis Batch: 573456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene			25.0	24.1		ug/L		96	69 - 130	0	20
N-Propylbenzene			25.0	22.3		ug/L		89	73 - 127	2	20
sec-Butylbenzene			25.0	22.1		ug/L		88	72 - 127	2	20
Styrene			25.0	25.5		ug/L		102	79 - 120	2	20
tert-Butylbenzene			25.0	20.8		ug/L		83	72 - 126	13	20
Tetrachloroethene			25.0	22.7		ug/L		91	72 - 127	4	20
Toluene			25.0	23.7		ug/L		95	68 - 127	2	20
trans-1,2-Dichloroethene			25.0	20.9		ug/L		84	66 - 129	1	20
trans-1,3-Dichloropropene			25.0	21.5		ug/L		86	66 - 127	1	20
Trichloroethene			25.0	24.2		ug/L		97	70 - 125	3	20
Trichlorofluoromethane			25.0	19.1		ug/L		76	57 - 144	16	28
Vinyl chloride			25.0	19.6		ug/L		78	53 - 141	19	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*90*		*77 - 120*
Toluene-d8 (Surr)	*109*		*80 - 125*

Lab Sample ID: MB 280-573649/9
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 08:59	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 08:59	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 08:59	1
2-Hexanone	ND		5.0		ug/L			05/03/22 08:59	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 08:59	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 08:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573649/9
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 08:59	1
Acetone	ND		10		ug/L			05/03/22 08:59	1
Benzene	ND		1.0		ug/L			05/03/22 08:59	1
Bromobenzene	ND		1.0		ug/L			05/03/22 08:59	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Bromoform	ND		1.0		ug/L			05/03/22 08:59	1
Bromomethane	ND		2.0		ug/L			05/03/22 08:59	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 08:59	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 08:59	1
Chlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
Chloroethane	ND		2.0		ug/L			05/03/22 08:59	1
Chloroform	ND		1.0		ug/L			05/03/22 08:59	1
Chloromethane	ND		2.0		ug/L			05/03/22 08:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 08:59	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Dibromomethane	ND		1.0		ug/L			05/03/22 08:59	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 08:59	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 08:59	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Methylene Chloride	ND		5.0		ug/L			05/03/22 08:59	1
Naphthalene	ND		1.0		ug/L			05/03/22 08:59	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Styrene	ND		1.0		ug/L			05/03/22 08:59	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 08:59	1
Toluene	ND		1.0		ug/L			05/03/22 08:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 08:59	1
Trichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 08:59	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 08:59	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 08:59	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 08:59*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 08:59*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 08:59*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/03/22 08:59*	*1*
Toluene-d8 (Surr)	*109*		*80 - 125*		*05/03/22 08:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573649/4
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	23.0		ug/L		92	74 - 121
1,1,1-Trichloroethane	25.0	22.5		ug/L		90	62 - 132
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	72 - 122
1,1,2-Trichloroethane	25.0	20.2		ug/L		81	72 - 128
1,1-Dichloroethane	25.0	21.3		ug/L		85	66 - 130
1,1-Dichloroethene	25.0	20.3		ug/L		81	62 - 130
1,1-Dichloropropene	25.0	22.1		ug/L		88	64 - 133
1,2,3-Trichlorobenzene	25.0	16.4	*-	ug/L		66	70 - 127
1,2,3-Trichloropropane	25.0	20.6		ug/L		82	74 - 123
1,2,4-Trichlorobenzene	25.0	21.9		ug/L		88	73 - 124
1,2,4-Trimethylbenzene	25.0	26.0		ug/L		104	74 - 124
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	77 - 121
1,2-Dichloroethane	25.0	20.4		ug/L		82	61 - 130
1,2-Dichloropropane	25.0	20.9		ug/L		84	68 - 127
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	73 - 127
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	76 - 121
1,3-Dichloropropane	25.0	25.0		ug/L		100	80 - 118
1,4-Dichlorobenzene	25.0	26.1		ug/L		105	76 - 119
2,2-Dichloropropane	25.0	21.6		ug/L		87	57 - 140
2-Butanone (MEK)	100	69.3		ug/L		69	53 - 135
2-Chlorotoluene	25.0	23.6		ug/L		95	75 - 123
2-Hexanone	100	85.8		ug/L		86	58 - 134
4-Chlorotoluene	25.0	23.2		ug/L		93	74 - 124
4-Isopropyltoluene	25.0	26.1		ug/L		104	74 - 127
4-Methyl-2-pentanone	100	64.9		ug/L		65	56 - 135
Acetone	100	65.6		ug/L		66	50 - 137
Benzene	25.0	23.1		ug/L		92	69 - 126
Bromobenzene	25.0	24.6		ug/L		98	75 - 122
Bromochloromethane	25.0	19.2		ug/L		77	71 - 130
Bromodichloromethane	25.0	20.6		ug/L		83	67 - 126
Bromoform	25.0	18.2		ug/L		73	57 - 125
Bromomethane	25.0	17.4		ug/L		70	25 - 163
Carbon disulfide	25.0	19.8		ug/L		79	56 - 128
Carbon tetrachloride	25.0	20.4		ug/L		82	60 - 133
Chlorobenzene	25.0	27.2		ug/L		109	78 - 118
Chloroethane	25.0	24.0		ug/L		96	52 - 144
Chloroform	25.0	22.5		ug/L		90	68 - 128
Chloromethane	25.0	17.4		ug/L		70	43 - 142
cis-1,2-Dichloroethene	25.0	21.0		ug/L		84	69 - 126
cis-1,3-Dichloropropene	25.0	21.5		ug/L		86	75 - 120
Dibromochloromethane	25.0	21.4		ug/L		86	71 - 122
Dibromomethane	25.0	19.5		ug/L		78	68 - 129
Dichlorodifluoromethane	25.0	15.3		ug/L		61	26 - 152
Ethylbenzene	25.0	24.9		ug/L		100	76 - 121
Hexachlorobutadiene	25.0	21.2		ug/L		85	69 - 133
Isopropylbenzene	25.0	26.5		ug/L		106	70 - 127
Methylene Chloride	25.0	21.7		ug/L		87	64 - 128
Naphthalene	25.0	17.3		ug/L		69	63 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573649/4
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
n-Butylbenzene			25.0	25.6		ug/L		102	69 - 130		
N-Propylbenzene			25.0	23.9		ug/L		95	73 - 127		
sec-Butylbenzene			25.0	23.4		ug/L		93	72 - 127		
Styrene			25.0	26.1		ug/L		105	79 - 120		
tert-Butylbenzene			25.0	21.9		ug/L		87	72 - 126		
Tetrachloroethene			25.0	24.4		ug/L		98	72 - 127		
Toluene			25.0	23.3		ug/L		93	68 - 127		
trans-1,2-Dichloroethene			25.0	21.3		ug/L		85	66 - 129		
trans-1,3-Dichloropropene			25.0	19.7		ug/L		79	66 - 127		
Trichloroethene			25.0	26.1		ug/L		104	70 - 125		
Trichlorofluoromethane			25.0	20.2		ug/L		81	57 - 144		
Vinyl chloride			25.0	18.8		ug/L		75	53 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*90*		*77 - 120*
Toluene-d8 (Surr)	*110*		*80 - 125*

Lab Sample ID: LCSD 280-573649/5
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	22.9		ug/L		92	74 - 121	0	20
1,1,1-Trichloroethane			25.0	20.8		ug/L		83	62 - 132	8	20
1,1,2,2-Tetrachloroethane			25.0	23.1		ug/L		92	72 - 122	4	20
1,1,2-Trichloroethane			25.0	20.5		ug/L		82	72 - 128	2	20
1,1-Dichloroethane			25.0	20.6		ug/L		82	66 - 130	3	20
1,1-Dichloroethene			25.0	19.0		ug/L		76	62 - 130	7	21
1,1-Dichloropropene			25.0	20.7		ug/L		83	64 - 133	6	20
1,2,3-Trichlorobenzene			25.0	18.5		ug/L		74	70 - 127	12	20
1,2,3-Trichloropropane			25.0	21.4		ug/L		86	74 - 123	4	20
1,2,4-Trichlorobenzene			25.0	22.7		ug/L		91	73 - 124	4	20
1,2,4-Trimethylbenzene			25.0	25.3		ug/L		101	74 - 124	3	20
1,2-Dichlorobenzene			25.0	25.2		ug/L		101	77 - 121	2	20
1,2-Dichloroethane			25.0	20.3		ug/L		81	61 - 130	1	20
1,2-Dichloropropane			25.0	20.7		ug/L		83	68 - 127	1	20
1,3,5-Trimethylbenzene			25.0	24.7		ug/L		99	73 - 127	4	20
1,3-Dichlorobenzene			25.0	25.0		ug/L		100	76 - 121	4	20
1,3-Dichloropropane			25.0	25.5		ug/L		102	80 - 118	2	20
1,4-Dichlorobenzene			25.0	25.3		ug/L		101	76 - 119	3	20
2,2-Dichloropropane			25.0	20.4		ug/L		82	57 - 140	6	22
2-Butanone (MEK)			100	78.2		ug/L		78	53 - 135	12	20
2-Chlorotoluene			25.0	22.5		ug/L		90	75 - 123	5	20
2-Hexanone			100	97.3		ug/L		97	58 - 134	13	21
4-Chlorotoluene			25.0	22.3		ug/L		89	74 - 124	4	20
4-Isopropyltoluene			25.0	24.9		ug/L		100	74 - 127	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573649/5
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone			100	73.0		ug/L		73	56 - 135	12	20
Acetone			100	72.8		ug/L		73	50 - 137	10	21
Benzene			25.0	22.3		ug/L		89	69 - 126	4	20
Bromobenzene			25.0	23.9		ug/L		96	75 - 122	3	20
Bromochloromethane			25.0	19.1		ug/L		76	71 - 130	1	20
Bromodichloromethane			25.0	20.0		ug/L		80	67 - 126	3	20
Bromoform			25.0	19.0		ug/L		76	57 - 125	4	20
Bromomethane			25.0	17.5		ug/L		70	25 - 163	0	40
Carbon disulfide			25.0	18.7		ug/L		75	56 - 128	6	20
Carbon tetrachloride			25.0	19.0		ug/L		76	60 - 133	7	20
Chlorobenzene			25.0	26.7		ug/L		107	78 - 118	2	20
Chloroethane			25.0	19.8		ug/L		79	52 - 144	19	30
Chloroform			25.0	21.5		ug/L		86	68 - 128	5	20
Chloromethane			25.0	18.0		ug/L		72	43 - 142	3	20
cis-1,2-Dichloroethene			25.0	20.6		ug/L		82	69 - 126	2	20
cis-1,3-Dichloropropene			25.0	21.3		ug/L		85	75 - 120	1	20
Dibromochloromethane			25.0	21.5		ug/L		86	71 - 122	0	20
Dibromomethane			25.0	20.2		ug/L		81	68 - 129	4	20
Dichlorodifluoromethane			25.0	15.5		ug/L		62	26 - 152	2	21
Ethylbenzene			25.0	23.9		ug/L		95	76 - 121	4	20
Hexachlorobutadiene			25.0	20.1		ug/L		80	69 - 133	6	20
Isopropylbenzene			25.0	25.2		ug/L		101	70 - 127	5	20
Methylene Chloride			25.0	21.2		ug/L		85	64 - 128	2	20
Naphthalene			25.0	20.3		ug/L		81	63 - 129	16	21
n-Butylbenzene			25.0	24.6		ug/L		98	69 - 130	4	20
N-Propylbenzene			25.0	22.5		ug/L		90	73 - 127	6	20
sec-Butylbenzene			25.0	22.1		ug/L		88	72 - 127	6	20
Styrene			25.0	25.6		ug/L		102	79 - 120	2	20
tert-Butylbenzene			25.0	20.8		ug/L		83	72 - 126	5	20
Tetrachloroethene			25.0	22.4		ug/L		90	72 - 127	8	20
Toluene			25.0	22.3		ug/L		89	68 - 127	4	20
trans-1,2-Dichloroethene			25.0	19.7		ug/L		79	66 - 129	8	20
trans-1,3-Dichloropropene			25.0	19.7		ug/L		79	66 - 127	0	20
Trichloroethene			25.0	24.5		ug/L		98	70 - 125	6	20
Trichlorofluoromethane			25.0	19.9		ug/L		80	57 - 144	2	28
Vinyl chloride			25.0	19.4		ug/L		78	53 - 141	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*90*		*77 - 120*
Toluene-d8 (Surr)	*109*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-573324/1-A
Matrix: Water
Analysis Batch: 573329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		04/28/22 16:47	04/29/22 08:29	1
1,2-Dibromoethane	ND		0.050		ug/L		04/28/22 16:47	04/29/22 08:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*110*		*70 - 130*	*04/28/22 16:47*	*04/29/22 08:29*	*1*

Lab Sample ID: LCS 280-573324/2-A
Matrix: Water
Analysis Batch: 573329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573324

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromo-3-Chloropropane			0.250	0.253		ug/L		101	60 - 140		
1,2-Dibromoethane			0.250	0.257		ug/L		103	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*116*		*70 - 130*

Lab Sample ID: LCSD 280-573324/3-A
Matrix: Water
Analysis Batch: 573329

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573324

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.252		ug/L		101	60 - 140	0	10
1,2-Dibromoethane			0.250	0.251		ug/L		100	60 - 140	2	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*116*		*70 - 130*

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161465-1

GC/MS VOA

Analysis Batch: 573456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161465-1	TRIP BLANK	Total/NA	Water	8260B	
MB 280-573456/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573456/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573456/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 573649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161465-2	MW-5A	Total/NA	Water	8260B	
280-161465-3	DUP2	Total/NA	Water	8260B	
280-161465-4	MW-5B	Total/NA	Water	8260B	
MB 280-573649/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573649/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573649/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 573324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161465-1	TRIP BLANK	Total/NA	Water	8011	
280-161465-2	MW-5A	Total/NA	Water	8011	
280-161465-3	DUP2	Total/NA	Water	8011	
280-161465-4	MW-5B	Total/NA	Water	8011	
MB 280-573324/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-573324/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-573324/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 573329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161465-1	TRIP BLANK	Total/NA	Water	8011	573324
280-161465-2	MW-5A	Total/NA	Water	8011	573324
280-161465-3	DUP2	Total/NA	Water	8011	573324
280-161465-4	MW-5B	Total/NA	Water	8011	573324
MB 280-573324/1-A	Method Blank	Total/NA	Water	8011	573324
LCS 280-573324/2-A	Lab Control Sample	Total/NA	Water	8011	573324
LCSD 280-573324/3-A	Lab Control Sample Dup	Total/NA	Water	8011	573324

Field Service / Mobile Lab

Analysis Batch: 573210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161465-2	MW-5A	Total/NA	Water	Field Sampling	
280-161465-3	DUP2	Total/NA	Water	Field Sampling	
280-161465-4	MW-5B	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 280-161465-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-161465-1
Date Collected: 04/19/22 07:00
Matrix: Water
Date Received: 04/25/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573456	04/30/22 00:14	AJP	EET DEN
Total/NA	Prep	8011			35.3 mL	35 mL	573324	04/28/22 16:47	KSA	EET DEN
Total/NA	Analysis	8011		1			573329	04/29/22 16:03	KSA	EET DEN

Client Sample ID: MW-5A
Lab Sample ID: 280-161465-2
Date Collected: 04/20/22 13:30
Matrix: Water
Date Received: 04/25/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573649	05/03/22 14:19	TAW	EET DEN
Total/NA	Prep	8011			35 mL	35 mL	573324	04/28/22 16:47	KSA	EET DEN
Total/NA	Analysis	8011		1			573329	04/29/22 16:27	KSA	EET DEN
Total/NA	Analysis	Field Sampling		1			573210	04/20/22 14:30	TJ	EET DEN

Client Sample ID: DUP2
Lab Sample ID: 280-161465-3
Date Collected: 04/20/22 13:35
Matrix: Water
Date Received: 04/25/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573649	05/03/22 14:40	TAW	EET DEN
Total/NA	Prep	8011			35.3 mL	35 mL	573324	04/28/22 16:47	KSA	EET DEN
Total/NA	Analysis	8011		1			573329	04/29/22 16:51	KSA	EET DEN
Total/NA	Analysis	Field Sampling		1			573210	04/20/22 14:35	TJ	EET DEN

Client Sample ID: MW-5B
Lab Sample ID: 280-161465-4
Date Collected: 04/20/22 14:45
Matrix: Water
Date Received: 04/25/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573649	05/03/22 15:02	TAW	EET DEN
Total/NA	Prep	8011			35.1 mL	35 mL	573324	04/28/22 16:47	KSA	EET DEN
Total/NA	Analysis	8011		1			573329	04/29/22 17:16	KSA	EET DEN
Total/NA	Analysis	Field Sampling		1			573210	04/20/22 15:45	TJ	EET DEN

Laboratory References:
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: I. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16514-867.1
Client Contact:	Phone: (503) 716 6320	E-Mail: Betsy.Sara@Eurofinset.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name:1003|Riverbend Landfill SCS Engineers Event Desc: Downgradient Det. Wells - Apr	Project #: 28002786			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B	8011	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	R		
TB1	4/19/22	0700	G	W			X	X	8	
MW-5A	4/20/22	1330	G	W			X	X	6	
DUP2	4/20/22	1335	G	W			X	X	6	
MW-5B	4/20/22	1445	G	W			X	X	6	

280-161465 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		4/21/22 0630	SCS		4/21/2022 0930	Eurofins
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1 + R12 CF+0.1

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: T. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16514-867.1
Client Contact:	Phone: (503) 716 6320	E-Mail: Betsy.Sara@Eurofinset.com		Page: Page 1 of 1

Company: Waste Management

Address: 13469 SW Highway 18
City: McMinnville
State, Zip: OR, 97128
Phone:
Email:
Project Name:1003|Riverbend Landfill SCS Engineers
Event Desc: Downgradient Det. Wells - Apr
Site: Oregon

Due Date Requested:
TAT Requested (days):
PO #:
WO #:
Project #: 28002786
SSOW#:

Job #:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B	8011	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	R		
TB1	4/19/22	0700	G	W			X	X	3	
MW-5A	4/20/22	1330	G	W			X	X	6	
DUP2	4/20/22	1335	G	W			X	X	6	
MW-5B	4/20/22	1445	G	W			X	X	6	

280-161465 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company		Date/Time:	Company
Relinquished by:	4/21/22 @1630	SCS	Received by:	4/25/2022 0850	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.1 IR 12 CF +0.1

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-5A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN			?	**TEMPERATURE:**	° F .	° C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/20/22	12:17	34.40	.	16.09	.	18.31	X 1	2.98
/ /	:	.	.	.	.		X 3	8.95

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) **Sample Depth:** [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	13:30	F	3	40 ml HCl	YES	NO		
VOA Glass	4/20/22	13:30	F	3	40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 6 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1220)	0.00	5.74	38.4	1263	12.1	16.50	4.69	clear/colorless
1	F(1243)	3.00	5.82	27.1	1234	13.6	14.94	1.18	C/C
2	F(1304)	6.00	5.80	23.8	1254	13.8	25.81	0.89	C/C
3	F(1325)	9.00	5.80	23.0	1287	13.9	26.76	0.64	C/C
4	F(1327)	9.30	5.80	22.7	1292	13.9	26.97	0.62	C/C
5	F(1329)	9.60	5.80	22.7	1290	13.9	27.11	0.60	C/C
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Ran out of CO2 before filling bottles. Purged ~0.5 gal before filling bottles. Standard Purge 450 mL/min (11/9/25 psi)

SAMPLER: [signature] (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** DUP2
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		**TEMPERATURE:**	48 .	° C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	13:35	F	3 40 ml	HCl	YES	NO		✓
VOA Glass	4/20/22	13:35	F	3 40 ml	$Na_2S_2O_3$	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO_3	YES	YES		
White Poly	/ /	:		250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:		100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica. T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA

Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F (1335)	0.00	:	—	—	—	.	:	—
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected at MW-5A

SAMPLER: J. Hultquist (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-5B
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		**TEMPERATURE:**	°F 50.0	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/20/22	14:55	42.40	.	24.74	.	—	X 1	—
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	14:45	F	3	40 ml HCl	YES	NO		✓
VOA Glass	4/20/22	14:45	F	3	40 ml $Na_2S_2O_3$	YES	NO		✓
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 6 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

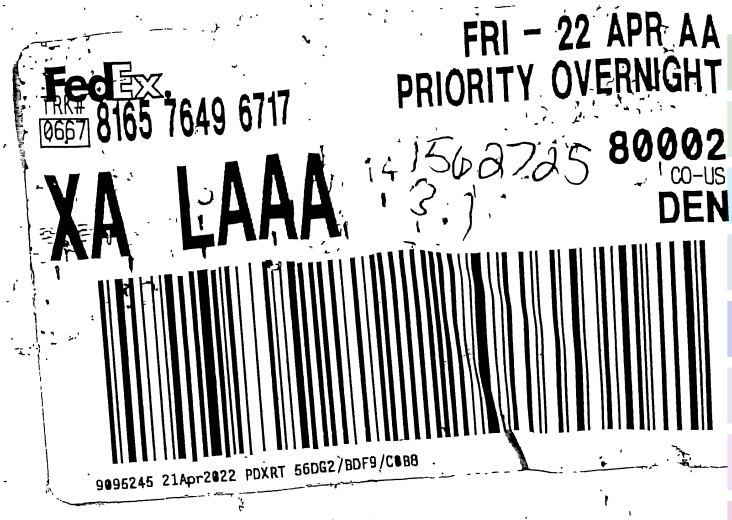
WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	1425	0.00	7.12	2.8	625.20	13.2	24.88	4.55	C/C
1	1432	0.70	7.06	-38.2	611.30	13.7	25.15	2.13	tan, clear
2	1434	1.0	7.07	-50.2	613.60	13.8	25.25	0.80	tan, clear
3	1437	1.25	7.07	-55.5	613.40	13.9	25.25	0.82	
4	1439	1.35	7.06	-54.7	614.40	14.0	25.26	0.78	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low flow Purge method: ~280 mL/min (20/10/20 psi)

SAMPLER: J. Holtzclaw
(PRINTED NAME) (SIGNATURE)


FedEx
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0667
FRI - 22 APR AA
PRIORITY OVERNIGHT
80002
CO-US
DEN
XA LAAA
9096245 21Apr2022 PDXRT 56DG2/BDF9/C8B8

280-161465 Waybill

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161465-1

Login Number: 161465
List Number: 1
Creator: Kazenga, Oliver M

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

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JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Annual MW-22A - Apr

JOB NUMBER

280-161418-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

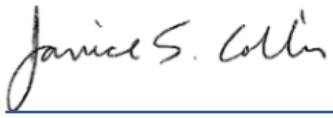
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-161418-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-161418-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-161418-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 04/22/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 0.4°C, 2.1°C and 3.2°C.

Holding Times

All holding times were met.

Method Blanks

All Method Blanks met method criteria.

Laboratory Control Samples (LCS)

1,2-Dichlorobenzene and 1,3-Dichlorobenzene Method 8260B recovered outside control limits for the LCS associated with analytical batch 280-573474. This is not indicative of a systematic control problem because these were random marginal exceedances.

The Method 8260B laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with the sample TRIP BLANK recovered low for the analyte 1,4-Dichlorobenzene (both recovered at 75, lower limit 76). The %RPD between the two is within acceptable limits and the analyte is within acceptable limits in the continuing calibration verification (CCV). There is no remaining volume for reanalysis of the sample; therefore, data was reported.

All other Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)
Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) for Method 8011, however, LCS/LCSD pairs were analyzed to demonstrate method precision and accuracy.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for multiple spike compounds Method 8260B. In addition, the RPD was outside of the RPD limits for multiple spike compounds Method 8260B. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

Sample DUP3 was selected to fulfill the laboratory batch quality control requirements for Method 350.1. Analysis of the laboratory

Job ID: 280-161418-1 (Continued)

Laboratory: Eurofins Denver (Continued)

generated MS/MSD for this sample exhibited recoveries of Ammonia above the upper control limit. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and MSD results were within established control limits.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

The analysis for Chloride and Sulfate Method 300.0 was performed by TestAmerica Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
Phone: 716-691-2600

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161418-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-161418-1

No Detections.

Client Sample ID: MW-22A — Lab Sample ID: 280-161418-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	29000		500		ug/L	1		6010B	Dissolved
Magnesium	12000		200		ug/L	1		6010B	Dissolved
Sodium	9500		1000		ug/L	1		6010B	Dissolved
Chloride	5.1		0.50		mg/L	1		300.0	Total/NA
Sulfate	8.2		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.057		0.030		mg/L	1		350.1	Total/NA
Total Anions	2.9				meq/L	1		SM 1030E	Total/NA
Total Cations	2.9				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.0				%	1		SM 1030E	Total/NA
Calcium	29				mg/L	1		SM 1030E	Total/NA
Magnesium	12				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	9.5				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.057				mg/L	1		SM 1030E	Total/NA
Chloride	5.1				mg/L	1		SM 1030E	Total/NA
Sulfate	8.2				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.0				%	1		SM 1030E	Total/NA
Calculated TDS	130				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	170				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	29000				ug/L	1		SM 1030E (meq)	Total/NA
Magnesium	12000				ug/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				ug/L	1		SM 1030E (meq)	Total/NA
Sodium	9500				ug/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.057				mg/L	1		SM 1030E (meq)	Total/NA
Chloride	5.1				mg/L	1		SM 1030E (meq)	Total/NA
Sulfate	8.2				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	130				mg/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				ug/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	170		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.04				SU	1		Field Sampling	Total/NA
Field Conductivity	288.9				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.54				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	181.3				millivolts	1		Field Sampling	Total/NA

Client Sample ID: DUP3 — Lab Sample ID: 280-161418-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	28000		500		ug/L	1		6010B	Dissolved
Magnesium	12000		200		ug/L	1		6010B	Dissolved
Sodium	9500		1000		ug/L	1		6010B	Dissolved
Chloride	5.2		0.50		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP3 (Continued)

Lab Sample ID: 280-161418-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	8.1		1.0		mg/L	1		300.0	Total/NA
Total Organic Carbon - Average	1.0		1.0		mg/L	1		9060	Total/NA
Total Anions	2.9				meq/L	1		SM 1030E	Total/NA
Total Cations	2.8				meq/L	1		SM 1030E	Total/NA
Percent Difference	-2.0				%	1		SM 1030E	Total/NA
Calcium	28				mg/L	1		SM 1030E	Total/NA
Magnesium	12				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	9.5				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	5.2				mg/L	1		SM 1030E	Total/NA
Sulfate	8.1				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-2.0				%	1		SM 1030E	Total/NA
Calculated TDS	130				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	160				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	28000				ug/L	1		SM 1030E (meq)	Total/NA
Magnesium	12000				ug/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				ug/L	1		SM 1030E (meq)	Total/NA
Sodium	9500				ug/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Chloride	5.2				mg/L	1		SM 1030E (meq)	Total/NA
Sulfate	8.1				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	130				mg/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				ug/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	160		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.04				SU	1		Field Sampling	Total/NA
Field Conductivity	288.9				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.54				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	181.3				millivolts	1		Field Sampling	Total/NA

Client Sample ID: FB3

Lab Sample ID: 280-161418-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Total Anions	0.00				meq/L	1		SM 1030E	Total/NA
Total Cations	0.00				meq/L	1		SM 1030E	Total/NA
Percent Difference	NC				%	1		SM 1030E	Total/NA
Calcium	0.00				mg/L	1		SM 1030E	Total/NA
Magnesium	0.00				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	0.00				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	0.00				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB3 (Continued)

Lab Sample ID: 280-161418-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	NC				%	1		SM 1030E	Total/NA
Calculated TDS	0.00				mg/L	1		SM 1030E	Total/NA
TDS Ratio	NC				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	0.00				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Sodium	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Chloride	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				mg/L	1		SM 1030E (meq)	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-161418-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-161418-1	TRIP BLANK	Water	04/19/22 07:00	04/22/22 11:00
280-161418-2	MW-22A	Water	04/21/22 09:15	04/22/22 11:00
280-161418-3	DUP3	Water	04/21/22 09:20	04/22/22 11:00
280-161418-4	FB3	Water	04/21/22 10:30	04/22/22 11:00

Method Summary

Client: Waste Management
Job ID: 280-161418-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161418-1

Client Sample ID: TRIP BLANK
Date Collected: 04/19/22 07:00
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 15:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/30/22 15:54	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 15:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/30/22 15:54	1
1,1-Dichloroethane	ND		1.0		ug/L			04/30/22 15:54	1
1,1-Dichloroethene	ND		1.0		ug/L			04/30/22 15:54	1
1,1-Dichloropropene	ND		1.0		ug/L			04/30/22 15:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/30/22 15:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/30/22 15:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/30/22 15:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/30/22 15:54	1
1,2-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 15:54	1
1,2-Dichloroethane	ND		1.0		ug/L			04/30/22 15:54	1
1,2-Dichloropropane	ND		1.0		ug/L			04/30/22 15:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/30/22 15:54	1
1,3-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 15:54	1
1,3-Dichloropropane	ND		1.0		ug/L			04/30/22 15:54	1
1,4-Dichlorobenzene	ND	*-	1.0		ug/L			04/30/22 15:54	1
2,2-Dichloropropane	ND		5.0		ug/L			04/30/22 15:54	1
2-Butanone (MEK)	ND		6.0		ug/L			04/30/22 15:54	1
2-Chlorotoluene	ND		1.0		ug/L			04/30/22 15:54	1
2-Hexanone	ND		5.0		ug/L			04/30/22 15:54	1
4-Chlorotoluene	ND		1.0		ug/L			04/30/22 15:54	1
4-Isopropyltoluene	ND		1.0		ug/L			04/30/22 15:54	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/30/22 15:54	1
Acetone	ND		10		ug/L			04/30/22 15:54	1
Benzene	ND		1.0		ug/L			04/30/22 15:54	1
Bromobenzene	ND		1.0		ug/L			04/30/22 15:54	1
Bromochloromethane	ND		1.0		ug/L			04/30/22 15:54	1
Bromodichloromethane	ND		1.0		ug/L			04/30/22 15:54	1
Bromoform	ND		1.0		ug/L			04/30/22 15:54	1
Bromomethane	ND		2.0		ug/L			04/30/22 15:54	1
Carbon disulfide	ND		2.0		ug/L			04/30/22 15:54	1
Carbon tetrachloride	ND		1.0		ug/L			04/30/22 15:54	1
Chlorobenzene	ND		1.0		ug/L			04/30/22 15:54	1
Chloroethane	ND		2.0		ug/L			04/30/22 15:54	1
Chloroform	ND		1.0		ug/L			04/30/22 15:54	1
Chloromethane	ND		2.0		ug/L			04/30/22 15:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 15:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/30/22 15:54	1
Dibromochloromethane	ND		1.0		ug/L			04/30/22 15:54	1
Dibromomethane	ND		1.0		ug/L			04/30/22 15:54	1
Dichlorodifluoromethane	ND		2.0		ug/L			04/30/22 15:54	1
Ethylbenzene	ND		1.0		ug/L			04/30/22 15:54	1
Hexachlorobutadiene	ND		1.0		ug/L			04/30/22 15:54	1
Isopropylbenzene	ND		1.0		ug/L			04/30/22 15:54	1
Methylene Chloride	ND		5.0		ug/L			04/30/22 15:54	1
Naphthalene	ND		1.0		ug/L			04/30/22 15:54	1
n-Butylbenzene	ND		1.0		ug/L			04/30/22 15:54	1

Client Sample ID: TRIP BLANK

Date Collected: 04/19/22 07:00
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			04/30/22 15:54	1
sec-Butylbenzene	ND		1.0		ug/L			04/30/22 15:54	1
Styrene	ND		1.0		ug/L			04/30/22 15:54	1
tert-Butylbenzene	ND		1.0		ug/L			04/30/22 15:54	1
Tetrachloroethene	ND		1.0		ug/L			04/30/22 15:54	1
Toluene	ND		1.0		ug/L			04/30/22 15:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 15:54	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			04/30/22 15:54	1
Trichloroethene	ND		1.0		ug/L			04/30/22 15:54	1
Trichlorofluoromethane	ND		2.0		ug/L			04/30/22 15:54	1
Vinyl chloride	ND		1.0		ug/L			04/30/22 15:54	1
Xylenes (total)	ND		2.0		ug/L			04/30/22 15:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*04/30/22 15:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*		*04/30/22 15:54*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*04/30/22 15:54*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*04/30/22 15:54*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*04/30/22 15:54*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/03/22 16:34	05/04/22 22:03	1
1,2-Dibromoethane	ND		0.050		ug/L		05/03/22 16:34	05/04/22 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*113*		*70 - 130*	*05/03/22 16:34*	*05/04/22 22:03*	*1*

Client Sample ID: MW-22A

Date Collected: 04/21/22 09:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 10:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 10:08	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 10:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 10:08	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 10:08	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 10:08	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 10:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 10:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 10:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 10:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 10:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 10:08	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 10:08	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 10:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 10:08	1

Client Sample ID: MW-22A
Date Collected: 04/21/22 09:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 10:08	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 10:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 10:08	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 10:08	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 10:08	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 10:08	1
2-Hexanone	ND		5.0		ug/L			05/04/22 10:08	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 10:08	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 10:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 10:08	1
Acetone	ND		10		ug/L			05/04/22 10:08	1
Benzene	ND		1.0		ug/L			05/04/22 10:08	1
Bromobenzene	ND		1.0		ug/L			05/04/22 10:08	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 10:08	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 10:08	1
Bromoform	ND		1.0		ug/L			05/04/22 10:08	1
Bromomethane	ND		2.0		ug/L			05/04/22 10:08	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 10:08	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 10:08	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 10:08	1
Chloroethane	ND		2.0		ug/L			05/04/22 10:08	1
Chloroform	ND		1.0		ug/L			05/04/22 10:08	1
Chloromethane	ND		2.0		ug/L			05/04/22 10:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 10:08	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 10:08	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 10:08	1
Dibromomethane	ND		1.0		ug/L			05/04/22 10:08	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 10:08	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 10:08	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 10:08	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 10:08	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 10:08	1
Naphthalene	ND		1.0		ug/L			05/04/22 10:08	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 10:08	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 10:08	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 10:08	1
Styrene	ND		1.0		ug/L			05/04/22 10:08	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 10:08	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 10:08	1
Toluene	ND		1.0		ug/L			05/04/22 10:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 10:08	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 10:08	1
Trichloroethene	ND		1.0		ug/L			05/04/22 10:08	1
Trichlorofluoromethane	ND		2.0		ug/L			05/04/22 10:08	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 10:08	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 10:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/04/22 10:08*	*1*

Client Sample ID: MW-22A

Date Collected: 04/21/22 09:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*		*05/04/22 10:08*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*05/04/22 10:08*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/04/22 10:08*	*1*
Toluene-d8 (Surr)	*110*		*80 - 125*		*05/04/22 10:08*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/03/22 16:34	05/04/22 22:27	1
1,2-Dibromoethane	ND		0.050		ug/L		05/03/22 16:34	05/04/22 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*115*		*70 - 130*	*05/03/22 16:34*	*05/04/22 22:27*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**29000**		500		ug/L		05/03/22 19:17	05/04/22 22:02	1
Iron	ND		30		ug/L		05/03/22 19:17	05/04/22 22:02	1
Magnesium	**12000**		200		ug/L		05/03/22 19:17	05/04/22 22:02	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 22:02	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 22:02	1
Sodium	**9500**		1000		ug/L		05/03/22 19:17	05/04/22 22:02	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**2.9**				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	**2.9**				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	**-1.0**				%			05/10/22 12:14	1
Calcium (SM 1030E)	**29**				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	**12**				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	**9.5**				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	**0.057**				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	**5.1**				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	**8.2**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	**130**				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	**-1.0**				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	**130**				mg/L			05/10/22 12:14	1
TDS Ratio (SM 1030E)	**1.3**				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	**170**				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	**29000**				ug/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	**12000**				ug/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	**0.00**				ug/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	**9500**				ug/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	**0.057**				mg/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	**5.1**				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E (meq))	**8.2**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E (meq))	**130**				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	**0.00**				mg/L			05/10/22 12:14	1

Client Sample ID: MW-22A

Date Collected: 04/21/22 09:15
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Iron (SM 1030E (meq))	0.00				ug/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	5.1		0.50		mg/L			05/09/22 23:22	1
Sulfate (EPA 300.0)	8.2		1.0		mg/L			05/09/22 23:22	1
Ammonia as N (EPA 350.1)	0.057		0.030		mg/L			05/05/22 14:09	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/03/22 16:52	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			04/28/22 21:55	1
Bicarbonate Alkalinity (SM 2320B)	130		10		mg/L			05/03/22 18:54	1
Total Dissolved Solids (SM 2540C)	170		10		mg/L			04/28/22 11:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.04				SU			04/21/22 10:15	1
Field Conductivity	288.9				umhos/cm			04/21/22 10:15	1
Field Temperature	9.9				Degrees C			04/21/22 10:15	1
Field Dissolved Oxygen	3.54				mg/L			04/21/22 10:15	1
Field EH/ORP	181.3				millivolts			04/21/22 10:15	1

Client Sample ID: DUP3

Date Collected: 04/21/22 09:20
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 10:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 10:30	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 10:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 10:30	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 10:30	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 10:30	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 10:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 10:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 10:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 10:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 10:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 10:30	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 10:30	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 10:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 10:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 10:30	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 10:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 10:30	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 10:30	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 10:30	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 10:30	1
2-Hexanone	ND		5.0		ug/L			05/04/22 10:30	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 10:30	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 10:30	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 10:30	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161418-1

Client Sample ID: DUP3

Date Collected: 04/21/22 09:20
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 10:30	1
Benzene	ND		1.0		ug/L			05/04/22 10:30	1
Bromobenzene	ND		1.0		ug/L			05/04/22 10:30	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 10:30	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 10:30	1
Bromoform	ND		1.0		ug/L			05/04/22 10:30	1
Bromomethane	ND		2.0		ug/L			05/04/22 10:30	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 10:30	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 10:30	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 10:30	1
Chloroethane	ND		2.0		ug/L			05/04/22 10:30	1
Chloroform	ND		1.0		ug/L			05/04/22 10:30	1
Chloromethane	ND		2.0		ug/L			05/04/22 10:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 10:30	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 10:30	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 10:30	1
Dibromomethane	ND		1.0		ug/L			05/04/22 10:30	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 10:30	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 10:30	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 10:30	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 10:30	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 10:30	1
Naphthalene	ND		1.0		ug/L			05/04/22 10:30	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 10:30	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 10:30	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 10:30	1
Styrene	ND		1.0		ug/L			05/04/22 10:30	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 10:30	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 10:30	1
Toluene	ND		1.0		ug/L			05/04/22 10:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 10:30	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 10:30	1
Trichloroethene	ND		1.0		ug/L			05/04/22 10:30	1
Trichlorofluoromethane	ND		2.0		ug/L			05/04/22 10:30	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 10:30	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 10:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/04/22 10:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*		*05/04/22 10:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/04/22 10:30*	*1*
Dibromofluoromethane (Surr)	*89*		*77 - 120*		*05/04/22 10:30*	*1*
Toluene-d8 (Surr)	*110*		*80 - 125*		*05/04/22 10:30*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/03/22 16:34	05/04/22 22:51	1
1,2-Dibromoethane	ND		0.050		ug/L		05/03/22 16:34	05/04/22 22:51	1

Client Sample ID: DUP3

Date Collected: 04/21/22 09:20
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*112*		*70 - 130*	*05/03/22 16:34*	*05/04/22 22:51*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**28000**		500		ug/L		05/03/22 19:17	05/04/22 22:22	1
Iron	ND		30		ug/L		05/03/22 19:17	05/04/22 22:22	1
Magnesium	**12000**		200		ug/L		05/03/22 19:17	05/04/22 22:22	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 22:22	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 22:22	1
Sodium	**9500**		1000		ug/L		05/03/22 19:17	05/04/22 22:22	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**2.9**				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	**2.8**				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	**-2.0**				%			05/10/22 12:14	1
Calcium (SM 1030E)	**28**				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	**12**				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	**9.5**				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	**5.2**				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	**8.1**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	**130**				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	**-2.0**				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	**130**				mg/L			05/10/22 12:14	1
TDS Ratio (SM 1030E)	**1.2**				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	**160**				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	**28000**				ug/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	**12000**				ug/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	**0.00**				ug/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	**9500**				ug/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	**0.00**				mg/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	**5.2**				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E (meq))	**8.1**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E (meq))	**130**				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	**0.00**				mg/L			05/10/22 12:14	1
Iron (SM 1030E (meq))	**0.00**				ug/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**5.2**		0.50		mg/L			05/09/22 23:41	1
Sulfate (EPA 300.0)	**8.1**		1.0		mg/L			05/09/22 23:41	1
Ammonia as N (EPA 350.1)	ND	F1	0.030		mg/L			05/05/22 14:34	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/02/22 17:46	1
Total Organic Carbon - Average (SW846 9060)	**1.0**		1.0		mg/L			04/28/22 22:12	1
Bicarbonate Alkalinity (SM 2320B)	**130**		10		mg/L			05/03/22 19:06	1
Total Dissolved Solids (SM 2540C)	**160**		10		mg/L			04/28/22 11:53	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161418-1

Client Sample ID: DUP3

Lab Sample ID: 280-161418-3
Matrix: Water
Date Collected: 04/21/22 09:20
Date Received: 04/22/22 11:00

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.04				SU			04/21/22 10:20	1
Field Conductivity	288.9				umhos/cm			04/21/22 10:20	1
Field Temperature	9.9				Degrees C			04/21/22 10:20	1
Field Dissolved Oxygen	3.54				mg/L			04/21/22 10:20	1
Field EH/ORP	181.3				millivolts			04/21/22 10:20	1

Client Sample ID: FB3

Lab Sample ID: 280-161418-4
Matrix: Water
Date Collected: 04/21/22 10:30
Date Received: 04/22/22 11:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 09:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 09:47	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 09:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 09:47	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 09:47	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 09:47	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 09:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 09:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 09:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 09:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 09:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 09:47	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 09:47	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 09:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 09:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 09:47	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 09:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 09:47	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 09:47	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 09:47	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 09:47	1
2-Hexanone	ND		5.0		ug/L			05/04/22 09:47	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 09:47	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 09:47	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 09:47	1
Acetone	ND		10		ug/L			05/04/22 09:47	1
Benzene	ND		1.0		ug/L			05/04/22 09:47	1
Bromobenzene	ND		1.0		ug/L			05/04/22 09:47	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 09:47	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 09:47	1
Bromoform	ND		1.0		ug/L			05/04/22 09:47	1
Bromomethane	ND		2.0		ug/L			05/04/22 09:47	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 09:47	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 09:47	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 09:47	1
Chloroethane	ND		2.0		ug/L			05/04/22 09:47	1
Chloroform	ND		1.0		ug/L			05/04/22 09:47	1
Chloromethane	ND		2.0		ug/L			05/04/22 09:47	1

Client Sample ID: FB3

Date Collected: 04/21/22 10:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 09:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 09:47	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 09:47	1
Dibromomethane	ND		1.0		ug/L			05/04/22 09:47	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 09:47	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 09:47	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 09:47	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 09:47	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 09:47	1
Naphthalene	ND		1.0		ug/L			05/04/22 09:47	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 09:47	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 09:47	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 09:47	1
Styrene	ND		1.0		ug/L			05/04/22 09:47	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 09:47	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 09:47	1
Toluene	ND		1.0		ug/L			05/04/22 09:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 09:47	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 09:47	1
Trichloroethene	ND		1.0		ug/L			05/04/22 09:47	1
Trichlorofluoromethane	ND		2.0		ug/L			05/04/22 09:47	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 09:47	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 09:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/04/22 09:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*		*05/04/22 09:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*05/04/22 09:47*	*1*
Dibromofluoromethane (Surr)	*88*		*77 - 120*		*05/04/22 09:47*	*1*
Toluene-d8 (Surr)	*110*		*80 - 125*		*05/04/22 09:47*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/03/22 16:34	05/04/22 23:15	1
1,2-Dibromoethane	ND		0.050		ug/L		05/03/22 16:34	05/04/22 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*114*		*70 - 130*	*05/03/22 16:34*	*05/04/22 23:15*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/03/22 19:17	05/04/22 22:26	1
Iron	ND		30		ug/L		05/03/22 19:17	05/04/22 22:26	1
Magnesium	ND		200		ug/L		05/03/22 19:17	05/04/22 22:26	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 22:26	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 22:26	1
Sodium	ND		1000		ug/L		05/03/22 19:17	05/04/22 22:26	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161418-1

Client Sample ID: FB3
Date Collected: 04/21/22 10:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-4
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	0.00				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	0.00				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	NC				%			05/10/22 12:14	1
Calcium (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	NC				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
TDS Ratio (SM 1030E)	NC				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	0.00				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	0.00				mg/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	0.00				mg/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	0.00				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	0.00				mg/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	0.00				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E (meq))	0.00				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E (meq))	0.00				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				mg/L			05/10/22 12:14	1
Iron (SM 1030E (meq))	0.00				mg/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		0.50		mg/L			05/10/22 00:01	1
Sulfate (EPA 300.0)	ND		1.0		mg/L			05/10/22 00:01	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			05/05/22 14:07	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/02/22 17:48	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			04/28/22 18:05	1
Bicarbonate Alkalinity (SM 2320B)	ND		10		mg/L			05/03/22 19:11	1
Total Dissolved Solids (SM 2540C)	ND		10		mg/L			04/28/22 11:53	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161418-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-161418-1	TRIP BLANK	97	96	99	101
280-161418-2	MW-22A	95	98	90	110
280-161418-3	DUP3	93	96	89	110
280-161418-4	FB3	92	98	88	110
280-161623-D-1 MS	Matrix Spike	96	96	94	104
280-161623-E-1 MSD	Matrix Spike Duplicate	95	97	94	104
280-161669-A-17 MS	Matrix Spike	95	94	88	111
280-161669-B-17 MSD	Matrix Spike Duplicate	90	93	89	109
LCS 280-573474/4	Lab Control Sample	106	95	115	85
LCS 280-573782/5	Lab Control Sample	89	96	85	111
LCSD 280-573474/5	Lab Control Sample Dup	107	96	116	84
LCSD 280-573782/6	Lab Control Sample Dup	92	96	89	111
MB 280-573474/9	Method Blank	104	96	118	83
MB 280-573782/10	Method Blank	94	99	90	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-161418-1	TRIP BLANK	113
280-161418-2	MW-22A	115
280-161418-3	DUP3	112
280-161418-4	FB3	114
LCS 280-573754/2-A	Lab Control Sample	112
LCSD 280-573754/3-A	Lab Control Sample Dup	115
MB 280-573754/1-A	Method Blank	108

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-573474/9
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,1-Dichloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,1-Dichloroethene	ND		1.0		ug/L			04/30/22 09:13	1
1,1-Dichloropropene	ND		1.0		ug/L			04/30/22 09:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/30/22 09:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,2-Dichloroethane	ND		1.0		ug/L			04/30/22 09:13	1
1,2-Dichloropropane	ND		1.0		ug/L			04/30/22 09:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
1,3-Dichloropropane	ND		1.0		ug/L			04/30/22 09:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
2,2-Dichloropropane	ND		5.0		ug/L			04/30/22 09:13	1
2-Butanone (MEK)	ND		6.0		ug/L			04/30/22 09:13	1
2-Chlorotoluene	ND		1.0		ug/L			04/30/22 09:13	1
2-Hexanone	ND		5.0		ug/L			04/30/22 09:13	1
4-Chlorotoluene	ND		1.0		ug/L			04/30/22 09:13	1
4-Isopropyltoluene	ND		1.0		ug/L			04/30/22 09:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/30/22 09:13	1
Acetone	ND		10		ug/L			04/30/22 09:13	1
Benzene	ND		1.0		ug/L			04/30/22 09:13	1
Bromobenzene	ND		1.0		ug/L			04/30/22 09:13	1
Bromochloromethane	ND		1.0		ug/L			04/30/22 09:13	1
Bromodichloromethane	ND		1.0		ug/L			04/30/22 09:13	1
Bromoform	ND		1.0		ug/L			04/30/22 09:13	1
Bromomethane	ND		2.0		ug/L			04/30/22 09:13	1
Carbon disulfide	ND		2.0		ug/L			04/30/22 09:13	1
Carbon tetrachloride	ND		1.0		ug/L			04/30/22 09:13	1
Chlorobenzene	ND		1.0		ug/L			04/30/22 09:13	1
Chloroethane	ND		2.0		ug/L			04/30/22 09:13	1
Chloroform	ND		1.0		ug/L			04/30/22 09:13	1
Chloromethane	ND		2.0		ug/L			04/30/22 09:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 09:13	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/30/22 09:13	1
Dibromochloromethane	ND		1.0		ug/L			04/30/22 09:13	1
Dibromomethane	ND		1.0		ug/L			04/30/22 09:13	1
Dichlorodifluoromethane	ND		2.0		ug/L			04/30/22 09:13	1
Ethylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
Hexachlorobutadiene	ND		1.0		ug/L			04/30/22 09:13	1
Isopropylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
Methylene Chloride	ND		5.0		ug/L			04/30/22 09:13	1
Naphthalene	ND		1.0		ug/L			04/30/22 09:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573474/9
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
N-Propylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
sec-Butylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
Styrene	ND		1.0		ug/L			04/30/22 09:13	1
tert-Butylbenzene	ND		1.0		ug/L			04/30/22 09:13	1
Tetrachloroethene	ND		1.0		ug/L			04/30/22 09:13	1
Toluene	ND		1.0		ug/L			04/30/22 09:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/30/22 09:13	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			04/30/22 09:13	1
Trichloroethene	ND		1.0		ug/L			04/30/22 09:13	1
Trichlorofluoromethane	ND		2.0		ug/L			04/30/22 09:13	1
Vinyl chloride	ND		1.0		ug/L			04/30/22 09:13	1
Xylenes (total)	ND		2.0		ug/L			04/30/22 09:13	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*04/30/22 09:13*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*04/30/22 09:13*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*04/30/22 09:13*	*1*
Dibromofluoromethane (Surr)	*118*		*77 - 120*		*04/30/22 09:13*	*1*
Toluene-d8 (Surr)	*83*		*80 - 125*		*04/30/22 09:13*	*1*

Lab Sample ID: LCS 280-573474/4
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	42.0		ug/L		84	74 - 121
1,1,1-Trichloroethane	50.0	53.9		ug/L		108	62 - 132
1,1,2,2-Tetrachloroethane	50.0	37.6		ug/L		75	72 - 122
1,1,2-Trichloroethane	50.0	58.7		ug/L		117	72 - 128
1,1-Dichloroethane	50.0	52.4		ug/L		105	66 - 130
1,1-Dichloroethene	50.0	46.6		ug/L		93	62 - 130
1,1-Dichloropropene	50.0	53.4		ug/L		107	64 - 133
1,2,3-Trichlorobenzene	50.0	35.1		ug/L		70	70 - 127
1,2,3-Trichloropropane	50.0	38.5		ug/L		77	74 - 123
1,2,4-Trichlorobenzene	50.0	36.8		ug/L		74	73 - 124
1,2,4-Trimethylbenzene	50.0	37.6		ug/L		75	74 - 124
1,2-Dichlorobenzene	50.0	37.3	*-	ug/L		75	77 - 121
1,2-Dichloroethane	50.0	55.0		ug/L		110	61 - 130
1,2-Dichloropropane	50.0	55.2		ug/L		110	68 - 127
1,3,5-Trimethylbenzene	50.0	37.6		ug/L		75	73 - 127
1,3-Dichlorobenzene	50.0	37.6	*-	ug/L		75	76 - 121
1,3-Dichloropropane	50.0	41.5		ug/L		83	80 - 118
1,4-Dichlorobenzene	50.0	37.6	*-	ug/L		75	76 - 119
2,2-Dichloropropane	50.0	53.3		ug/L		107	57 - 140
2-Butanone (MEK)	200	195		ug/L		97	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573474/4
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	50.0	37.9		ug/L		76	75 - 123
2-Hexanone	200	150		ug/L		75	58 - 134
4-Chlorotoluene	50.0	38.3		ug/L		77	74 - 124
4-Isopropyltoluene	50.0	37.6		ug/L		75	74 - 127
4-Methyl-2-pentanone	200	224		ug/L		112	56 - 135
Acetone	200	198		ug/L		99	50 - 137
Benzene	50.0	55.6		ug/L		111	69 - 126
Bromobenzene	50.0	39.2		ug/L		78	75 - 122
Bromochloromethane	50.0	59.6		ug/L		119	71 - 130
Bromodichloromethane	50.0	57.6		ug/L		115	67 - 126
Bromoform	50.0	40.5		ug/L		81	57 - 125
Bromomethane	50.0	54.9		ug/L		110	25 - 163
Carbon disulfide	50.0	40.3		ug/L		81	56 - 128
Carbon tetrachloride	50.0	53.7		ug/L		107	60 - 133
Chlorobenzene	50.0	41.1		ug/L		82	78 - 118
Chloroethane	50.0	57.2		ug/L		114	52 - 144
Chloroform	50.0	55.8		ug/L		112	68 - 128
Chloromethane	50.0	48.4		ug/L		97	43 - 142
cis-1,2-Dichloroethene	50.0	57.2		ug/L		114	69 - 126
cis-1,3-Dichloropropene	50.0	40.3		ug/L		81	75 - 120
Dibromochloromethane	50.0	40.8		ug/L		82	71 - 122
Dibromomethane	50.0	58.4		ug/L		117	68 - 129
Dichlorodifluoromethane	50.0	47.6		ug/L		95	26 - 152
Ethylbenzene	50.0	40.2		ug/L		80	76 - 121
Hexachlorobutadiene	50.0	34.7		ug/L		69	69 - 133
Isopropylbenzene	50.0	37.1		ug/L		74	70 - 127
Methylene Chloride	50.0	56.2		ug/L		112	64 - 128
Naphthalene	50.0	35.5		ug/L		71	63 - 129
n-Butylbenzene	50.0	37.1		ug/L		74	69 - 130
N-Propylbenzene	50.0	37.0		ug/L		74	73 - 127
sec-Butylbenzene	50.0	37.5		ug/L		75	72 - 127
Styrene	50.0	41.9		ug/L		84	79 - 120
tert-Butylbenzene	50.0	40.6		ug/L		81	72 - 126
Tetrachloroethene	50.0	40.1		ug/L		80	72 - 127
Toluene	50.0	57.0		ug/L		114	68 - 127
trans-1,2-Dichloroethene	50.0	54.0		ug/L		108	66 - 129
trans-1,3-Dichloropropene	50.0	57.4		ug/L		115	66 - 127
Trichloroethene	50.0	57.0		ug/L		114	70 - 125
Trichlorofluoromethane	50.0	59.6		ug/L		119	57 - 144
Vinyl chloride	50.0	51.5		ug/L		103	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*
Dibromofluoromethane (Surr)	*115*		*77 - 120*
Toluene-d8 (Surr)	*85*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573474/5
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	41.5		ug/L		83	74 - 121	1	20
1,1,1-Trichloroethane	50.0	53.6		ug/L		107	62 - 132	0	20
1,1,2,2-Tetrachloroethane	50.0	39.2		ug/L		78	72 - 122	4	20
1,1,2-Trichloroethane	50.0	60.7		ug/L		121	72 - 128	3	20
1,1-Dichloroethane	50.0	52.7		ug/L		105	66 - 130	1	20
1,1-Dichloroethene	50.0	46.7		ug/L		93	62 - 130	0	21
1,1-Dichloropropene	50.0	53.7		ug/L		107	64 - 133	0	20
1,2,3-Trichlorobenzene	50.0	38.1		ug/L		76	70 - 127	8	20
1,2,3-Trichloropropane	50.0	40.0		ug/L		80	74 - 123	4	20
1,2,4-Trichlorobenzene	50.0	38.1		ug/L		76	73 - 124	4	20
1,2,4-Trimethylbenzene	50.0	37.7		ug/L		75	74 - 124	0	20
1,2-Dichlorobenzene	50.0	38.6		ug/L		77	77 - 121	3	20
1,2-Dichloroethane	50.0	56.3		ug/L		113	61 - 130	2	20
1,2-Dichloropropane	50.0	55.3		ug/L		111	68 - 127	0	20
1,3,5-Trimethylbenzene	50.0	37.8		ug/L		76	73 - 127	1	20
1,3-Dichlorobenzene	50.0	38.1		ug/L		76	76 - 121	1	20
1,3-Dichloropropane	50.0	42.3		ug/L		85	80 - 118	2	20
1,4-Dichlorobenzene	50.0	37.6	*-	ug/L		75	76 - 119	0	20
2,2-Dichloropropane	50.0	54.4		ug/L		109	57 - 140	2	22
2-Butanone (MEK)	200	210		ug/L		105	53 - 135	7	20
2-Chlorotoluene	50.0	38.5		ug/L		77	75 - 123	2	20
2-Hexanone	200	157		ug/L		79	58 - 134	5	21
4-Chlorotoluene	50.0	38.5		ug/L		77	74 - 124	0	20
4-Isopropyltoluene	50.0	38.0		ug/L		76	74 - 127	1	20
4-Methyl-2-pentanone	200	237		ug/L		119	56 - 135	6	20
Acetone	200	218		ug/L		109	50 - 137	10	21
Benzene	50.0	55.6		ug/L		111	69 - 126	0	20
Bromobenzene	50.0	39.3		ug/L		79	75 - 122	0	20
Bromochloromethane	50.0	60.7		ug/L		121	71 - 130	2	20
Bromodichloromethane	50.0	58.0		ug/L		116	67 - 126	1	20
Bromoform	50.0	40.9		ug/L		82	57 - 125	1	20
Bromomethane	50.0	57.3		ug/L		115	25 - 163	4	40
Carbon disulfide	50.0	39.3		ug/L		79	56 - 128	2	20
Carbon tetrachloride	50.0	53.3		ug/L		107	60 - 133	1	20
Chlorobenzene	50.0	40.9		ug/L		82	78 - 118	1	20
Chloroethane	50.0	56.5		ug/L		113	52 - 144	1	30
Chloroform	50.0	56.2		ug/L		112	68 - 128	1	20
Chloromethane	50.0	47.7		ug/L		95	43 - 142	1	20
cis-1,2-Dichloroethene	50.0	57.1		ug/L		114	69 - 126	0	20
cis-1,3-Dichloropropene	50.0	40.4		ug/L		81	75 - 120	0	20
Dibromochloromethane	50.0	41.7		ug/L		83	71 - 122	2	20
Dibromomethane	50.0	60.5		ug/L		121	68 - 129	4	20
Dichlorodifluoromethane	50.0	48.1		ug/L		96	26 - 152	1	21
Ethylbenzene	50.0	39.7		ug/L		79	76 - 121	1	20
Hexachlorobutadiene	50.0	36.3		ug/L		73	69 - 133	5	20
Isopropylbenzene	50.0	37.1		ug/L		74	70 - 127	0	20
Methylene Chloride	50.0	56.4		ug/L		113	64 - 128	0	20
Naphthalene	50.0	37.4		ug/L		75	63 - 129	5	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573474/5
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene			50.0	37.5		ug/L		75	69 - 130	1	20
N-Propylbenzene			50.0	37.4		ug/L		75	73 - 127	1	20
sec-Butylbenzene			50.0	37.8		ug/L		76	72 - 127	1	20
Styrene			50.0	41.6		ug/L		83	79 - 120	1	20
tert-Butylbenzene			50.0	41.0		ug/L		82	72 - 126	1	20
Tetrachloroethene			50.0	40.3		ug/L		81	72 - 127	0	20
Toluene			50.0	57.6		ug/L		115	68 - 127	1	20
trans-1,2-Dichloroethene			50.0	53.8		ug/L		108	66 - 129	0	20
trans-1,3-Dichloropropene			50.0	59.4		ug/L		119	66 - 127	3	20
Trichloroethene			50.0	55.5		ug/L		111	70 - 125	3	20
Trichlorofluoromethane			50.0	58.9		ug/L		118	57 - 144	1	28
Vinyl chloride			50.0	50.4		ug/L		101	53 - 141	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*116*		*77 - 120*
Toluene-d8 (Surr)	*84*		*80 - 125*

Lab Sample ID: 280-161623-D-1 MS
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND	F1 F2	25.0	28.0		ug/L		112	74 - 121
1,1,1-Trichloroethane	ND	F1 F2	25.0	21.9		ug/L		87	62 - 132
1,1,2,2-Tetrachloroethane	ND	F1 F2	25.0	29.2		ug/L		117	72 - 122
1,1,2-Trichloroethane	ND	F1 F2	25.0	25.3		ug/L		101	72 - 128
1,1-Dichloroethane	ND	F1 F2	25.0	21.7		ug/L		87	66 - 130
1,1-Dichloroethene	ND	F1 F2	25.0	19.1		ug/L		76	62 - 130
1,1-Dichloropropene	ND	F1 F2	25.0	22.0		ug/L		88	64 - 133
1,2,3-Trichlorobenzene	ND	F1 F2	25.0	28.8		ug/L		115	70 - 127
1,2,3-Trichloropropane	ND	F1 F2	25.0	30.4		ug/L		121	74 - 123
1,2,4-Trichlorobenzene	ND	F1 F2	25.0	28.4		ug/L		113	73 - 124
1,2,4-Trimethylbenzene	ND	F1 F2	25.0	28.8		ug/L		115	74 - 124
1,2-Dichlorobenzene	ND	*- F1 F2	25.0	29.2		ug/L		117	77 - 121
1,2-Dichloroethane	ND	F1 F2	25.0	23.1		ug/L		92	61 - 130
1,2-Dichloropropane	ND	F1 F2	25.0	22.8		ug/L		91	68 - 127
1,3,5-Trimethylbenzene	ND	F1 F2	25.0	28.9		ug/L		116	73 - 127
1,3-Dichlorobenzene	ND	*- F1 F2	25.0	29.3		ug/L		117	76 - 121
1,3-Dichloropropane	ND	F1 F2	25.0	29.2		ug/L		117	80 - 118
1,4-Dichlorobenzene	ND	*- F1 F2	25.0	28.7		ug/L		115	76 - 119
2,2-Dichloropropane	ND	F1 F2	25.0	19.4		ug/L		77	57 - 140
2-Butanone (MEK)	ND	F1 F2	100	81.0		ug/L		81	53 - 135
2-Chlorotoluene	ND	F1 F2	25.0	29.1		ug/L		116	75 - 123
2-Hexanone	ND	F2	100	103		ug/L		103	58 - 134
4-Chlorotoluene	ND	F1 F2	25.0	29.4		ug/L		118	74 - 124
4-Isopropyltoluene	ND	F1 F2	25.0	28.9		ug/L		116	74 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161623-D-1 MS
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone	ND	F1 F2	100	92.3		ug/L		92	56 - 135
Acetone	ND	F1 F2	100	81.8		ug/L		82	50 - 137
Benzene	ND	F1 F2	25.0	23.1		ug/L		92	69 - 126
Bromobenzene	ND	F1 F2	25.0	30.5		ug/L		122	75 - 122
Bromochloromethane	ND	F1 F2	25.0	25.0		ug/L		100	71 - 130
Bromodichloromethane	ND	F1 F2	25.0	23.6		ug/L		94	67 - 126
Bromoform	ND	F2	25.0	25.8		ug/L		103	57 - 125
Bromomethane	ND		25.0	18.3		ug/L		73	25 - 163
Carbon disulfide	ND	F1 F2	25.0	15.8		ug/L		63	56 - 128
Carbon tetrachloride	ND	F1 F2	25.0	21.4		ug/L		86	60 - 133
Chlorobenzene	ND	F1 F2	25.0	28.6		ug/L		114	78 - 118
Chloroethane	ND		25.0	20.4		ug/L		82	52 - 144
Chloroform	ND	F1 F2	25.0	23.6		ug/L		95	68 - 128
Chloromethane	ND	F2	25.0	16.6		ug/L		66	43 - 142
cis-1,2-Dichloroethene	ND	F1 F2	25.0	23.1		ug/L		92	69 - 126
cis-1,3-Dichloropropene	ND	F1 F2	25.0	26.0		ug/L		104	75 - 120
Dibromochloromethane	ND	F1 F2	25.0	27.3		ug/L		109	71 - 122
Dibromomethane	ND	F1 F2	25.0	24.9		ug/L		100	68 - 129
Dichlorodifluoromethane	ND		25.0	16.9		ug/L		68	26 - 152
Ethylbenzene	ND	F1 F2	25.0	27.7		ug/L		111	76 - 121
Hexachlorobutadiene	ND	F1 F2	25.0	26.1		ug/L		104	69 - 133
Isopropylbenzene	ND	F2	25.0	28.4		ug/L		114	70 - 127
Methylene Chloride	ND	F1 F2	25.0	22.5		ug/L		90	64 - 128
Naphthalene	ND	F2	25.0	28.4		ug/L		114	63 - 129
n-Butylbenzene	ND	F1 F2	25.0	27.7		ug/L		111	69 - 130
N-Propylbenzene	ND	F1 F2	25.0	28.8		ug/L		115	73 - 127
sec-Butylbenzene	ND	F1 F2	25.0	28.6		ug/L		114	72 - 127
Styrene	ND	F1 F2	25.0	28.6		ug/L		115	79 - 120
tert-Butylbenzene	ND	F2	25.0	31.2		ug/L		125	72 - 126
Tetrachloroethene	ND	F1 F2	25.0	28.0		ug/L		112	72 - 127
Toluene	ND	F1 F2	25.0	24.1		ug/L		96	68 - 127
trans-1,2-Dichloroethene	ND	F1 F2	25.0	22.3		ug/L		89	66 - 129
trans-1,3-Dichloropropene	ND	F1 F2	25.0	22.6		ug/L		90	66 - 127
Trichloroethene	ND	F1 F2	25.0	23.3		ug/L		93	70 - 125
Trichlorofluoromethane	ND		25.0	21.3		ug/L		85	57 - 144
Vinyl chloride	ND		25.0	18.0		ug/L		72	53 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*94*		*77 - 120*
Toluene-d8 (Surr)	*104*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161623-E-1 MSD
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND	F1 F2	25.0	16.7	F1 F2	ug/L		67	74 - 121	51	20
1,1,1-Trichloroethane	ND	F1 F2	25.0	13.3	F1 F2	ug/L		53	62 - 132	49	20
1,1,2,2-Tetrachloroethane	ND	F1 F2	25.0	17.4	F1 F2	ug/L		70	72 - 122	51	20
1,1,2-Trichloroethane	ND	F1 F2	25.0	14.6	F1 F2	ug/L		58	72 - 128	54	20
1,1-Dichloroethane	ND	F1 F2	25.0	13.3	F1 F2	ug/L		53	66 - 130	48	20
1,1-Dichloroethene	ND	F1 F2	25.0	11.7	F1 F2	ug/L		47	62 - 130	48	21
1,1-Dichloropropene	ND	F1 F2	25.0	13.3	F1 F2	ug/L		53	64 - 133	50	20
1,2,3-Trichlorobenzene	ND	F1 F2	25.0	17.3	F1 F2	ug/L		69	70 - 127	50	20
1,2,3-Trichloropropane	ND	F1 F2	25.0	17.3	F1 F2	ug/L		69	74 - 123	55	20
1,2,4-Trichlorobenzene	ND	F1 F2	25.0	17.0	F1 F2	ug/L		68	73 - 124	50	20
1,2,4-Trimethylbenzene	ND	F1 F2	25.0	17.6	F1 F2	ug/L		71	74 - 124	48	20
1,2-Dichlorobenzene	ND	*- F1 F2	25.0	18.2	F1 F2	ug/L		73	77 - 121	47	20
1,2-Dichloroethane	ND	F1 F2	25.0	14.0	F1 F2	ug/L		56	61 - 130	49	20
1,2-Dichloropropane	ND	F1 F2	25.0	13.9	F1 F2	ug/L		56	68 - 127	48	20
1,3,5-Trimethylbenzene	ND	F1 F2	25.0	17.6	F1 F2	ug/L		70	73 - 127	49	20
1,3-Dichlorobenzene	ND	*- F1 F2	25.0	17.8	F1 F2	ug/L		71	76 - 121	49	20
1,3-Dichloropropane	ND	F1 F2	25.0	17.0	F1 F2	ug/L		68	80 - 118	53	20
1,4-Dichlorobenzene	ND	*- F1 F2	25.0	17.7	F1 F2	ug/L		71	76 - 119	47	20
2,2-Dichloropropane	ND	F1 F2	25.0	11.5	F1 F2	ug/L		46	57 - 140	51	22
2-Butanone (MEK)	ND	F1 F2	100	46.5	F1 F2	ug/L		47	53 - 135	54	20
2-Chlorotoluene	ND	F1 F2	25.0	18.0	F1 F2	ug/L		72	75 - 123	47	20
2-Hexanone	ND	F2	100	59.6	F2	ug/L		60	58 - 134	53	21
4-Chlorotoluene	ND	F1 F2	25.0	17.7	F1 F2	ug/L		71	74 - 124	50	20
4-Isopropyltoluene	ND	F1 F2	25.0	17.1	F1 F2	ug/L		69	74 - 127	51	20
4-Methyl-2-pentanone	ND	F1 F2	100	52.2	F1 F2	ug/L		52	56 - 135	55	20
Acetone	ND	F1 F2	100	47.8	F1 F2	ug/L		48	50 - 137	52	21
Benzene	ND	F1 F2	25.0	14.0	F1 F2	ug/L		56	69 - 126	49	20
Bromobenzene	ND	F1 F2	25.0	18.4	F1 F2	ug/L		74	75 - 122	49	20
Bromochloromethane	ND	F1 F2	25.0	15.4	F1 F2	ug/L		62	71 - 130	47	20
Bromodichloromethane	ND	F1 F2	25.0	14.1	F1 F2	ug/L		56	67 - 126	50	20
Bromoform	ND	F2	25.0	14.6	F2	ug/L		58	57 - 125	56	20
Bromomethane	ND		25.0	14.8		ug/L		59	25 - 163	21	40
Carbon disulfide	ND	F1 F2	25.0	9.76	F1 F2	ug/L		39	56 - 128	47	20
Carbon tetrachloride	ND	F1 F2	25.0	12.6	F1 F2	ug/L		50	60 - 133	52	20
Chlorobenzene	ND	F1 F2	25.0	17.2	F1 F2	ug/L		69	78 - 118	49	20
Chloroethane	ND		25.0	15.8		ug/L		63	52 - 144	26	30
Chloroform	ND	F1 F2	25.0	14.6	F1 F2	ug/L		58	68 - 128	48	20
Chloromethane	ND	F2	25.0	13.3	F2	ug/L		53	43 - 142	22	20
cis-1,2-Dichloroethene	ND	F1 F2	25.0	14.3	F1 F2	ug/L		57	69 - 126	47	20
cis-1,3-Dichloropropene	ND	F1 F2	25.0	15.5	F1 F2	ug/L		62	75 - 120	51	20
Dibromochloromethane	ND	F1 F2	25.0	16.0	F1 F2	ug/L		64	71 - 122	52	20
Dibromomethane	ND	F1 F2	25.0	15.0	F1 F2	ug/L		60	68 - 129	50	20
Dichlorodifluoromethane	ND		25.0	13.8		ug/L		55	26 - 152	21	21
Ethylbenzene	ND	F1 F2	25.0	17.0	F1 F2	ug/L		68	76 - 121	48	20
Hexachlorobutadiene	ND	F1 F2	25.0	15.7	F1 F2	ug/L		63	69 - 133	49	20
Isopropylbenzene	ND	F2	25.0	17.5	F2	ug/L		70	70 - 127	48	20
Methylene Chloride	ND	F1 F2	25.0	13.5	F1 F2	ug/L		54	64 - 128	50	20
Naphthalene	ND	F2	25.0	17.0	F2	ug/L		68	63 - 129	50	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161623-E-1 MSD
Matrix: Water
Analysis Batch: 573474

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene	ND	F1 F2	25.0	16.6	F1 F2	ug/L		67	69 - 130	50	20
N-Propylbenzene	ND	F1 F2	25.0	17.6	F1 F2	ug/L		71	73 - 127	48	20
sec-Butylbenzene	ND	F1 F2	25.0	17.4	F1 F2	ug/L		70	72 - 127	49	20
Styrene	ND	F1 F2	25.0	17.3	F1 F2	ug/L		69	79 - 120	50	20
tert-Butylbenzene	ND	F2	25.0	19.1	F2	ug/L		76	72 - 126	48	20
Tetrachloroethene	ND	F1 F2	25.0	16.9	F1 F2	ug/L		68	72 - 127	49	20
Toluene	ND	F1 F2	25.0	14.6	F1 F2	ug/L		59	68 - 127	49	20
trans-1,2-Dichloroethene	ND	F1 F2	25.0	13.7	F1 F2	ug/L		55	66 - 129	48	20
trans-1,3-Dichloropropene	ND	F1 F2	25.0	13.3	F1 F2	ug/L		53	66 - 127	52	20
Trichloroethene	ND	F1 F2	25.0	14.3	F1 F2	ug/L		57	70 - 125	48	20
Trichlorofluoromethane	ND		25.0	17.0		ug/L		68	57 - 144	22	28
Vinyl chloride	ND		25.0	14.5		ug/L		58	53 - 141	22	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*94*		*77 - 120*
Toluene-d8 (Surr)	*104*		*80 - 125*

Lab Sample ID: MB 280-573782/10
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 09:25	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 09:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 09:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 09:25	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 09:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 09:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 09:25	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 09:25	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 09:25	1
2-Hexanone	ND		5.0		ug/L			05/04/22 09:25	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 09:25	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 09:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573782/10
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 09:25	1
Acetone	ND		10		ug/L			05/04/22 09:25	1
Benzene	ND		1.0		ug/L			05/04/22 09:25	1
Bromobenzene	ND		1.0		ug/L			05/04/22 09:25	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 09:25	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 09:25	1
Bromoform	ND		1.0		ug/L			05/04/22 09:25	1
Bromomethane	ND		2.0		ug/L			05/04/22 09:25	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 09:25	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 09:25	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 09:25	1
Chloroethane	ND		2.0		ug/L			05/04/22 09:25	1
Chloroform	ND		1.0		ug/L			05/04/22 09:25	1
Chloromethane	ND		2.0		ug/L			05/04/22 09:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 09:25	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 09:25	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 09:25	1
Dibromomethane	ND		1.0		ug/L			05/04/22 09:25	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 09:25	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 09:25	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 09:25	1
Naphthalene	ND		1.0		ug/L			05/04/22 09:25	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
Styrene	ND		1.0		ug/L			05/04/22 09:25	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 09:25	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 09:25	1
Toluene	ND		1.0		ug/L			05/04/22 09:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 09:25	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 09:25	1
Trichloroethene	ND		1.0		ug/L			05/04/22 09:25	1
Trichlorofluoromethane	ND		2.0		ug/L			05/04/22 09:25	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 09:25	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 09:25	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/04/22 09:25*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/04/22 09:25*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*05/04/22 09:25*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/04/22 09:25*	*1*
Toluene-d8 (Surr)	*109*		*80 - 125*		*05/04/22 09:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573782/5
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		98	74 - 121
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	62 - 132
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	72 - 122
1,1,2-Trichloroethane	25.0	20.8		ug/L		83	72 - 128
1,1-Dichloroethane	25.0	20.2		ug/L		81	66 - 130
1,1-Dichloroethene	25.0	20.0		ug/L		80	62 - 130
1,1-Dichloropropene	25.0	22.2		ug/L		89	64 - 133
1,2,3-Trichlorobenzene	25.0	18.9		ug/L		76	70 - 127
1,2,3-Trichloropropane	25.0	22.4		ug/L		89	74 - 123
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	73 - 124
1,2,4-Trimethylbenzene	25.0	26.9		ug/L		108	74 - 124
1,2-Dichlorobenzene	25.0	26.6		ug/L		106	77 - 121
1,2-Dichloroethane	25.0	22.7		ug/L		91	61 - 130
1,2-Dichloropropane	25.0	21.4		ug/L		86	68 - 127
1,3,5-Trimethylbenzene	25.0	26.3		ug/L		105	73 - 127
1,3-Dichlorobenzene	25.0	26.6		ug/L		106	76 - 121
1,3-Dichloropropane	25.0	26.5		ug/L		106	80 - 118
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	76 - 119
2,2-Dichloropropane	25.0	20.4		ug/L		82	57 - 140
2-Butanone (MEK)	100	76.6		ug/L		77	53 - 135
2-Chlorotoluene	25.0	23.6		ug/L		94	75 - 123
2-Hexanone	100	103		ug/L		103	58 - 134
4-Chlorotoluene	25.0	23.6		ug/L		94	74 - 124
4-Isopropyltoluene	25.0	26.8		ug/L		107	74 - 127
4-Methyl-2-pentanone	100	75.5		ug/L		75	56 - 135
Acetone	100	70.4		ug/L		70	50 - 137
Benzene	25.0	23.7		ug/L		95	69 - 126
Bromobenzene	25.0	25.6		ug/L		103	75 - 122
Bromochloromethane	25.0	18.9		ug/L		75	71 - 130
Bromodichloromethane	25.0	20.7		ug/L		83	67 - 126
Bromoform	25.0	20.3		ug/L		81	57 - 125
Bromomethane	25.0	17.6		ug/L		71	25 - 163
Carbon disulfide	25.0	21.0		ug/L		84	56 - 128
Carbon tetrachloride	25.0	20.8		ug/L		83	60 - 133
Chlorobenzene	25.0	28.2		ug/L		113	78 - 118
Chloroethane	25.0	25.1		ug/L		100	52 - 144
Chloroform	25.0	21.9		ug/L		88	68 - 128
Chloromethane	25.0	20.9		ug/L		83	43 - 142
cis-1,2-Dichloroethene	25.0	19.8		ug/L		79	69 - 126
cis-1,3-Dichloropropene	25.0	22.6		ug/L		91	75 - 120
Dibromochloromethane	25.0	22.5		ug/L		90	71 - 122
Dibromomethane	25.0	20.5		ug/L		82	68 - 129
Dichlorodifluoromethane	25.0	22.7		ug/L		91	26 - 152
Ethylbenzene	25.0	25.8		ug/L		103	76 - 121
Hexachlorobutadiene	25.0	21.5		ug/L		86	69 - 133
Isopropylbenzene	25.0	27.4		ug/L		109	70 - 127
Methylene Chloride	25.0	21.0		ug/L		84	64 - 128
Naphthalene	25.0	20.3		ug/L		81	63 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573782/5
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
n-Butylbenzene			25.0	25.9		ug/L		104	69 - 130		
N-Propylbenzene			25.0	24.7		ug/L		99	73 - 127		
sec-Butylbenzene			25.0	23.7		ug/L		95	72 - 127		
Styrene			25.0	27.3		ug/L		109	79 - 120		
tert-Butylbenzene			25.0	25.8		ug/L		103	72 - 126		
Tetrachloroethene			25.0	25.0		ug/L		100	72 - 127		
Toluene			25.0	23.8		ug/L		95	68 - 127		
trans-1,2-Dichloroethene			25.0	20.2		ug/L		81	66 - 129		
trans-1,3-Dichloropropene			25.0	20.3		ug/L		81	66 - 127		
Trichloroethene			25.0	26.7		ug/L		107	70 - 125		
Trichlorofluoromethane			25.0	21.6		ug/L		87	57 - 144		
Vinyl chloride			25.0	21.2		ug/L		85	53 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*85*		*77 - 120*
Toluene-d8 (Surr)	*111*		*80 - 125*

Lab Sample ID: LCSD 280-573782/6
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	24.3		ug/L		97	74 - 121	0	20
1,1,1-Trichloroethane			25.0	22.5		ug/L		90	62 - 132	1	20
1,1,2,2-Tetrachloroethane			25.0	24.5		ug/L		98	72 - 122	1	20
1,1,2-Trichloroethane			25.0	20.8		ug/L		83	72 - 128	0	20
1,1-Dichloroethane			25.0	20.0		ug/L		80	66 - 130	1	20
1,1-Dichloroethene			25.0	20.4		ug/L		82	62 - 130	2	21
1,1-Dichloropropene			25.0	22.0		ug/L		88	64 - 133	1	20
1,2,3-Trichlorobenzene			25.0	19.8		ug/L		79	70 - 127	5	20
1,2,3-Trichloropropane			25.0	23.4		ug/L		94	74 - 123	4	20
1,2,4-Trichlorobenzene			25.0	24.4		ug/L		97	73 - 124	5	20
1,2,4-Trimethylbenzene			25.0	26.9		ug/L		108	74 - 124	0	20
1,2-Dichlorobenzene			25.0	27.7		ug/L		111	77 - 121	4	20
1,2-Dichloroethane			25.0	22.4		ug/L		89	61 - 130	2	20
1,2-Dichloropropane			25.0	21.4		ug/L		86	68 - 127	0	20
1,3,5-Trimethylbenzene			25.0	26.6		ug/L		106	73 - 127	1	20
1,3-Dichlorobenzene			25.0	27.7		ug/L		111	76 - 121	4	20
1,3-Dichloropropane			25.0	26.6		ug/L		106	80 - 118	0	20
1,4-Dichlorobenzene			25.0	27.0		ug/L		108	76 - 119	3	20
2,2-Dichloropropane			25.0	21.1		ug/L		84	57 - 140	3	22
2-Butanone (MEK)			100	78.4		ug/L		78	53 - 135	2	20
2-Chlorotoluene			25.0	23.9		ug/L		96	75 - 123	1	20
2-Hexanone			100	101		ug/L		101	58 - 134	2	21
4-Chlorotoluene			25.0	23.9		ug/L		95	74 - 124	1	20
4-Isopropyltoluene			25.0	26.7		ug/L		107	74 - 127	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573782/6
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone			100	74.8		ug/L		75	56 - 135	1	20
Acetone			100	70.7		ug/L		71	50 - 137	0	21
Benzene			25.0	23.5		ug/L		94	69 - 126	1	20
Bromobenzene			25.0	25.8		ug/L		103	75 - 122	1	20
Bromochloromethane			25.0	19.4		ug/L		78	71 - 130	3	20
Bromodichloromethane			25.0	20.7		ug/L		83	67 - 126	0	20
Bromoform			25.0	19.8		ug/L		79	57 - 125	3	20
Bromomethane			25.0	17.7		ug/L		71	25 - 163	1	40
Carbon disulfide			25.0	20.9		ug/L		84	56 - 128	0	20
Carbon tetrachloride			25.0	20.3		ug/L		81	60 - 133	3	20
Chlorobenzene			25.0	27.8		ug/L		111	78 - 118	1	20
Chloroethane			25.0	25.9		ug/L		104	52 - 144	3	30
Chloroform			25.0	21.8		ug/L		87	68 - 128	1	20
Chloromethane			25.0	20.0		ug/L		80	43 - 142	4	20
cis-1,2-Dichloroethene			25.0	20.5		ug/L		82	69 - 126	3	20
cis-1,3-Dichloropropene			25.0	22.5		ug/L		90	75 - 120	0	20
Dibromochloromethane			25.0	22.8		ug/L		91	71 - 122	1	20
Dibromomethane			25.0	20.5		ug/L		82	68 - 129	0	20
Dichlorodifluoromethane			25.0	23.4		ug/L		94	26 - 152	3	21
Ethylbenzene			25.0	26.1		ug/L		105	76 - 121	1	20
Hexachlorobutadiene			25.0	21.6		ug/L		86	69 - 133	1	20
Isopropylbenzene			25.0	27.4		ug/L		110	70 - 127	0	20
Methylene Chloride			25.0	20.9		ug/L		84	64 - 128	0	20
Naphthalene			25.0	22.3		ug/L		89	63 - 129	9	21
n-Butylbenzene			25.0	25.7		ug/L		103	69 - 130	1	20
N-Propylbenzene			25.0	24.3		ug/L		97	73 - 127	2	20
sec-Butylbenzene			25.0	23.3		ug/L		93	72 - 127	1	20
Styrene			25.0	26.9		ug/L		108	79 - 120	1	20
tert-Butylbenzene			25.0	26.1		ug/L		104	72 - 126	1	20
Tetrachloroethene			25.0	25.5		ug/L		102	72 - 127	2	20
Toluene			25.0	23.8		ug/L		95	68 - 127	0	20
trans-1,2-Dichloroethene			25.0	19.9		ug/L		80	66 - 129	1	20
trans-1,3-Dichloropropene			25.0	20.6		ug/L		82	66 - 127	2	20
Trichloroethene			25.0	26.4		ug/L		106	70 - 125	1	20
Trichlorofluoromethane			25.0	21.4		ug/L		86	57 - 144	1	28
Vinyl chloride			25.0	21.1		ug/L		84	53 - 141	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*89*		*77 - 120*
Toluene-d8 (Surr)	*111*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161669-A-17 MS
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		250	231		ug/L		92	74 - 121
1,1,1-Trichloroethane	ND		250	222		ug/L		89	62 - 132
1,1,2,2-Tetrachloroethane	ND		250	227		ug/L		91	72 - 122
1,1,2-Trichloroethane	ND		250	206		ug/L		83	72 - 128
1,1-Dichloroethane	ND		250	221		ug/L		88	66 - 130
1,1-Dichloroethene	ND		250	216		ug/L		86	62 - 130
1,1-Dichloropropene	ND		250	219		ug/L		88	64 - 133
1,2,3-Trichlorobenzene	ND	F1	250	171	F1	ug/L		68	70 - 127
1,2,3-Trichloropropane	ND		250	206		ug/L		82	74 - 123
1,2,4-Trichlorobenzene	ND		250	212		ug/L		85	73 - 124
1,2,4-Trimethylbenzene	ND		250	251		ug/L		100	74 - 124
1,2-Dichlorobenzene	ND		250	251		ug/L		100	77 - 121
1,2-Dichloroethane	ND		250	227		ug/L		91	61 - 130
1,2-Dichloropropane	ND		250	213		ug/L		85	68 - 127
1,3,5-Trimethylbenzene	ND		250	249		ug/L		100	73 - 127
1,3-Dichlorobenzene	ND		250	252		ug/L		101	76 - 121
1,3-Dichloropropane	ND		250	256		ug/L		102	80 - 118
1,4-Dichlorobenzene	ND		250	258		ug/L		103	76 - 119
2,2-Dichloropropane	ND		250	182		ug/L		73	57 - 140
2-Butanone (MEK)	ND		1000	704		ug/L		70	53 - 135
2-Chlorotoluene	ND		250	223		ug/L		89	75 - 123
2-Hexanone	ND		1000	953		ug/L		95	58 - 134
4-Chlorotoluene	ND		250	218		ug/L		87	74 - 124
4-Isopropyltoluene	ND		250	250		ug/L		100	74 - 127
4-Methyl-2-pentanone	ND		1000	711		ug/L		71	56 - 135
Acetone	ND		1000	740		ug/L		74	50 - 137
Benzene	ND		250	234		ug/L		94	69 - 126
Bromobenzene	ND		250	235		ug/L		94	75 - 122
Bromochloromethane	ND		250	193		ug/L		77	71 - 130
Bromodichloromethane	ND		250	204		ug/L		82	67 - 126
Bromoform	ND		250	187		ug/L		75	57 - 125
Bromomethane	ND		250	160		ug/L		64	25 - 163
Carbon disulfide	ND		250	221		ug/L		88	56 - 128
Carbon tetrachloride	ND		250	200		ug/L		80	60 - 133
Chlorobenzene	ND		250	271		ug/L		108	78 - 118
Chloroethane	ND		250	219		ug/L		88	52 - 144
Chloroform	ND		250	224		ug/L		90	68 - 128
Chloromethane	ND		250	221		ug/L		89	43 - 142
cis-1,2-Dichloroethene	630	F1	250	795	F1	ug/L		67	69 - 126
cis-1,3-Dichloropropene	ND		250	208		ug/L		83	75 - 120
Dibromochloromethane	ND		250	216		ug/L		86	71 - 122
Dibromomethane	ND		250	197		ug/L		79	68 - 129
Dichlorodifluoromethane	ND		250	234		ug/L		94	26 - 152
Ethylbenzene	ND		250	250		ug/L		100	76 - 121
Hexachlorobutadiene	ND		250	192		ug/L		77	69 - 133
Isopropylbenzene	ND		250	254		ug/L		102	70 - 127
Methylene Chloride	ND		250	222		ug/L		89	64 - 128
Naphthalene	ND		250	182		ug/L		73	63 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161669-A-17 MS
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
n-Butylbenzene	ND		250	237		ug/L		95	69 - 130
N-Propylbenzene	ND		250	223		ug/L		89	73 - 127
sec-Butylbenzene	ND		250	218		ug/L		87	72 - 127
Styrene	ND		250	259		ug/L		103	79 - 120
tert-Butylbenzene	ND		250	240		ug/L		96	72 - 126
Tetrachloroethene	ND		250	243		ug/L		97	72 - 127
Toluene	ND		250	233		ug/L		93	68 - 127
trans-1,2-Dichloroethene	ND		250	220		ug/L		88	66 - 129
trans-1,3-Dichloropropene	ND		250	194		ug/L		77	66 - 127
Trichloroethene	5.6		250	264		ug/L		103	70 - 125
Trichlorofluoromethane	ND		250	223		ug/L		89	57 - 144
Vinyl chloride	410		250	598		ug/L		77	53 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*88*		*77 - 120*
Toluene-d8 (Surr)	*111*		*80 - 125*

Lab Sample ID: 280-161669-B-17 MSD
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		250	236		ug/L		94	74 - 121	2	20
1,1,1-Trichloroethane	ND		250	228		ug/L		91	62 - 132	3	20
1,1,2,2-Tetrachloroethane	ND		250	235		ug/L		94	72 - 122	3	20
1,1,2-Trichloroethane	ND		250	213		ug/L		85	72 - 128	3	20
1,1-Dichloroethane	ND		250	219		ug/L		87	66 - 130	1	20
1,1-Dichloroethene	ND		250	225		ug/L		90	62 - 130	4	21
1,1-Dichloropropene	ND		250	220		ug/L		88	64 - 133	1	20
1,2,3-Trichlorobenzene	ND	F1	250	190		ug/L		76	70 - 127	11	20
1,2,3-Trichloropropane	ND		250	220		ug/L		88	74 - 123	6	20
1,2,4-Trichlorobenzene	ND		250	235		ug/L		94	73 - 124	10	20
1,2,4-Trimethylbenzene	ND		250	263		ug/L		105	74 - 124	5	20
1,2-Dichlorobenzene	ND		250	268		ug/L		107	77 - 121	6	20
1,2-Dichloroethane	ND		250	224		ug/L		90	61 - 130	1	20
1,2-Dichloropropane	ND		250	216		ug/L		86	68 - 127	1	20
1,3,5-Trimethylbenzene	ND		250	258		ug/L		103	73 - 127	3	20
1,3-Dichlorobenzene	ND		250	262		ug/L		105	76 - 121	4	20
1,3-Dichloropropane	ND		250	255		ug/L		102	80 - 118	0	20
1,4-Dichlorobenzene	ND		250	269		ug/L		107	76 - 119	4	20
2,2-Dichloropropane	ND		250	193		ug/L		77	57 - 140	6	22
2-Butanone (MEK)	ND		1000	781		ug/L		78	53 - 135	10	20
2-Chlorotoluene	ND		250	234		ug/L		94	75 - 123	5	20
2-Hexanone	ND		1000	974		ug/L		97	58 - 134	2	21
4-Chlorotoluene	ND		250	234		ug/L		93	74 - 124	7	20
4-Isopropyltoluene	ND		250	263		ug/L		105	74 - 127	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161669-B-17 MSD
Matrix: Water
Analysis Batch: 573782

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone	ND		1000	737		ug/L		74	56 - 135	4	20
Acetone	ND		1000	768		ug/L		77	50 - 137	4	21
Benzene	ND		250	233		ug/L		93	69 - 126	1	20
Bromobenzene	ND		250	250		ug/L		100	75 - 122	6	20
Bromochloromethane	ND		250	197		ug/L		79	71 - 130	2	20
Bromodichloromethane	ND		250	208		ug/L		83	67 - 126	2	20
Bromoform	ND		250	186		ug/L		74	57 - 125	0	20
Bromomethane	ND		250	180		ug/L		72	25 - 163	12	40
Carbon disulfide	ND		250	226		ug/L		91	56 - 128	2	20
Carbon tetrachloride	ND		250	211		ug/L		84	60 - 133	5	20
Chlorobenzene	ND		250	275		ug/L		110	78 - 118	1	20
Chloroethane	ND		250	207		ug/L		83	52 - 144	6	30
Chloroform	ND		250	226		ug/L		90	68 - 128	1	20
Chloromethane	ND		250	219		ug/L		88	43 - 142	1	20
cis-1,2-Dichloroethene	630	F1	250	849		ug/L		89	69 - 126	7	20
cis-1,3-Dichloropropene	ND		250	212		ug/L		85	75 - 120	2	20
Dibromochloromethane	ND		250	220		ug/L		88	71 - 122	2	20
Dibromomethane	ND		250	204		ug/L		82	68 - 129	3	20
Dichlorodifluoromethane	ND		250	244		ug/L		98	26 - 152	4	21
Ethylbenzene	ND		250	250		ug/L		100	76 - 121	0	20
Hexachlorobutadiene	ND		250	212		ug/L		85	69 - 133	10	20
Isopropylbenzene	ND		250	267		ug/L		107	70 - 127	5	20
Methylene Chloride	ND		250	223		ug/L		89	64 - 128	0	20
Naphthalene	ND		250	210		ug/L		84	63 - 129	14	21
n-Butylbenzene	ND		250	249		ug/L		100	69 - 130	5	20
N-Propylbenzene	ND		250	240		ug/L		96	73 - 127	7	20
sec-Butylbenzene	ND		250	243		ug/L		97	72 - 127	11	20
Styrene	ND		250	265		ug/L		106	79 - 120	2	20
tert-Butylbenzene	ND		250	253		ug/L		101	72 - 126	5	20
Tetrachloroethene	ND		250	252		ug/L		101	72 - 127	3	20
Toluene	ND		250	238		ug/L		95	68 - 127	2	20
trans-1,2-Dichloroethene	ND		250	220		ug/L		88	66 - 129	0	20
trans-1,3-Dichloropropene	ND		250	200		ug/L		80	66 - 127	3	20
Trichloroethene	5.6		250	269		ug/L		105	70 - 125	2	20
Trichlorofluoromethane	ND		250	228		ug/L		91	57 - 144	2	28
Vinyl chloride	410		250	579		ug/L		70	53 - 141	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*89*		*77 - 120*
Toluene-d8 (Surr)	*109*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-573754/1-A
Matrix: Water
Analysis Batch: 573883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		05/03/22 16:34	05/04/22 19:16	1
1,2-Dibromoethane	ND		0.050		ug/L		05/03/22 16:34	05/04/22 19:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*108*		*70 - 130*	*05/03/22 16:34*	*05/04/22 19:16*	*1*

Lab Sample ID: LCS 280-573754/2-A
Matrix: Water
Analysis Batch: 573883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573754

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromo-3-Chloropropane			0.250	0.244		ug/L		98	60 - 140		
1,2-Dibromoethane			0.250	0.242		ug/L		97	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*112*		*70 - 130*

Lab Sample ID: LCSD 280-573754/3-A
Matrix: Water
Analysis Batch: 573883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573754

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.240		ug/L		96	60 - 140	2	10
1,2-Dibromoethane			0.250	0.242		ug/L		97	60 - 140	0	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*115*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-573695/1-A
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/03/22 19:17	05/04/22 20:35	1
Iron	ND		30		ug/L		05/03/22 19:17	05/04/22 20:35	1
Magnesium	ND		200		ug/L		05/03/22 19:17	05/04/22 20:35	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 20:35	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 20:35	1
Sodium	ND		1000		ug/L		05/03/22 19:17	05/04/22 20:35	1

Lab Sample ID: LCS 280-573695/2-A
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573695

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50000	48700		ug/L		97	90 - 111		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-573695/2-A
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9450		ug/L		94	89 - 115
Magnesium	50000	49000		ug/L		98	90 - 113
Manganese	1000	976		ug/L		98	90 - 110
Potassium	50000	49500		ug/L		99	89 - 114
Sodium	50000	49100		ug/L		98	90 - 115

Lab Sample ID: 280-161727-J-1-B MS
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 573695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	29000		50000	75700		ug/L		94	48 - 153
Iron	43		10000	9670		ug/L		96	52 - 155
Magnesium	50000		50000	98600		ug/L		97	62 - 146
Manganese	41		1000	1000		ug/L		96	79 - 121
Potassium	6900		50000	57800		ug/L		102	76 - 132
Sodium	300000		50000	347000	4	ug/L		102	70 - 203

Lab Sample ID: 280-161727-J-1-C MSD
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 573695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	29000		50000	76200		ug/L		95	48 - 153	1	20
Iron	43		10000	9760		ug/L		97	52 - 155	1	20
Magnesium	50000		50000	99200		ug/L		99	62 - 146	1	20
Manganese	41		1000	1020		ug/L		98	79 - 121	1	20
Potassium	6900		50000	57600		ug/L		101	76 - 132	0	20
Sodium	300000		50000	351000	4	ug/L		109	70 - 203	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-625182/28
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			05/09/22 22:42	1
Sulfate	ND		1.0		mg/L			05/09/22 22:42	1

Lab Sample ID: LCS 480-625182/29
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	50.9		mg/L		102	90 - 110
Sulfate	50.0	52.1		mg/L		104	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-161448-D-4 MS
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	22		50.1	68.3		mg/L		93	81 - 120
Sulfate	5.1		50.0	53.9		mg/L		97	80 - 120

Lab Sample ID: 280-161448-D-4 MSD
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22		50.1	68.6		mg/L		93	81 - 120	0	15
Sulfate	5.1		50.0	54.0		mg/L		98	80 - 120	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-574030/106
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			05/05/22 13:33	1

Lab Sample ID: LCS 280-574030/104
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.65		mg/L		106	90 - 110

Lab Sample ID: LCSD 280-574030/105
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	2.50	2.63		mg/L		105	90 - 110	1	10

Lab Sample ID: 280-161418-3 MS
Matrix: Water
Analysis Batch: 574030

Client Sample ID: DUP3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	ND	F1	1.00	1.13	F1	mg/L		113	90 - 110

Lab Sample ID: 280-161418-3 MSD
Matrix: Water
Analysis Batch: 574030

Client Sample ID: DUP3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND	F1	1.00	1.17	F1	mg/L		117	90 - 110	4	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-573635/22
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			05/02/22 16:56	1

Lab Sample ID: LCS 280-573635/21
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	5.00	5.17		mg/L		103	90 - 110

Lab Sample ID: 280-161417-B-2 MS
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	0.065		4.00	4.26		mg/L		105	90 - 110

Lab Sample ID: 280-161417-B-2 MSD
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	0.065		4.00	4.29		mg/L		106	90 - 110	1	10

Lab Sample ID: MB 280-573773/22
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			05/03/22 16:34	1

Lab Sample ID: LCS 280-573773/21
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	5.00	5.09		mg/L		102	90 - 110

Lab Sample ID: 280-161382-D-2 MS
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	0.59		4.00	4.62		mg/L		101	90 - 110

Lab Sample ID: 280-161382-D-2 MSD
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	0.59		4.00	4.67		mg/L		102	90 - 110	1	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-573357/4
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			04/28/22 14:27	1

Lab Sample ID: LCS 280-573357/3
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	25.3		mg/L		101	88 - 112

Lab Sample ID: 280-161414-A-6 MS
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	1.7		25.0	26.9		mg/L		101	88 - 112

Lab Sample ID: 280-161414-A-6 MSD
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.7		25.0	26.7		mg/L		100	88 - 112	1	15

Lab Sample ID: MB 280-573362/4
Matrix: Water
Analysis Batch: 573362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			04/28/22 17:29	1

Lab Sample ID: LCS 280-573362/3
Matrix: Water
Analysis Batch: 573362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	25.3		mg/L		101	88 - 112

Lab Sample ID: 280-161418-4 MS
Matrix: Water
Analysis Batch: 573362

Client Sample ID: FB3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	ND		25.0	25.6		mg/L		102	88 - 112

Lab Sample ID: 280-161418-4 MSD
Matrix: Water
Analysis Batch: 573362

Client Sample ID: FB3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	ND		25.0	25.7		mg/L		103	88 - 112	0	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-574431/1
Matrix: Water
Analysis Batch: 574431

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				mg/L			05/10/22 12:14	1
Magnesium	0.000				mg/L			05/10/22 12:14	1
Potassium	0.000				mg/L			05/10/22 12:14	1
Sodium	0.000				mg/L			05/10/22 12:14	1
Ammonia as N	0.000				mg/L			05/10/22 12:14	1
Chloride	0.000				mg/L			05/10/22 12:14	1
Sulfate	0.000				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity	0.000				mg/L			05/10/22 12:14	1
Nitrate/Nitrite	0.000				mg/L			05/10/22 12:14	1
Iron	0.000				mg/L			05/10/22 12:14	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-573792/58
Matrix: Water
Analysis Batch: 573792

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			05/03/22 18:49	1

Lab Sample ID: 280-161418-2 DU
Matrix: Water
Analysis Batch: 573792

Client Sample ID: MW-22A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	130			125		mg/L				0.9	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-573280/1
Matrix: Water
Analysis Batch: 573280

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/28/22 11:53	1

Lab Sample ID: LCS 280-573280/2
Matrix: Water
Analysis Batch: 573280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			505	493		mg/L		98	88 - 114		

Lab Sample ID: 280-161384-A-3 DU
Matrix: Water
Analysis Batch: 573280

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1100			1070		mg/L				0.7	10

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161418-1

GC/MS VOA

Analysis Batch: 573474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-1	TRIP BLANK	Total/NA	Water	8260B	
MB 280-573474/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573474/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573474/5	Lab Control Sample Dup	Total/NA	Water	8260B	
280-161623-D-1 MS	Matrix Spike	Total/NA	Water	8260B	
280-161623-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 573782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Total/NA	Water	8260B	
280-161418-3	DUP3	Total/NA	Water	8260B	
280-161418-4	FB3	Total/NA	Water	8260B	
MB 280-573782/10	Method Blank	Total/NA	Water	8260B	
LCS 280-573782/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573782/6	Lab Control Sample Dup	Total/NA	Water	8260B	
280-161669-A-17 MS	Matrix Spike	Total/NA	Water	8260B	
280-161669-B-17 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 573754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-1	TRIP BLANK	Total/NA	Water	8011	
280-161418-2	MW-22A	Total/NA	Water	8011	
280-161418-3	DUP3	Total/NA	Water	8011	
280-161418-4	FB3	Total/NA	Water	8011	
MB 280-573754/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-573754/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-573754/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 573883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-1	TRIP BLANK	Total/NA	Water	8011	573754
280-161418-2	MW-22A	Total/NA	Water	8011	573754
280-161418-3	DUP3	Total/NA	Water	8011	573754
280-161418-4	FB3	Total/NA	Water	8011	573754
MB 280-573754/1-A	Method Blank	Total/NA	Water	8011	573754
LCS 280-573754/2-A	Lab Control Sample	Total/NA	Water	8011	573754
LCSD 280-573754/3-A	Lab Control Sample Dup	Total/NA	Water	8011	573754

Metals

Prep Batch: 573695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Dissolved	Water	3005A	
280-161418-3	DUP3	Dissolved	Water	3005A	
280-161418-4	FB3	Dissolved	Water	3005A	
MB 280-573695/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573695/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161727-J-1-B MS	Matrix Spike	Dissolved	Water	3005A	
280-161727-J-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Metals

Analysis Batch: 574000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Dissolved	Water	6010B	573695
280-161418-3	DUP3	Dissolved	Water	6010B	573695
280-161418-4	FB3	Dissolved	Water	6010B	573695
MB 280-573695/1-A	Method Blank	Total Recoverable	Water	6010B	573695
LCS 280-573695/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573695
280-161727-J-1-B MS	Matrix Spike	Dissolved	Water	6010B	573695
280-161727-J-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	573695

General Chemistry

Analysis Batch: 573280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Total/NA	Water	SM 2540C	
280-161418-3	DUP3	Total/NA	Water	SM 2540C	
280-161418-4	FB3	Total/NA	Water	SM 2540C	
MB 280-573280/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-573280/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-161384-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 573357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Total/NA	Water	9060	
280-161418-3	DUP3	Total/NA	Water	9060	
MB 280-573357/4	Method Blank	Total/NA	Water	9060	
LCS 280-573357/3	Lab Control Sample	Total/NA	Water	9060	
280-161414-A-6 MS	Matrix Spike	Total/NA	Water	9060	
280-161414-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 573362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-4	FB3	Total/NA	Water	9060	
MB 280-573362/4	Method Blank	Total/NA	Water	9060	
LCS 280-573362/3	Lab Control Sample	Total/NA	Water	9060	
280-161418-4 MS	FB3	Total/NA	Water	9060	
280-161418-4 MSD	FB3	Total/NA	Water	9060	

Analysis Batch: 573635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-3	DUP3	Total/NA	Water	353.2	
280-161418-4	FB3	Total/NA	Water	353.2	
MB 280-573635/22	Method Blank	Total/NA	Water	353.2	
LCS 280-573635/21	Lab Control Sample	Total/NA	Water	353.2	
280-161417-B-2 MS	Matrix Spike	Total/NA	Water	353.2	
280-161417-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 573773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Total/NA	Water	353.2	
MB 280-573773/22	Method Blank	Total/NA	Water	353.2	
LCS 280-573773/21	Lab Control Sample	Total/NA	Water	353.2	
280-161382-D-2 MS	Matrix Spike	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 573773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 573792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Total/NA	Water	SM 2320B	
280-161418-3	DUP3	Total/NA	Water	SM 2320B	
280-161418-4	FB3	Total/NA	Water	SM 2320B	
MB 280-573792/58	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-573792/57	Lab Control Sample	Total/NA	Water	SM 2320B	
280-161418-2 DU	MW-22A	Total/NA	Water	SM 2320B	

Analysis Batch: 574030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Total/NA	Water	350.1	
280-161418-3	DUP3	Total/NA	Water	350.1	
280-161418-4	FB3	Total/NA	Water	350.1	
MB 280-574030/106	Method Blank	Total/NA	Water	350.1	
LCS 280-574030/104	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-574030/105	Lab Control Sample Dup	Total/NA	Water	350.1	
280-161418-3 MS	DUP3	Total/NA	Water	350.1	
280-161418-3 MSD	DUP3	Total/NA	Water	350.1	

Analysis Batch: 574431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Total/NA	Water	SM 1030E	
280-161418-2	MW-22A	Total/NA	Water	SM 1030E (meq)	
280-161418-3	DUP3	Total/NA	Water	SM 1030E	
280-161418-3	DUP3	Total/NA	Water	SM 1030E (meq)	
280-161418-4	FB3	Total/NA	Water	SM 1030E	
280-161418-4	FB3	Total/NA	Water	SM 1030E (meq)	
MB 280-574431/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 625182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Total/NA	Water	300.0	
280-161418-3	DUP3	Total/NA	Water	300.0	
280-161418-4	FB3	Total/NA	Water	300.0	
MB 480-625182/28	Method Blank	Total/NA	Water	300.0	
LCS 480-625182/29	Lab Control Sample	Total/NA	Water	300.0	
280-161448-D-4 MS	Matrix Spike	Total/NA	Water	300.0	
280-161448-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 573210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161418-2	MW-22A	Total/NA	Water	Field Sampling	
280-161418-3	DUP3	Total/NA	Water	Field Sampling	

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-161418-1
Date Collected: 04/19/22 07:00
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573474	04/30/22 15:54	CKL	EET DEN
Total/NA	Prep	8011			34.9 mL	35 mL	573754	05/03/22 16:34	KSA	EET DEN
Total/NA	Analysis	8011		1			573883	05/04/22 22:03	KSA	EET DEN

Client Sample ID: MW-22A
Lab Sample ID: 280-161418-2
Date Collected: 04/21/22 09:15
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573782	05/04/22 10:08	TAW	EET DEN
Total/NA	Prep	8011			35.3 mL	35 mL	573754	05/03/22 16:34	KSA	EET DEN
Total/NA	Analysis	8011		1			573883	05/04/22 22:27	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	EET DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 22:02	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/09/22 23:22	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 14:09	JJM	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 16:52	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 21:55	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 18:54	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573280	04/28/22 11:53	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			573210	04/21/22 10:15	TJ	EET DEN

Client Sample ID: DUP3
Lab Sample ID: 280-161418-3
Date Collected: 04/21/22 09:20
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573782	05/04/22 10:30	TAW	EET DEN
Total/NA	Prep	8011			35.4 mL	35 mL	573754	05/03/22 16:34	KSA	EET DEN
Total/NA	Analysis	8011		1			573883	05/04/22 22:51	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	EET DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 22:22	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/09/22 23:41	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 14:34	JJM	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:46	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 22:12	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 19:06	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573280	04/28/22 11:53	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			573210	04/21/22 10:20	TJ	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161418-1

Client Sample ID: FB3

Date Collected: 04/21/22 10:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161418-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573782	05/04/22 09:47	TAW	EET DEN
Total/NA	Prep	8011			35.4 mL	35 mL	573754	05/03/22 16:34	KSA	EET DEN
Total/NA	Analysis	8011		1			573883	05/04/22 23:15	KSA	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	EET DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 22:26	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/10/22 00:01	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 14:07	JJM	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:48	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573362	04/28/22 18:05	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 19:11	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573280	04/28/22 11:53	ABW	EET DEN

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: I. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-32810-13511.1
Client Contact:	Phone: 5037166320	E-Mail: Betsy.Sara@Eurofinset.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone: 503-8575870(Tel)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786 - Annual MW-22A - Apr			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Alks/TDS	Dissolved Metals	Ammonia/NOX/TOC	8260B - VOA	8011 - EDB/DBCP	Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	S	A	R	N	X	
TB1	4/19/22	0700	G	W						X	X		9	
MW-22A	4/21/22	0915	G	W	X		X	X	X	X	X	X	11	
DUP3	4/21/22	0920	G	W	X		X	X	X	X	X	X	11	
FB3	4/21/22	1030	G	W	X		X	X	X	X	X	X	11	

280-161418 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/21/22 @ 1630	SCS		04/22/22 1100	EA Den
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.0, 0.3 CF +0.1 IR #12

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-22A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	(SW)	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN		?				

TEMPERATURE: (°F) 46. °C [Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/21/22	08:22	22.12	.	16.03	.	6.1	X 1	0.99
/ /	:	.	.	.	.		X 3	2.98

Gal/ft = (dia./2)² x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/21/22	09:15	F	3	(40 ml)	(HCl)	(YES)	(NO)		✓
VOA Glass	4/21/22	09:15	F	3	(40 ml)	($Na_2S_2O_3$)	(YES)	(NO)		✓
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/21/22	09:15	F	2	250, (500) (1L)	(None)	(YES)	(NO)	NA	✓
Yellow Glass	4/21/22	09:15	F	2	250, (500), 1L	(H_2SO_4)	(YES)	(NO)		✓
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/21/22	09:15	F	1	250, (500), 1L	(HNO_3)	(YES)	(YES)		✓
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica. T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH4) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX) (NOxt)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: 08:25 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	F(0826)	0.00	6.06	175.9	300.6	10.1	16.08	2.70	clear / colorless
1	F(0833)	1.00	6.07	171.9	292.7	9.9	16.23	2.76	clear / colorless
2	F(0850)	2.00	6.05	168.3	289.3	10.0	17.00	3.70	clear / colorless
3	F(0906)	3.00	6.02	174.1	288.4	9.7	17.38	3.59	clear / colorless
4	F(0908)	3.10	6.02	180.1	288.7	9.9	17.40	3.58	clear / colorless
5	F(0910)	3.20	6.03	181.5	289.1	9.9	17.42	3.53	clear / colorless
6	F(0912)	3.30	6.04	181.3	288.9	9.9		3.54	clear / colorless

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Standard Purge (12/8/20 psi) → 12/8/15 psi ~ 200 mL/min

SAMPLER: E TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** Dup 3
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN			?	**TEMPERATURE:**	°F 48 .	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/21/22	09:20	F	3	40 ml	HCl	YES	NO		
VOA Glass	4/21/22	09:20	F	3	40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/21/22	09:20	F	2	250, 500, 1L	None	YES	NO	NA	
Yellow Glass	4/21/22	09:20	F	2	250, 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/21/22	09:20	F	1	250, 500, 1L	HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0		0.00	.			.	.	.	
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected at MW-22A

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** FB 3
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN			?	**TEMPERATURE:**	(° F) 52. ° C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/21/22	10 : 39	G	3	~~40 ml~~	~~HCl~~	~~YES~~	~~NO~~	✓
VOA Glass	4/21/22	10 : 30	G	3	~~40 ml~~	~~$Na_2S_2O_3$~~	~~YES~~	~~NO~~	✓
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO	
White Poly	4/21/22	10 : 30	G	2	~~250~~ 500, ~~1L~~	~~None~~	~~YES~~	~~NO~~	NA ✓
Yellow Glass	4/21/22	10 : 39	G	2	250, ~~500~~, 1L	~~H_2SO_4~~	~~YES~~	~~NO~~	✓
Red Total Poly	~~4/21/22~~	~~10 : 30~~	~~G~~	~~ET~~	125, 250, 500	HNO_3	YES	NO	
Red Diss. Poly	4/21/22	10 : 30	G	1	250, ~~500~~, 1L	~~HNO_3~~	~~YES~~	~~YES~~	✓
White Poly	/ /	:			250, 500, 1L	None	YES	YES	
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO	

White no acid, Yellow H2SO4, Red HNO3 — 9 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(~~8260~~) (~~8011~~) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (~~TDS~~) (TSS) (Alkalinity) (~~HCO_3/CO_3~~) (~~Cl~~) (~~SO_4~~) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (~~TOC~~) (~~NH_3~~) (~~NO_3/NO_2~~) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(~~Ca~~) (~~Fe~~) (~~Mg~~) (~~Mn~~) (~~K~~) (~~Na~~)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	G (1030)	0.00	—	—	—	—	—	—	—
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected near MW-22a using lab supplied DI water

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FedEx

Do not lift using this tag.

ORIGIN ID:PDXA

SHIP DATE: 21APR22
ACTWGT: 54.85 LB
CAD: XSSFE2300
DIMS: 24x14x14 IN

TO SAMPLE RECEVING
EUROFINS TESTAMERICA – DENVER
4955 YARROW ST

ARVADA CO 80002
(303) 736–0100
INV:
PO:
REF:
DEPT:

(US)

FedEx Express

J221022010502uv

TRK# 0667 8165 7649 6728

FRI – 22 APR 10:30A
PRIORITY OVERNIGHT

XA LAAA

AHS
80002
CO–US DEN

280-161418 Waybill

FedEx

Do not lift using this tag.

ORIGIN ID:PDXA

RT 640 4 C
10:30
FZ
04.22

SAMPLE RECEVING
EUROFINS TESTAMERICA – DENVER
4955 YARROW ST

ARVADA CO 80002
(303) 736–0100
INV:
PO:
REF:

eurofins | Environment Testing TestAmerica

1984158

FedEx Express

J221022010502uv

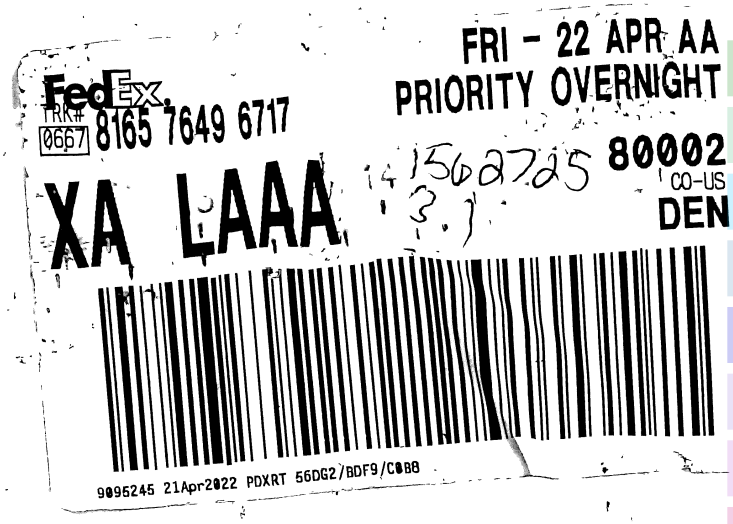
TRK# 0667 8165 7649 6739

FRI – 22 APR 10:30A
PRIORITY OVERNIGHT

XA LAAA

AHS
80002
CO–US DEN

Part # 156297-888 REV 03/23


FedEx
TRK# 0667 8165 7649 6717
FRI - 22 APR AA
PRIORITY OVERNIGHT
80002
CO-US
XA LAAA
DEN
9095245 21Apr2022 PDXRT 56DG2/BDF9/C8B8

280-161418 Waybill

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-612042.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-161418-1
Address: 10 Hazelwood Drive,	Due Date Requested: 5/12/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-22A (280-161418-2)	4/21/22	09:15 Pacific		Water			X	1	
DUP3 (280-161418-3)	4/21/22	09:20 Pacific		Water			X	1	
FB3 (280-161418-4)	4/21/22	10:30 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Wade Does	4/22/22 1530	ETA ENV		4/28/22 1000	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.7#1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161418-1

Login Number: 161418

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161418-1

Login Number: 161418
List Number: 2
Creator: Kazenga, Oliver M

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161418-1

Login Number: 161418
List Number: 3
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 04/29/22 04:48 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7 ir gun #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

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JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Annual P-05A/P-06A/P-07A - April

JOB NUMBER

280-161417-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

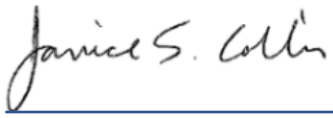
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Definitions/Glossary

Client: Waste Management
Job ID: 280-161417-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-161417-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-161417-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 04/22/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 0.4°C, 2.1°C, 3.2°C and 4.4°C

Holding Times

All holding times were met.

Method Blanks

Dissolved Iron and Dissolved Manganese Method 6010B were detected in the Method Blank above the project established reporting limit, however, the requested reporting limit for Dissolved Iron and Dissolved Manganese is below TestAmerica Denver's standard reporting limit and, therefore, no corrective action has been taken for this anomaly. It must be noted that results reported below TestAmerica Denver's standard reporting limits may result in false positive/false negative results, less accurate quantitation and potential misidentification at the lower concentrations.

All other Method Blanks met method criteria.

Laboratory Control Samples (LCS)

All Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for Ammonia Method 350.1. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and MSD results were within established control limits.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as

Job ID: 280-161417-1 (Continued)

Laboratory: Eurofins Denver (Continued)

the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

The analysis for Chloride and Sulfate Method 300.0 was performed by TestAmerica Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
Phone: 716-691-2600

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161417-1

Client Sample ID: P-05A — Lab Sample ID: 280-161417-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	110000		500		ug/L	1		6010B	Dissolved
Iron	100		30		ug/L	1		6010B	Dissolved
Magnesium	43000		200		ug/L	1		6010B	Dissolved
Manganese	42		3.0		ug/L	1		6010B	Dissolved
Potassium	820		500		ug/L	1		6010B	Dissolved
Sodium	22000		1000		ug/L	1		6010B	Dissolved
Chloride	150		0.56		mg/L	2		300.0	Total/NA
Sulfate	13		1.0		mg/L	2		300.0	Total/NA
Total Organic Carbon - Average	1.1		1.0		mg/L	1		9060	Total/NA
Bicarbonate Alkalinity	270		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	530		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.81				SU	1		Field Sampling	Total/NA
Field Conductivity	946.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.8				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.51				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	60.70				millivolts	1		Field Sampling	Total/NA

Client Sample ID: P-06A — Lab Sample ID: 280-161417-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	87000		500		ug/L	1		6010B	Dissolved
Magnesium	32000		200		ug/L	1		6010B	Dissolved
Manganese	260	B	3.0		ug/L	1		6010B	Dissolved
Potassium	550		500		ug/L	1		6010B	Dissolved
Sodium	44000		1000		ug/L	1		6010B	Dissolved
Chloride	88		0.50		mg/L	1		300.0	Total/NA
Sulfate	3.9		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	1.1		0.040		mg/L	1		350.1	Total/NA
Nitrate/Nitrite	0.065		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.6		1.0		mg/L	1		9060	Total/NA
Bicarbonate Alkalinity	340		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	490		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.56				SU	1		Field Sampling	Total/NA
Field Conductivity	931.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.3				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.70				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	80.3				millivolts	1		Field Sampling	Total/NA

Client Sample ID: P-07A — Lab Sample ID: 280-161417-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	19000		500		ug/L	1		6010B	Dissolved
Magnesium	5700		200		ug/L	1		6010B	Dissolved
Potassium	940		500		ug/L	1		6010B	Dissolved
Sodium	8900		1000		ug/L	1		6010B	Dissolved
Chloride	6.8		0.50		mg/L	1		300.0	Total/NA
Sulfate	3.6		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	3.1		0.050		mg/L	1		353.2	Total/NA
Bicarbonate Alkalinity	73		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	140		10		mg/L	1		SM 2540C	Total/NA
Field pH	5.93				SU	1		Field Sampling	Total/NA
Field Conductivity	181.7				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161417-1

Client Sample ID: P-07A (Continued) — Lab Sample ID: 280-161417-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	11.6				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.77				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	112.8				millivolts	1		Field Sampling	Total/NA

Client Sample ID: FB1 — Lab Sample ID: 280-161417-4

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-161417-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-161417-1	P-05A	Water	04/19/22 09:50	04/22/22 11:00
280-161417-2	P-06A	Water	04/20/22 10:30	04/22/22 11:00
280-161417-3	P-07A	Water	04/19/22 12:30	04/22/22 11:00
280-161417-4	FB1	Water	04/19/22 12:20	04/22/22 11:00

Method Summary

Client: Waste Management
Job ID: 280-161417-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
FILTRATION	Sample Filtration	None	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client Sample ID: P-05A

Date Collected: 04/19/22 09:50
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161417-1

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	110000		500		ug/L		05/03/22 19:17	05/04/22 21:50	1
Iron	100		30		ug/L		05/03/22 19:17	05/04/22 21:50	1
Magnesium	43000		200		ug/L		05/03/22 19:17	05/04/22 21:50	1
Manganese	42		3.0		ug/L		05/03/22 19:17	05/04/22 21:50	1
Potassium	820		500		ug/L		05/03/22 19:17	05/04/22 21:50	1
Sodium	22000		1000		ug/L		05/03/22 19:17	05/04/22 21:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	150		0.56		mg/L			05/09/22 20:25	2
Sulfate (EPA 300.0)	13		1.0		mg/L			05/09/22 20:25	2
Ammonia as N (EPA 350.1)	ND		0.040		mg/L			05/05/22 14:40	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/02/22 17:32	1
Total Organic Carbon - Average (SW846 9060)	1.1		1.0		mg/L			04/28/22 20:26	1
Bicarbonate Alkalinity (SM 2320B)	270		10		mg/L			05/03/22 18:01	1
Total Dissolved Solids (SM 2540C)	530		10		mg/L			04/26/22 08:45	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.81				SU			04/19/22 10:50	1
Field Conductivity	946.0				umhos/cm			04/19/22 10:50	1
Field Temperature	9.8				Degrees C			04/19/22 10:50	1
Field Dissolved Oxygen	0.51				mg/L			04/19/22 10:50	1
Field EH/ORP	60.70				millivolts			04/19/22 10:50	1

Client Sample ID: P-06A

Date Collected: 04/20/22 10:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161417-2

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	87000		500		ug/L		04/28/22 10:31	04/28/22 22:22	1
Iron	ND		30		ug/L		04/28/22 10:31	04/28/22 22:22	1
Magnesium	32000		200		ug/L		04/28/22 10:31	04/28/22 22:22	1
Manganese	260	B	3.0		ug/L		04/28/22 10:31	04/28/22 22:22	1
Potassium	550		500		ug/L		04/28/22 10:31	04/28/22 22:22	1
Sodium	44000		1000		ug/L		04/28/22 10:31	04/28/22 22:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	88		0.50		mg/L			05/09/22 20:45	1
Sulfate (EPA 300.0)	3.9		1.0		mg/L			05/09/22 20:45	1
Ammonia as N (EPA 350.1)	1.1		0.040		mg/L			05/05/22 14:42	1
Nitrate/Nitrite (EPA 353.2)	0.065		0.050		mg/L			05/02/22 17:34	1
Total Organic Carbon - Average (SW846 9060)	1.6		1.0		mg/L			04/28/22 21:09	1
Bicarbonate Alkalinity (SM 2320B)	340		10		mg/L			04/28/22 21:00	1
Total Dissolved Solids (SM 2540C)	490		10		mg/L			04/26/22 11:39	1

Client Sample ID: P-06A

Date Collected: 04/20/22 10:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161417-2
Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.56				SU			04/20/22 11:30	1
Field Conductivity	931.0				umhos/cm			04/20/22 11:30	1
Field Temperature	11.3				Degrees C			04/20/22 11:30	1
Field Dissolved Oxygen	2.70				mg/L			04/20/22 11:30	1
Field EH/ORP	80.3				millivolts			04/20/22 11:30	1

Client Sample ID: P-07A

Date Collected: 04/19/22 12:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161417-3
Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	19000		500		ug/L		05/03/22 19:17	05/04/22 21:54	1
Iron	ND		30		ug/L		05/03/22 19:17	05/04/22 21:54	1
Magnesium	5700		200		ug/L		05/03/22 19:17	05/04/22 21:54	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 21:54	1
Potassium	940		500		ug/L		05/03/22 19:17	05/04/22 21:54	1
Sodium	8900		1000		ug/L		05/03/22 19:17	05/04/22 21:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	6.8		0.50		mg/L			05/09/22 21:04	1
Sulfate (EPA 300.0)	3.6		1.0		mg/L			05/09/22 21:04	1
Ammonia as N (EPA 350.1)	ND		0.040		mg/L			05/05/22 14:44	1
Nitrate/Nitrite (EPA 353.2)	3.1		0.050		mg/L			05/02/22 17:40	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			04/28/22 21:25	1
Bicarbonate Alkalinity (SM 2320B)	73		10		mg/L			04/28/22 21:05	1
Total Dissolved Solids (SM 2540C)	140		10		mg/L			04/26/22 08:45	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.93				SU			04/19/22 13:30	1
Field Conductivity	181.7				umhos/cm			04/19/22 13:30	1
Field Temperature	11.6				Degrees C			04/19/22 13:30	1
Field Dissolved Oxygen	3.77				mg/L			04/19/22 13:30	1
Field EH/ORP	112.8				millivolts			04/19/22 13:30	1

Client Sample ID: FB1

Date Collected: 04/19/22 12:20
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161417-4
Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/03/22 19:17	05/04/22 21:58	1
Iron	ND		30		ug/L		05/03/22 19:17	05/04/22 21:58	1
Magnesium	ND		200		ug/L		05/03/22 19:17	05/04/22 21:58	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 21:58	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 21:58	1
Sodium	ND		1000		ug/L		05/03/22 19:17	05/04/22 21:58	1

Client Sample Results

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161417-1

Client Sample ID: FB1

Date Collected: 04/19/22 12:20
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161417-4

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		0.50		mg/L			05/09/22 21:24	1
Sulfate (EPA 300.0)	ND		1.0		mg/L			05/09/22 21:24	1
Ammonia as N (EPA 350.1)	ND		0.040		mg/L			05/05/22 14:46	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/02/22 17:42	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			04/28/22 21:41	1
Bicarbonate Alkalinity (SM 2320B)	ND		10		mg/L			04/28/22 21:10	1
Total Dissolved Solids (SM 2540C)	ND		10		mg/L			04/26/22 08:45	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-573695/1-A
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/03/22 19:17	05/04/22 20:35	1
Iron	ND		30		ug/L		05/03/22 19:17	05/04/22 20:35	1
Magnesium	ND		200		ug/L		05/03/22 19:17	05/04/22 20:35	1
Manganese	ND		3.0		ug/L		05/03/22 19:17	05/04/22 20:35	1
Potassium	ND		500		ug/L		05/03/22 19:17	05/04/22 20:35	1
Sodium	ND		1000		ug/L		05/03/22 19:17	05/04/22 20:35	1

Lab Sample ID: LCS 280-573695/2-A
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	48700		ug/L		97	90 - 111
Iron	10000	9450		ug/L		94	89 - 115
Magnesium	50000	49000		ug/L		98	90 - 113
Manganese	1000	976		ug/L		98	90 - 110
Potassium	50000	49500		ug/L		99	89 - 114
Sodium	50000	49100		ug/L		98	90 - 115

Lab Sample ID: MB 280-573083/1-C
Matrix: Water
Analysis Batch: 573344

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 573146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		04/28/22 10:31	04/28/22 20:51	1
Iron	37.8		30		ug/L		04/28/22 10:31	04/28/22 20:51	1
Magnesium	ND		200		ug/L		04/28/22 10:31	04/28/22 20:51	1
Manganese	3.82		3.0		ug/L		04/28/22 10:31	04/28/22 20:51	1
Potassium	ND		500		ug/L		04/28/22 10:31	04/28/22 20:51	1
Sodium	ND		1000		ug/L		04/28/22 10:31	04/28/22 20:51	1

Lab Sample ID: LCS 280-573083/2-C
Matrix: Water
Analysis Batch: 573344

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 573146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	48700		ug/L		97	90 - 111
Iron	10000	9730		ug/L		97	89 - 115
Magnesium	50000	47700		ug/L		95	90 - 113
Manganese	1000	970		ug/L		97	90 - 110
Potassium	50000	48200		ug/L		96	89 - 114
Sodium	50000	49500		ug/L		99	90 - 115

Lab Sample ID: 280-161273-F-1-C MS
Matrix: Water
Analysis Batch: 573344

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 573146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	130000		50000	173000		ug/L		93	48 - 153

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-161273-F-1-C MS
Matrix: Water
Analysis Batch: 573344

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 573146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	63	B	10000	9710		ug/L		96	52 - 155
Magnesium	30000		50000	77300		ug/L		95	62 - 146
Manganese	180	B	1000	1130		ug/L		95	79 - 121
Potassium	8000		50000	56600		ug/L		97	76 - 132
Sodium	250000		50000	305000	4	ug/L		103	70 - 203

Lab Sample ID: 280-161273-F-1-D MSD
Matrix: Water
Analysis Batch: 573344

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 573146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	130000		50000	173000		ug/L		93	48 - 153	0	20
Iron	63	B	10000	9690		ug/L		96	52 - 155	0	20
Magnesium	30000		50000	77300		ug/L		95	62 - 146	0	20
Manganese	180	B	1000	1130		ug/L		95	79 - 121	0	20
Potassium	8000		50000	56400		ug/L		97	76 - 132	0	20
Sodium	250000		50000	305000	4	ug/L		103	70 - 203	0	20

Lab Sample ID: 280-161727-J-1-B MS
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 573695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	29000		50000	75700		ug/L		94	48 - 153
Iron	43		10000	9670		ug/L		96	52 - 155
Magnesium	50000		50000	98600		ug/L		97	62 - 146
Manganese	41		1000	1000		ug/L		96	79 - 121
Potassium	6900		50000	57800		ug/L		102	76 - 132
Sodium	300000		50000	347000	4	ug/L		102	70 - 203

Lab Sample ID: 280-161727-J-1-C MSD
Matrix: Water
Analysis Batch: 574000

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 573695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	29000		50000	76200		ug/L		95	48 - 153	1	20
Iron	43		10000	9760		ug/L		97	52 - 155	1	20
Magnesium	50000		50000	99200		ug/L		99	62 - 146	1	20
Manganese	41		1000	1020		ug/L		98	79 - 121	1	20
Potassium	6900		50000	57600		ug/L		101	76 - 132	0	20
Sodium	300000		50000	351000	4	ug/L		109	70 - 203	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-625182/4
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			05/09/22 14:52	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-625182/4
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			05/09/22 14:52	1

Lab Sample ID: LCS 480-625182/5
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	50.4		mg/L		101	90 - 110
Sulfate	50.0	51.5		mg/L		103	90 - 110

Lab Sample ID: 280-161417-4 MS
Matrix: Water
Analysis Batch: 625182

Client Sample ID: FB1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		50.1	47.4		mg/L		95	81 - 120
Sulfate	ND		50.0	48.5		mg/L		97	80 - 120

Lab Sample ID: 620-4251-Q-6 MS
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14		50.1	61.1		mg/L		93	81 - 120
Sulfate	83		50.0	128		mg/L		90	80 - 120

Lab Sample ID: 620-4251-Q-6 MSD
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14		50.1	61.1		mg/L		93	81 - 120	0	15
Sulfate	83		50.0	128		mg/L		89	80 - 120	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-574030/106
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.040		mg/L			05/05/22 13:33	1

Lab Sample ID: LCS 280-574030/104
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.65		mg/L		106	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCSD 280-574030/105
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N			2.50	2.63		mg/L		105	90 - 110	1	10

Lab Sample ID: 280-161418-D-3 MS
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	ND	F1	1.00	1.13	F1	mg/L		113	90 - 110		

Lab Sample ID: 280-161418-D-3 MSD
Matrix: Water
Analysis Batch: 574030

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND	F1	1.00	1.17	F1	mg/L		117	90 - 110	4	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-573635/22
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			05/02/22 16:56	1

Lab Sample ID: LCS 280-573635/21
Matrix: Water
Analysis Batch: 573635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite			5.00	5.17		mg/L		103	90 - 110		

Lab Sample ID: 280-161417-2 MS
Matrix: Water
Analysis Batch: 573635

Client Sample ID: P-06A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite	0.065		4.00	4.26		mg/L		105	90 - 110		

Lab Sample ID: 280-161417-2 MSD
Matrix: Water
Analysis Batch: 573635

Client Sample ID: P-06A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	0.065		4.00	4.29		mg/L		106	90 - 110	1	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-573357/4
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			04/28/22 14:27	1

Lab Sample ID: LCS 280-573357/3
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	25.3		mg/L		101	88 - 112

Lab Sample ID: 280-161414-A-6 MS
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	1.7		25.0	26.9		mg/L		101	88 - 112

Lab Sample ID: 280-161414-A-6 MSD
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.7		25.0	26.7		mg/L		100	88 - 112	1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-573361/58
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			04/28/22 20:24	1

Lab Sample ID: 280-161414-A-8 DU
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity	350		353		mg/L		2	20

Lab Sample ID: MB 280-573792/32
Matrix: Water
Analysis Batch: 573792

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			05/03/22 15:33	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-161311-A-2 DU
Matrix: Water
Analysis Batch: 573792

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	290			290		mg/L				0.4	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-572980/1
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/26/22 07:45	1

Lab Sample ID: LCS 280-572980/2
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			505	506		mg/L		100	88 - 114		

Lab Sample ID: LCSD 280-572980/3
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			505	494		mg/L		98	88 - 114	2	20

Lab Sample ID: 280-161409-A-5 DU
Matrix: Water
Analysis Batch: 572980

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	190			204		mg/L				6	10

Lab Sample ID: MB 280-573020/1
Matrix: Water
Analysis Batch: 573020

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/26/22 10:38	1

Lab Sample ID: LCS 280-573020/2
Matrix: Water
Analysis Batch: 573020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	490		mg/L		98	88 - 114		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 280-161314-A-4 DU
Matrix: Water
Analysis Batch: 573020

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1100			1050		mg/L				1	10

Metals

Filtration Batch: 573083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-573083/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-573083/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	
280-161273-F-1-C MS	Matrix Spike	Dissolved	Water	FILTRATION	
280-161273-F-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	FILTRATION	

Filtration Batch: 573135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-2	P-06A	Dissolved	Water	FILTRATION	

Prep Batch: 573146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-2	P-06A	Dissolved	Water	3005A	573135
MB 280-573083/1-C	Method Blank	Dissolved	Water	3005A	573083
LCS 280-573083/2-C	Lab Control Sample	Dissolved	Water	3005A	573083
280-161273-F-1-C MS	Matrix Spike	Dissolved	Water	3005A	573083
280-161273-F-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	573083

Analysis Batch: 573344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-2	P-06A	Dissolved	Water	6010B	573146
MB 280-573083/1-C	Method Blank	Dissolved	Water	6010B	573146
LCS 280-573083/2-C	Lab Control Sample	Dissolved	Water	6010B	573146
280-161273-F-1-C MS	Matrix Spike	Dissolved	Water	6010B	573146
280-161273-F-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	573146

Prep Batch: 573695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-1	P-05A	Dissolved	Water	3005A	
280-161417-3	P-07A	Dissolved	Water	3005A	
280-161417-4	FB1	Dissolved	Water	3005A	
MB 280-573695/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573695/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161727-J-1-B MS	Matrix Spike	Dissolved	Water	3005A	
280-161727-J-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 574000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-1	P-05A	Dissolved	Water	6010B	573695
280-161417-3	P-07A	Dissolved	Water	6010B	573695
280-161417-4	FB1	Dissolved	Water	6010B	573695
MB 280-573695/1-A	Method Blank	Total Recoverable	Water	6010B	573695
LCS 280-573695/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573695
280-161727-J-1-B MS	Matrix Spike	Dissolved	Water	6010B	573695
280-161727-J-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	573695

General Chemistry

Analysis Batch: 572980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-1	P-05A	Total/NA	Water	SM 2540C	
280-161417-3	P-07A	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 572980 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-4	FB1	Total/NA	Water	SM 2540C	
MB 280-572980/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-572980/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-572980/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-161409-A-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 573020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-2	P-06A	Total/NA	Water	SM 2540C	
MB 280-573020/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-573020/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-161314-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 573357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-1	P-05A	Total/NA	Water	9060	
280-161417-2	P-06A	Total/NA	Water	9060	
280-161417-3	P-07A	Total/NA	Water	9060	
280-161417-4	FB1	Total/NA	Water	9060	
MB 280-573357/4	Method Blank	Total/NA	Water	9060	
LCS 280-573357/3	Lab Control Sample	Total/NA	Water	9060	
280-161414-A-6 MS	Matrix Spike	Total/NA	Water	9060	
280-161414-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 573361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-2	P-06A	Total/NA	Water	SM 2320B	
280-161417-3	P-07A	Total/NA	Water	SM 2320B	
280-161417-4	FB1	Total/NA	Water	SM 2320B	
MB 280-573361/58	Method Blank	Total/NA	Water	SM 2320B	
280-161414-A-8 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 573635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-1	P-05A	Total/NA	Water	353.2	
280-161417-2	P-06A	Total/NA	Water	353.2	
280-161417-3	P-07A	Total/NA	Water	353.2	
280-161417-4	FB1	Total/NA	Water	353.2	
MB 280-573635/22	Method Blank	Total/NA	Water	353.2	
LCS 280-573635/21	Lab Control Sample	Total/NA	Water	353.2	
280-161417-2 MS	P-06A	Total/NA	Water	353.2	
280-161417-2 MSD	P-06A	Total/NA	Water	353.2	

Analysis Batch: 573792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-1	P-05A	Total/NA	Water	SM 2320B	
MB 280-573792/32	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-573792/31	Lab Control Sample	Total/NA	Water	SM 2320B	
280-161311-A-2 DU	Duplicate	Total/NA	Water	SM 2320B	

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161417-1

General Chemistry

Analysis Batch: 574030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-1	P-05A	Total/NA	Water	350.1	
280-161417-2	P-06A	Total/NA	Water	350.1	
280-161417-3	P-07A	Total/NA	Water	350.1	
280-161417-4	FB1	Total/NA	Water	350.1	
MB 280-574030/106	Method Blank	Total/NA	Water	350.1	
LCS 280-574030/104	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-574030/105	Lab Control Sample Dup	Total/NA	Water	350.1	
280-161418-D-3 MS	Matrix Spike	Total/NA	Water	350.1	
280-161418-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 625182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-1	P-05A	Total/NA	Water	300.0	
280-161417-2	P-06A	Total/NA	Water	300.0	
280-161417-3	P-07A	Total/NA	Water	300.0	
280-161417-4	FB1	Total/NA	Water	300.0	
MB 480-625182/4	Method Blank	Total/NA	Water	300.0	
LCS 480-625182/5	Lab Control Sample	Total/NA	Water	300.0	
280-161417-4 MS	FB1	Total/NA	Water	300.0	
620-4251-Q-6 MS	Matrix Spike	Total/NA	Water	300.0	
620-4251-Q-6 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 573210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161417-1	P-05A	Total/NA	Water	Field Sampling	
280-161417-2	P-06A	Total/NA	Water	Field Sampling	
280-161417-3	P-07A	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 280-161417-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: P-05A
Lab Sample ID: 280-161417-1
Date Collected: 04/19/22 09:50
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	EET DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:50	LMT	EET DEN
Total/NA	Analysis	300.0		2			625182	05/09/22 20:25	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 14:40	JJM	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:32	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 20:26	ABW	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 18:01	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	572980	04/26/22 08:45	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			573210	04/19/22 10:50	TJ	EET DEN

Client Sample ID: P-06A
Lab Sample ID: 280-161417-2
Date Collected: 04/20/22 10:30
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			200 mL	200 mL	573135	04/27/22 10:40	MAB	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573146	04/28/22 10:31	MB	EET DEN
Dissolved	Analysis	6010B		1			573344	04/28/22 22:22	MAB	EET DEN
Total/NA	Analysis	300.0		1			625182	05/09/22 20:45	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 14:42	JJM	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:34	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 21:09	ABW	EET DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 21:00	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573020	04/26/22 11:39	LRB	EET DEN
Total/NA	Analysis	Field Sampling		1			573210	04/20/22 11:30	TJ	EET DEN

Client Sample ID: P-07A
Lab Sample ID: 280-161417-3
Date Collected: 04/19/22 12:30
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	EET DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:54	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/09/22 21:04	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 14:44	JJM	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:40	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 21:25	ABW	EET DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 21:05	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	572980	04/26/22 08:45	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			573210	04/19/22 13:30	TJ	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161417-1

Client Sample ID: FB1

Date Collected: 04/19/22 12:20
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161417-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	573695	05/03/22 19:17	KMS	EET DEN
Dissolved	Analysis	6010B		1			574000	05/04/22 21:58	LMT	EET DEN
Total/NA	Analysis	300.0		1			625182	05/09/22 21:24	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574030	05/05/22 14:46	JJM	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573635	05/02/22 17:42	SVC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 21:41	ABW	EET DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 21:10	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	572980	04/26/22 08:45	ABW	EET DEN

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Ian Hultquist	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-23501-10345 1
Client Contact:	Phone: 503 716 6320	E-Mail: Collins.Janice@ET.EurofinsUS.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers Event Desc: Annual P-05A/P-06A/P-07A - April	Project #: 28002786			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alks	Dissolved Metals	Nitrate+Nitrite	TOC	Ammonia	Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	S	S	N		
P-05A	4/19/22	0950	G	W	X		X	X	X	X	X	X	4	
P-06A	4/20/22	1030	G	W			X	X	X	X	X	X	3	limited volume
P-07A	4/19/22	1230	G	W	X		X	X	X	X	X	X	4	
FB1	4/19/22	1220	G	W	X		X	X	X	X	X	X	4	
														Use unpreserved for dissolved metals (not field filtered)

280-161417 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	4/21/22 1630	SCS	[signature]	04/22/2022 1100	DEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by	Date/Time	Company	Received by:	Date/Time.	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.0, 0.3 CF +0.1 IR #12

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Ian Hultquist	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-23501-10345.1
Client Contact:	Phone: 503 716 6320	E-Mail: Collins.Janice@ET.EurofinsUS.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone	PO #:			
Email.	WO #:			
Project Name:1003|Riverbend Landfill SCS Engineers Event Desc: Annual P-05A/P-06A/P-07A - April	Project #: 28002786			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alks	Dissolved Metals	Nitrate+Nitrite	TOC	Ammonia	Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	S	S	N		
P-05A	4/19/22	0950	G	W	X		X	X	X	X	X	X	4	
P-06A	4/20/22	1030	G	W			X	X	X	X	X	X	3	limited volume
P-07A	4/19/22	1230	G	W	X		X	X	X	X	X	X	4	
FB1	4/19/22	1220	G	W	X		X	X	X	X	X	X	4	
														Use unpreserved for dissolved metals (not field filtered)

280-161417 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/21/22 @1630	SCS		4/25/22 0852	Test America
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4 + 0.3 IR12 CF +0.1

4/25/22 0852

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Ian Hultquist	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-23501-10345.1
Client Contact:	Phone: 503 716 6320	E-Mail: Collins.Janice@ET.EurofinsUS.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers Event Desc: Annual P-05A/P-06A/P-07A - April	Project #: 28002786			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alks	Dissolved Metals	Nitrate+Nitrite	TOC	Ammonia	Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	S	S	N		
P-05A	4/19/22	0950	G	W	X		X	X	X	X	X	X	4	
P-06A	4/20/22	1030	G	W			X	X	X	X	X	X	3	limited volume
P-07A	4/19/22	1230	G	W	X		X	X	X	X	X	X	4	
FB1	4/19/22	1220	G	W	X		X	X	X	X	X	X	4	
														Use unpreserved for dissolved metals (not field filtered)

280-161417 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/21/22 @1630	SCS		4/25/22 0855	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.3 + 0.5 IR12 CF +0.1 3.4/25/22 PJ

3/10/2023

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** P-05A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		**TEMPERATURE:**	° F . ° C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
4/19/22	09:00	21.44	.	2.53	.	18.91	X 1	0.77
/ /	:	.	.	.	.		X 3	2.31

Gal/ft = (dia./2)^2 x 0.163 (1" = 0.041) 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	/ /	:			40 ml HCl	YES	NO		
VOA Glass	/ /	:			40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	4/19/22	9:50	B	2	(250), 500, (1L) (None)	(YES)	(NO)	NA	√
Yellow Glass	4/19/22	9:50	B	1	250, (500), 1L (H_2SO_4)	(YES)	(NO)		√
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	4/19/22	9:50	B	1	250, (500), 1L (HNO_3)	(YES)	(YES)		√
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	9:00	0.00	6.30	189.6	961.0	10.1	4.71	3.0	C/C
1	9:15	0.8	6.77	122	950.0	9.60	11.11	0.99	C/C
2	9:25	1.50	6.81	85.2	946.0	9.70	12.11	0.72	C/C
3	9:39	2.30	6.81	63.1	947.0	9.70	12.65	0.51	C/C
4	9:41	2.45	6.80	61.40	947.0	9.7	12.64	0.49	C/C
5	9:43	2.60	6.81	60.70	946.0	9.8	12.94	0.51	C/C
6			.			.	.	.	C/C

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Standard Purge ~ (250mL/min)

SAMPLER: (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** P-06A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN			?	**TEMPERATURE:**	°F 48.	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
4/19/22	10:20	21.82	.	4.56	.	17.36	X 1	0.70
4/20/22	10:28	21.82	.	18.86	.		X 3	2.10

Gal/ft = (dia./2)^2 x 0.163 (1") 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	/ /	:		40 ml	HCl	YES	NO		
VOA Glass	/ /	:		40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/20/22	10:30	B	2 250, 500, 1L	None	YES	NO	NA	√
Yellow Glass	4/20/22	10:30	B	1 250, 500, 1L	H_2SO_4	YES	NO		√
Red Total Poly	/ /	:		125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO_3	YES	YES		
White Poly	/ /	:		250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:		100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 3 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	B(1030)	0.00	6.90	57.3	91.1	10.2	6.54	0.54	clear/colorless
1	B(1042)	0.73	6.85	21.07	97.1	10.2	17.56	0.73	clear/colorless
2	B(1057)	1.45	7.03	-45.3	900.0	10.8	19.50	0.81	clear/colorless
3	B(1102)	1.60	7.04	-56.0	915.0	10.8	21.66	1.86	Tan, cloudy
4	B(1025)	1.70	6.56	80.3	931.0	11.3	18.86	2.70	tan, cloudy
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity Color]

Standard purge (~200ml/min) Well dewatered on 4/19/22 @ 1102, will return on 4/20/22 to sample.

Returned on 4/20/22, WL 18.86. Began to sample, insufficient water to fill all bottles.

SAMPLER: J. Huttgren (PRINTED NAME) (SIGNATURE)

Filled partial of 1L unpreserved, Returned at 1300 and filling 1L. Returned at 1520 and filled

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** P-07A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		**TEMPERATURE:**	° F . ° C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/29/22	1 :30	28.48	.	10.91	.	17.97	X 1	2.92
/ /	:	.	.	.	.		X 3	8.78

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	/ /	:			40 ml HCl	YES	NO		
VOA Glass	/ /	:			40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	4/19/22	12 :30	B	2	250, 500, 1L None	YES	NO	NA	√
Yellow Glass	4/19/22	12 :30	B	1	250, 500, 1L H_2SO_4	YES	NO		√
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	4/19/22	12 :30	B	1	250, 500, 1L HNO_3	YES	YES		√
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	1138 B	0.00	6.20	-12.3	182.1	11.20	10.93	5.44	clear/colorless
1	1146 B	1.60	5.93	48.8	180.0	11.50	14.01	5.19	c/c
2	1154 B	2.0	5.93	64.9	180.3	11.5	14.76	4.43	c/c
3	1208 B	5.0	5.91	89.8	181.0	11.6	15.09	4.35	c/c
4	1223 B	8.80	5.92	109.8	181.0	11.6	15.01	3.84	c/c
5	1225 B	9.00	5.93	111.4	182.1	11.6	15.05	3.78	c/c
6	1227 B	9.30	5.93	112.8	181.7	11.6	15.04	3.77	c/c

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Standard Purge ~ (1L/min)

SAMPLER: T. Hartquist (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** FB1
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	~~45~~ 50	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Transfer

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	/ /	:		40 ml	HCl	YES	NO		
VOA Glass	/ /	:		40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/19/22	12:20	G	2	~~250, 500, 1L~~ None	~~YES~~	~~NO~~	NA	
Yellow Glass	4/19/22	12:20	G	1	250, ~~500~~, 1L H_2SO_4	~~YES~~	~~NO~~		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	4/19/22	12:20	G	1	250, ~~500~~, 1L HNO_3	YES	~~YES~~		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

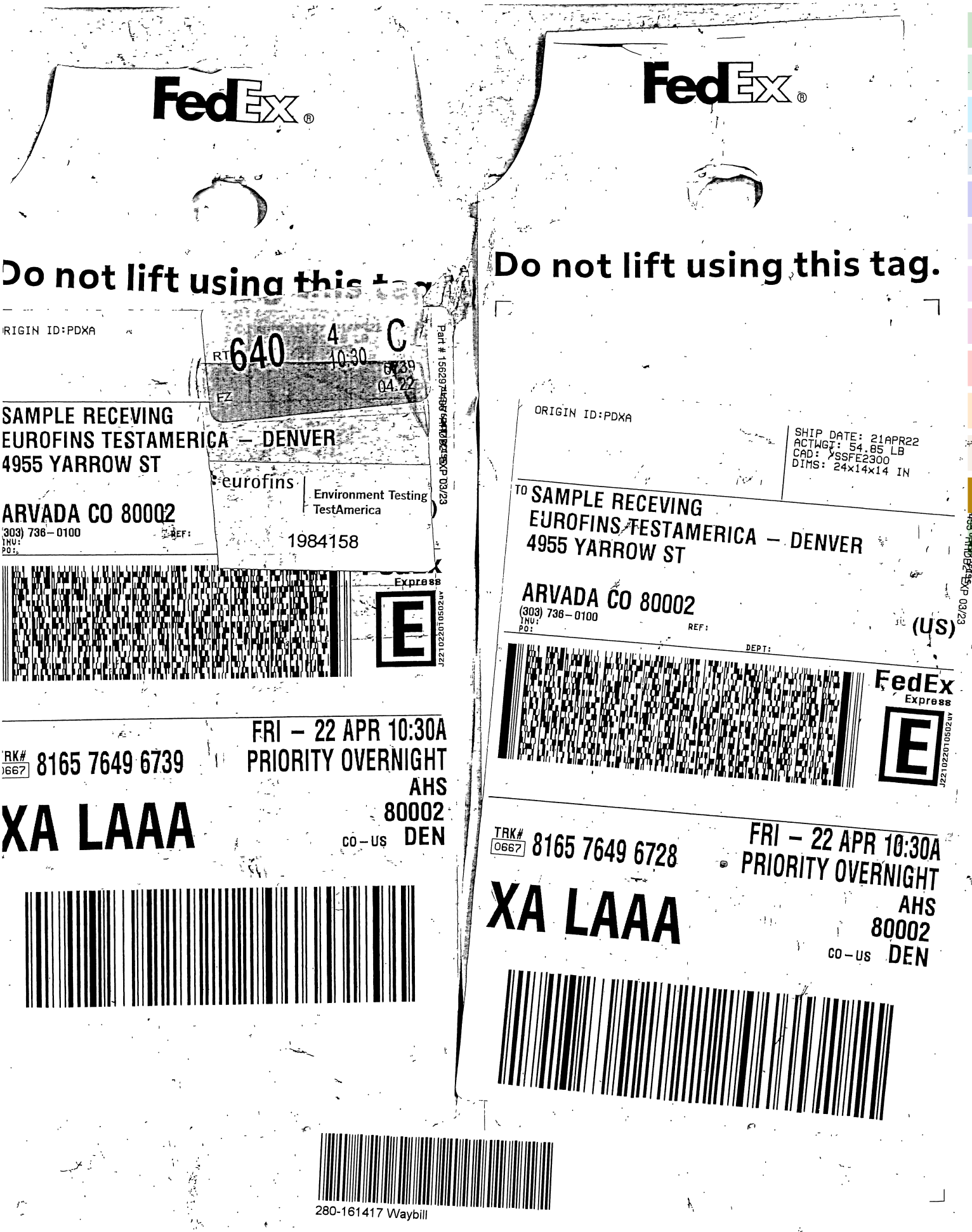
WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	G (1220)	0.00	—	—	—	—	—	—	—
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected new P-07A using lab supplied DI water

SAMPLER: J. Hultquist (PRINTED NAME) (SIGNATURE)



FedEx

Do not lift using this tag.

ORIGIN ID:PDXA

SHIP DATE: 21APR22
ACTWGT: 54.85 LB
CAD: 7SSFE2300
DIMS: 24x14x14 IN

TO SAMPLE RECEVING
EUROFINS TESTAMERICA – DENVER
4955 YARROW ST

ARVADA CO 80002
(303) 736–0100
INV:
PO:
REF:
DEPT:

(US)

FedEx Express

J221022010502uv

TRK# 0667 8165 7649 6728

FRI – 22 APR 10:30A
PRIORITY OVERNIGHT

XA LAAA

AHS
80002
CO–US DEN

RT 640 4 C
10:30
FZ
04.22

Part # 156297-[illegible] REV [illegible] EXP 03/23

ORIGIN ID:PDXA

SAMPLE RECEVING
EUROFINS TESTAMERICA – DENVER
4955 YARROW ST

ARVADA CO 80002
(303) 736–0100
INV:
PO:
REF:

eurofins | Environment Testing TestAmerica

1984158

FedEx Express

J221022010502uv

TRK# 0667 8165 7649 6739

FRI – 22 APR 10:30A
PRIORITY OVERNIGHT

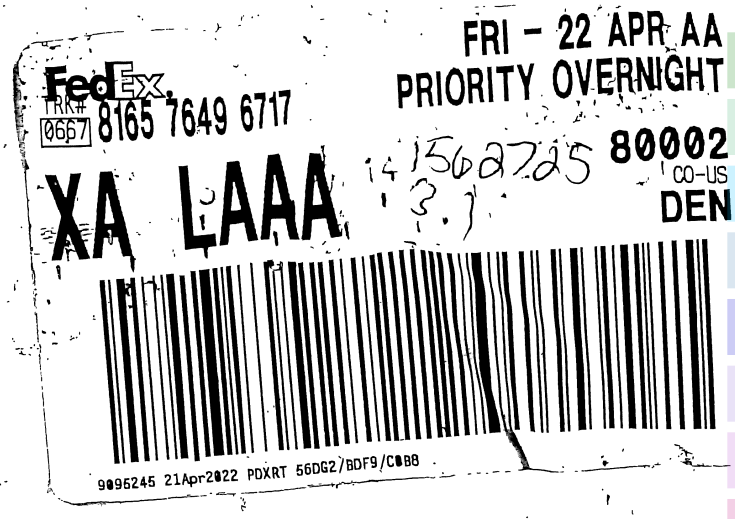
XA LAAA

AHS
80002
CO–US DEN

280-161417 Waybill

SAMPLE RECEIVING
EUROFINS TESTAMERICA — DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
Environment Test
TestAmerica
1773606
(US)
FedEx
Express
TRK#
8165 7649 6691
FRI - 22 APR 10:30A
PRIORITY OVERNIGHT
A LAAA
43
AHS
80002
CO - US
DEN

280-16417 Waybill


FedEx
TRK# 0667 8165 7649 6717
FRI - 22 APR AA
PRIORITY OVERNIGHT
80002
CO-US
XA LAAA
DEN
9096245 21Apr2022 PDXRT 56DG2/BDF9/C8B8

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-612041.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-161417-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 5/12/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
P-05A (280-161417-1)	4/19/22	09:50 Pacific		Water			X	1	
P-06A (280-161417-2)	4/20/22	10:30 Pacific		Water			X	1	
P-07A (280-161417-3)	4/19/22	12:30 Pacific		Water			X	1	
FB1 (280-161417-4)	4/19/22	12:20 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Madi Davis	Date/Time: 4/26/22	Company: ETA DEN	Received by: Date/Time: 4/28/22 1000 Company: TA
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.7 #1 ICE

Ver: 06/08/2021

3/10/2023

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161417-1

Login Number: 161417
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	No: Limited volume received
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161417-1

Login Number: 161417
List Number: 2
Creator: Kazenga, Oliver M

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161417-1

Login Number: 161417
List Number: 3
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 04/29/22 04:47 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7 ir gun #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Spring 2022

Surface Water

Laboratory Analytical Report

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Generated 3/10/2023 2:29:42 PM

JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Annual SW - Apr

JOB NUMBER

280-161382-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

Job Notes

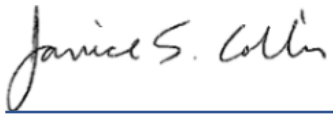
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-161382-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-161382-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-161382-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 04/22/2022 and 4/25/2022; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.9°C, 1.2°C and 4.4°C

Holding Times

The analysis for pH should be performed in the field immediately following sampling, and therefore the laboratory pH result was flagged with an "HF" flag.

All other holding times were met.

Method Blanks

All Method Blanks met method criteria.

Laboratory Control Samples (LCS)

The Method 8260B LCS recovery for Trichlorofluoromethane was above control limits. Because the data are considered to be biased high and all associated samples were non-detect above the reporting limit for Trichlorofluoromethane, corrective action was deemed unnecessary.

The Method 8260B LCS/LCSD exhibited RPD data outside the QC control limits for Acetone. Both the LCS and LCSD were recovered within QC control limits, demonstrating that the laboratory performed the method within acceptable guidelines; therefore, corrective action is deemed unnecessary.

All other Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) for Method 8260B, however, an LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

Sample SYR MW-12A was selected to fulfill the laboratory batch quality control requirements for Method 410.4. Analysis of the laboratory generated MS/MSD for this sample exhibited recoveries of Chemical Oxygen Demand (COD) below the lower control limit. Because the

Job ID: 280-161382-1 (Continued)

Laboratory: Eurofins Denver (Continued)

corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for Nitrate Nitrite Method 353.2. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and MSD results were within established control limits.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

The analyses for E. Coli and Fecal Coliform were performed at Alexin Analytical Laboratories, Inc..
Alexin Analytical Laboratories, Inc.
13035 SW Pacific Hwy
Tigard, OR 97223
Telephone: 503-639-9311

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161382-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-161382-1

No Detections.

Client Sample ID: SYR SW-1 — Lab Sample ID: 280-161382-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	7000		500		ug/L	1		6010B	Total Recoverable
Iron	2100		30		ug/L	1		6010B	Total Recoverable
Magnesium	2700		200		ug/L	1		6010B	Total Recoverable
Manganese	34		3.0		ug/L	1		6010B	Total Recoverable
Potassium	590		500		ug/L	1		6010B	Total Recoverable
Silicon	9300		100		ug/L	1		6010B	Total Recoverable
Sodium	5200		1000		ug/L	1		6010B	Total Recoverable
Chloride	3.8		1.0		mg/L	1		300.0	Total/NA
Sulfate	4.7		1.0		mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.59		0.050		mg/L	1		353.2	Total/NA
Halogens, Total Organic	16		15		ug/L	1		9020B	Total/NA
pH adj. to 25 deg C	8.0	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	79		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	1.6		1.0		mg/L	1		9060	Total/NA
Total Anions	0.99				meq/L	1		SM 1030E	Total/NA
Total Cations	0.93				meq/L	1		SM 1030E	Total/NA
Percent Difference	-3.2				%	1		SM 1030E	Total/NA
Calcium	7.0				mg/L	1		SM 1030E	Total/NA
Magnesium	2.7				mg/L	1		SM 1030E	Total/NA
Potassium	0.59				mg/L	1		SM 1030E	Total/NA
Sodium	5.2				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	3.8				mg/L	1		SM 1030E	Total/NA
Sulfate	4.7				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	37				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	37				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.59				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-3.2				%	1		SM 1030E	Total/NA
Calculated TDS	44				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.4				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	61				mg/L	1		SM 1030E	Total/NA
Iron	2.1				mg/L	1		SM 1030E	Total/NA
Calcium	0.35				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.22				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.015				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.23				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.11				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.098				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.74				meq/L	1		SM 1030E (meq)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SYR SW-1 (Continued) — Lab Sample ID: 280-161382-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	0.74				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.042				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.11				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	37		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	37		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	36		3.0		mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	61		10		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	29		4.0		mg/L	1		SM 2540D	Total/NA
Field pH	6.43				SU	1		Field Sampling	Total/NA
Field Conductivity	87.9				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.70				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	15.66				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	172.3				millivolts	1		Field Sampling	Total/NA

Client Sample ID: SYR SW-2 — Lab Sample ID: 280-161382-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	7000		500		ug/L	1		6010B	Total Recoverable
Iron	2600		30		ug/L	1		6010B	Total Recoverable
Magnesium	2800		200		ug/L	1		6010B	Total Recoverable
Manganese	42		3.0		ug/L	1		6010B	Total Recoverable
Potassium	600		500		ug/L	1		6010B	Total Recoverable
Silicon	9800		100		ug/L	1		6010B	Total Recoverable
Sodium	5100		1000		ug/L	1		6010B	Total Recoverable
Chloride	3.8		1.0		mg/L	1		300.0	Total/NA
Sulfate	4.9		1.0		mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.61		0.050		mg/L	1		353.2	Total/NA
pH adj. to 25 deg C	7.7	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	81		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	1.6		1.0		mg/L	1		9060	Total/NA
Total Anions	0.93				meq/L	1		SM 1030E	Total/NA
Total Cations	0.96				meq/L	1		SM 1030E	Total/NA
Percent Difference	1.3				%	1		SM 1030E	Total/NA
Calcium	7.0				mg/L	1		SM 1030E	Total/NA
Magnesium	2.8				mg/L	1		SM 1030E	Total/NA
Potassium	0.60				mg/L	1		SM 1030E	Total/NA
Sodium	5.1				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	3.8				mg/L	1		SM 1030E	Total/NA
Sulfate	4.9				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	34				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	34				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.61				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	1.3				%	1		SM 1030E	Total/NA
Calculated TDS	43				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SYR SW-2 (Continued)

Lab Sample ID: 280-161382-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
TDS Ratio	1.4				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	58				mg/L	1		SM 1030E	Total/NA
Iron	2.6				mg/L	1		SM 1030E	Total/NA
Calcium	0.35				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.23				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.015				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.22				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.11				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.10				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.68				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	0.68				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.044				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.14				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	34		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	34		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	28		3.0		mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	58		10		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	30		4.0		mg/L	1		SM 2540D	Total/NA
Field pH	6.36				SU	1		Field Sampling	Total/NA
Field Conductivity	83.3				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	10.03				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	176.4				millivolts	1		Field Sampling	Total/NA

Client Sample ID: SYR MW-12A

Lab Sample ID: 280-161382-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	13000		500		ug/L	1		6010B	Total Recoverable
Iron	3400		30		ug/L	1		6010B	Total Recoverable
Magnesium	4400		200		ug/L	1		6010B	Total Recoverable
Manganese	52		3.0		ug/L	1		6010B	Total Recoverable
Potassium	850		500		ug/L	1		6010B	Total Recoverable
Silicon	12000		100		ug/L	1		6010B	Total Recoverable
Sodium	5700		1000		ug/L	1		6010B	Total Recoverable
Chloride	4.9		1.0		mg/L	1		300.0	Total/NA
Sulfate	12		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.054		0.050		mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	2.2		0.050		mg/L	1		353.2	Total/NA
Total Phosphorus	0.074		0.050		mg/L	1		365.1	Total/NA
pH adj. to 25 deg C	7.5	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	130		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	2.3		1.0		mg/L	1		9060	Total/NA
Total Anions	1.3				meq/L	1		SM 1030E	Total/NA
Total Cations	1.5				meq/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SYR MW-12A (Continued)

Lab Sample ID: 280-161382-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Percent Difference	6.6				%	1		SM 1030E	Total/NA
Calcium	13				mg/L	1		SM 1030E	Total/NA
Magnesium	4.4				mg/L	1		SM 1030E	Total/NA
Potassium	0.85				mg/L	1		SM 1030E	Total/NA
Sodium	5.7				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.054				mg/L	1		SM 1030E	Total/NA
Chloride	4.9				mg/L	1		SM 1030E	Total/NA
Sulfate	12				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	37				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	37				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	2.2				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	6.6				%	1		SM 1030E	Total/NA
Calculated TDS	57				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.7				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	95				mg/L	1		SM 1030E	Total/NA
Iron	3.4				mg/L	1		SM 1030E	Total/NA
Calcium	0.65				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.36				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.022				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.25				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.0039				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.14				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.25				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.74				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	0.74				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.16				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.18				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	37		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	37		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	51		3.0		mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	95		10		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	28		4.0		mg/L	1		SM 2540D	Total/NA
Field pH	6.75				SU	1		Field Sampling	Total/NA
Field Conductivity	133.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.7				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	7.54				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	156.3				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-161382-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-161382-1	TRIP BLANK	Water	04/21/22 07:00	04/22/22 11:00
280-161382-2	SYR SW-1	Water	04/21/22 10:30	04/22/22 11:00
280-161382-3	SYR SW-2	Water	04/21/22 08:35	04/22/22 11:00
280-161382-4	SYR MW-12A	Water	04/21/22 09:35	04/22/22 11:00

Method Summary

Client: Waste Management
Job ID: 280-161382-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET DEN
351.2	Nitrogen, Total Kjeldahl	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
365.1	Phosphorus, Ortho	EPA	EET DEN
365.1	Phosphorus, Total	EPA	EET DEN
410.4	COD	EPA	EET DEN
9020B	Organic Halides, Total (TOX)	SW846	EET DEN
9040B	pH	SW846	EET DEN
9050A	Specific Conductance	SW846	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM5210B	BOD, 5 Day	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
Subcontract	E-coli MPN (Alexin)	None	AAL
Subcontract	Fecal Coliform (Alexin)	None	AAL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
351.2	Nitrogen, Total Kjeldahl	EPA	EET DEN
365.1	Sample Digestion for Total Phosphorus	MCAWW	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

AAL = AAL, 13035 SW PACIFIC HWY., Tigard, OR 97223, TEL (503)639-9311
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161382-1

Client Sample ID: TRIP BLANK
Date Collected: 04/21/22 07:00
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 17:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 17:35	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 17:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 17:35	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 17:35	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 17:35	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 17:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 17:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 17:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 17:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 17:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/22 17:35	1
1,2-Dibromoethane	ND		1.0		ug/L			05/04/22 17:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 17:35	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 17:35	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 17:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 17:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 17:35	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 17:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 17:35	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 17:35	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 17:35	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 17:35	1
2-Hexanone	ND		5.0		ug/L			05/04/22 17:35	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 17:35	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 17:35	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 17:35	1
Acetone	ND	*1	10		ug/L			05/04/22 17:35	1
Benzene	ND		1.0		ug/L			05/04/22 17:35	1
Bromobenzene	ND		1.0		ug/L			05/04/22 17:35	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 17:35	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 17:35	1
Bromoform	ND		1.0		ug/L			05/04/22 17:35	1
Bromomethane	ND		2.0		ug/L			05/04/22 17:35	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 17:35	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 17:35	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 17:35	1
Chloroethane	ND		2.0		ug/L			05/04/22 17:35	1
Chloroform	ND		1.0		ug/L			05/04/22 17:35	1
Chloromethane	ND		2.0		ug/L			05/04/22 17:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 17:35	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 17:35	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 17:35	1
Dibromomethane	ND		1.0		ug/L			05/04/22 17:35	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 17:35	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 17:35	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 17:35	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 17:35	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 17:35	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-161382-1
Matrix: Water
Date Collected: 04/21/22 07:00
Date Received: 04/22/22 11:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/04/22 17:35	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 17:35	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 17:35	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 17:35	1
Styrene	ND		1.0		ug/L			05/04/22 17:35	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 17:35	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 17:35	1
Toluene	ND		1.0		ug/L			05/04/22 17:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 17:35	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 17:35	1
Trichloroethene	ND		1.0		ug/L			05/04/22 17:35	1
Trichlorofluoromethane	ND	*+	2.0		ug/L			05/04/22 17:35	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 17:35	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 17:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*10*	*T J*	*ug/L*		*1.25*	*N/A*		*05/04/22 17:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*		*05/04/22 17:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*05/04/22 17:35*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*05/04/22 17:35*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*05/04/22 17:35*	*1*

Client Sample ID: SYR SW-1

Lab Sample ID: 280-161382-2
Matrix: Water
Date Collected: 04/21/22 10:30
Date Received: 04/22/22 11:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 17:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 17:55	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 17:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 17:55	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 17:55	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 17:55	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 17:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 17:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 17:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 17:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 17:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/22 17:55	1
1,2-Dibromoethane	ND		1.0		ug/L			05/04/22 17:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 17:55	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 17:55	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 17:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 17:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 17:55	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 17:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 17:55	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161382-1

Client Sample ID: SYR SW-1
Date Collected: 04/21/22 10:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 17:55	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 17:55	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 17:55	1
2-Hexanone	ND		5.0		ug/L			05/04/22 17:55	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 17:55	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 17:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 17:55	1
Acetone	ND	*1	10		ug/L			05/04/22 17:55	1
Benzene	ND		1.0		ug/L			05/04/22 17:55	1
Bromobenzene	ND		1.0		ug/L			05/04/22 17:55	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 17:55	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 17:55	1
Bromoform	ND		1.0		ug/L			05/04/22 17:55	1
Bromomethane	ND		2.0		ug/L			05/04/22 17:55	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 17:55	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 17:55	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 17:55	1
Chloroethane	ND		2.0		ug/L			05/04/22 17:55	1
Chloroform	ND		1.0		ug/L			05/04/22 17:55	1
Chloromethane	ND		2.0		ug/L			05/04/22 17:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 17:55	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 17:55	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 17:55	1
Dibromomethane	ND		1.0		ug/L			05/04/22 17:55	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 17:55	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 17:55	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 17:55	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 17:55	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 17:55	1
Naphthalene	ND		1.0		ug/L			05/04/22 17:55	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 17:55	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 17:55	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 17:55	1
Styrene	ND		1.0		ug/L			05/04/22 17:55	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 17:55	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 17:55	1
Toluene	ND		1.0		ug/L			05/04/22 17:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 17:55	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 17:55	1
Trichloroethene	ND		1.0		ug/L			05/04/22 17:55	1
Trichlorofluoromethane	ND	*+	2.0		ug/L			05/04/22 17:55	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 17:55	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 17:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14*	*T J*	*ug/L*		*1.25*	*N/A*		*05/04/22 17:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*		*05/04/22 17:55*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*05/04/22 17:55*	*1*

Client Sample ID: SYR SW-1

Date Collected: 04/21/22 10:30
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*05/04/22 17:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*05/04/22 17:55*	*1*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	7000		500		ug/L		05/02/22 13:28	05/04/22 10:21	1
Iron	2100		30		ug/L		05/02/22 13:28	05/04/22 10:21	1
Magnesium	2700		200		ug/L		05/02/22 13:28	05/04/22 10:21	1
Manganese	34		3.0		ug/L		05/02/22 13:28	05/04/22 10:21	1
Potassium	590		500		ug/L		05/02/22 13:28	05/04/22 10:21	1
Silicon	9300		100		ug/L		05/02/22 13:28	05/04/22 10:21	1
Sodium	5200		1000		ug/L		05/02/22 13:28	05/04/22 10:21	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	0.99				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	0.93				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	-3.2				%			05/10/22 12:14	1
Calcium (SM 1030E)	7.0				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	2.7				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	0.59				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	5.2				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	3.8				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	4.7				mg/L			05/10/22 12:14	1
Carbonate Alkalinity (SM 1030E)	0.00				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	37				mg/L			05/10/22 12:14	1
Total Alkalinity (SM 1030E)	37				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	0.59				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	-3.2				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	44				mg/L			05/10/22 12:14	1
TDS Ratio (SM 1030E)	1.4				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	61				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	2.1				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	0.35				meq/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	0.22				meq/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	0.015				meq/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	0.23				meq/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	0.00				meq/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	0.11				meq/L			05/10/22 12:14	1
Sulfate (SM 1030E (meq))	0.098				meq/L			05/10/22 12:14	1
Carbonate Alkalinity (SM 1030E (meq))	0.00				meq/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E (meq))	0.74				meq/L			05/10/22 12:14	1
Total Alkalinity (SM 1030E (meq))	0.74				meq/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	0.042				meq/L			05/10/22 12:14	1
Iron (SM 1030E (meq))	0.11				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.8		1.0		mg/L			05/07/22 06:17	1

Client Sample ID: SYR SW-1
Lab Sample ID: 280-161382-2
Date Collected: 04/21/22 10:30
Matrix: Water
Date Received: 04/22/22 11:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	**4.7**		1.0		mg/L			05/07/22 06:17	1
Ammonia as N (EPA 350.1)	ND		0.050		mg/L			05/09/22 12:53	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		1.0		mg/L		04/28/22 16:09	05/02/22 17:19	1
Nitrate Nitrite as N (EPA 353.2)	**0.59**		0.050		mg/L			05/03/22 16:36	1
Orthophosphate (EPA 365.1)	ND	H	0.020		mg/L			05/06/22 11:57	1
Total Phosphorus (EPA 365.1)	ND		0.050		mg/L		05/09/22 13:50	05/10/22 14:46	1
Chemical Oxygen Demand (COD) (EPA 410.4)	ND		20		mg/L			05/10/22 11:26	1
Halogens, Total Organic (SW846 9020B)	**16**		15		ug/L			05/10/22 12:10	1
Total Organic Carbon - Average (SW846 9060)	**1.6**		1.0		mg/L			05/02/22 20:10	1
Total Alkalinity (SM 2320B)	**37**		10		mg/L			04/28/22 18:16	1
Bicarbonate Alkalinity (SM 2320B)	**37**		10		mg/L			04/28/22 18:16	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			04/28/22 18:16	1
Hardness, as CaCO3 (SM 2340C)	**36**		3.0		mg/L			04/29/22 15:10	1
Total Dissolved Solids (SM 2540C)	**61**		10		mg/L			04/28/22 11:41	1
Total Suspended Solids (SM 2540D)	**29**		4.0		mg/L			04/26/22 11:29	1
Biochemical Oxygen Demand (SM5210B)	ND		2.0		mg/L			04/22/22 13:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	**8.0**	**HF**	0.1		SU			05/06/22 21:10	1
Specific Conductance (SW846 9050A)	**79**		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.43**				SU			04/21/22 11:30	1
Field Conductivity	**87.9**				umhos/cm			04/21/22 11:30	1
Field Temperature	**9.70**				Degrees C			04/21/22 11:30	1
Field Dissolved Oxygen	**15.66**				mg/L			04/21/22 11:30	1
Field EH/ORP	**172.3**				millivolts			04/21/22 11:30	1

Client Sample ID: SYR SW-2
Lab Sample ID: 280-161382-3
Date Collected: 04/21/22 08:35
Matrix: Water
Date Received: 04/22/22 11:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 18:15	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 18:15	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 18:15	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 18:15	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 18:15	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 18:15	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 18:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 18:15	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 18:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 18:15	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 18:15	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161382-1

Client Sample ID: SYR SW-2
Date Collected: 04/21/22 08:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/22 18:15	1
1,2-Dibromoethane	ND		1.0		ug/L			05/04/22 18:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 18:15	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 18:15	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 18:15	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 18:15	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 18:15	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 18:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 18:15	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 18:15	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 18:15	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 18:15	1
2-Hexanone	ND		5.0		ug/L			05/04/22 18:15	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 18:15	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 18:15	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 18:15	1
Acetone	ND	*1	10		ug/L			05/04/22 18:15	1
Benzene	ND		1.0		ug/L			05/04/22 18:15	1
Bromobenzene	ND		1.0		ug/L			05/04/22 18:15	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 18:15	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 18:15	1
Bromoform	ND		1.0		ug/L			05/04/22 18:15	1
Bromomethane	ND		2.0		ug/L			05/04/22 18:15	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 18:15	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 18:15	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 18:15	1
Chloroethane	ND		2.0		ug/L			05/04/22 18:15	1
Chloroform	ND		1.0		ug/L			05/04/22 18:15	1
Chloromethane	ND		2.0		ug/L			05/04/22 18:15	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 18:15	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 18:15	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 18:15	1
Dibromomethane	ND		1.0		ug/L			05/04/22 18:15	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 18:15	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 18:15	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 18:15	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 18:15	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 18:15	1
Naphthalene	ND		1.0		ug/L			05/04/22 18:15	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 18:15	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 18:15	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 18:15	1
Styrene	ND		1.0		ug/L			05/04/22 18:15	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 18:15	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 18:15	1
Toluene	ND		1.0		ug/L			05/04/22 18:15	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 18:15	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 18:15	1
Trichloroethene	ND		1.0		ug/L			05/04/22 18:15	1

Client Sample ID: SYR SW-2

Date Collected: 04/21/22 08:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*+	2.0		ug/L			05/04/22 18:15	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 18:15	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 18:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14*	*T J*	*ug/L*		*1.25*	*N/A*		*05/04/22 18:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*05/04/22 18:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*05/04/22 18:15*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*05/04/22 18:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*05/04/22 18:15*	*1*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**7000**		500		ug/L		05/02/22 13:28	05/04/22 10:25	1
Iron	**2600**		30		ug/L		05/02/22 13:28	05/04/22 10:25	1
Magnesium	**2800**		200		ug/L		05/02/22 13:28	05/04/22 10:25	1
Manganese	**42**		3.0		ug/L		05/02/22 13:28	05/04/22 10:25	1
Potassium	**600**		500		ug/L		05/02/22 13:28	05/04/22 10:25	1
Silicon	**9800**		100		ug/L		05/02/22 13:28	05/04/22 10:25	1
Sodium	**5100**		1000		ug/L		05/02/22 13:28	05/04/22 10:25	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**0.93**				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	**0.96**				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	**1.3**				%			05/10/22 12:14	1
Calcium (SM 1030E)	**7.0**				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	**2.8**				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	**0.60**				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	**5.1**				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	**3.8**				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	**4.9**				mg/L			05/10/22 12:14	1
Carbonate Alkalinity (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	**34**				mg/L			05/10/22 12:14	1
Total Alkalinity (SM 1030E)	**34**				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	**0.61**				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	**1.3**				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	**43**				mg/L			05/10/22 12:14	1
TDS Ratio (SM 1030E)	**1.4**				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	**58**				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	**2.6**				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	**0.35**				meq/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	**0.23**				meq/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	**0.015**				meq/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	**0.22**				meq/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	**0.11**				meq/L			05/10/22 12:14	1

Client Sample ID: SYR SW-2

Date Collected: 04/21/22 08:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-3

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SM 1030E (meq))	0.10				meq/L			05/10/22 12:14	1
Carbonate Alkalinity (SM 1030E (meq))	0.00				meq/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E (meq))	0.68				meq/L			05/10/22 12:14	1
Total Alkalinity (SM 1030E (meq))	0.68				meq/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	0.044				meq/L			05/10/22 12:14	1
Iron (SM 1030E (meq))	0.14				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.8		1.0		mg/L			05/07/22 06:36	1
Sulfate (EPA 300.0)	4.9		1.0		mg/L			05/07/22 06:36	1
Ammonia as N (EPA 350.1)	ND		0.050		mg/L			05/09/22 13:01	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		1.0		mg/L		04/28/22 16:09	05/02/22 17:20	1
Nitrate Nitrite as N (EPA 353.2)	0.61		0.050		mg/L			05/03/22 16:42	1
Orthophosphate (EPA 365.1)	ND		0.020		mg/L			04/22/22 15:03	1
Total Phosphorus (EPA 365.1)	ND		0.050		mg/L		05/09/22 13:50	05/10/22 14:47	1
Chemical Oxygen Demand (COD) (EPA 410.4)	ND		20		mg/L			05/10/22 11:26	1
Halogens, Total Organic (SW846 9020B)	ND		15		ug/L			05/10/22 12:10	1
Total Organic Carbon - Average (SW846 9060)	1.6		1.0		mg/L			05/02/22 20:24	1
Total Alkalinity (SM 2320B)	34		10		mg/L			04/28/22 18:21	1
Bicarbonate Alkalinity (SM 2320B)	34		10		mg/L			04/28/22 18:21	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			04/28/22 18:21	1
Hardness, as CaCO3 (SM 2340C)	28		3.0		mg/L			04/29/22 15:13	1
Total Dissolved Solids (SM 2540C)	58		10		mg/L			04/28/22 11:41	1
Total Suspended Solids (SM 2540D)	30		4.0		mg/L			04/26/22 11:29	1
Biochemical Oxygen Demand (SM5210B)	ND		2.0		mg/L			04/22/22 13:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	7.7	HF	0.1		SU			05/06/22 21:14	1
Specific Conductance (SW846 9050A)	81		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.36				SU			04/21/22 09:35	1
Field Conductivity	83.3				umhos/cm			04/21/22 09:35	1
Field Temperature	9.9				Degrees C			04/21/22 09:35	1
Field Dissolved Oxygen	10.03				mg/L			04/21/22 09:35	1
Field EH/ORP	176.4				millivolts			04/21/22 09:35	1

Client Sample ID: SYR MW-12A

Date Collected: 04/21/22 09:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 18:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 18:36	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161382-1

Client Sample ID: SYR MW-12A
Date Collected: 04/21/22 09:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 18:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 18:36	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 18:36	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 18:36	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 18:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 18:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 18:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 18:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 18:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/22 18:36	1
1,2-Dibromoethane	ND		1.0		ug/L			05/04/22 18:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 18:36	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 18:36	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 18:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 18:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 18:36	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 18:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 18:36	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 18:36	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 18:36	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 18:36	1
2-Hexanone	ND		5.0		ug/L			05/04/22 18:36	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 18:36	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 18:36	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 18:36	1
Acetone	ND	*1	10		ug/L			05/04/22 18:36	1
Benzene	ND		1.0		ug/L			05/04/22 18:36	1
Bromobenzene	ND		1.0		ug/L			05/04/22 18:36	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 18:36	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 18:36	1
Bromoform	ND		1.0		ug/L			05/04/22 18:36	1
Bromomethane	ND		2.0		ug/L			05/04/22 18:36	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 18:36	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 18:36	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 18:36	1
Chloroethane	ND		2.0		ug/L			05/04/22 18:36	1
Chloroform	ND		1.0		ug/L			05/04/22 18:36	1
Chloromethane	ND		2.0		ug/L			05/04/22 18:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 18:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 18:36	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 18:36	1
Dibromomethane	ND		1.0		ug/L			05/04/22 18:36	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 18:36	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 18:36	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 18:36	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 18:36	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 18:36	1
Naphthalene	ND		1.0		ug/L			05/04/22 18:36	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 18:36	1

Client Sample ID: SYR MW-12A

Date Collected: 04/21/22 09:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			05/04/22 18:36	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 18:36	1
Styrene	ND		1.0		ug/L			05/04/22 18:36	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 18:36	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 18:36	1
Toluene	ND		1.0		ug/L			05/04/22 18:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 18:36	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 18:36	1
Trichloroethene	ND		1.0		ug/L			05/04/22 18:36	1
Trichlorofluoromethane	ND	*+	2.0		ug/L			05/04/22 18:36	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 18:36	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 18:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*16*	*T J*	*ug/L*		*1.25*	*N/A*		*05/04/22 18:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*05/04/22 18:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*05/04/22 18:36*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*05/04/22 18:36*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*05/04/22 18:36*	*1*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**13000**		500		ug/L		05/02/22 13:28	05/04/22 10:29	1
Iron	**3400**		30		ug/L		05/02/22 13:28	05/04/22 10:29	1
Magnesium	**4400**		200		ug/L		05/02/22 13:28	05/04/22 10:29	1
Manganese	**52**		3.0		ug/L		05/02/22 13:28	05/04/22 10:29	1
Potassium	**850**		500		ug/L		05/02/22 13:28	05/04/22 10:29	1
Silicon	**12000**		100		ug/L		05/02/22 13:28	05/04/22 10:29	1
Sodium	**5700**		1000		ug/L		05/02/22 13:28	05/04/22 10:29	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**1.3**				meq/L			05/10/22 12:14	1
Total Cations (SM 1030E)	**1.5**				meq/L			05/10/22 12:14	1
Percent Difference (SM 1030E)	**6.6**				%			05/10/22 12:14	1
Calcium (SM 1030E)	**13**				mg/L			05/10/22 12:14	1
Magnesium (SM 1030E)	**4.4**				mg/L			05/10/22 12:14	1
Potassium (SM 1030E)	**0.85**				mg/L			05/10/22 12:14	1
Sodium (SM 1030E)	**5.7**				mg/L			05/10/22 12:14	1
Ammonia as N (SM 1030E)	**0.054**				mg/L			05/10/22 12:14	1
Chloride (SM 1030E)	**4.9**				mg/L			05/10/22 12:14	1
Sulfate (SM 1030E)	**12**				mg/L			05/10/22 12:14	1
Carbonate Alkalinity (SM 1030E)	**0.00**				mg/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E)	**37**				mg/L			05/10/22 12:14	1
Total Alkalinity (SM 1030E)	**37**				mg/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E)	**2.2**				mg/L			05/10/22 12:14	1
Anion/Cation Balance (SM 1030E)	**6.6**				%			05/10/22 12:14	1
Calculated TDS (SM 1030E)	**57**				mg/L			05/10/22 12:14	1

Client Sample ID: SYR MW-12A

Date Collected: 04/21/22 09:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-4

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
TDS Ratio (SM 1030E)	**1.7**				NONE			05/10/22 12:14	1
Total Dissolved Solids (SM 1030E)	**95**				mg/L			05/10/22 12:14	1
Iron (SM 1030E)	**3.4**				mg/L			05/10/22 12:14	1
Calcium (SM 1030E (meq))	**0.65**				meq/L			05/10/22 12:14	1
Magnesium (SM 1030E (meq))	**0.36**				meq/L			05/10/22 12:14	1
Potassium (SM 1030E (meq))	**0.022**				meq/L			05/10/22 12:14	1
Sodium (SM 1030E (meq))	**0.25**				meq/L			05/10/22 12:14	1
Ammonia as N (SM 1030E (meq))	**0.0039**				meq/L			05/10/22 12:14	1
Chloride (SM 1030E (meq))	**0.14**				meq/L			05/10/22 12:14	1
Sulfate (SM 1030E (meq))	**0.25**				meq/L			05/10/22 12:14	1
Carbonate Alkalinity (SM 1030E (meq))	**0.00**				meq/L			05/10/22 12:14	1
Bicarbonate Alkalinity (SM 1030E (meq))	**0.74**				meq/L			05/10/22 12:14	1
Total Alkalinity (SM 1030E (meq))	**0.74**				meq/L			05/10/22 12:14	1
Nitrate/Nitrite (SM 1030E (meq))	**0.16**				meq/L			05/10/22 12:14	1
Iron (SM 1030E (meq))	**0.18**				meq/L			05/10/22 12:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**4.9**		1.0		mg/L			05/07/22 06:54	1
Sulfate (EPA 300.0)	**12**		1.0		mg/L			05/09/22 14:20	1
Ammonia as N (EPA 350.1)	**0.054**		0.050		mg/L			05/09/22 13:03	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		1.0		mg/L		04/28/22 16:09	05/02/22 17:20	1
Nitrate Nitrite as N (EPA 353.2)	**2.2**		0.050		mg/L			05/04/22 17:28	1
Orthophosphate (EPA 365.1)	ND		0.020		mg/L			04/22/22 15:03	1
Total Phosphorus (EPA 365.1)	**0.074**		0.050		mg/L		05/09/22 13:50	05/10/22 14:47	1
Chemical Oxygen Demand (COD) (EPA 410.4)	ND	F1	20		mg/L			05/10/22 11:26	1
Halogens, Total Organic (SW846 9020B)	ND		15		ug/L			05/10/22 12:10	1
Total Organic Carbon - Average (SW846 9060)	**2.3**		1.0		mg/L			04/28/22 16:56	1
Total Alkalinity (SM 2320B)	**37**		10		mg/L			04/28/22 18:26	1
Bicarbonate Alkalinity (SM 2320B)	**37**		10		mg/L			04/28/22 18:26	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			04/28/22 18:26	1
Hardness, as CaCO3 (SM 2340C)	**51**		3.0		mg/L			04/29/22 15:13	1
Total Dissolved Solids (SM 2540C)	**95**		10		mg/L			04/28/22 11:41	1
Total Suspended Solids (SM 2540D)	**28**		4.0		mg/L			04/26/22 11:29	1
Biochemical Oxygen Demand (SM5210B)	ND		2.0		mg/L			04/22/22 13:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	**7.5**	**HF**	0.1		SU			05/06/22 21:18	1
Specific Conductance (SW846 9050A)	**130**		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.75**				SU			04/21/22 10:35	1
Field Conductivity	**133.0**				umhos/cm			04/21/22 10:35	1
Field Temperature	**10.7**				Degrees C			04/21/22 10:35	1
Field Dissolved Oxygen	**7.54**				mg/L			04/21/22 10:35	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161382-1

Client Sample ID: SYR MW-12A
Date Collected: 04/21/22 09:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-4
Matrix: Water

Method: EPA Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	156.3				millivolts			04/21/22 10:35	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161382-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-161382-1	TRIP BLANK	97	100	99	102
280-161382-2	SYR SW-1	97	98	99	99
280-161382-3	SYR SW-2	98	100	100	100
280-161382-4	SYR MW-12A	99	102	99	99
LCS 280-573793/4	Lab Control Sample	103	97	100	100
LCSD 280-573793/5	Lab Control Sample Dup	101	98	99	98
MB 280-573793/8	Method Blank	97	102	100	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-573793/8
Matrix: Water
Analysis Batch: 573793

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 11:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 11:43	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 11:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 11:43	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 11:43	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 11:43	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 11:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 11:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 11:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 11:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 11:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/22 11:43	1
1,2-Dibromoethane	ND		1.0		ug/L			05/04/22 11:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 11:43	1
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 11:43	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 11:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 11:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 11:43	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 11:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 11:43	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 11:43	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 11:43	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 11:43	1
2-Hexanone	ND		5.0		ug/L			05/04/22 11:43	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 11:43	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 11:43	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 11:43	1
Acetone	ND		10		ug/L			05/04/22 11:43	1
Benzene	ND		1.0		ug/L			05/04/22 11:43	1
Bromobenzene	ND		1.0		ug/L			05/04/22 11:43	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 11:43	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 11:43	1
Bromoform	ND		1.0		ug/L			05/04/22 11:43	1
Bromomethane	ND		2.0		ug/L			05/04/22 11:43	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 11:43	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 11:43	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 11:43	1
Chloroethane	ND		2.0		ug/L			05/04/22 11:43	1
Chloroform	ND		1.0		ug/L			05/04/22 11:43	1
Chloromethane	ND		2.0		ug/L			05/04/22 11:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 11:43	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 11:43	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 11:43	1
Dibromomethane	ND		1.0		ug/L			05/04/22 11:43	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 11:43	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 11:43	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 11:43	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 11:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573793/8
Matrix: Water
Analysis Batch: 573793

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/04/22 11:43	1
Naphthalene	ND		1.0		ug/L			05/04/22 11:43	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 11:43	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 11:43	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 11:43	1
Styrene	ND		1.0		ug/L			05/04/22 11:43	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 11:43	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 11:43	1
Toluene	ND		1.0		ug/L			05/04/22 11:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 11:43	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 11:43	1
Trichloroethene	ND		1.0		ug/L			05/04/22 11:43	1
Trichlorofluoromethane	ND		2.0		ug/L			05/04/22 11:43	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 11:43	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 11:43	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/04/22 11:43*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*		*05/04/22 11:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*05/04/22 11:43*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*05/04/22 11:43*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*05/04/22 11:43*	*1*

Lab Sample ID: LCS 280-573793/4
Matrix: Water
Analysis Batch: 573793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	54.8		ug/L		110	74 - 121
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	62 - 132
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/L		100	72 - 122
1,1,2-Trichloroethane	50.0	53.3		ug/L		107	72 - 128
1,1-Dichloroethane	50.0	53.9		ug/L		108	66 - 130
1,1-Dichloroethene	50.0	54.2		ug/L		108	62 - 130
1,1-Dichloropropene	50.0	55.3		ug/L		111	64 - 133
1,2,3-Trichlorobenzene	50.0	57.5		ug/L		115	70 - 127
1,2,3-Trichloropropane	50.0	52.3		ug/L		105	74 - 123
1,2,4-Trichlorobenzene	50.0	56.3		ug/L		113	73 - 124
1,2,4-Trimethylbenzene	50.0	55.6		ug/L		111	74 - 124
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/L		98	58 - 122
1,2-Dibromoethane	50.0	55.7		ug/L		111	81 - 118
1,2-Dichlorobenzene	50.0	54.2		ug/L		108	77 - 121
1,2-Dichloroethane	50.0	48.1		ug/L		96	61 - 130
1,2-Dichloropropane	50.0	51.4		ug/L		103	68 - 127
1,3,5-Trimethylbenzene	50.0	54.9		ug/L		110	73 - 127
1,3-Dichlorobenzene	50.0	54.7		ug/L		109	76 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573793/4
Matrix: Water
Analysis Batch: 573793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichloropropane	50.0	55.3		ug/L		111	80 - 118
1,4-Dichlorobenzene	50.0	53.2		ug/L		106	76 - 119
2,2-Dichloropropane	50.0	52.0		ug/L		104	57 - 140
2-Butanone (MEK)	200	180		ug/L		90	53 - 135
2-Chlorotoluene	50.0	56.5		ug/L		113	75 - 123
2-Hexanone	200	195		ug/L		98	58 - 134
4-Chlorotoluene	50.0	52.9		ug/L		106	74 - 124
4-Isopropyltoluene	50.0	56.3		ug/L		113	74 - 127
4-Methyl-2-pentanone	200	215		ug/L		107	56 - 135
Acetone	200	173		ug/L		87	50 - 137
Benzene	50.0	52.7		ug/L		105	69 - 126
Bromobenzene	50.0	51.6		ug/L		103	75 - 122
Bromochloromethane	50.0	55.6		ug/L		111	71 - 130
Bromodichloromethane	50.0	53.6		ug/L		107	67 - 126
Bromoform	50.0	51.4		ug/L		103	57 - 125
Bromomethane	50.0	56.3		ug/L		113	25 - 163
Carbon disulfide	50.0	55.2		ug/L		110	56 - 128
Carbon tetrachloride	50.0	56.9		ug/L		114	60 - 133
Chlorobenzene	50.0	52.7		ug/L		105	78 - 118
Chloroethane	50.0	51.1		ug/L		102	52 - 144
Chloroform	50.0	51.7		ug/L		103	68 - 128
Chloromethane	50.0	40.1		ug/L		80	43 - 142
cis-1,2-Dichloroethene	50.0	56.5		ug/L		113	69 - 126
cis-1,3-Dichloropropene	50.0	57.9		ug/L		116	75 - 120
Dibromochloromethane	50.0	58.1		ug/L		116	71 - 122
Dibromomethane	50.0	52.9		ug/L		106	68 - 129
Dichlorodifluoromethane	50.0	27.6		ug/L		55	26 - 152
Ethylbenzene	50.0	54.4		ug/L		109	76 - 121
Hexachlorobutadiene	50.0	53.3		ug/L		107	69 - 133
Isopropylbenzene	50.0	55.0		ug/L		110	70 - 127
Methylene Chloride	50.0	47.7		ug/L		95	64 - 128
Naphthalene	50.0	56.8		ug/L		114	63 - 129
n-Butylbenzene	50.0	57.6		ug/L		115	69 - 130
N-Propylbenzene	50.0	53.4		ug/L		107	73 - 127
sec-Butylbenzene	50.0	56.8		ug/L		114	72 - 127
Styrene	50.0	53.5		ug/L		107	79 - 120
tert-Butylbenzene	50.0	54.4		ug/L		109	72 - 126
Tetrachloroethene	50.0	53.9		ug/L		108	72 - 127
Toluene	50.0	52.3		ug/L		105	68 - 127
trans-1,2-Dichloroethene	50.0	54.9		ug/L		110	66 - 129
trans-1,3-Dichloropropene	50.0	53.2		ug/L		106	66 - 127
Trichloroethene	50.0	51.6		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	83.5	*+	ug/L		167	57 - 144
Vinyl chloride	50.0	50.6		ug/L		101	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573793/4
Matrix: Water
Analysis Batch: 573793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	100		77 - 120
Toluene-d8 (Surr)	100		80 - 125

Lab Sample ID: LCSD 280-573793/5
Matrix: Water
Analysis Batch: 573793

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	50.8		ug/L		102	74 - 121	8	20
1,1,1-Trichloroethane			50.0	48.1		ug/L		96	62 - 132	7	20
1,1,2,2-Tetrachloroethane			50.0	49.0		ug/L		98	72 - 122	2	20
1,1,2-Trichloroethane			50.0	49.8		ug/L		100	72 - 128	7	20
1,1-Dichloroethane			50.0	49.9		ug/L		100	66 - 130	8	20
1,1-Dichloroethene			50.0	50.6		ug/L		101	62 - 130	7	21
1,1-Dichloropropene			50.0	51.1		ug/L		102	64 - 133	8	20
1,2,3-Trichlorobenzene			50.0	54.5		ug/L		109	70 - 127	5	20
1,2,3-Trichloropropane			50.0	51.7		ug/L		103	74 - 123	1	20
1,2,4-Trichlorobenzene			50.0	53.3		ug/L		107	73 - 124	5	20
1,2,4-Trimethylbenzene			50.0	52.7		ug/L		105	74 - 124	5	20
1,2-Dibromo-3-Chloropropane			50.0	48.0		ug/L		96	58 - 122	2	21
1,2-Dibromoethane			50.0	52.8		ug/L		106	81 - 118	5	20
1,2-Dichlorobenzene			50.0	51.6		ug/L		103	77 - 121	5	20
1,2-Dichloroethane			50.0	45.3		ug/L		91	61 - 130	6	20
1,2-Dichloropropane			50.0	48.1		ug/L		96	68 - 127	7	20
1,3,5-Trimethylbenzene			50.0	51.8		ug/L		104	73 - 127	6	20
1,3-Dichlorobenzene			50.0	51.9		ug/L		104	76 - 121	5	20
1,3-Dichloropropane			50.0	51.0		ug/L		102	80 - 118	8	20
1,4-Dichlorobenzene			50.0	50.1		ug/L		100	76 - 119	6	20
2,2-Dichloropropane			50.0	48.6		ug/L		97	57 - 140	7	22
2-Butanone (MEK)			200	181		ug/L		90	53 - 135	0	20
2-Chlorotoluene			50.0	53.8		ug/L		108	75 - 123	5	20
2-Hexanone			200	196		ug/L		98	58 - 134	0	21
4-Chlorotoluene			50.0	48.8		ug/L		98	74 - 124	8	20
4-Isopropyltoluene			50.0	53.4		ug/L		107	74 - 127	5	20
4-Methyl-2-pentanone			200	213		ug/L		107	56 - 135	1	20
Acetone			200	216	*1	ug/L		108	50 - 137	22	21
Benzene			50.0	49.9		ug/L		100	69 - 126	5	20
Bromobenzene			50.0	49.3		ug/L		99	75 - 122	4	20
Bromochloromethane			50.0	51.5		ug/L		103	71 - 130	8	20
Bromodichloromethane			50.0	49.9		ug/L		100	67 - 126	7	20
Bromoform			50.0	49.3		ug/L		99	57 - 125	4	20
Bromomethane			50.0	56.5		ug/L		113	25 - 163	0	40
Carbon disulfide			50.0	48.0		ug/L		96	56 - 128	14	20
Carbon tetrachloride			50.0	53.2		ug/L		106	60 - 133	7	20
Chlorobenzene			50.0	49.7		ug/L		99	78 - 118	6	20
Chloroethane			50.0	49.0		ug/L		98	52 - 144	4	30
Chloroform			50.0	48.6		ug/L		97	68 - 128	6	20
Chloromethane			50.0	37.7		ug/L		75	43 - 142	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573793/5
Matrix: Water
Analysis Batch: 573793

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	50.0	52.3		ug/L		105	69 - 126	8	20
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	75 - 120	9	20
Dibromochloromethane	50.0	53.3		ug/L		107	71 - 122	9	20
Dibromomethane	50.0	50.1		ug/L		100	68 - 129	5	20
Dichlorodifluoromethane	50.0	28.2		ug/L		56	26 - 152	2	21
Ethylbenzene	50.0	51.3		ug/L		103	76 - 121	6	20
Hexachlorobutadiene	50.0	52.2		ug/L		104	69 - 133	2	20
Isopropylbenzene	50.0	52.2		ug/L		104	70 - 127	5	20
Methylene Chloride	50.0	45.1		ug/L		90	64 - 128	6	20
Naphthalene	50.0	55.0		ug/L		110	63 - 129	3	21
n-Butylbenzene	50.0	55.2		ug/L		110	69 - 130	4	20
N-Propylbenzene	50.0	50.7		ug/L		101	73 - 127	5	20
sec-Butylbenzene	50.0	53.9		ug/L		108	72 - 127	5	20
Styrene	50.0	49.8		ug/L		100	79 - 120	7	20
tert-Butylbenzene	50.0	51.9		ug/L		104	72 - 126	5	20
Tetrachloroethene	50.0	51.2		ug/L		102	72 - 127	5	20
Toluene	50.0	49.6		ug/L		99	68 - 127	5	20
trans-1,2-Dichloroethene	50.0	51.8		ug/L		104	66 - 129	6	20
trans-1,3-Dichloropropene	50.0	48.7		ug/L		97	66 - 127	9	20
Trichloroethene	50.0	47.7		ug/L		95	70 - 125	8	20
Trichlorofluoromethane	50.0	73.4	*+	ug/L		147	57 - 144	13	28
Vinyl chloride	50.0	44.5		ug/L		89	53 - 141	13	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-573588/1-A
Matrix: Water
Analysis Batch: 573869

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573588

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/02/22 13:28	05/04/22 08:59	1
Iron	ND		30		ug/L		05/02/22 13:28	05/04/22 08:59	1
Magnesium	ND		200		ug/L		05/02/22 13:28	05/04/22 08:59	1
Manganese	ND		3.0		ug/L		05/02/22 13:28	05/04/22 08:59	1
Potassium	ND		500		ug/L		05/02/22 13:28	05/04/22 08:59	1
Silicon	ND		100		ug/L		05/02/22 13:28	05/04/22 08:59	1
Sodium	ND		1000		ug/L		05/02/22 13:28	05/04/22 08:59	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-573588/2-A
Matrix: Water
Analysis Batch: 573869

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	50400		ug/L		101	90 - 111
Iron	10000	10100		ug/L		101	89 - 115
Magnesium	50000	49600		ug/L		99	90 - 113
Manganese	1000	1010		ug/L		101	90 - 110
Potassium	50000	51200		ug/L		102	89 - 114
Silicon	2000	1980		ug/L		99	90 - 110
Sodium	50000	50900		ug/L		102	90 - 115

Lab Sample ID: 280-161333-B-11-D MS
Matrix: Water
Analysis Batch: 573869

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 573588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	120000		50000	167000		ug/L		95	48 - 153
Iron	ND		10000	10100		ug/L		101	52 - 155
Magnesium	47000		50000	95900		ug/L		99	62 - 146
Manganese	3.7		1000	1010		ug/L		100	79 - 121
Potassium	1200		50000	53100		ug/L		104	76 - 132
Silicon	7200		2000	9140		ug/L		96	79 - 140
Sodium	160000		50000	213000		ug/L		103	70 - 203

Lab Sample ID: 280-161333-B-11-E MSD
Matrix: Water
Analysis Batch: 573869

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 573588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	120000		50000	169000		ug/L		99	48 - 153	1	20
Iron	ND		10000	10200		ug/L		101	52 - 155	0	20
Magnesium	47000		50000	96800		ug/L		100	62 - 146	1	20
Manganese	3.7		1000	1020		ug/L		101	79 - 121	1	20
Potassium	1200		50000	53500		ug/L		104	76 - 132	1	20
Silicon	7200		2000	9200		ug/L		99	79 - 140	1	20
Sodium	160000		50000	216000		ug/L		108	70 - 203	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-624944/28
Matrix: Water
Analysis Batch: 624944

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			05/07/22 01:57	1
Sulfate	ND		1.0		mg/L			05/07/22 01:57	1

Lab Sample ID: LCS 480-624944/29
Matrix: Water
Analysis Batch: 624944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.6		mg/L		99	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-624944/29
Matrix: Water
Analysis Batch: 624944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			50.0	49.9		mg/L		100	90 - 110		

Lab Sample ID: 280-161414-E-5 MS
Matrix: Water
Analysis Batch: 624944

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	23		50.1	69.9		mg/L		93	81 - 120		
Sulfate	2.4		50.0	50.9		mg/L		97	80 - 120		

Lab Sample ID: 480-197460-G-1 MS
Matrix: Water
Analysis Batch: 624944

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	170		251	402		mg/L		93	81 - 120		
Sulfate	54		250	295		mg/L		96	80 - 120		

Lab Sample ID: 480-197460-G-1 MSD
Matrix: Water
Analysis Batch: 624944

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	170		251	402		mg/L		93	81 - 120	0	15
Sulfate	54		250	295		mg/L		97	80 - 120	0	15

Lab Sample ID: MB 480-625171/4
Matrix: Water
Analysis Batch: 625171

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			05/09/22 12:41	1
Sulfate	ND		1.0		mg/L			05/09/22 12:41	1

Lab Sample ID: LCS 480-625171/5
Matrix: Water
Analysis Batch: 625171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.1	49.4		mg/L		99	90 - 110		
Sulfate			50.0	50.2		mg/L		100	90 - 110		

Lab Sample ID: 280-161382-4 MS
Matrix: Water
Analysis Batch: 625171

Client Sample ID: SYR MW-12A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	5.2		50.1	54.4		mg/L		98	81 - 120		
Sulfate	12		50.0	61.2		mg/L		98	80 - 120		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-161382-4 MSD
Matrix: Water
Analysis Batch: 625171

Client Sample ID: SYR MW-12A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.2		50.1	56.2		mg/L		102	81 - 120	3	15
Sulfate	12		50.0	61.8		mg/L		99	80 - 120	1	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-574325/18
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.050		mg/L			05/09/22 12:50	1

Lab Sample ID: LCS 280-574325/17
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N			5.00	4.85		mg/L		97	90 - 110		

Lab Sample ID: 280-161382-2 MS
Matrix: Water
Analysis Batch: 574325

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	ND		1.00	1.05		mg/L		105	90 - 110		

Lab Sample ID: 280-161382-2 MSD
Matrix: Water
Analysis Batch: 574325

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.06		mg/L		106	90 - 110	1	10

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 280-573320/12-A
Matrix: Water
Analysis Batch: 573619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0		mg/L		04/28/22 16:09	05/02/22 17:15	1

Lab Sample ID: LCS 280-573320/11-A
Matrix: Water
Analysis Batch: 573619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573320

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Kjeldahl Nitrogen			6.00	6.11		mg/L		102	90 - 110		

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 280-161384-B-2-B MS
Matrix: Water
Analysis Batch: 573619

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 573320

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	ND		3.00	2.75		mg/L		92	90 - 110

Lab Sample ID: 280-161384-B-2-C MSD
Matrix: Water
Analysis Batch: 573619

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 573320

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	ND		3.00	2.77		mg/L		92	90 - 110	1	25

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-573773/22
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			05/03/22 16:34	1

Lab Sample ID: LCS 280-573773/21
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.00	5.09		mg/L		102	90 - 110

Lab Sample ID: 280-161382-2 MS
Matrix: Water
Analysis Batch: 573773

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.59		4.00	4.62		mg/L		101	90 - 110

Lab Sample ID: 280-161382-2 MSD
Matrix: Water
Analysis Batch: 573773

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.59		4.00	4.67		mg/L		102	90 - 110	1	10

Lab Sample ID: MB 280-573912/23
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			05/04/22 17:18	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 280-573912/21
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N			5.00	5.06		mg/L		101	90 - 110		

Lab Sample ID: LCSD 280-573912/22
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N			5.00	5.02		mg/L		100	90 - 110	1	10

Lab Sample ID: 280-161408-A-13 MS
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	5.0	F1	4.00	8.53	F1	mg/L		89	90 - 110		

Lab Sample ID: 280-161408-A-13 MSD
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	5.0	F1	4.00	8.64		mg/L		92	90 - 110	1	10

Method: 365.1 - Phosphorus, Ortho

Lab Sample ID: MB 280-572775/11
Matrix: Water
Analysis Batch: 572775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	ND		0.020		mg/L			04/22/22 15:03	1

Lab Sample ID: LCS 280-572775/9
Matrix: Water
Analysis Batch: 572775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Orthophosphate			0.500	0.497		mg/L		99	90 - 110		

Lab Sample ID: LCSD 280-572775/10
Matrix: Water
Analysis Batch: 572775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Orthophosphate			0.500	0.482		mg/L		96	90 - 110	3	10

Method: 365.1 - Phosphorus, Ortho (Continued)

Lab Sample ID: 280-161382-2 MS
Matrix: Water
Analysis Batch: 572775

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Orthophosphate	0.040		0.500	0.532		mg/L		98	90 - 110

Lab Sample ID: 280-161382-2 MSD
Matrix: Water
Analysis Batch: 572775

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Orthophosphate	0.040		0.500	0.539		mg/L		100	90 - 110	1	10

Lab Sample ID: MB 280-574134/10
Matrix: Water
Analysis Batch: 574134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	ND		0.020		mg/L			05/06/22 11:57	1

Lab Sample ID: LCS 280-574134/9
Matrix: Water
Analysis Batch: 574134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Orthophosphate	0.500	0.484		mg/L		97	90 - 110

Lab Sample ID: 280-161382-2 MS
Matrix: Water
Analysis Batch: 574134

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Orthophosphate	ND	H	0.500	0.532		mg/L		106	90 - 110

Lab Sample ID: 280-161382-2 MSD
Matrix: Water
Analysis Batch: 574134

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Orthophosphate	ND	H	0.500	0.533		mg/L		107	90 - 110	0	10

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 280-574301/5-A
Matrix: Water
Analysis Batch: 574473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus	ND		0.050		mg/L		05/09/22 13:50	05/10/22 14:46	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 280-574301/3-A
Matrix: Water
Analysis Batch: 574473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574301

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Phosphorus			0.500	0.522		mg/L		104	90 - 110		

Lab Sample ID: LCSD 280-574301/4-A
Matrix: Water
Analysis Batch: 574473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574301

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus			0.500	0.522		mg/L		104	90 - 110	0	10

Lab Sample ID: 280-161382-2 MS
Matrix: Water
Analysis Batch: 574473

Client Sample ID: SYR SW-1
Prep Type: Total/NA
Prep Batch: 574301

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Phosphorus	ND		0.500	0.598		mg/L		110	90 - 110		

Lab Sample ID: 280-161382-2 MSD
Matrix: Water
Analysis Batch: 574473

Client Sample ID: SYR SW-1
Prep Type: Total/NA
Prep Batch: 574301

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus	ND		0.500	0.578		mg/L		106	90 - 110	3	10

Method: 410.4 - COD

Lab Sample ID: MB 280-574418/5
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (COD)	ND		20		mg/L			05/10/22 11:26	1

Lab Sample ID: LCS 280-574418/3
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand (COD)			100	94.7		mg/L		95	90 - 110		

Lab Sample ID: LCSD 280-574418/4
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)			100	95.4		mg/L		95	90 - 110	1	11

Method: 410.4 - COD (Continued)

Lab Sample ID: 280-161382-4 MS
Matrix: Water
Analysis Batch: 574418

Client Sample ID: SYR MW-12A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand (COD)	ND	F1	50.0	58.0	F1	mg/L		82	90 - 110

Lab Sample ID: 280-161382-4 MSD
Matrix: Water
Analysis Batch: 574418

Client Sample ID: SYR MW-12A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	ND	F1	50.0	55.7	F1	mg/L		77	90 - 110	4	11

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 280-574429/2
Matrix: Water
Analysis Batch: 574429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	ND		10		ug/L			05/10/22 12:10	1

Lab Sample ID: LCS 280-574429/4
Matrix: Water
Analysis Batch: 574429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Halogens, Total Organic	100	96.2		ug/L		96	78 - 114

Lab Sample ID: 280-161382-2 MS
Matrix: Water
Analysis Batch: 574429

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Halogens, Total Organic	16		100	111		ug/L		95	78 - 114

Lab Sample ID: 280-161382-2 MSD
Matrix: Water
Analysis Batch: 574429

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Halogens, Total Organic	16		100	107		ug/L		91	78 - 114	4	23

Method: 9040B - pH

Lab Sample ID: LCS 280-574240/73
Matrix: Water
Analysis Batch: 574240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH adj. to 25 deg C	7.00	7.0		SU		100	99 - 101

Method: 9040B - pH (Continued)

Lab Sample ID: 280-161640-A-1 DU
Matrix: Water
Analysis Batch: 574240

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH adj. to 25 deg C	8.1			8.2		SU				1	5

Method: 9050A - Specific Conductance

Lab Sample ID: MB 280-572874/5
Matrix: Water
Analysis Batch: 572874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0		umhos/cm			04/25/22 10:28	1

Lab Sample ID: LCS 280-572874/4
Matrix: Water
Analysis Batch: 572874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			1410	1470		umhos/cm		104	90 - 110		

Lab Sample ID: 280-161382-2 DU
Matrix: Water
Analysis Batch: 572874

Client Sample ID: SYR SW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	79			78.3		umhos/cm				0.9	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-573357/4
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			04/28/22 14:27	1

Lab Sample ID: LCS 280-573357/3
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	25.3		mg/L		101	88 - 112		

Lab Sample ID: 280-161361-B-3 MS
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	ND		25.0	26.1		mg/L		102	88 - 112		

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 280-161361-B-3 MSD
Matrix: Water
Analysis Batch: 573357

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	ND		25.0	26.0		mg/L		101	88 - 112	1	15

Lab Sample ID: MB 280-573694/4
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			05/02/22 15:25	1

Lab Sample ID: LCS 280-573694/3
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	24.6		mg/L		98	88 - 112

Lab Sample ID: 280-161491-A-1 MS
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	1.6		25.0	27.2		mg/L		102	88 - 112

Lab Sample ID: 280-161491-A-1 MSD
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.6		25.0	27.5		mg/L		103	88 - 112	1	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-574431/1
Matrix: Water
Analysis Batch: 574431

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			05/10/22 12:14	1
Magnesium	0.000				meq/L			05/10/22 12:14	1
Potassium	0.000				meq/L			05/10/22 12:14	1
Sodium	0.000				meq/L			05/10/22 12:14	1
Ammonia as N	0.000				meq/L			05/10/22 12:14	1
Chloride	0.000				meq/L			05/10/22 12:14	1
Sulfate	0.000				meq/L			05/10/22 12:14	1
Carbonate Alkalinity	0.000				meq/L			05/10/22 12:14	1
Bicarbonate Alkalinity	0.000				meq/L			05/10/22 12:14	1
Total Alkalinity	0.000				meq/L			05/10/22 12:14	1
Nitrate/Nitrite	0.000				meq/L			05/10/22 12:14	1
Iron	0.000				meq/L			05/10/22 12:14	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-573361/32
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		10		mg/L			04/28/22 16:58	1
Bicarbonate Alkalinity	ND		10		mg/L			04/28/22 16:58	1
Carbonate Alkalinity	ND		10		mg/L			04/28/22 16:58	1

Lab Sample ID: MB 280-573361/6
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		10		mg/L			04/28/22 13:40	1
Bicarbonate Alkalinity	ND		10		mg/L			04/28/22 13:40	1
Carbonate Alkalinity	ND		10		mg/L			04/28/22 13:40	1

Lab Sample ID: LCS 280-573361/31
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	202		mg/L		101	89 - 109		

Lab Sample ID: LCSD 280-573361/5
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			200	202		mg/L		101	89 - 109	1	10

Lab Sample ID: 280-161377-B-2 DU
Matrix: Water
Analysis Batch: 573361

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	1400			1360		mg/L				0.4	10
Bicarbonate Alkalinity	1300			1270		mg/L				1	20
Carbonate Alkalinity	85			91.8		mg/L				8	20

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 280-573437/2
Matrix: Water
Analysis Batch: 573437

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness, as CaCO3	ND		3.0		mg/L			04/29/22 15:10	1

Method: SM 2340C - Hardness, Total (mg/l as CaC03) (Continued)

Lab Sample ID: LCS 280-573437/1
Matrix: Water
Analysis Batch: 573437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Hardness, as CaCO3			398	396		mg/L		99	90 - 110		

Lab Sample ID: 280-161320-B-1 MSD
Matrix: Water
Analysis Batch: 573437

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hardness, as CaCO3	97		398	499		mg/L		101	90 - 110	2	10

Lab Sample ID: MB 280-573438/3
Matrix: Water
Analysis Batch: 573438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness, as CaCO3	ND		3.0		mg/L			04/29/22 15:13	1

Lab Sample ID: LCS 280-573438/1
Matrix: Water
Analysis Batch: 573438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Hardness, as CaCO3			398	396		mg/L		99	90 - 110		

Lab Sample ID: LCSD 280-573438/2
Matrix: Water
Analysis Batch: 573438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hardness, as CaCO3			398	402		mg/L		101	90 - 110	2	10

Lab Sample ID: 280-161493-A-3 MS
Matrix: Water
Analysis Batch: 573438

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Hardness, as CaCO3	230		398	645		mg/L		104	90 - 110		

Lab Sample ID: 280-161493-A-3 MSD
Matrix: Water
Analysis Batch: 573438

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hardness, as CaCO3	230		398	632		mg/L		101	90 - 110	2	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-573276/1
Matrix: Water
Analysis Batch: 573276

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/28/22 11:41	1

Lab Sample ID: LCS 280-573276/2
Matrix: Water
Analysis Batch: 573276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	501		mg/L		100	88 - 114		

Lab Sample ID: 280-161313-A-1 DU
Matrix: Water
Analysis Batch: 573276

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	520			523		mg/L				1	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-573016/2
Matrix: Water
Analysis Batch: 573016

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			04/26/22 11:28	1

Lab Sample ID: LCS 280-573016/1
Matrix: Water
Analysis Batch: 573016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	88.0		mg/L		88	79 - 114		

Lab Sample ID: 280-161377-A-1 DU
Matrix: Water
Analysis Batch: 573016

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND			ND		mg/L				NC	10

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 280-572698/4
Matrix: Water
Analysis Batch: 572698

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			04/22/22 10:06	1

Method: SM5210B - BOD, 5 Day (Continued)

Lab Sample ID: SCB 280-572698/1
Matrix: Water
Analysis Batch: 572698

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			04/22/22 10:06	1

Lab Sample ID: USB 280-572698/2
Matrix: Water
Analysis Batch: 572698

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			04/22/22 10:06	1

Lab Sample ID: LCS 280-572698/3
Matrix: Water
Analysis Batch: 572698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	183		mg/L		92	85 - 115		

Lab Sample ID: 280-161307-A-9 DU
Matrix: Water
Analysis Batch: 572698

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	1200			1260		mg/L				4	20

GC/MS VOA

Analysis Batch: 573793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-1	TRIP BLANK	Total/NA	Water	8260B	
280-161382-2	SYR SW-1	Total/NA	Water	8260B	
280-161382-3	SYR SW-2	Total/NA	Water	8260B	
280-161382-4	SYR MW-12A	Total/NA	Water	8260B	
MB 280-573793/8	Method Blank	Total/NA	Water	8260B	
LCS 280-573793/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573793/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 573588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total Recoverable	Water	3005A	
280-161382-3	SYR SW-2	Total Recoverable	Water	3005A	
280-161382-4	SYR MW-12A	Total Recoverable	Water	3005A	
MB 280-573588/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573588/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161333-B-11-D MS	Matrix Spike	Dissolved	Water	3005A	
280-161333-B-11-E MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 573869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total Recoverable	Water	6010B	573588
280-161382-3	SYR SW-2	Total Recoverable	Water	6010B	573588
280-161382-4	SYR MW-12A	Total Recoverable	Water	6010B	573588
MB 280-573588/1-A	Method Blank	Total Recoverable	Water	6010B	573588
LCS 280-573588/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573588
280-161333-B-11-D MS	Matrix Spike	Dissolved	Water	6010B	573588
280-161333-B-11-E MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	573588

General Chemistry

Analysis Batch: 572698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	SM5210B	
280-161382-3	SYR SW-2	Total/NA	Water	SM5210B	
280-161382-4	SYR MW-12A	Total/NA	Water	SM5210B	
MB 280-572698/4	Method Blank	Total/NA	Water	SM5210B	
SCB 280-572698/1	Method Blank	Total/NA	Water	SM5210B	
USB 280-572698/2	Method Blank	Total/NA	Water	SM5210B	
LCS 280-572698/3	Lab Control Sample	Total/NA	Water	SM5210B	
280-161307-A-9 DU	Duplicate	Total/NA	Water	SM5210B	

Analysis Batch: 572775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-3	SYR SW-2	Total/NA	Water	365.1	
280-161382-4	SYR MW-12A	Total/NA	Water	365.1	
MB 280-572775/11	Method Blank	Total/NA	Water	365.1	
LCS 280-572775/9	Lab Control Sample	Total/NA	Water	365.1	
LCSD 280-572775/10	Lab Control Sample Dup	Total/NA	Water	365.1	
280-161382-2 MS	SYR SW-1	Total/NA	Water	365.1	
280-161382-2 MSD	SYR SW-1	Total/NA	Water	365.1	

General Chemistry

Analysis Batch: 572874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	9050A	
280-161382-3	SYR SW-2	Total/NA	Water	9050A	
280-161382-4	SYR MW-12A	Total/NA	Water	9050A	
MB 280-572874/5	Method Blank	Total/NA	Water	9050A	
LCS 280-572874/4	Lab Control Sample	Total/NA	Water	9050A	
280-161382-2 DU	SYR SW-1	Total/NA	Water	9050A	

Analysis Batch: 573016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	SM 2540D	
280-161382-3	SYR SW-2	Total/NA	Water	SM 2540D	
280-161382-4	SYR MW-12A	Total/NA	Water	SM 2540D	
MB 280-573016/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-573016/1	Lab Control Sample	Total/NA	Water	SM 2540D	
280-161377-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 573276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	SM 2540C	
280-161382-3	SYR SW-2	Total/NA	Water	SM 2540C	
280-161382-4	SYR MW-12A	Total/NA	Water	SM 2540C	
MB 280-573276/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-573276/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-161313-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Prep Batch: 573320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	351.2	
280-161382-3	SYR SW-2	Total/NA	Water	351.2	
280-161382-4	SYR MW-12A	Total/NA	Water	351.2	
MB 280-573320/12-A	Method Blank	Total/NA	Water	351.2	
LCS 280-573320/11-A	Lab Control Sample	Total/NA	Water	351.2	
280-161384-B-2-B MS	Matrix Spike	Total/NA	Water	351.2	
280-161384-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	

Analysis Batch: 573357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-4	SYR MW-12A	Total/NA	Water	9060	
MB 280-573357/4	Method Blank	Total/NA	Water	9060	
LCS 280-573357/3	Lab Control Sample	Total/NA	Water	9060	
280-161361-B-3 MS	Matrix Spike	Total/NA	Water	9060	
280-161361-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 573361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	SM 2320B	
280-161382-3	SYR SW-2	Total/NA	Water	SM 2320B	
280-161382-4	SYR MW-12A	Total/NA	Water	SM 2320B	
MB 280-573361/32	Method Blank	Total/NA	Water	SM 2320B	
MB 280-573361/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-573361/31	Lab Control Sample	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 573361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-573361/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-161377-B-2 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 573437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	SM 2340C	
MB 280-573437/2	Method Blank	Total/NA	Water	SM 2340C	
LCS 280-573437/1	Lab Control Sample	Total/NA	Water	SM 2340C	
280-161320-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 2340C	

Analysis Batch: 573438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-3	SYR SW-2	Total/NA	Water	SM 2340C	
280-161382-4	SYR MW-12A	Total/NA	Water	SM 2340C	
MB 280-573438/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 280-573438/1	Lab Control Sample	Total/NA	Water	SM 2340C	
LCSD 280-573438/2	Lab Control Sample Dup	Total/NA	Water	SM 2340C	
280-161493-A-3 MS	Matrix Spike	Total/NA	Water	SM 2340C	
280-161493-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 2340C	

Analysis Batch: 573619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	351.2	573320
280-161382-3	SYR SW-2	Total/NA	Water	351.2	573320
280-161382-4	SYR MW-12A	Total/NA	Water	351.2	573320
MB 280-573320/12-A	Method Blank	Total/NA	Water	351.2	573320
LCS 280-573320/11-A	Lab Control Sample	Total/NA	Water	351.2	573320
280-161384-B-2-B MS	Matrix Spike	Total/NA	Water	351.2	573320
280-161384-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	573320

Analysis Batch: 573694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	9060	
280-161382-3	SYR SW-2	Total/NA	Water	9060	
MB 280-573694/4	Method Blank	Total/NA	Water	9060	
LCS 280-573694/3	Lab Control Sample	Total/NA	Water	9060	
280-161491-A-1 MS	Matrix Spike	Total/NA	Water	9060	
280-161491-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 573773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	353.2	
280-161382-3	SYR SW-2	Total/NA	Water	353.2	
MB 280-573773/22	Method Blank	Total/NA	Water	353.2	
LCS 280-573773/21	Lab Control Sample	Total/NA	Water	353.2	
280-161382-2 MS	SYR SW-1	Total/NA	Water	353.2	
280-161382-2 MSD	SYR SW-1	Total/NA	Water	353.2	

Analysis Batch: 573912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-4	SYR MW-12A	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 573912 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-573912/23	Method Blank	Total/NA	Water	353.2	
LCS 280-573912/21	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-573912/22	Lab Control Sample Dup	Total/NA	Water	353.2	
280-161408-A-13 MS	Matrix Spike	Total/NA	Water	353.2	
280-161408-A-13 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 574134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	365.1	
MB 280-574134/10	Method Blank	Total/NA	Water	365.1	
LCS 280-574134/9	Lab Control Sample	Total/NA	Water	365.1	
280-161382-2 MS	SYR SW-1	Total/NA	Water	365.1	
280-161382-2 MSD	SYR SW-1	Total/NA	Water	365.1	

Analysis Batch: 574240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	9040B	
280-161382-3	SYR SW-2	Total/NA	Water	9040B	
280-161382-4	SYR MW-12A	Total/NA	Water	9040B	
LCS 280-574240/73	Lab Control Sample	Total/NA	Water	9040B	
280-161640-A-1 DU	Duplicate	Total/NA	Water	9040B	

Prep Batch: 574301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	365.1	
280-161382-3	SYR SW-2	Total/NA	Water	365.1	
280-161382-4	SYR MW-12A	Total/NA	Water	365.1	
MB 280-574301/5-A	Method Blank	Total/NA	Water	365.1	
LCS 280-574301/3-A	Lab Control Sample	Total/NA	Water	365.1	
LCSD 280-574301/4-A	Lab Control Sample Dup	Total/NA	Water	365.1	
280-161382-2 MS	SYR SW-1	Total/NA	Water	365.1	
280-161382-2 MSD	SYR SW-1	Total/NA	Water	365.1	

Analysis Batch: 574325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	350.1	
280-161382-3	SYR SW-2	Total/NA	Water	350.1	
280-161382-4	SYR MW-12A	Total/NA	Water	350.1	
MB 280-574325/18	Method Blank	Total/NA	Water	350.1	
LCS 280-574325/17	Lab Control Sample	Total/NA	Water	350.1	
280-161382-2 MS	SYR SW-1	Total/NA	Water	350.1	
280-161382-2 MSD	SYR SW-1	Total/NA	Water	350.1	

Analysis Batch: 574418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	410.4	
280-161382-3	SYR SW-2	Total/NA	Water	410.4	
280-161382-4	SYR MW-12A	Total/NA	Water	410.4	
MB 280-574418/5	Method Blank	Total/NA	Water	410.4	
LCS 280-574418/3	Lab Control Sample	Total/NA	Water	410.4	
LCSD 280-574418/4	Lab Control Sample Dup	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 574418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-4 MS	SYR MW-12A	Total/NA	Water	410.4	
280-161382-4 MSD	SYR MW-12A	Total/NA	Water	410.4	

Analysis Batch: 574429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	9020B	
280-161382-3	SYR SW-2	Total/NA	Water	9020B	
280-161382-4	SYR MW-12A	Total/NA	Water	9020B	
MB 280-574429/2	Method Blank	Total/NA	Water	9020B	
LCS 280-574429/4	Lab Control Sample	Total/NA	Water	9020B	
280-161382-2 MS	SYR SW-1	Total/NA	Water	9020B	
280-161382-2 MSD	SYR SW-1	Total/NA	Water	9020B	

Analysis Batch: 574431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	SM 1030E	
280-161382-2	SYR SW-1	Total/NA	Water	SM 1030E (meq)	
280-161382-3	SYR SW-2	Total/NA	Water	SM 1030E	
280-161382-3	SYR SW-2	Total/NA	Water	SM 1030E (meq)	
280-161382-4	SYR MW-12A	Total/NA	Water	SM 1030E	
280-161382-4	SYR MW-12A	Total/NA	Water	SM 1030E (meq)	
MB 280-574431/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 574473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	365.1	574301
280-161382-3	SYR SW-2	Total/NA	Water	365.1	574301
280-161382-4	SYR MW-12A	Total/NA	Water	365.1	574301
MB 280-574301/5-A	Method Blank	Total/NA	Water	365.1	574301
LCS 280-574301/3-A	Lab Control Sample	Total/NA	Water	365.1	574301
LCSD 280-574301/4-A	Lab Control Sample Dup	Total/NA	Water	365.1	574301
280-161382-2 MS	SYR SW-1	Total/NA	Water	365.1	574301
280-161382-2 MSD	SYR SW-1	Total/NA	Water	365.1	574301

Analysis Batch: 624944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	300.0	
280-161382-3	SYR SW-2	Total/NA	Water	300.0	
280-161382-4	SYR MW-12A	Total/NA	Water	300.0	
MB 480-624944/28	Method Blank	Total/NA	Water	300.0	
LCS 480-624944/29	Lab Control Sample	Total/NA	Water	300.0	
280-161414-E-5 MS	Matrix Spike	Total/NA	Water	300.0	
480-197460-G-1 MS	Matrix Spike	Total/NA	Water	300.0	
480-197460-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 625171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-4	SYR MW-12A	Total/NA	Water	300.0	
MB 480-625171/4	Method Blank	Total/NA	Water	300.0	
LCS 480-625171/5	Lab Control Sample	Total/NA	Water	300.0	
280-161382-4 MS	SYR MW-12A	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 625171 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-4 MSD	SYR MW-12A	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 572963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161382-2	SYR SW-1	Total/NA	Water	Field Sampling	
280-161382-3	SYR SW-2	Total/NA	Water	Field Sampling	
280-161382-4	SYR MW-12A	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 280-161382-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-161382-1
Date Collected: 04/21/22 07:00
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573793	05/04/22 17:35	JLS	EET DEN

Client Sample ID: SYR SW-1
Lab Sample ID: 280-161382-2
Date Collected: 04/21/22 10:30
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573793	05/04/22 17:55	JLS	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573588	05/02/22 13:28	MB	EET DEN
Total Recoverable	Analysis	6010B		1			573869	05/04/22 10:21	LMT	EET DEN
Total/NA	Analysis	300.0		1			624944	05/07/22 06:17	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 12:53	MMP	EET DEN
Total/NA	Prep	351.2			25 mL	25 mL	573320	04/28/22 16:09	SVC	EET DEN
Total/NA	Analysis	351.2		1			573619	05/02/22 17:19	SVC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 16:36	SVC	EET DEN
Total/NA	Prep	365.1			50 mL	50 mL	574301	05/09/22 13:50	MMP	EET DEN
Total/NA	Analysis	365.1		1	50 mL	50 mL	574473	05/10/22 14:46	MMP	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	574134	05/06/22 11:57	MMP	EET DEN
Total/NA	Analysis	410.4		1	2 mL	2 mL	574418	05/10/22 11:26	SJD	EET DEN
Total/NA	Analysis	9020B		1	50 mL	100 mL	574429	05/10/22 12:10	LRB	EET DEN
Total/NA	Analysis	9040B		1			574240	05/06/22 21:10	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		1	50 mL	50 mL	573694	05/02/22 20:10	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 18:16	KEG	EET DEN
Total/NA	Analysis	SM 2340C		1	25 mL	25 mL	573437	04/29/22 15:10	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573276	04/28/22 11:41	ABW	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	100 mL	573016	04/26/22 11:29	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	572698	04/22/22 13:00	SJD	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/21/22 11:30	TJ	EET DEN

Client Sample ID: SYR SW-2
Lab Sample ID: 280-161382-3
Date Collected: 04/21/22 08:35
Matrix: Water
Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573793	05/04/22 18:15	JLS	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573588	05/02/22 13:28	MB	EET DEN
Total Recoverable	Analysis	6010B		1			573869	05/04/22 10:25	LMT	EET DEN
Total/NA	Analysis	300.0		1			624944	05/07/22 06:36	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 13:01	MMP	EET DEN

Client Sample ID: SYR SW-2

Lab Sample ID: 280-161382-3

Date Collected: 04/21/22 08:35

Matrix: Water

Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			25 mL	25 mL	573320	04/28/22 16:09	SVC	EET DEN
Total/NA	Analysis	351.2		1			573619	05/02/22 17:20	SVC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 16:42	SVC	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	572775	04/22/22 15:03	SJD	EET DEN
Total/NA	Prep	365.1			50 mL	50 mL	574301	05/09/22 13:50	MMP	EET DEN
Total/NA	Analysis	365.1		1	50 mL	50 mL	574473	05/10/22 14:47	MMP	EET DEN
Total/NA	Analysis	410.4		1	2 mL	2 mL	574418	05/10/22 11:26	SJD	EET DEN
Total/NA	Analysis	9020B		1	50 mL	100 mL	574429	05/10/22 12:10	LRB	EET DEN
Total/NA	Analysis	9040B		1			574240	05/06/22 21:14	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573694	05/02/22 20:24	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 18:21	KEG	EET DEN
Total/NA	Analysis	SM 2340C		1	25 mL	25 mL	573438	04/29/22 15:13	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573276	04/28/22 11:41	ABW	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	100 mL	573016	04/26/22 11:29	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	572698	04/22/22 13:00	SJD	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/21/22 09:35	TJ	EET DEN

Client Sample ID: SYR MW-12A

Lab Sample ID: 280-161382-4

Date Collected: 04/21/22 09:35

Matrix: Water

Date Received: 04/22/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573793	05/04/22 18:36	JLS	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573588	05/02/22 13:28	MB	EET DEN
Total Recoverable	Analysis	6010B		1			573869	05/04/22 10:29	LMT	EET DEN
Total/NA	Analysis	300.0		1			625171	05/09/22 14:20	IMZ	EET BUF
Total/NA	Analysis	300.0		1			624944	05/07/22 06:54	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 13:03	MMP	EET DEN
Total/NA	Prep	351.2			25 mL	25 mL	573320	04/28/22 16:09	SVC	EET DEN
Total/NA	Analysis	351.2		1			573619	05/02/22 17:20	SVC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573912	05/04/22 17:28	SVC	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	572775	04/22/22 15:03	SJD	EET DEN
Total/NA	Prep	365.1			50 mL	50 mL	574301	05/09/22 13:50	MMP	EET DEN
Total/NA	Analysis	365.1		1	50 mL	50 mL	574473	05/10/22 14:47	MMP	EET DEN
Total/NA	Analysis	410.4		1	2 mL	2 mL	574418	05/10/22 11:26	SJD	EET DEN
Total/NA	Analysis	9020B		1	50 mL	100 mL	574429	05/10/22 12:10	LRB	EET DEN
Total/NA	Analysis	9040B		1			574240	05/06/22 21:18	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573357	04/28/22 16:56	ABW	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161382-1

Client Sample ID: SYR MW-12A

Date Collected: 04/21/22 09:35
Date Received: 04/22/22 11:00

Lab Sample ID: 280-161382-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 1030E		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574431	05/10/22 12:14	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			573361	04/28/22 18:26	KEG	EET DEN
Total/NA	Analysis	SM 2340C		1	25 mL	25 mL	573438	04/29/22 15:13	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573276	04/28/22 11:41	ABW	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	100 mL	573016	04/26/22 11:29	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	572698	04/22/22 13:00	SJD	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/21/22 10:35	TJ	EET DEN

Laboratory References:

AAL = AAL, 13035 SW PACIFIC HWY., Tigard, OR 97223, TEL (503)639-9311

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: I. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-23502-10346.1
Client Contact:	Phone: 503 716 6320	E-Mail: Betsy.Sara@Eurofinset.com		Page:
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name:1003|Riverbend Landfill SCS Engineers Event Desc: Annual SW - Apr	Project #: 28002786			
Site: Oregon	SSOW#:			

280-161382 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alks/EC/pH	Hardness	Total Metals	Ammonia/TOC/TOX/Nitrate+Nitrite	TKN/COD/Total Phos	8260B	TSS	BOD	Cation Balance	Orthophosphate (365.1) (Field Filtered)	Chloride/Sulfate (TA Buffalo)			Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	D	S	S	A	N	N		N	N				
Trip Blank	4/21/22	0700	G	W								X								2	Short Holds: pH, BOD, Orthophosphate(365.1)
SYR SW-1	4/21/22	1030	G	W	X		X	X	X	X	X	X	X	X	X	X	X			13	
SYR SW-2	4/21/22	0835	G	W	X		X	X	X	X	X	X	X	X	X	X	X			13	
SYR MW-12A	4/21/22	0935	G	W	X		X	X	X	X	X	X	X	X	X	X	X			13	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: 04/22/22

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		4/21/22 1630	SCS		04/22/2022 1100	CTDEM
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.1, 0.8 CF +0.1 IR#12

3/10/2023

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: I. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-23502-10346.1
Client Contact:	Phone: 503 716 6320	E-Mail: Betsy.Sara@Eurofinset.com		Page:
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers Event Desc: Annual SW - Apr	Project #: 28002786			
Site: Oregon	SSOW#:			

280-161382 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alks/EC/pH	Hardness	Total Metals	Ammonia/TOC/TOX/Nitrate+Nitrite	TKN/COD/Total Phos	8260B	TSS	BOD	Cation Balance	Orthophosphate (365.1) (Field Filtered)	Chloride/Sulfate (TA Buffalo)			Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D	S	S	A	N	N		N	N				
Trip Blank	4/21/22	0700	G	W								X								2	Short Holds: pH, BOD, Orthophosphate(365.1)
SYR SW-1	4/21/22	1030	G	W	X		X	X	X	X	X	X	X	X	X	X	X			13	
SYR SW-2	4/21/22	0835	G	W	X		X	X	X	X	X	X	X	X	X	X	X			13	
SYR MW-12A	4/21/22	0935	G	W	X		X	X	X	X	X	X	X	X	X	X	X			13	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: UL 4/22/22
Relinquished by:	Date/Time: 4/21/22 1630	Company: SCS	Received by: AHK	Date/Time: 04/22/2022 1100	Company: 280 DEM
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.1, 0.8 CF +0.1 IR#12

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** SYR SW-1
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		**TEMPERATURE:** 48. °C		

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Stainless steel Dipper

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/21/22	10 : 30	G	3	40 ml	HCl	YES	NO		
VOA Glass	/ /	:			40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/21/22	10 : 30	G	4	250, 500, 1L	None	YES	NO	NA	
Yellow Glass	4/21/22	10 : 30	G	3	250, 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	4/21/22	10 : 30	G	2	125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
White Poly	4/21/22	10 : 30	G	1	250, 500, 1L	None	YES	YES		
Clear Poly	4/21/22	10 : 30	G	2	100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 15 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	G (1030)	0.00	6.43	179.3	87.9	9.70	—	15.66	Cloudy tan
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Grab with Stainless steel Bailer

SAMPLER: J. Holtquist (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** SYR SW-2
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	(SW)	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY	(CLOUDY)	RAIN	?					**TEMPERATURE:**	(°F 45.0)	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Stainless Steel Dipper

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/21/22	08:35	G	3	(40 ml)	(HCl)	YES	NO	✓
VOA Glass	/ /	:			40 ml	$Na_2S_2O_3$	YES	NO	
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO	
White Poly	4/21/22	08:35	G	4	(250, 500, 1L)	(None)	YES	NO	NA ✓
Yellow Glass	4/21/22	08:35	G	3	250, (500), 1L	(H_2SO_4)	YES	NO	
Red Total Poly	4/21/22	08:35	G	2	125, 250, (500)	(HNO_3)	(YES)	(NO)	✓
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES	
White Poly	4/21/22	08:35	G	1	(250), 500, 1L	(None)	(YES)	(YES)	✓
Clear Poly	4/21/22	08:35	G	2	(100, 250, 500)	($Na_2S_2O_3$)	(YES)	(NO)	✓

White no acid, Yellow H2SO4, Red HNO3 | 15 | Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(OH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	(G 0835)	0.00	6.36	176.4	83.3	9.9	—	10.03	clear, light tan
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Grab with Stainless Steel Dipper

SAMPLER: I. Hultquist (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** SGR ~~MW-12A~~ MW-12A

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	NE	E	SE	S	(SW)	W	NW	LIGHT	(MEDIUM)	HEAVY
WEATHER:	SUNNY	(CLOUDY)		RAIN		?			**TEMPERATURE:**	(°F 50.0	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Stainless Steel Dipper

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/21/22	09:35	G	3	(40 ml)	(HCl)	(YES)	~~NO~~		✓
VOA Glass	/ /	:			40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/21/22	09:35	G	4	(250, 500) 1L	(None)	~~YES~~	~~NO~~	NA	✓
Yellow Glass	4/21/22	09:35	G	3	250, (500) 1L	(H_2SO_4)	(YES)	(NO)		✓
Red Total Poly	4/21/22	09:35	G	IH 32	125, 250, (500)	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
White Poly	4/21/22	09:35	C	1	250, 500, 1L	None	YES	YES		
Clear Poly	4/21/22	09:35	G	2	(100) 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 | 15 | Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	(0935)	0.00	6.75	156.3	133.0	10.7	—	7.54	Tan, clear
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Grab with ~~Stainless~~ IH Steel bailer
Stainless

SAMPLER: I. Hultquist (PRINTED NAME) (SIGNATURE)

ORIGIN ID:PDXA
SHIP DATE: 21APR22
ACTWGT: 58.25 LB
CAD: /SSFE2300
DIMS: 24x14x14 IN
TO SAMPLE RECEIVING
EUROFINS TESTAM
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
INV:
PO:
DEPT:
eurofins
Environment Testing
TestAmerica
1773607
FedEx
Express
TRK# 0667 8165 7649 6750
FRI - 22 APR 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN
XA LAAA

280-161382 Waybill

ORIGIN ID:PDXA
SHIP DATE: 21APR22
ACTWGT: 44.75 LB
CAD: /SSFE2300
DIMS: 24x14x14 IN
TO SAMPLE RECEVING
EUROFINS TESTAMERICA - DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
INV:
PO:
eurofins
Environment Testing
TestAmerica
1562722
FedEx
Express
TRK# 0667 8165 7649 6740
FRI - 22 APR 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN
XA LAAA
eurofins
Environment Testing

SAMPLE RECEIVING
EUROFINS TESTAMERICA – DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736–0100
INV:
PO:
REF:
Environment Test
TestAmerica
1773606
(US)
edEx
Express
J22102201050
RK#
667
8165 7649 6691
FRI – 22 APR 10:30A
PRIORITY OVERNIGHT
A LAAA
4.3
AHS
80002
CO – US
DEN

280-161382 Waybill

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-611870.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-161382-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 5/12/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298	PO #:			
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	WO #:			
Email:	Project #: 28002786			
Project Name: 1003|Riverbend Landfill SCS Engineers	SSOW#:			
Site: 1003|Riverbend Landfill				

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SYR SW-1 (280-161382-2)	4/21/22	10:30 Pacific		Water			X	1	
SYR SW-2 (280-161382-3)	4/21/22	08:35 Pacific		Water			X	1	
SYR MW-12A (280-161382-4)	4/21/22	09:35 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

Relinquished by:	Date/Time: 4/26/22 1530	Company: ETDEN	Received by:	Date/Time: 4/28/22 1000	Company: ΔΔ	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4/7# ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161382-1

Login Number: 161382

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161382-1

Login Number: 161382
List Number: 2
Creator: Kazenga, Oliver M

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161382-1

Login Number: 161382
List Number: 3
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 04/29/22 04:48 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7 ir gun #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Spring 2022

Leachate Management System Liquids

Laboratory Analytical Reports

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

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JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Leachate Lagoon - Apr Nov

JOB NUMBER

280-161447-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

Job Notes

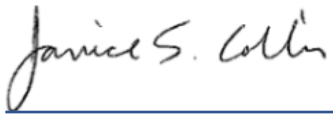
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-161447-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
H	Sample was prepped or analyzed beyond the specified holding time

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-161447-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-161447-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving
The samples were received on 04/23/2022; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.7°C and 2.7°C.

Holding Times

The analysis for pH should be performed in the field immediately following sampling, and therefore the laboratory pH result was flagged with an "HF" flag.

The analysis for Total Mercury Method 7470A for all samples was performed outside of the prescribed hold time due to client request for analysis after hold time expiration.

All other holding times were met.

Method Blanks

All Method Blanks met method criteria.

Laboratory Control Samples (LCS)

1,2,3-Trichloropropane and 1,2-Dibromo-3-Chloropropane Method 8260B recovered outside control limits for the LCS. This is not indicative of a systematic control problem because these were random marginal exceedances.

All other Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) for Method 8260B, however, an LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

The percent recoveries and/or relative percent difference of the MS/MSD performed on a sample from another client were outside control limits for Total Silicon Method 6010B because the sample concentration was greater than four times the spike amount. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, no corrective action was taken.

The Matrix Spike and Matrix Spike Duplicate performed on samples from other clients exhibited recoveries outside control limits Chemical

Job ID: 280-161447-1 (Continued)

Laboratory: Eurofins Denver (Continued)

Oxygen Demand (COD) Method 410.4. Because the corresponding Laboratory Control Samples and the Method Blank samples were within control limits, these anomalies may be due to matrix interference and no corrective action was taken.

All other MS and MSD results were within established control limits.

Organics

The prepreserved hydrochloric acid preserved vials for Method 8260B analysis for the samples LPOND LDS and LEACH-POND- exhibited pH values greater than 2. This is non-compliant with Method 8260B which requires samples to be preserved with hydrochloric acid to a pH of less than 2. Because these samples were leachate samples, a buffering effect was suspected.

Metals

The Method 6020 Continuing Calibration Verification (CCV) sample was above the control limits for Total Beryllium. Because the data are considered biased high and Total Beryllium was not detected in the associated samples above the reporting limit, corrective action was deemed unnecessary.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161447-1

Client Sample ID: TB2 — Lab Sample ID: 280-161447-1

No Detections.

Client Sample ID: LEACH POND — Lab Sample ID: 280-161447-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silicon	20000		100		ug/L	5		6010B	Total Recoverable
Zinc	39		26		ug/L	5		6010B	Total Recoverable
Boron	8400		100		ug/L	5		6010B	Total Recoverable
Calcium	66000		500		ug/L	1		6010B	Dissolved
Iron	2400		30		ug/L	1		6010B	Dissolved
Magnesium	82000		200		ug/L	1		6010B	Dissolved
Manganese	640		3.0		ug/L	1		6010B	Dissolved
Potassium	370000		500		ug/L	1		6010B	Dissolved
Sodium	1400000		1000		ug/L	1		6010B	Dissolved
Antimony	19		0.60		ug/L	1		6020	Total Recoverable
Arsenic	130		1.0		ug/L	1		6020	Total Recoverable
Barium	250		1.0		ug/L	1		6020	Total Recoverable
Chromium	120		2.0		ug/L	1		6020	Total Recoverable
Cobalt	26		0.20		ug/L	1		6020	Total Recoverable
Copper	2.4		1.0		ug/L	1		6020	Total Recoverable
Lead	1.3		0.50		ug/L	1		6020	Total Recoverable
Nickel	72		1.0		ug/L	1		6020	Total Recoverable
Vanadium	78		3.0		ug/L	1		6020	Total Recoverable
Chloride	1400		20		mg/L	20		300.0	Total/NA
Sulfate	82		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	340		4.4		mg/L	200		350.1	Total/NA
Total Kjeldahl Nitrogen	450		34		mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	46		2.2		mg/L	50		353.2	Total/NA
Chemical Oxygen Demand (COD)	1000		170		mg/L	20		410.4	Total/NA
pH adj. to 25 deg C	8.2	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	9100		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	290		3.5		mg/L	10		9060	Total/NA
Total Anions	88				meq/L	1		SM 1030E	Total/NA
Total Cations	100				meq/L	1		SM 1030E	Total/NA
Percent Difference	8.5				%	1		SM 1030E	Total/NA
Calcium	66				mg/L	1		SM 1030E	Total/NA
Magnesium	82				mg/L	1		SM 1030E	Total/NA
Potassium	370				mg/L	1		SM 1030E	Total/NA
Sodium	1400				mg/L	1		SM 1030E	Total/NA
Ammonia as N	340				mg/L	1		SM 1030E	Total/NA
Chloride	1400				mg/L	1		SM 1030E	Total/NA
Sulfate	82				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	2200				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: LEACH POND (Continued) — Lab Sample ID: 280-161447-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	2200				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	46				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	8.5				%	1		SM 1030E	Total/NA
Calculated TDS	5000				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.88				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	4400				mg/L	1		SM 1030E	Total/NA
Iron	2.4				mg/L	1		SM 1030E	Total/NA
Calcium	3.3				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	6.7				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	9.5				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	61				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.13				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia	24				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	39				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	1.7				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate Nitrite as N	3.3				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	44				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity as CaCO3	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity as CaCO3	44				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	2200		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	2200		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	470		3.0		mg/L	2		SM 2340C	Total/NA
Total Dissolved Solids	4400		19		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	39		4.0		mg/L	1		SM 2540D	Total/NA
Field pH	6.23				SU	1		Field Sampling	Total/NA
Field Conductivity	8237				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.0				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.95				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	273				millivolts	1		Field Sampling	Total/NA

Client Sample ID: LPOND LDS — Lab Sample ID: 280-161447-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silicon	17000		100		ug/L	1		6010B	Total Recoverable
Zinc	26		26		ug/L	1		6010B	Total Recoverable
Boron	6000		100		ug/L	1		6010B	Total Recoverable
Calcium	36000		500		ug/L	1		6010B	Dissolved
Iron	7900		30		ug/L	1		6010B	Dissolved
Magnesium	48000		200		ug/L	1		6010B	Dissolved
Manganese	1200		3.0		ug/L	1		6010B	Dissolved
Potassium	160000		500		ug/L	1		6010B	Dissolved
Sodium	800000		1000		ug/L	1		6010B	Dissolved
Antimony	11		0.60		ug/L	1		6020	Total Recoverable
Arsenic	22		1.0		ug/L	1		6020	Total Recoverable
Barium	180		1.0		ug/L	1		6020	Total Recoverable
Chromium	67		2.0		ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: LPOND LDS (Continued)

Lab Sample ID: 280-161447-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	27		0.20		ug/L	1		6020	Total Recoverable
Copper	34		1.0		ug/L	1		6020	Total Recoverable
Lead	1.9		0.50		ug/L	1		6020	Total Recoverable
Nickel	67		1.0		ug/L	1		6020	Total Recoverable
Vanadium	40		3.0		ug/L	1		6020	Total Recoverable
Chloride	950		20		mg/L	20		300.0	Total/NA
Sulfate	190		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	120		2.2		mg/L	100		350.1	Total/NA
Total Kjeldahl Nitrogen	170		34		mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	2.8		0.10		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand (COD)	460		87		mg/L	10		410.4	Total/NA
pH adj. to 25 deg C	7.3	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	5300		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	150		1.7		mg/L	5		9060	Total/NA
Total Anions	51				meq/L	1		SM 1030E	Total/NA
Total Cations	54				meq/L	1		SM 1030E	Total/NA
Percent Difference	2.6				%	1		SM 1030E	Total/NA
Calcium	36				mg/L	1		SM 1030E	Total/NA
Magnesium	48				mg/L	1		SM 1030E	Total/NA
Potassium	160				mg/L	1		SM 1030E	Total/NA
Sodium	800				mg/L	1		SM 1030E	Total/NA
Ammonia as N	120				mg/L	1		SM 1030E	Total/NA
Chloride	950				mg/L	1		SM 1030E	Total/NA
Sulfate	190				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	1000				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	1000				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	2.8				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	2.6				%	1		SM 1030E	Total/NA
Calculated TDS	2700				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	2800				mg/L	1		SM 1030E	Total/NA
Iron	7.9				mg/L	1		SM 1030E	Total/NA
Calcium	1.8				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	3.9				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	4.1				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	35				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.42				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia	8.6				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	27				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	4.0				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate Nitrite as N	0.20				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	20				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity as CaCO3	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity as CaCO3	20				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	1000		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	1000		10		mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LPOND LDS (Continued)

Lab Sample ID: 280-161447-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hardness, as CaCO3	300		3.0		mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	2800		19		mg/L	1		SM 2540C	Total/NA
Field pH	7.60				SU	1		Field Sampling	Total/NA
Field Conductivity	2600				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.7				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.96				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	338.3				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-161447-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-161447-1	TB2	Water	04/20/22 07:00	04/23/22 11:25
280-161447-2	LEACH POND	Water	04/20/22 09:45	04/23/22 11:25
280-161447-3	LPOND LDS	Water	04/20/22 10:30	04/23/22 11:25

Method Summary

Client: Waste Management
Job ID: 280-161447-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
6020	Metals (ICP/MS)	SW846	EET DEN
7470A	Mercury (CVAA)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
351.2	Nitrogen, Total Kjeldahl	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
410.4	COD	EPA	EET DEN
9040B	pH	SW846	EET DEN
9050A	Specific Conductance	SW846	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
351.2	Nitrogen, Total Kjeldahl	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN
7470A	Preparation, Mercury	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161447-1

Client Sample ID: TB2
Date Collected: 04/20/22 07:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161447-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 10:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 10:24	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 10:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 10:24	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 10:24	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 10:24	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 10:24	1
1,2,3-Trichlorobenzene	ND	*-	1.0		ug/L			05/03/22 10:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 10:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 10:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 10:24	1
1,2-Dibromo-3-Chloropropane	ND	*-	5.0		ug/L			05/03/22 10:24	1
1,2-Dibromoethane	ND		1.0		ug/L			05/03/22 10:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 10:24	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 10:24	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 10:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 10:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 10:24	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 10:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 10:24	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 10:24	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 10:24	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 10:24	1
2-Hexanone	ND		5.0		ug/L			05/03/22 10:24	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 10:24	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 10:24	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 10:24	1
Acetone	ND		10		ug/L			05/03/22 10:24	1
Benzene	ND		1.0		ug/L			05/03/22 10:24	1
Bromobenzene	ND		1.0		ug/L			05/03/22 10:24	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 10:24	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 10:24	1
Bromoform	ND		1.0		ug/L			05/03/22 10:24	1
Bromomethane	ND		2.0		ug/L			05/03/22 10:24	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 10:24	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 10:24	1
Chlorobenzene	ND		1.0		ug/L			05/03/22 10:24	1
Chloroethane	ND		2.0		ug/L			05/03/22 10:24	1
Chloroform	ND		1.0		ug/L			05/03/22 10:24	1
Chloromethane	ND		2.0		ug/L			05/03/22 10:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 10:24	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 10:24	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 10:24	1
Dibromomethane	ND		1.0		ug/L			05/03/22 10:24	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 10:24	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 10:24	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 10:24	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 10:24	1
Methylene Chloride	ND		5.0		ug/L			05/03/22 10:24	1

Client Sample ID: TB2

Date Collected: 04/20/22 07:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161447-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/03/22 10:24	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 10:24	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 10:24	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 10:24	1
Styrene	ND		1.0		ug/L			05/03/22 10:24	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 10:24	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 10:24	1
Toluene	ND		1.0		ug/L			05/03/22 10:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 10:24	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 10:24	1
Trichloroethene	ND		1.0		ug/L			05/03/22 10:24	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 10:24	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 10:24	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 10:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 10:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 10:24*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 10:24*	*1*
Dibromofluoromethane (Surr)	*89*		*77 - 120*		*05/03/22 10:24*	*1*
Toluene-d8 (Surr)	*110*		*80 - 125*		*05/03/22 10:24*	*1*

Client Sample ID: LEACH POND

Date Collected: 04/20/22 09:45
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161447-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1		ug/L			05/03/22 16:50	5
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 16:50	5
1,1,2,2-Tetrachloroethane	ND		1.1		ug/L			05/03/22 16:50	5
1,1,2-Trichloroethane	ND		1.4		ug/L			05/03/22 16:50	5
1,1-Dichloroethane	ND		1.1		ug/L			05/03/22 16:50	5
1,1-Dichloroethene	ND		1.2		ug/L			05/03/22 16:50	5
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 16:50	5
1,2,3-Trichlorobenzene	ND		1.1		ug/L			05/03/22 16:50	5
1,2,3-Trichloropropane	ND		1.7		ug/L			05/03/22 16:50	5
1,2,4-Trichlorobenzene	ND		1.1		ug/L			05/03/22 16:50	5
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 16:50	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/22 16:50	5
1,2-Dibromoethane	ND		1.0		ug/L			05/03/22 16:50	5
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 16:50	5
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 16:50	5
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 16:50	5
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 16:50	5
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 16:50	5
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 16:50	5
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 16:50	5

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161447-1

Client Sample ID: LEACH POND

Date Collected: 04/20/22 09:45
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161447-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 16:50	5
2-Butanone (MEK)	ND		10		ug/L			05/03/22 16:50	5
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 16:50	5
2-Hexanone	ND		8.5		ug/L			05/03/22 16:50	5
4-Chlorotoluene	ND		1.1		ug/L			05/03/22 16:50	5
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 16:50	5
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 16:50	5
Acetone	ND		10		ug/L			05/03/22 16:50	5
Benzene	ND		1.0		ug/L			05/03/22 16:50	5
Bromobenzene	ND		1.0		ug/L			05/03/22 16:50	5
Bromochloromethane	ND		1.0		ug/L			05/03/22 16:50	5
Bromodichloromethane	ND		1.0		ug/L			05/03/22 16:50	5
Bromoform	ND		2.3		ug/L			05/03/22 16:50	5
Bromomethane	ND		2.0		ug/L			05/03/22 16:50	5
Carbon disulfide	ND		2.0		ug/L			05/03/22 16:50	5
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 16:50	5
Chlorobenzene	ND		1.0		ug/L			05/03/22 16:50	5
Chloroethane	ND		2.1		ug/L			05/03/22 16:50	5
Chloroform	ND		1.0		ug/L			05/03/22 16:50	5
Chloromethane	ND		2.0		ug/L			05/03/22 16:50	5
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 16:50	5
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 16:50	5
Dibromochloromethane	ND		1.0		ug/L			05/03/22 16:50	5
Dibromomethane	ND		1.0		ug/L			05/03/22 16:50	5
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 16:50	5
Ethylbenzene	ND		1.0		ug/L			05/03/22 16:50	5
Hexachlorobutadiene	ND		1.8		ug/L			05/03/22 16:50	5
Isopropylbenzene	ND		1.0		ug/L			05/03/22 16:50	5
Methylene Chloride	ND		5.0		ug/L			05/03/22 16:50	5
Naphthalene	ND		1.1		ug/L			05/03/22 16:50	5
n-Butylbenzene	ND		1.0		ug/L			05/03/22 16:50	5
N-Propylbenzene	ND		1.0		ug/L			05/03/22 16:50	5
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 16:50	5
Styrene	ND		1.8		ug/L			05/03/22 16:50	5
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 16:50	5
Tetrachloroethene	ND		1.0		ug/L			05/03/22 16:50	5
Toluene	ND		1.0		ug/L			05/03/22 16:50	5
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 16:50	5
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 16:50	5
Trichloroethene	ND		1.0		ug/L			05/03/22 16:50	5
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 16:50	5
Vinyl chloride	ND		1.0		ug/L			05/03/22 16:50	5
Xylenes (total)	ND		2.0		ug/L			05/03/22 16:50	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 16:50*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*		*05/03/22 16:50*	*5*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/03/22 16:50*	*5*

Client Sample ID: LEACH POND

Date Collected: 04/20/22 09:45
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161447-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/03/22 16:50*	*5*
Toluene-d8 (Surr)	*112*		*80 - 125*		*05/03/22 16:50*	*5*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	**20000**		100		ug/L		05/04/22 10:41	05/05/22 09:26	5
Silver	ND		9.8		ug/L		05/04/22 10:41	05/05/22 09:26	5
Zinc	**39**		26		ug/L		05/04/22 10:41	05/05/22 09:26	5
Molybdenum	ND		20		ug/L		05/04/22 10:41	05/05/22 09:26	5
Boron	**8400**		100		ug/L		05/04/22 10:41	05/05/22 09:26	5

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**66000**		500		ug/L		05/04/22 09:55	05/05/22 11:19	1
Iron	**2400**		30		ug/L		05/04/22 09:55	05/05/22 11:19	1
Magnesium	**82000**		200		ug/L		05/04/22 09:55	05/05/22 11:19	1
Manganese	**640**		3.0		ug/L		05/04/22 09:55	05/05/22 11:19	1
Potassium	**370000**		500		ug/L		05/04/22 09:55	05/05/22 11:19	1
Sodium	**1400000**		1000		ug/L		05/04/22 09:55	05/05/22 11:19	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**19**		0.60		ug/L		05/04/22 08:40	05/04/22 21:38	1
Arsenic	**130**		1.0		ug/L		05/04/22 08:40	05/04/22 21:38	1
Barium	**250**		1.0		ug/L		05/04/22 08:40	05/04/22 21:38	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 21:38	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 21:38	1
Chromium	**120**		2.0		ug/L		05/04/22 08:40	05/04/22 21:38	1
Cobalt	**26**		0.20		ug/L		05/04/22 08:40	05/04/22 21:38	1
Copper	**2.4**		1.0		ug/L		05/04/22 08:40	05/04/22 21:38	1
Lead	**1.3**		0.50		ug/L		05/04/22 08:40	05/04/22 21:38	1
Nickel	**72**		1.0		ug/L		05/04/22 08:40	05/04/22 21:38	1
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 21:38	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 21:38	1
Vanadium	**78**		3.0		ug/L		05/04/22 08:40	05/04/22 21:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H	0.20		ug/L		07/11/22 20:10	07/12/22 00:55	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**88**				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	**100**				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	**8.5**				%			05/11/22 10:42	1
Calcium (SM 1030E)	**66**				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	**82**				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	**370**				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	**1400**				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	**340**				mg/L			05/11/22 10:42	1

Client Sample ID: LEACH POND

Date Collected: 04/20/22 09:45
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161447-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SM 1030E)	1400				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	82				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	2200				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	2200				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	46				mg/L			05/11/22 10:42	1
Anion/Cation Balance (SM 1030E)	8.5				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	5000				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	0.88				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	4400				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	2.4				mg/L			05/11/22 10:42	1
Calcium (SM 1030E (meq))	3.3				meq/L			05/11/22 10:42	1
Magnesium (SM 1030E (meq))	6.7				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	9.5				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	61				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	0.13				meq/L			05/11/22 10:42	1
Ammonia (SM 1030E (meq))	24				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	39				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	1.7				meq/L			05/11/22 10:42	1
Nitrate Nitrite as N (SM 1030E (meq))	3.3				meq/L			05/11/22 10:42	1
Alkalinity (SM 1030E (meq))	44				meq/L			05/11/22 10:42	1
Carbonate Alkalinity as CaCO3 (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity as CaCO3 (SM 1030E (meq))	44				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1400		20		mg/L			05/11/22 06:32	20
Sulfate (EPA 300.0)	82		5.0		mg/L			05/11/22 06:17	1
Ammonia as N (EPA 350.1)	340		4.4		mg/L			05/10/22 14:08	200
Total Kjeldahl Nitrogen (EPA 351.2	450		34		mg/L		04/25/22 15:21	04/27/22 17:39	1
Nitrate Nitrite as N (EPA 353.2)	46		2.2		mg/L			05/03/22 19:00	50
Chemical Oxygen Demand (COD) (EPA 410.4)	1000		170		mg/L			05/10/22 11:26	20
Total Organic Carbon - Average (SW846 9060)	290		3.5		mg/L			05/02/22 22:04	10
Total Alkalinity (SM 2320B)	2200		10		mg/L			05/03/22 22:32	1
Bicarbonate Alkalinity (SM 2320B)	2200		10		mg/L			05/03/22 22:32	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			05/03/22 22:32	1
Hardness, as CaCO3 (SM 2340C)	470		3.0		mg/L			04/29/22 15:13	2
Total Dissolved Solids (SM 2540C)	4400		19		mg/L			04/26/22 11:39	1
Total Suspended Solids (SM 2540D)	39		4.0		mg/L			04/25/22 16:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	8.2	HF	0.1		SU			05/05/22 15:14	1
Specific Conductance (SW846 9050A)	9100		2.0		umhos/cm			04/25/22 10:29	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.23				SU			04/20/22 10:45	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161447-1

Client Sample ID: LEACH POND

Lab Sample ID: 280-161447-2

Date Collected: 04/20/22 09:45
Matrix: Water
Date Received: 04/23/22 11:25

Method: EPA Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Conductivity	8237				umhos/cm			04/20/22 10:45	1
Field Temperature	10.0				Degrees C			04/20/22 10:45	1
Field Dissolved Oxygen	2.95				mg/L			04/20/22 10:45	1
Field EH/ORP	273				millivolts			04/20/22 10:45	1

Client Sample ID: LPOND LDS

Lab Sample ID: 280-161447-3

Date Collected: 04/20/22 10:30
Matrix: Water
Date Received: 04/23/22 11:25

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1		ug/L			05/03/22 17:11	5
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 17:11	5
1,1,2,2-Tetrachloroethane	ND		1.1		ug/L			05/03/22 17:11	5
1,1,2-Trichloroethane	ND		1.4		ug/L			05/03/22 17:11	5
1,1-Dichloroethane	ND		1.1		ug/L			05/03/22 17:11	5
1,1-Dichloroethene	ND		1.2		ug/L			05/03/22 17:11	5
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 17:11	5
1,2,3-Trichlorobenzene	ND		1.1		ug/L			05/03/22 17:11	5
1,2,3-Trichloropropane	ND		1.7		ug/L			05/03/22 17:11	5
1,2,4-Trichlorobenzene	ND		1.1		ug/L			05/03/22 17:11	5
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 17:11	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/22 17:11	5
1,2-Dibromoethane	ND		1.0		ug/L			05/03/22 17:11	5
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 17:11	5
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 17:11	5
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 17:11	5
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 17:11	5
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 17:11	5
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 17:11	5
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 17:11	5
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 17:11	5
2-Butanone (MEK)	ND		10		ug/L			05/03/22 17:11	5
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 17:11	5
2-Hexanone	ND		8.5		ug/L			05/03/22 17:11	5
4-Chlorotoluene	ND		1.1		ug/L			05/03/22 17:11	5
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 17:11	5
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 17:11	5
Acetone	ND		10		ug/L			05/03/22 17:11	5
Benzene	ND		1.0		ug/L			05/03/22 17:11	5
Bromobenzene	ND		1.0		ug/L			05/03/22 17:11	5
Bromochloromethane	ND		1.0		ug/L			05/03/22 17:11	5
Bromodichloromethane	ND		1.0		ug/L			05/03/22 17:11	5
Bromoform	ND		2.3		ug/L			05/03/22 17:11	5
Bromomethane	ND		2.0		ug/L			05/03/22 17:11	5
Carbon disulfide	ND		2.0		ug/L			05/03/22 17:11	5
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 17:11	5
Chlorobenzene	ND		1.0		ug/L			05/03/22 17:11	5
Chloroethane	ND		2.1		ug/L			05/03/22 17:11	5
Chloroform	ND		1.0		ug/L			05/03/22 17:11	5

Client Sample ID: LPOND LDS
Date Collected: 04/20/22 10:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161447-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		2.0		ug/L			05/03/22 17:11	5
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 17:11	5
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 17:11	5
Dibromochloromethane	ND		1.0		ug/L			05/03/22 17:11	5
Dibromomethane	ND		1.0		ug/L			05/03/22 17:11	5
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 17:11	5
Ethylbenzene	ND		1.0		ug/L			05/03/22 17:11	5
Hexachlorobutadiene	ND		1.8		ug/L			05/03/22 17:11	5
Isopropylbenzene	ND		1.0		ug/L			05/03/22 17:11	5
Methylene Chloride	ND		5.0		ug/L			05/03/22 17:11	5
Naphthalene	ND		1.1		ug/L			05/03/22 17:11	5
n-Butylbenzene	ND		1.0		ug/L			05/03/22 17:11	5
N-Propylbenzene	ND		1.0		ug/L			05/03/22 17:11	5
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 17:11	5
Styrene	ND		1.8		ug/L			05/03/22 17:11	5
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 17:11	5
Tetrachloroethene	ND		1.0		ug/L			05/03/22 17:11	5
Toluene	ND		1.0		ug/L			05/03/22 17:11	5
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 17:11	5
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 17:11	5
Trichloroethene	ND		1.0		ug/L			05/03/22 17:11	5
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 17:11	5
Vinyl chloride	ND		1.0		ug/L			05/03/22 17:11	5
Xylenes (total)	ND		2.0		ug/L			05/03/22 17:11	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 17:11*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*		*05/03/22 17:11*	*5*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*05/03/22 17:11*	*5*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/03/22 17:11*	*5*
Toluene-d8 (Surr)	*110*		*80 - 125*		*05/03/22 17:11*	*5*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	**17000**		100		ug/L		05/04/22 10:10	05/05/22 05:08	1
Silver	ND		3.0		ug/L		05/04/22 10:10	05/05/22 05:08	1
Zinc	**26**		26		ug/L		05/04/22 10:10	05/05/22 05:08	1
Molybdenum	ND		20		ug/L		05/04/22 10:10	05/05/22 05:08	1
Boron	**6000**		100		ug/L		05/04/22 10:10	05/05/22 05:08	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**36000**		500		ug/L		05/04/22 09:55	05/05/22 11:23	1
Iron	**7900**		30		ug/L		05/04/22 09:55	05/05/22 11:23	1
Magnesium	**48000**		200		ug/L		05/04/22 09:55	05/05/22 11:23	1
Manganese	**1200**		3.0		ug/L		05/04/22 09:55	05/05/22 11:23	1
Potassium	**160000**		500		ug/L		05/04/22 09:55	05/05/22 11:23	1
Sodium	**800000**		1000		ug/L		05/04/22 09:55	05/05/22 11:23	1

Client Sample ID: LPOND LDS

Date Collected: 04/20/22 10:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161447-3

Matrix: Water

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	11		0.60		ug/L		05/04/22 08:40	05/04/22 21:41	1
Arsenic	22		1.0		ug/L		05/04/22 08:40	05/04/22 21:41	1
Barium	180		1.0		ug/L		05/04/22 08:40	05/04/22 21:41	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 21:41	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 21:41	1
Chromium	67		2.0		ug/L		05/04/22 08:40	05/04/22 21:41	1
Cobalt	27		0.20		ug/L		05/04/22 08:40	05/04/22 21:41	1
Copper	34		1.0		ug/L		05/04/22 08:40	05/04/22 21:41	1
Lead	1.9		0.50		ug/L		05/04/22 08:40	05/04/22 21:41	1
Nickel	67		1.0		ug/L		05/04/22 08:40	05/04/22 21:41	1
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 21:41	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 21:41	1
Vanadium	40		3.0		ug/L		05/04/22 08:40	05/04/22 21:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H	0.20		ug/L		07/11/22 20:10	07/12/22 00:57	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	51				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	54				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	2.6				%			05/11/22 10:42	1
Calcium (SM 1030E)	36				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	48				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	160				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	800				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	120				mg/L			05/11/22 10:42	1
Chloride (SM 1030E)	950				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	190				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	1000				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	1000				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	2.8				mg/L			05/11/22 10:42	1
Anion/Cation Balance (SM 1030E)	2.6				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	2700				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	1.0				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	2800				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	7.9				mg/L			05/11/22 10:42	1
Calcium (SM 1030E (meq))	1.8				meq/L			05/11/22 10:42	1
Magnesium (SM 1030E (meq))	3.9				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	4.1				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	35				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	0.42				meq/L			05/11/22 10:42	1
Ammonia (SM 1030E (meq))	8.6				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	27				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	4.0				meq/L			05/11/22 10:42	1
Nitrate Nitrite as N (SM 1030E (meq))	0.20				meq/L			05/11/22 10:42	1
Alkalinity (SM 1030E (meq))	20				meq/L			05/11/22 10:42	1

Client Sample ID: LPOND LDS

Date Collected: 04/20/22 10:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161447-3

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3 (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity as CaCO3 (SM 1030E (meq))	20				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	950		20		mg/L			05/11/22 07:02	20
Sulfate (EPA 300.0)	190		5.0		mg/L			05/11/22 06:47	1
Ammonia as N (EPA 350.1)	120		2.2		mg/L			05/10/22 14:10	100
Total Kjeldahl Nitrogen (EPA 351.2	170		34		mg/L		04/25/22 15:21	04/27/22 17:39	1
Nitrate Nitrite as N (EPA 353.2)	2.8		0.10		mg/L			05/03/22 19:02	1
Chemical Oxygen Demand (COD) (EPA 410.4)	460		87		mg/L			05/10/22 11:26	10
Total Organic Carbon - Average (SW846 9060)	150		1.7		mg/L			05/02/22 22:18	5
Total Alkalinity (SM 2320B)	1000		10		mg/L			05/03/22 22:46	1
Bicarbonate Alkalinity (SM 2320B)	1000		10		mg/L			05/03/22 22:46	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			05/03/22 22:46	1
Hardness, as CaCO3 (SM 2340C)	300		3.0		mg/L			04/29/22 15:13	1
Total Dissolved Solids (SM 2540C)	2800		19		mg/L			04/26/22 11:39	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			04/25/22 16:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	7.3	HF	0.1		SU			05/05/22 15:18	1
Specific Conductance (SW846 9050A)	5300		2.0		umhos/cm			04/25/22 10:29	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.60				SU			04/20/22 11:30	1
Field Conductivity	2600				umhos/cm			04/20/22 11:30	1
Field Temperature	11.7				Degrees C			04/20/22 11:30	1
Field Dissolved Oxygen	2.96				mg/L			04/20/22 11:30	1
Field EH/ORP	338.3				millivolts			04/20/22 11:30	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161447-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-161447-1	TB2	94	96	89	110
280-161447-2	LEACH POND	96	97	90	112
280-161447-3	LPOND LDS	95	97	90	110
LCS 280-573649/4	Lab Control Sample	91	97	90	110
LCSD 280-573649/5	Lab Control Sample Dup	93	96	90	109
MB 280-573649/9	Method Blank	94	96	90	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-573649/9
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/22 08:59	1
1,2-Dibromoethane	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 08:59	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 08:59	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 08:59	1
2-Hexanone	ND		5.0		ug/L			05/03/22 08:59	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 08:59	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 08:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 08:59	1
Acetone	ND		10		ug/L			05/03/22 08:59	1
Benzene	ND		1.0		ug/L			05/03/22 08:59	1
Bromobenzene	ND		1.0		ug/L			05/03/22 08:59	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Bromoform	ND		1.0		ug/L			05/03/22 08:59	1
Bromomethane	ND		2.0		ug/L			05/03/22 08:59	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 08:59	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 08:59	1
Chlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
Chloroethane	ND		2.0		ug/L			05/03/22 08:59	1
Chloroform	ND		1.0		ug/L			05/03/22 08:59	1
Chloromethane	ND		2.0		ug/L			05/03/22 08:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 08:59	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Dibromomethane	ND		1.0		ug/L			05/03/22 08:59	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 08:59	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 08:59	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 08:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573649/9
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/03/22 08:59	1
Naphthalene	ND		1.0		ug/L			05/03/22 08:59	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Styrene	ND		1.0		ug/L			05/03/22 08:59	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 08:59	1
Toluene	ND		1.0		ug/L			05/03/22 08:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 08:59	1
Trichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 08:59	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 08:59	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 08:59	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 08:59*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 08:59*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 08:59*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/03/22 08:59*	*1*
Toluene-d8 (Surr)	*109*		*80 - 125*		*05/03/22 08:59*	*1*

Lab Sample ID: LCS 280-573649/4
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	23.0		ug/L		92	74 - 121
1,1,1-Trichloroethane	25.0	22.5		ug/L		90	62 - 132
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	72 - 122
1,1,2-Trichloroethane	25.0	20.2		ug/L		81	72 - 128
1,1-Dichloroethane	25.0	21.3		ug/L		85	66 - 130
1,1-Dichloroethene	25.0	20.3		ug/L		81	62 - 130
1,1-Dichloropropene	25.0	22.1		ug/L		88	64 - 133
1,2,3-Trichlorobenzene	25.0	16.4	*-	ug/L		66	70 - 127
1,2,3-Trichloropropane	25.0	20.6		ug/L		82	74 - 123
1,2,4-Trichlorobenzene	25.0	21.9		ug/L		88	73 - 124
1,2,4-Trimethylbenzene	25.0	26.0		ug/L		104	74 - 124
1,2-Dibromo-3-Chloropropane	25.0	14.3	*-	ug/L		57	58 - 122
1,2-Dibromoethane	25.0	23.4		ug/L		94	81 - 118
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	77 - 121
1,2-Dichloroethane	25.0	20.4		ug/L		82	61 - 130
1,2-Dichloropropane	25.0	20.9		ug/L		84	68 - 127
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	73 - 127
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	76 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573649/4
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichloropropane	25.0	25.0		ug/L		100	80 - 118
1,4-Dichlorobenzene	25.0	26.1		ug/L		105	76 - 119
2,2-Dichloropropane	25.0	21.6		ug/L		87	57 - 140
2-Butanone (MEK)	100	69.3		ug/L		69	53 - 135
2-Chlorotoluene	25.0	23.6		ug/L		95	75 - 123
2-Hexanone	100	85.8		ug/L		86	58 - 134
4-Chlorotoluene	25.0	23.2		ug/L		93	74 - 124
4-Isopropyltoluene	25.0	26.1		ug/L		104	74 - 127
4-Methyl-2-pentanone	100	64.9		ug/L		65	56 - 135
Acetone	100	65.6		ug/L		66	50 - 137
Benzene	25.0	23.1		ug/L		92	69 - 126
Bromobenzene	25.0	24.6		ug/L		98	75 - 122
Bromochloromethane	25.0	19.2		ug/L		77	71 - 130
Bromodichloromethane	25.0	20.6		ug/L		83	67 - 126
Bromoform	25.0	18.2		ug/L		73	57 - 125
Bromomethane	25.0	17.4		ug/L		70	25 - 163
Carbon disulfide	25.0	19.8		ug/L		79	56 - 128
Carbon tetrachloride	25.0	20.4		ug/L		82	60 - 133
Chlorobenzene	25.0	27.2		ug/L		109	78 - 118
Chloroethane	25.0	24.0		ug/L		96	52 - 144
Chloroform	25.0	22.5		ug/L		90	68 - 128
Chloromethane	25.0	17.4		ug/L		70	43 - 142
cis-1,2-Dichloroethene	25.0	21.0		ug/L		84	69 - 126
cis-1,3-Dichloropropene	25.0	21.5		ug/L		86	75 - 120
Dibromochloromethane	25.0	21.4		ug/L		86	71 - 122
Dibromomethane	25.0	19.5		ug/L		78	68 - 129
Dichlorodifluoromethane	25.0	15.3		ug/L		61	26 - 152
Ethylbenzene	25.0	24.9		ug/L		100	76 - 121
Hexachlorobutadiene	25.0	21.2		ug/L		85	69 - 133
Isopropylbenzene	25.0	26.5		ug/L		106	70 - 127
Methylene Chloride	25.0	21.7		ug/L		87	64 - 128
Naphthalene	25.0	17.3		ug/L		69	63 - 129
n-Butylbenzene	25.0	25.6		ug/L		102	69 - 130
N-Propylbenzene	25.0	23.9		ug/L		95	73 - 127
sec-Butylbenzene	25.0	23.4		ug/L		93	72 - 127
Styrene	25.0	26.1		ug/L		105	79 - 120
tert-Butylbenzene	25.0	21.9		ug/L		87	72 - 126
Tetrachloroethene	25.0	24.4		ug/L		98	72 - 127
Toluene	25.0	23.3		ug/L		93	68 - 127
trans-1,2-Dichloroethene	25.0	21.3		ug/L		85	66 - 129
trans-1,3-Dichloropropene	25.0	19.7		ug/L		79	66 - 127
Trichloroethene	25.0	26.1		ug/L		104	70 - 125
Trichlorofluoromethane	25.0	20.2		ug/L		81	57 - 144
Vinyl chloride	25.0	18.8		ug/L		75	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573649/4
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*90*		*77 - 120*
Toluene-d8 (Surr)	*110*		*80 - 125*

Lab Sample ID: LCSD 280-573649/5
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	22.9		ug/L		92	74 - 121	0	20
1,1,1-Trichloroethane			25.0	20.8		ug/L		83	62 - 132	8	20
1,1,2,2-Tetrachloroethane			25.0	23.1		ug/L		92	72 - 122	4	20
1,1,2-Trichloroethane			25.0	20.5		ug/L		82	72 - 128	2	20
1,1-Dichloroethane			25.0	20.6		ug/L		82	66 - 130	3	20
1,1-Dichloroethene			25.0	19.0		ug/L		76	62 - 130	7	21
1,1-Dichloropropene			25.0	20.7		ug/L		83	64 - 133	6	20
1,2,3-Trichlorobenzene			25.0	18.5		ug/L		74	70 - 127	12	20
1,2,3-Trichloropropane			25.0	21.4		ug/L		86	74 - 123	4	20
1,2,4-Trichlorobenzene			25.0	22.7		ug/L		91	73 - 124	4	20
1,2,4-Trimethylbenzene			25.0	25.3		ug/L		101	74 - 124	3	20
1,2-Dibromo-3-Chloropropane			25.0	15.9		ug/L		64	58 - 122	11	21
1,2-Dibromoethane			25.0	23.7		ug/L		95	81 - 118	1	20
1,2-Dichlorobenzene			25.0	25.2		ug/L		101	77 - 121	2	20
1,2-Dichloroethane			25.0	20.3		ug/L		81	61 - 130	1	20
1,2-Dichloropropane			25.0	20.7		ug/L		83	68 - 127	1	20
1,3,5-Trimethylbenzene			25.0	24.7		ug/L		99	73 - 127	4	20
1,3-Dichlorobenzene			25.0	25.0		ug/L		100	76 - 121	4	20
1,3-Dichloropropane			25.0	25.5		ug/L		102	80 - 118	2	20
1,4-Dichlorobenzene			25.0	25.3		ug/L		101	76 - 119	3	20
2,2-Dichloropropane			25.0	20.4		ug/L		82	57 - 140	6	22
2-Butanone (MEK)			100	78.2		ug/L		78	53 - 135	12	20
2-Chlorotoluene			25.0	22.5		ug/L		90	75 - 123	5	20
2-Hexanone			100	97.3		ug/L		97	58 - 134	13	21
4-Chlorotoluene			25.0	22.3		ug/L		89	74 - 124	4	20
4-Isopropyltoluene			25.0	24.9		ug/L		100	74 - 127	5	20
4-Methyl-2-pentanone			100	73.0		ug/L		73	56 - 135	12	20
Acetone			100	72.8		ug/L		73	50 - 137	10	21
Benzene			25.0	22.3		ug/L		89	69 - 126	4	20
Bromobenzene			25.0	23.9		ug/L		96	75 - 122	3	20
Bromochloromethane			25.0	19.1		ug/L		76	71 - 130	1	20
Bromodichloromethane			25.0	20.0		ug/L		80	67 - 126	3	20
Bromoform			25.0	19.0		ug/L		76	57 - 125	4	20
Bromomethane			25.0	17.5		ug/L		70	25 - 163	0	40
Carbon disulfide			25.0	18.7		ug/L		75	56 - 128	6	20
Carbon tetrachloride			25.0	19.0		ug/L		76	60 - 133	7	20
Chlorobenzene			25.0	26.7		ug/L		107	78 - 118	2	20
Chloroethane			25.0	19.8		ug/L		79	52 - 144	19	30
Chloroform			25.0	21.5		ug/L		86	68 - 128	5	20
Chloromethane			25.0	18.0		ug/L		72	43 - 142	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573649/5
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	25.0	20.6		ug/L		82	69 - 126	2	20
cis-1,3-Dichloropropene	25.0	21.3		ug/L		85	75 - 120	1	20
Dibromochloromethane	25.0	21.5		ug/L		86	71 - 122	0	20
Dibromomethane	25.0	20.2		ug/L		81	68 - 129	4	20
Dichlorodifluoromethane	25.0	15.5		ug/L		62	26 - 152	2	21
Ethylbenzene	25.0	23.9		ug/L		95	76 - 121	4	20
Hexachlorobutadiene	25.0	20.1		ug/L		80	69 - 133	6	20
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 127	5	20
Methylene Chloride	25.0	21.2		ug/L		85	64 - 128	2	20
Naphthalene	25.0	20.3		ug/L		81	63 - 129	16	21
n-Butylbenzene	25.0	24.6		ug/L		98	69 - 130	4	20
N-Propylbenzene	25.0	22.5		ug/L		90	73 - 127	6	20
sec-Butylbenzene	25.0	22.1		ug/L		88	72 - 127	6	20
Styrene	25.0	25.6		ug/L		102	79 - 120	2	20
tert-Butylbenzene	25.0	20.8		ug/L		83	72 - 126	5	20
Tetrachloroethene	25.0	22.4		ug/L		90	72 - 127	8	20
Toluene	25.0	22.3		ug/L		89	68 - 127	4	20
trans-1,2-Dichloroethene	25.0	19.7		ug/L		79	66 - 129	8	20
trans-1,3-Dichloropropene	25.0	19.7		ug/L		79	66 - 127	0	20
Trichloroethene	25.0	24.5		ug/L		98	70 - 125	6	20
Trichlorofluoromethane	25.0	19.9		ug/L		80	57 - 144	2	28
Vinyl chloride	25.0	19.4		ug/L		78	53 - 141	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*90*		*77 - 120*
Toluene-d8 (Surr)	*109*		*80 - 125*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-573691/1-A
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	ND		100		ug/L		05/04/22 10:41	05/05/22 07:26	1
Silver	ND		3.0		ug/L		05/04/22 10:41	05/05/22 07:26	1
Zinc	ND		26		ug/L		05/04/22 10:41	05/05/22 07:26	1
Molybdenum	ND		20		ug/L		05/04/22 10:41	05/05/22 07:26	1
Boron	ND		100		ug/L		05/04/22 10:41	05/05/22 07:26	1

Lab Sample ID: LCS 280-573691/2-A
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silicon	2000	2020		ug/L		101	90 - 110
Silver	50.0	50.7		ug/L		101	86 - 115

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-573691/2-A
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	500	484		ug/L		97	85 - 111
Molybdenum	1000	900		ug/L		90	90 - 110
Boron	1000	1030		ug/L		103	86 - 110

Lab Sample ID: 280-161233-C-1-B MS
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 573691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silicon	28000		2000	30600	4	ug/L		135	79 - 140
Silver	ND		50.0	55.2		ug/L		110	75 - 141
Zinc	ND		500	486		ug/L		97	60 - 137
Molybdenum	23		1000	971		ug/L		95	83 - 109
Boron	280		1000	1380		ug/L		109	87 - 113

Lab Sample ID: 280-161233-C-1-C MSD
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 573691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silicon	28000		2000	29100	4	ug/L		60	79 - 140	5	20
Silver	ND		50.0	53.2		ug/L		106	75 - 141	4	20
Zinc	ND		500	470		ug/L		94	60 - 137	3	20
Molybdenum	23		1000	949		ug/L		93	83 - 109	2	20
Boron	280		1000	1320		ug/L		104	87 - 113	4	20

Lab Sample ID: MB 280-573718/1-A
Matrix: Water
Analysis Batch: 574034

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573718

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/04/22 09:55	05/05/22 09:47	1
Iron	ND		30		ug/L		05/04/22 09:55	05/05/22 09:47	1
Magnesium	ND		200		ug/L		05/04/22 09:55	05/05/22 09:47	1
Manganese	ND		3.0		ug/L		05/04/22 09:55	05/05/22 09:47	1
Potassium	ND		500		ug/L		05/04/22 09:55	05/05/22 09:47	1
Sodium	ND		1000		ug/L		05/04/22 09:55	05/05/22 09:47	1

Lab Sample ID: LCS 280-573718/2-A
Matrix: Water
Analysis Batch: 574115

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	49400		ug/L		99	90 - 111
Iron	10000	9800		ug/L		98	89 - 115
Magnesium	50000	48500		ug/L		97	90 - 113
Manganese	1000	960		ug/L		96	90 - 110
Potassium	50000	49300		ug/L		99	89 - 114
Sodium	50000	49600		ug/L		99	90 - 115

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 280-573721/1-A
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	ND		100		ug/L		05/04/22 10:10	05/05/22 05:00	1
Silver	ND		3.0		ug/L		05/04/22 10:10	05/05/22 05:00	1
Zinc	ND		26		ug/L		05/04/22 10:10	05/05/22 05:00	1
Molybdenum	ND		20		ug/L		05/04/22 10:10	05/05/22 05:00	1
Boron	ND		100		ug/L		05/04/22 10:10	05/05/22 05:00	1

Lab Sample ID: LCS 280-573721/2-A
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silicon	2000	1980		ug/L		99	90 - 110
Silver	50.0	51.1		ug/L		102	86 - 115
Zinc	500	460		ug/L		92	85 - 111
Molybdenum	1000	957		ug/L		96	90 - 110
Boron	1000	987		ug/L		99	86 - 110

Lab Sample ID: 280-161450-A-17-C MS
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 573721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silicon	18000		2000	19900	4	ug/L		86	79 - 140
Silver	ND		50.0	52.9		ug/L		106	75 - 141
Zinc	ND		500	462		ug/L		92	60 - 137
Molybdenum	ND		1000	972		ug/L		97	83 - 109
Boron	110		1000	1140		ug/L		103	87 - 113

Lab Sample ID: 280-161450-A-17-D MSD
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 573721

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silicon	18000		2000	19900	4	ug/L		87	79 - 140	0	20
Silver	ND		50.0	52.0		ug/L		104	75 - 141	2	20
Zinc	ND		500	458		ug/L		92	60 - 137	1	20
Molybdenum	ND		1000	961		ug/L		96	83 - 109	1	20
Boron	110		1000	1120		ug/L		101	87 - 113	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-573706/1-A
Matrix: Water
Analysis Batch: 573944

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573706

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.60		ug/L		05/04/22 08:40	05/04/22 19:33	1
Arsenic	ND		1.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Barium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 19:33	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-573706/1-A
Matrix: Water
Analysis Batch: 573944

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573706

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 19:33	1
Chromium	ND		2.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Cobalt	ND		0.20		ug/L		05/04/22 08:40	05/04/22 19:33	1
Copper	ND		1.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Lead	ND		0.50		ug/L		05/04/22 08:40	05/04/22 19:33	1
Nickel	ND		1.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 19:33	1
Vanadium	ND		3.0		ug/L		05/04/22 08:40	05/04/22 19:33	1

Lab Sample ID: LCS 280-573706/2-A
Matrix: Water
Analysis Batch: 573944

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573706

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	40.0	42.9		ug/L		107	85 - 115
Arsenic	40.0	42.3		ug/L		106	85 - 117
Barium	40.0	41.1		ug/L		103	85 - 118
Beryllium	40.0	41.7		ug/L		104	80 - 125
Cadmium	40.0	41.3		ug/L		103	85 - 115
Chromium	40.0	42.8		ug/L		107	84 - 121
Cobalt	40.0	41.8		ug/L		104	85 - 120
Copper	40.0	43.1		ug/L		108	85 - 119
Lead	40.0	41.6		ug/L		104	85 - 118
Nickel	40.0	42.4		ug/L		106	85 - 119
Selenium	40.0	41.2		ug/L		103	77 - 122
Thallium	40.0	41.2		ug/L		103	85 - 118
Vanadium	40.0	42.6		ug/L		107	85 - 120

Lab Sample ID: 280-161727-J-1-E MS
Matrix: Water
Analysis Batch: 573944

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 573706

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	2.2		40.0	44.8		ug/L		107	85 - 115
Arsenic	2.6		40.0	44.3		ug/L		104	85 - 117
Barium	70		40.0	112		ug/L		106	85 - 118
Beryllium	ND		40.0	42.2		ug/L		105	80 - 125
Cadmium	ND		40.0	40.8		ug/L		102	85 - 115
Chromium	ND		40.0	42.6		ug/L		107	84 - 121
Cobalt	0.39		40.0	40.4		ug/L		100	85 - 120
Copper	ND		40.0	39.6		ug/L		99	85 - 119
Lead	ND		40.0	39.7		ug/L		99	85 - 118
Nickel	ND		40.0	40.6		ug/L		99	85 - 119
Selenium	ND		40.0	40.2		ug/L		99	77 - 122
Thallium	ND		40.0	39.1		ug/L		98	85 - 118
Vanadium	3.5		40.0	46.4		ug/L		107	85 - 120

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-161727-J-1-F MSD
Matrix: Water
Analysis Batch: 573944

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 573706

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	2.2		40.0	45.7		ug/L		109	85 - 115	2	20
Arsenic	2.6		40.0	45.0		ug/L		106	85 - 117	1	20
Barium	70		40.0	114		ug/L		110	85 - 118	1	20
Beryllium	ND		40.0	43.4		ug/L		109	80 - 125	3	20
Cadmium	ND		40.0	42.9		ug/L		107	85 - 115	5	20
Chromium	ND		40.0	41.3		ug/L		103	84 - 121	3	20
Cobalt	0.39		40.0	40.7		ug/L		101	85 - 120	1	20
Copper	ND		40.0	40.4		ug/L		101	85 - 119	2	20
Lead	ND		40.0	40.1		ug/L		100	85 - 118	1	20
Nickel	ND		40.0	39.3		ug/L		96	85 - 119	3	20
Selenium	ND		40.0	40.9		ug/L		101	77 - 122	2	20
Thallium	ND		40.0	39.6		ug/L		99	85 - 118	1	20
Vanadium	3.5		40.0	45.4		ug/L		105	85 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-580509/1-A
Matrix: Water
Analysis Batch: 580610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20		ug/L		07/11/22 20:10	07/12/22 00:22	1

Lab Sample ID: LCS 280-580509/2-A
Matrix: Water
Analysis Batch: 580610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.99		ug/L		100	84 - 120

Lab Sample ID: 160-46141-A-1-B MS
Matrix: Water
Analysis Batch: 580610

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 580509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.99		5.00	5.92		ug/L		99	75 - 125

Lab Sample ID: 160-46141-A-1-C MSD
Matrix: Water
Analysis Batch: 580610

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 580509

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.99		5.00	5.92		ug/L		99	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-574409/13
Matrix: Water
Analysis Batch: 574409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			05/10/22 15:07	1
Sulfate	ND		5.0		mg/L			05/10/22 15:07	1

Lab Sample ID: LCS 280-574409/11
Matrix: Water
Analysis Batch: 574409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	98.6		mg/L		99	90 - 110		
Sulfate			100	97.9		mg/L		98	90 - 110		

Lab Sample ID: LCSD 280-574409/12
Matrix: Water
Analysis Batch: 574409

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	98.4		mg/L		98	90 - 110	0	10
Sulfate			100	97.6		mg/L		98	90 - 110	0	10

Lab Sample ID: MRL 280-574409/10
Matrix: Water
Analysis Batch: 574409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.64		mg/L		93	50 - 150		
Sulfate			5.00	ND		mg/L		99	50 - 150		

Lab Sample ID: 280-162110-A-7 MS
Matrix: Water
Analysis Batch: 574409

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	130		50.0	186		mg/L		113	80 - 120		

Lab Sample ID: 280-162110-A-7 MS
Matrix: Water
Analysis Batch: 574409

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	180		250	449		mg/L		107	80 - 120		

Lab Sample ID: 280-162110-A-7 MSD
Matrix: Water
Analysis Batch: 574409

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	130		50.0	187		mg/L		115	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-162110-A-7 MSD
Matrix: Water
Analysis Batch: 574409

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	180		250	451		mg/L		108	80 - 120	1	20

Lab Sample ID: 280-162110-A-7 DU
Matrix: Water
Analysis Batch: 574409

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	130		129		mg/L		0.2	15

Lab Sample ID: 280-162110-A-7 DU
Matrix: Water
Analysis Batch: 574409

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	180		181		mg/L		0.2	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-574631/90
Matrix: Water
Analysis Batch: 574631

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.040		mg/L			05/10/22 13:52	1

Lab Sample ID: LCS 280-574631/88
Matrix: Water
Analysis Batch: 574631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.53		mg/L		101	90 - 110

Lab Sample ID: LCSD 280-574631/89
Matrix: Water
Analysis Batch: 574631

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	2.50	2.54		mg/L		102	90 - 110	0	10

Lab Sample ID: 280-161408-A-11 MS
Matrix: Water
Analysis Batch: 574631

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	ND		1.00	1.03		mg/L		103	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 280-161408-A-11 MSD
Matrix: Water
Analysis Batch: 574631

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.03		mg/L		103	90 - 110	0	10

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 280-572938/2-A
Matrix: Water
Analysis Batch: 573208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 572938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0		mg/L		04/25/22 15:21	04/27/22 17:36	1

Lab Sample ID: LCS 280-572938/1-A
Matrix: Water
Analysis Batch: 573208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 572938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	6.00	6.11		mg/L		102	90 - 110

Lab Sample ID: 280-161392-B-1-B MS
Matrix: Water
Analysis Batch: 573208

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 572938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	ND		3.00	2.77		mg/L		92	90 - 110

Lab Sample ID: 280-161392-B-1-C MSD
Matrix: Water
Analysis Batch: 573208

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 572938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	ND		3.00	2.81		mg/L		94	90 - 110	1	25

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-573773/60
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10		mg/L			05/03/22 17:50	1

Lab Sample ID: LCS 280-573773/59
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.00	4.97		mg/L		99	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 280-161629-B-3 MS
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	3.6		4.00	7.34		mg/L		93	90 - 110		

Lab Sample ID: 280-161629-B-3 MSD
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	3.6		4.00	7.46		mg/L		96	90 - 110	2	10

Method: 410.4 - COD

Lab Sample ID: MB 280-574418/5
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (COD)	ND		20		mg/L			05/10/22 11:26	1

Lab Sample ID: LCS 280-574418/3
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand (COD)			100	94.7		mg/L		95	90 - 110		

Lab Sample ID: LCSD 280-574418/4
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)			100	95.4		mg/L		95	90 - 110	1	11

Lab Sample ID: 280-161382-E-4 MS
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand (COD)	ND	F1	50.0	58.0	F1	mg/L		82	90 - 110		

Lab Sample ID: 280-161382-E-4 MSD
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	ND	F1	50.0	55.7	F1	mg/L		77	90 - 110	4	11

Method: 9040B - pH

Lab Sample ID: LCS 280-574080/4
Matrix: Water
Analysis Batch: 574080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH adj. to 25 deg C	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 280-161699-D-1 DU
Matrix: Water
Analysis Batch: 574080

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH adj. to 25 deg C	7.2		7.2		SU		0.3	5

Method: 9050A - Specific Conductance

Lab Sample ID: MB 280-572874/5
Matrix: Water
Analysis Batch: 572874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0		umhos/cm			04/25/22 10:28	1

Lab Sample ID: LCS 280-572874/4
Matrix: Water
Analysis Batch: 572874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1470		umhos/cm		104	90 - 110

Lab Sample ID: 280-161382-I-2 DU
Matrix: Water
Analysis Batch: 572874

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	79		78.3		umhos/cm		0.9	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-573694/4
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			05/02/22 15:25	1

Lab Sample ID: MB 280-573694/45
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			05/03/22 01:45	1

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 280-573694/3
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	24.6		mg/L		98	88 - 112

Lab Sample ID: LCS 280-573694/44
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	25.2		mg/L		101	88 - 112

Lab Sample ID: 280-161337-A-2 MS
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25		50.1	77.1		mg/L		104	88 - 112

Lab Sample ID: 280-161337-A-2 MSD
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	25		50.1	77.3		mg/L		104	88 - 112	0	15

Lab Sample ID: 280-161594-G-3 MS
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	130		125	251		mg/L		100	88 - 112

Lab Sample ID: 280-161594-G-3 MSD
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	130		125	251		mg/L		101	88 - 112	0	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-574559/11
Matrix: Water
Analysis Batch: 574559

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			05/11/22 10:42	1
Magnesium	0.000				meq/L			05/11/22 10:42	1
Potassium	0.000				meq/L			05/11/22 10:42	1
Sodium	0.000				meq/L			05/11/22 10:42	1
Iron	0.000				meq/L			05/11/22 10:42	1
Ammonia	0.000				meq/L			05/11/22 10:42	1

Method: SM 1030E (meq) - Cation Anion Balance (Continued)

Lab Sample ID: MB 280-574559/11
Matrix: Water
Analysis Batch: 574559

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.000				meq/L			05/11/22 10:42	1
Chloride	0.000				meq/L			05/11/22 10:42	1
Sulfate	0.000				meq/L			05/11/22 10:42	1
Nitrate Nitrite as N	0.000				meq/L			05/11/22 10:42	1
Nitrate/Nitrite	0.000				meq/L			05/11/22 10:42	1
Alkalinity	0.000				meq/L			05/11/22 10:42	1
Total Alkalinity	0.000				meq/L			05/11/22 10:42	1
Carbonate Alkalinity	0.000				meq/L			05/11/22 10:42	1
Carbonate Alkalinity as CaCO3	0.000				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity	0.000				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity as CaCO3	0.000				meq/L			05/11/22 10:42	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-573792/58
Matrix: Water
Analysis Batch: 573792

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		10		mg/L			05/03/22 18:49	1
Bicarbonate Alkalinity	ND		10		mg/L			05/03/22 18:49	1
Carbonate Alkalinity	ND		10		mg/L			05/03/22 18:49	1

Lab Sample ID: LCS 280-573792/57
Matrix: Water
Analysis Batch: 573792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	205		mg/L		102	89 - 109		

Lab Sample ID: 280-161418-A-2 DU
Matrix: Water
Analysis Batch: 573792

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	130			125		mg/L				0.9	10
Bicarbonate Alkalinity	130			125		mg/L				0.9	20
Carbonate Alkalinity	ND			ND		mg/L				NC	20

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 280-573438/3
Matrix: Water
Analysis Batch: 573438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness, as CaCO3	ND		3.0		mg/L			04/29/22 15:13	1

Method: SM 2340C - Hardness, Total (mg/l as CaC03) (Continued)

Lab Sample ID: LCS 280-573438/1
Matrix: Water
Analysis Batch: 573438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hardness, as CaCO3	398	396		mg/L		99	90 - 110

Lab Sample ID: LCSD 280-573438/2
Matrix: Water
Analysis Batch: 573438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hardness, as CaCO3	398	402		mg/L		101	90 - 110	2	10

Lab Sample ID: 280-161493-A-3 MS
Matrix: Water
Analysis Batch: 573438

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hardness, as CaCO3	230		398	645		mg/L		104	90 - 110

Lab Sample ID: 280-161493-A-3 MSD
Matrix: Water
Analysis Batch: 573438

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hardness, as CaCO3	230		398	632		mg/L		101	90 - 110	2	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-573020/1
Matrix: Water
Analysis Batch: 573020

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/26/22 10:38	1

Lab Sample ID: LCS 280-573020/2
Matrix: Water
Analysis Batch: 573020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	502	490		mg/L		98	88 - 114

Lab Sample ID: 280-161314-A-4 DU
Matrix: Water
Analysis Batch: 573020

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1050		mg/L		1	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-572941/3
Matrix: Water
Analysis Batch: 572941

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			04/25/22 16:08	1

Lab Sample ID: LCS 280-572941/1
Matrix: Water
Analysis Batch: 572941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	107		mg/L		107	79 - 114		

Lab Sample ID: LCSD 280-572941/2
Matrix: Water
Analysis Batch: 572941

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids			100	91.2		mg/L		91	79 - 114	16	20

Lab Sample ID: 280-161376-A-1 DU
Matrix: Water
Analysis Batch: 572941

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	22			20.8		mg/L				6	10

GC/MS VOA

Analysis Batch: 573649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-1	TB2	Total/NA	Water	8260B	
280-161447-2	LEACH POND	Total/NA	Water	8260B	
280-161447-3	LPOND LDS	Total/NA	Water	8260B	
MB 280-573649/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573649/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573649/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 573691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total Recoverable	Water	3005A	
MB 280-573691/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573691/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161233-C-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
280-161233-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 573706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total Recoverable	Water	3005A	
280-161447-3	LPOND LDS	Total Recoverable	Water	3005A	
MB 280-573706/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573706/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161727-J-1-E MS	Matrix Spike	Dissolved	Water	3005A	
280-161727-J-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 573718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Dissolved	Water	3005A	
280-161447-3	LPOND LDS	Dissolved	Water	3005A	
MB 280-573718/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573718/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 573721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-3	LPOND LDS	Total Recoverable	Water	3005A	
MB 280-573721/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573721/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161450-A-17-C MS	Matrix Spike	Total Recoverable	Water	3005A	
280-161450-A-17-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 573944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total Recoverable	Water	6020	573706
280-161447-3	LPOND LDS	Total Recoverable	Water	6020	573706
MB 280-573706/1-A	Method Blank	Total Recoverable	Water	6020	573706
LCS 280-573706/2-A	Lab Control Sample	Total Recoverable	Water	6020	573706
280-161727-J-1-E MS	Matrix Spike	Dissolved	Water	6020	573706
280-161727-J-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	6020	573706

Metals

Analysis Batch: 574011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total Recoverable	Water	6010B	573691
280-161447-3	LPOND LDS	Total Recoverable	Water	6010B	573721
MB 280-573691/1-A	Method Blank	Total Recoverable	Water	6010B	573691
MB 280-573721/1-A	Method Blank	Total Recoverable	Water	6010B	573721
LCS 280-573691/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573691
LCS 280-573721/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573721
280-161233-C-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	573691
280-161233-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	573691
280-161450-A-17-C MS	Matrix Spike	Total Recoverable	Water	6010B	573721
280-161450-A-17-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	573721

Analysis Batch: 574034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Dissolved	Water	6010B	573718
280-161447-3	LPOND LDS	Dissolved	Water	6010B	573718
MB 280-573718/1-A	Method Blank	Total Recoverable	Water	6010B	573718

Analysis Batch: 574115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-573718/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573718

Prep Batch: 580509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	7470A	
280-161447-3	LPOND LDS	Total/NA	Water	7470A	
MB 280-580509/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-580509/2-A	Lab Control Sample	Total/NA	Water	7470A	
160-46141-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
160-46141-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 580610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	7470A	580509
280-161447-3	LPOND LDS	Total/NA	Water	7470A	580509
MB 280-580509/1-A	Method Blank	Total/NA	Water	7470A	580509
LCS 280-580509/2-A	Lab Control Sample	Total/NA	Water	7470A	580509
160-46141-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	580509
160-46141-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	580509

General Chemistry

Analysis Batch: 572874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	9050A	
280-161447-3	LPOND LDS	Total/NA	Water	9050A	
MB 280-572874/5	Method Blank	Total/NA	Water	9050A	
LCS 280-572874/4	Lab Control Sample	Total/NA	Water	9050A	
280-161382-I-2 DU	Duplicate	Total/NA	Water	9050A	

General Chemistry

Prep Batch: 572938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	351.2	
280-161447-3	LPOND LDS	Total/NA	Water	351.2	
MB 280-572938/2-A	Method Blank	Total/NA	Water	351.2	
LCS 280-572938/1-A	Lab Control Sample	Total/NA	Water	351.2	
280-161392-B-1-B MS	Matrix Spike	Total/NA	Water	351.2	
280-161392-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	

Analysis Batch: 572941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	SM 2540D	
280-161447-3	LPOND LDS	Total/NA	Water	SM 2540D	
MB 280-572941/3	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-572941/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-572941/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
280-161376-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 573020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	SM 2540C	
280-161447-3	LPOND LDS	Total/NA	Water	SM 2540C	
MB 280-573020/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-573020/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-161314-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 573208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	351.2	572938
280-161447-3	LPOND LDS	Total/NA	Water	351.2	572938
MB 280-572938/2-A	Method Blank	Total/NA	Water	351.2	572938
LCS 280-572938/1-A	Lab Control Sample	Total/NA	Water	351.2	572938
280-161392-B-1-B MS	Matrix Spike	Total/NA	Water	351.2	572938
280-161392-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	572938

Analysis Batch: 573438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	SM 2340C	
280-161447-3	LPOND LDS	Total/NA	Water	SM 2340C	
MB 280-573438/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 280-573438/1	Lab Control Sample	Total/NA	Water	SM 2340C	
LCSD 280-573438/2	Lab Control Sample Dup	Total/NA	Water	SM 2340C	
280-161493-A-3 MS	Matrix Spike	Total/NA	Water	SM 2340C	
280-161493-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 2340C	

Analysis Batch: 573694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	9060	
280-161447-3	LPOND LDS	Total/NA	Water	9060	
MB 280-573694/4	Method Blank	Total/NA	Water	9060	
MB 280-573694/45	Method Blank	Total/NA	Water	9060	
LCS 280-573694/3	Lab Control Sample	Total/NA	Water	9060	
LCS 280-573694/44	Lab Control Sample	Total/NA	Water	9060	

General Chemistry (Continued)

Analysis Batch: 573694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161337-A-2 MS	Matrix Spike	Total/NA	Water	9060	
280-161337-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	
280-161594-G-3 MS	Matrix Spike	Total/NA	Water	9060	
280-161594-G-3 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 573773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	353.2	
280-161447-3	LPOND LDS	Total/NA	Water	353.2	
MB 280-573773/60	Method Blank	Total/NA	Water	353.2	
LCS 280-573773/59	Lab Control Sample	Total/NA	Water	353.2	
280-161629-B-3 MS	Matrix Spike	Total/NA	Water	353.2	
280-161629-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 573792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	SM 2320B	
280-161447-3	LPOND LDS	Total/NA	Water	SM 2320B	
MB 280-573792/58	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-573792/57	Lab Control Sample	Total/NA	Water	SM 2320B	
280-161418-A-2 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 574080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	9040B	
280-161447-3	LPOND LDS	Total/NA	Water	9040B	
LCS 280-574080/4	Lab Control Sample	Total/NA	Water	9040B	
280-161699-D-1 DU	Duplicate	Total/NA	Water	9040B	

Analysis Batch: 574409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	300.0	
280-161447-2	LEACH POND	Total/NA	Water	300.0	
280-161447-3	LPOND LDS	Total/NA	Water	300.0	
280-161447-3	LPOND LDS	Total/NA	Water	300.0	
MB 280-574409/13	Method Blank	Total/NA	Water	300.0	
LCS 280-574409/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-574409/12	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-574409/10	Lab Control Sample	Total/NA	Water	300.0	
280-162110-A-7 MS	Matrix Spike	Total/NA	Water	300.0	
280-162110-A-7 MS	Matrix Spike	Total/NA	Water	300.0	
280-162110-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-162110-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-162110-A-7 DU	Duplicate	Total/NA	Water	300.0	
280-162110-A-7 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 574418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	410.4	
280-161447-3	LPOND LDS	Total/NA	Water	410.4	
MB 280-574418/5	Method Blank	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 574418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-574418/3	Lab Control Sample	Total/NA	Water	410.4	
LCSD 280-574418/4	Lab Control Sample Dup	Total/NA	Water	410.4	
280-161382-E-4 MS	Matrix Spike	Total/NA	Water	410.4	
280-161382-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Analysis Batch: 574559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	SM 1030E	
280-161447-2	LEACH POND	Total/NA	Water	SM 1030E (meq)	
280-161447-3	LPOND LDS	Total/NA	Water	SM 1030E	
280-161447-3	LPOND LDS	Total/NA	Water	SM 1030E (meq)	
MB 280-574559/11	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 574631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	350.1	
280-161447-3	LPOND LDS	Total/NA	Water	350.1	
MB 280-574631/90	Method Blank	Total/NA	Water	350.1	
LCS 280-574631/88	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-574631/89	Lab Control Sample Dup	Total/NA	Water	350.1	
280-161408-A-11 MS	Matrix Spike	Total/NA	Water	350.1	
280-161408-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Field Service / Mobile Lab

Analysis Batch: 572963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161447-2	LEACH POND	Total/NA	Water	Field Sampling	
280-161447-3	LPOND LDS	Total/NA	Water	Field Sampling	

Client Sample ID: TB2
Lab Sample ID: 280-161447-1
Date Collected: 04/20/22 07:00
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573649	05/03/22 10:24	TAW	EET DEN

Client Sample ID: LEACH POND
Lab Sample ID: 280-161447-2
Date Collected: 04/20/22 09:45
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	573649	05/03/22 16:50	TAW	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 11:19	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573691	05/04/22 10:41	KMS	EET DEN
Total Recoverable	Analysis	6010B		5			574011	05/05/22 09:26	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			573944	05/04/22 21:38	LMT	EET DEN
Total/NA	Prep	7470A			30 mL	50 mL	580509	07/11/22 20:10	CEH	EET DEN
Total/NA	Analysis	7470A		1			580610	07/12/22 00:55	CEH	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	574409	05/11/22 06:17	CJ	EET DEN
Total/NA	Analysis	300.0		20	5 mL	5 mL	574409	05/11/22 06:32	CJ	EET DEN
Total/NA	Analysis	350.1		200	10 mL	10 mL	574631	05/10/22 14:08	MMP	EET DEN
Total/NA	Prep	351.2			0.5 mL	25 mL	572938	04/25/22 15:21	SVC	EET DEN
Total/NA	Analysis	351.2		1			573208	04/27/22 17:39	SVC	EET DEN
Total/NA	Analysis	353.2		50	100 mL	100 mL	573773	05/03/22 19:00	SVC	EET DEN
Total/NA	Analysis	410.4		20	2 mL	2 mL	574418	05/10/22 11:26	SJD	EET DEN
Total/NA	Analysis	9040B		1			574080	05/05/22 15:14	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:29	KEG	EET DEN
Total/NA	Analysis	9060		10	20 mL	20 mL	573694	05/02/22 22:04	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 22:32	KEG	EET DEN
Total/NA	Analysis	SM 2340C		2	25 mL	25 mL	573438	04/29/22 15:13	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	573020	04/26/22 11:39	LRB	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	572941	04/25/22 16:08	SVC	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/20/22 10:45	TJ	EET DEN

Client Sample ID: LPOND LDS
Lab Sample ID: 280-161447-3
Date Collected: 04/20/22 10:30
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	573649	05/03/22 17:11	TAW	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 11:23	LMT	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-161447-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: LPOND LDS
Lab Sample ID: 280-161447-3
Date Collected: 04/20/22 10:30
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	573721	05/04/22 10:10	KMS	EET DEN
Total Recoverable	Analysis	6010B		1			574011	05/05/22 05:08	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			573944	05/04/22 21:41	LMT	EET DEN
Total/NA	Prep	7470A			30 mL	50 mL	580509	07/11/22 20:10	CEH	EET DEN
Total/NA	Analysis	7470A		1			580610	07/12/22 00:57	CEH	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	574409	05/11/22 06:47	CJ	EET DEN
Total/NA	Analysis	300.0		20	5 mL	5 mL	574409	05/11/22 07:02	CJ	EET DEN
Total/NA	Analysis	350.1		100	10 mL	10 mL	574631	05/10/22 14:10	MMP	EET DEN
Total/NA	Prep	351.2			0.5 mL	25 mL	572938	04/25/22 15:21	SVC	EET DEN
Total/NA	Analysis	351.2		1			573208	04/27/22 17:39	SVC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 19:02	SVC	EET DEN
Total/NA	Analysis	410.4		10	2 mL	2 mL	574418	05/10/22 11:26	SJD	EET DEN
Total/NA	Analysis	9040B		1			574080	05/05/22 15:18	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:29	KEG	EET DEN
Total/NA	Analysis	9060		5	20 mL	20 mL	573694	05/02/22 22:18	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 22:46	KEG	EET DEN
Total/NA	Analysis	SM 2340C		1	25 mL	25 mL	573438	04/29/22 15:13	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	573020	04/26/22 11:39	LRB	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	572941	04/25/22 16:08	SVC	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/20/22 11:30	TJ	EET DEN

Laboratory References:
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Jan Hubbquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16516-869.1
Client Contact:	Phone: (503) 716 6320	E-Mail: Betsy.Sara@Eurofinset.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers Event Desc: Semiannual Leachate Lagoon - Apr Nov	Project #: 28002786			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alks/EC/pH/Cl/SO4	Hardness/Total Metals	Ammonia/COD/TKN/TOC/NOXT	8260B	TSS	Dissolved Metals	Cation/Anion Balance	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	N	D			
TB2	4/20/22	0700	G	W						X				2	Short Holds: pH
Leach Pond	4/20/22	0945	G	W	X		X	X	X	X	X	X	X	9	
L Pond LDS	4/20/22	1030	G	W	X		X	X	X	X	X	X	X	9	

280-161447 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	4/22/22 @ 1630	SCS	Received by:	4/23/22 1115	EA/DGR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: 1584159 1983843

Cooler Temperature(s) °C and Other Remarks: 2.6, 0.6 IR12 CF+0.1

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** Leach Pond
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	(S)	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	(°F) 48.0	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
4/20/22	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.	.	X 3	.

Gal/ft = (dia./2)^2 x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	09:45	G	3	(40 ml)	(HCl)	~~YES~~	~~NO~~		
VOA Glass	/ /	:			40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/20/22	09:45	G	2	250, 500, (1L)	None	(YES)	(NO)	NA	
Yellow Glass	4/20/22	09:45	G	2	250, (500) 1L	(H_2SO_4)	(YES)	(NO)		
Red Total Poly	4/20/22	9:45	G	1	125, 250, (500)	(HNO_3)	(YES)	(NO)		
Red Diss. Poly	4/20/22	9:45	G	1	250, (500) 1L	(HNO_3)	(YES)	(YES)		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 7 Total Bottles (include duplicate count)

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	(G) 945	0.00	6.23	273	8237	10.0	-	2.95	DARK Brown
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected from base of truck hauler tree.

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** L Pond LDS
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		**TEMPERATURE:**	(°F) 48.0	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	.	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	10 : 30	A	3	40 ml HCl	YES	NO		
VOA Glass	/ /	:			40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	4/20/22	10 : 30	A	2	250, 500, 1L None	YES	NO	NA	
Yellow Glass	4/20/22	10 : 30	A	2	250, 500, 1L H_2SO_4	YES	NO		
Red Total Poly	4/20/22	10 : 30	A	1	125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	4/20/22	10 : 30	A	1	250, 500, 1L HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 9 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

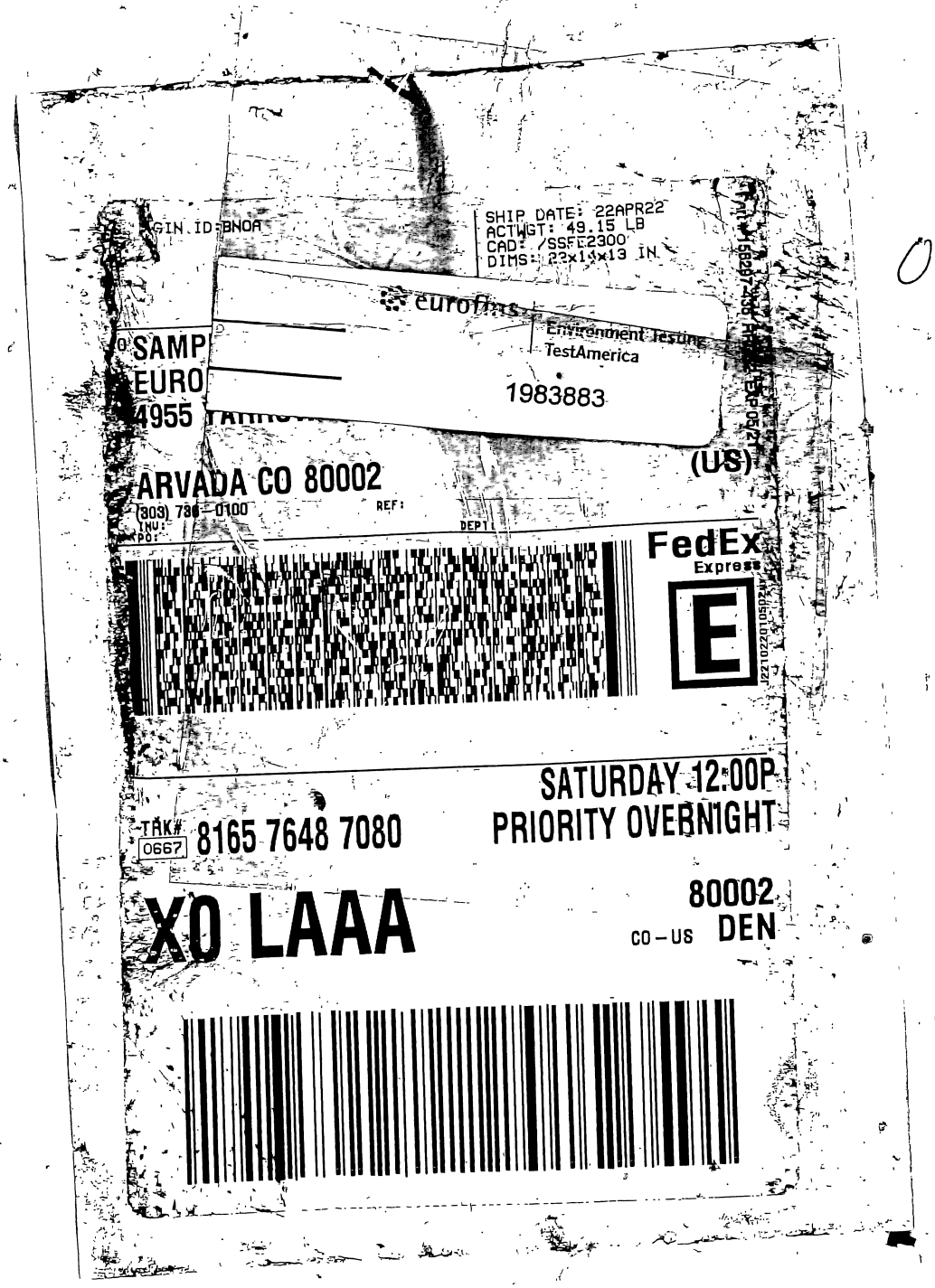
Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	A(1030)	0.00	7.60	338.3	2600	11.7	~	2.96	
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

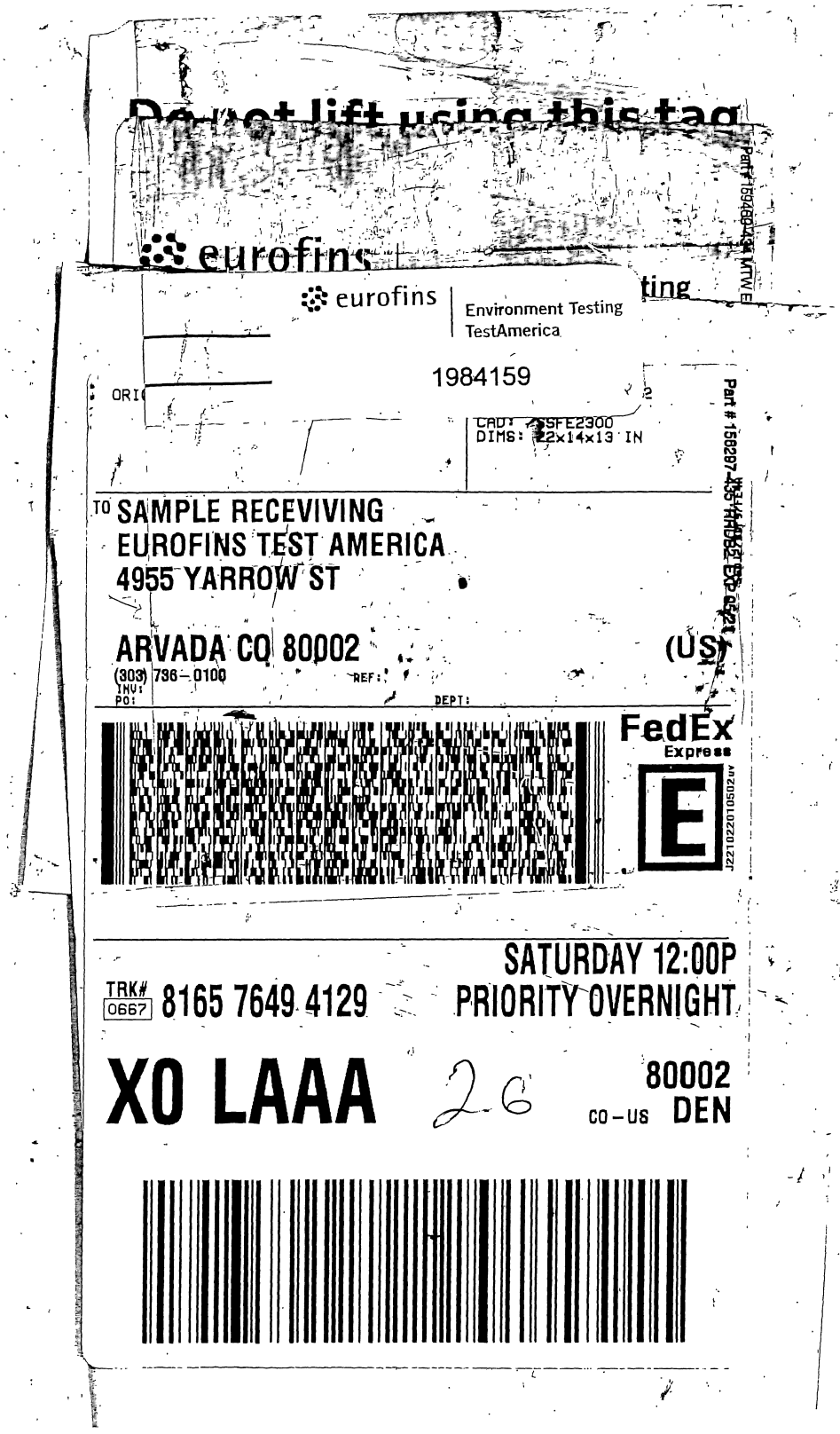
[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Liquid level lead

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

280-161447 Waybill

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4955 YARROW ST
ARVADA CO 80002
(US)
(303) 736-0100
FedEx
Express
SATURDAY 12:00P
TRK# 0667 8165 7649 4129
PRIORITY OVERNIGHT
XO LAAA
80002
CO-US DEN

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** L Pond LDS

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	NE	E	SE	(S)	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	(°F) 48.0 °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" =	0.041	2" =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS. (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	10 : 30	A	3	(40 ml)	(HCl)	(YES)	(NO)		
VOA Glass	/ /	:			40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/20/22	10 : 30	A	2	250, 500, (1L)	(None)	(YES)	(NO)	NA	
Yellow Glass	4/20/22	10 : 30	A	2	250, (500) 1L	(H_2SO_4)	(YES)	(NO)		
Red Total Poly	4/20/22	10 : 30	A	1	125, 250, (500)	(HNO_3)	(YES)	(NO)		
Red Diss. Poly	4/20/22	10 : 30	A	1	250, (500) 1L	(HNO_3)	(YES)	(YES)		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 9 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	A(1030)	0.00	7.60	336.3	2600	11.7	~	2.96	
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Liquid level 10.2 ft

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** Leach Pond
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	(S)	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	(RAIN)		?				**TEMPERATURE:**	(°F) 48.0	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
4/20/22	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	09:45	G	3	(40 ml)	HCl	(YES)	(NO)		
VOA Glass	/ /	:			40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/20/22	09:45	G	2	250, 500, (1L)	None	(YES)	(NO)	NA	
Yellow Glass	4/20/22	09:45	G	2	250, (500) 1L	(H_2SO_4)	(YES)	(NO)		
Red Total Poly	4/20/22	9:45	G	1	125, 250, (500)	(HNO_3)	(YES)	(NO)		
Red Diss. Poly	4/20/22	9:45	G	1	250, (500) 1L	(HNO_3)	(YES)	(YES)		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 | 4 | Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	(E-0945)	0.00	6.23	273	8237	10.0	-	2.95	DARK Brown
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected from base of truck hauler tree.

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161447-1

Login Number: 161447
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

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JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
LF Module Sumps - Apr

JOB NUMBER

280-161446-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

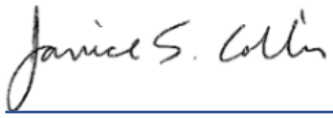
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-161446-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-161446-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-161446-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 04/23/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 0.5°C, 0.7°C, 1.0°C, 2.7°C and 3.0°C

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FB2 (280-161446-4). The container labels list the sample collection time as 1245, while the COC lists 1240. The sample was logged per the COC.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 8P (280-161446-8). The container labels list the sample collection time as 0945, while the COC lists 0915. The sample was logged per the COC.

Holding Times

The analysis for pH should be performed in the field immediately following sampling, and therefore the laboratory pH result was flagged with an "HF" flag.

All other holding times were met.

Method Blanks

All Method Blanks met method criteria.

Laboratory Control Samples (LCS)

The Method 8260B analytes 1,2,3-Trichloropropane and 1,2-Dibromo-3-Chloropropane recovered outside control limits for the LCS associated with analytical batch 280-573649. This is not indicative of a systematic control problem because these were random marginal exceedances. Therefore, the results have been reported.

All other Laboratory Control Sample recoveries were within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) for Method 8260B (Batch 573649), however, an LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

Job ID: 280-161446-1 (Continued)

Laboratory: Eurofins Denver (Continued)

The percent recoveries and/or relative percent difference of the MS/MSD performed on a sample from another client were outside control limits for Dissolved Sodium Method 6010B because the sample concentration was greater than four times the spike amount. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, no corrective action was taken.

The Matrix Spikes and Matrix Spike Duplicates performed on samples from other clients exhibited recoveries outside control limits for Nitrate/Nitrite Method 353.2 and Chemical Oxygen Demand (COD) Method 410.4. Because the corresponding Laboratory Control Samples and the Method Blank samples were within control limits, these anomalies may be due to matrix interference and no corrective action was taken.

All other MS and MSD results were within established control limits.

Sample Duplicate

The RPD for pH performed on a sample from another was outside control limits. Because all other QC and calibration criteria were met no corrective action was needed.

Organics

The samples 1/5P, 6/7P ,8P and 9P were analyzed at a dilution for Method 8260B due to a high concentration of target compounds and/or matrix. As a result, the reporting limits were elevated.

The prepreserved hydrochloric acid preserved vials for Method 8260B analysis for the samples 6/7S, 8P, 9P and 9S exhibited pH values greater than 2. This is non-compliant with Method 8260B which requires samples to be preserved with hydrochloric acid to a pH of less than 2.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Client Sample ID: TB2 — Lab Sample ID: 280-161446-1

No Detections.

Client Sample ID: 1/5P — Lab Sample ID: 280-161446-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	8.5		1.0		ug/L	5		8260B	Total/NA
Silicon	25000		100		ug/L	1		6010B	Total Recoverable
Zinc	42		26		ug/L	1		6010B	Total Recoverable
Calcium	80000		500		ug/L	1		6010B	Dissolved
Iron	2800		30		ug/L	1		6010B	Dissolved
Magnesium	87000		200		ug/L	1		6010B	Dissolved
Manganese	820		3.0		ug/L	1		6010B	Dissolved
Potassium	260000		500		ug/L	1		6010B	Dissolved
Sodium	1100000	F1	1000		ug/L	1		6010B	Dissolved
Antimony	2.0		0.60		ug/L	1		6020	Total Recoverable
Arsenic	51		1.0		ug/L	1		6020	Total Recoverable
Barium	360		1.0		ug/L	1		6020	Total Recoverable
Chromium	43		2.0		ug/L	1		6020	Total Recoverable
Cobalt	16		0.20		ug/L	1		6020	Total Recoverable
Copper	12		1.0		ug/L	1		6020	Total Recoverable
Lead	1.1		0.50		ug/L	1		6020	Total Recoverable
Nickel	50		1.0		ug/L	1		6020	Total Recoverable
Vanadium	51		3.0		ug/L	1		6020	Total Recoverable
Chloride	1200		20		mg/L	20		300.0	Total/NA
Sulfate	16		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	480		2.2		mg/L	100		350.1	Total/NA
Nitrate/Nitrite	0.12		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand (COD)	990		170		mg/L	20		410.4	Total/NA
pH adj. to 25 deg C	7.6	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	8300		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	280		3.5		mg/L	10		9060	Total/NA
Total Anions	82				meq/L	1		SM 1030E	Total/NA
Total Cations	100				meq/L	1		SM 1030E	Total/NA
Percent Difference	9.8				%	1		SM 1030E	Total/NA
Calcium	80				mg/L	1		SM 1030E	Total/NA
Magnesium	87				mg/L	1		SM 1030E	Total/NA
Potassium	260				mg/L	1		SM 1030E	Total/NA
Sodium	1100				mg/L	1		SM 1030E	Total/NA
Ammonia as N	480				mg/L	1		SM 1030E	Total/NA
Chloride	1200				mg/L	1		SM 1030E	Total/NA
Sulfate	16				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	2400				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	2400				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1/5P (Continued)

Lab Sample ID: 280-161446-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Nitrate/Nitrite	0.12				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	9.8				%	1		SM 1030E	Total/NA
Calculated TDS	4600				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.75				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	3500				mg/L	1		SM 1030E	Total/NA
Iron	2.8				mg/L	1		SM 1030E	Total/NA
Calcium	4.0				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	7.2				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	6.6				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	48				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	34				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	34				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.33				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	48				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	48				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.0086				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.15				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	2400		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	2400		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	570		3.0		mg/L	2		SM 2340C	Total/NA
Total Dissolved Solids	3500		19		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	9.2		4.0		mg/L	1		SM 2540D	Total/NA
Field pH	7.24				SU	1		Field Sampling	Total/NA
Field Conductivity	7524				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	20.1				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.74				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	75.2				millivolts	1		Field Sampling	Total/NA

Client Sample ID: 4/5S

Lab Sample ID: 280-161446-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silicon	29000		100		ug/L	1		6010B	Total Recoverable
Calcium	120000		500		ug/L	1		6010B	Dissolved
Iron	6700		30		ug/L	1		6010B	Dissolved
Magnesium	53000		200		ug/L	1		6010B	Dissolved
Manganese	7400		3.0		ug/L	1		6010B	Dissolved
Potassium	7200		500		ug/L	1		6010B	Dissolved
Sodium	84000		1000		ug/L	1		6010B	Dissolved
Antimony	0.95		0.60		ug/L	1		6020	Total Recoverable
Arsenic	25		1.0		ug/L	1		6020	Total Recoverable
Barium	250		1.0		ug/L	1		6020	Total Recoverable
Cobalt	1.1		0.20		ug/L	1		6020	Total Recoverable
Nickel	3.7		1.0		ug/L	1		6020	Total Recoverable
Chloride	68		3.0		mg/L	1		300.0	Total/NA
Ammonia as N	35		0.22		mg/L	10		350.1	Total/NA
Chemical Oxygen Demand (COD)	48		20		mg/L	1		410.4	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Job ID: 280-161446-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: 4/5S (Continued) — Lab Sample ID: 280-161446-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH adj. to 25 deg C	7.0	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	1600		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	13		1.0		mg/L	1		9060	Total/NA
Total Anions	17				meq/L	1		SM 1030E	Total/NA
Total Cations	17				meq/L	1		SM 1030E	Total/NA
Percent Difference	1.6				%	1		SM 1030E	Total/NA
Calcium	120				mg/L	1		SM 1030E	Total/NA
Magnesium	53				mg/L	1		SM 1030E	Total/NA
Potassium	7.2				mg/L	1		SM 1030E	Total/NA
Sodium	84				mg/L	1		SM 1030E	Total/NA
Ammonia as N	35				mg/L	1		SM 1030E	Total/NA
Chloride	68				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	730				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	730				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	1.6				%	1		SM 1030E	Total/NA
Calculated TDS	810				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.96				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	780				mg/L	1		SM 1030E	Total/NA
Iron	6.7				mg/L	1		SM 1030E	Total/NA
Calcium	6.0				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	4.4				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.18				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	3.7				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	2.5				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	1.9				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	15				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	15				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.36				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	730		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	730		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	540		3.0		mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	780		10		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	15		4.0		mg/L	1		SM 2540D	Total/NA
Field pH	6.44				SU	1		Field Sampling	Total/NA
Field Conductivity	1552				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	27.6				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.76				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	3.7				millivolts	1		Field Sampling	Total/NA

Client Sample ID: FB2 — Lab Sample ID: 280-161446-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH adj. to 25 deg C	8.4	HF	0.1		SU	1		9040B	Total/NA
Total Anions	0.00				meq/L	1		SM 1030E	Total/NA
Total Cations	0.00				meq/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: FB2 (Continued)

Lab Sample ID: 280-161446-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Percent Difference	NC				%	1		SM 1030E	Total/NA
Calcium	0.00				mg/L	1		SM 1030E	Total/NA
Magnesium	0.00				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	0.00				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	0.00				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	NC				%	1		SM 1030E	Total/NA
Calculated TDS	0.00				mg/L	1		SM 1030E	Total/NA
TDS Ratio	NC				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	0.00				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA

Client Sample ID: 6/7P

Lab Sample ID: 280-161446-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.5		1.0		ug/L	5		8260B	Total/NA
2-Butanone (MEK)	840		10		ug/L	5		8260B	Total/NA
4-Isopropyltoluene	2.7		1.0		ug/L	5		8260B	Total/NA
4-Methyl-2-pentanone	160		5.0		ug/L	5		8260B	Total/NA
Acetone	1100		10		ug/L	5		8260B	Total/NA
Benzene	12		1.0		ug/L	5		8260B	Total/NA
Ethylbenzene	7.6		1.0		ug/L	5		8260B	Total/NA
Naphthalene	22		1.1		ug/L	5		8260B	Total/NA
Toluene	18		1.0		ug/L	5		8260B	Total/NA
Xylenes (total)	20		2.0		ug/L	5		8260B	Total/NA
Silicon	20000		100		ug/L	1		6010B	Total Recoverable
Calcium	91000		500		ug/L	1		6010B	Dissolved
Iron	6400		30		ug/L	1		6010B	Dissolved
Magnesium	69000		200		ug/L	1		6010B	Dissolved
Manganese	3300		3.0		ug/L	1		6010B	Dissolved
Potassium	59000		500		ug/L	1		6010B	Dissolved
Sodium	360000		1000		ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Client Sample ID: 6/7P (Continued)

Lab Sample ID: 280-161446-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	64		0.60		ug/L	1		6020	Total Recoverable
Arsenic	310		1.0		ug/L	1		6020	Total Recoverable
Barium	710		1.0		ug/L	1		6020	Total Recoverable
Chromium	34		2.0		ug/L	1		6020	Total Recoverable
Cobalt	22		0.20		ug/L	1		6020	Total Recoverable
Nickel	68		1.0		ug/L	1		6020	Total Recoverable
Vanadium	39		3.0		ug/L	1		6020	Total Recoverable
Chloride	890		100		mg/L	100		300.0	Total/NA
Ammonia as N	1100		5.5		mg/L	250		350.1	Total/NA
Chemical Oxygen Demand (COD)	1100		170		mg/L	20		410.4	Total/NA
pH adj. to 25 deg C	7.7	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	11000		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	260		3.5		mg/L	10		9060	Total/NA
Total Anions	110				meq/L	1		SM 1030E	Total/NA
Total Cations	110				meq/L	1		SM 1030E	Total/NA
Percent Difference	-2.2				%	1		SM 1030E	Total/NA
Calcium	91				mg/L	1		SM 1030E	Total/NA
Magnesium	69				mg/L	1		SM 1030E	Total/NA
Potassium	59				mg/L	1		SM 1030E	Total/NA
Sodium	360				mg/L	1		SM 1030E	Total/NA
Ammonia as N	1100				mg/L	1		SM 1030E	Total/NA
Chloride	890				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	4300				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	4300				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-2.2				%	1		SM 1030E	Total/NA
Calculated TDS	5200				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.56				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	2900				mg/L	1		SM 1030E	Total/NA
Iron	6.4				mg/L	1		SM 1030E	Total/NA
Calcium	4.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	5.7				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	16				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	79				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	25				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	86				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	86				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.34				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	4300	H	10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	4300	H	10		mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 6/7P (Continued)

Lab Sample ID: 280-161446-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hardness, as CaCO3	940		3.0		mg/L	5		SM 2340C	Total/NA
Total Dissolved Solids	2900		19		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	39		4.0		mg/L	1		SM 2540D	Total/NA
Field pH	7.32				SU	1		Field Sampling	Total/NA
Field Conductivity	11177				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	21.6				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.12				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-20.9				millivolts	1		Field Sampling	Total/NA

Client Sample ID: 6/7S

Lab Sample ID: 280-161446-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silicon	25000		100		ug/L	1		6010B	Total Recoverable
Calcium	230000		500		ug/L	1		6010B	Dissolved
Iron	10000		30		ug/L	1		6010B	Dissolved
Magnesium	140000		200		ug/L	1		6010B	Dissolved
Manganese	9900		3.0		ug/L	1		6010B	Dissolved
Potassium	35000		500		ug/L	1		6010B	Dissolved
Sodium	450000		1000		ug/L	1		6010B	Dissolved
Antimony	1.3		0.60		ug/L	1		6020	Total Recoverable
Arsenic	31		1.0		ug/L	1		6020	Total Recoverable
Barium	590		1.0		ug/L	1		6020	Total Recoverable
Chromium	6.9		2.0		ug/L	1		6020	Total Recoverable
Cobalt	6.1		0.20		ug/L	1		6020	Total Recoverable
Nickel	55		1.0		ug/L	1		6020	Total Recoverable
Vanadium	9.7		3.0		ug/L	1		6020	Total Recoverable
Chloride	700		20		mg/L	20		300.0	Total/NA
Ammonia as N	49		0.22		mg/L	10		350.1	Total/NA
Chemical Oxygen Demand (COD)	300		43		mg/L	5		410.4	Total/NA
pH adj. to 25 deg C	7.1	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	4200		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	77		1.7		mg/L	5		9060	Total/NA
Total Anions	46				meq/L	1		SM 1030E	Total/NA
Total Cations	48				meq/L	1		SM 1030E	Total/NA
Percent Difference	1.9				%	1		SM 1030E	Total/NA
Calcium	230				mg/L	1		SM 1030E	Total/NA
Magnesium	140				mg/L	1		SM 1030E	Total/NA
Potassium	35				mg/L	1		SM 1030E	Total/NA
Sodium	450				mg/L	1		SM 1030E	Total/NA
Ammonia as N	49				mg/L	1		SM 1030E	Total/NA
Chloride	700				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	1300				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	1300				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 6/7S (Continued) — Lab Sample ID: 280-161446-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	1.9				%	1		SM 1030E	Total/NA
Calculated TDS	2400				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.96				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	2300				mg/L	1		SM 1030E	Total/NA
Iron	10				mg/L	1		SM 1030E	Total/NA
Calcium	11				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	12				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.90				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	20				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	3.5				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	20				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	26				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	26				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.54				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	1300		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	1300		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	1400		3.0		mg/L	5		SM 2340C	Total/NA
Total Dissolved Solids	2300		19		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	35		4.0		mg/L	1		SM 2540D	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA
Field Conductivity	2614				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.5				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.21				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-22.1				millivolts	1		Field Sampling	Total/NA

Client Sample ID: 8S — Lab Sample ID: 280-161446-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silicon	21000		100		ug/L	1		6010B	Total Recoverable
Calcium	95000		500		ug/L	1		6010B	Dissolved
Magnesium	48000		200		ug/L	1		6010B	Dissolved
Manganese	1400		3.0		ug/L	1		6010B	Dissolved
Potassium	2800		500		ug/L	1		6010B	Dissolved
Sodium	320000		1000		ug/L	1		6010B	Dissolved
Arsenic	2.0		1.0		ug/L	1		6020	Total Recoverable
Barium	70		1.0		ug/L	1		6020	Total Recoverable
Cobalt	1.3		0.20		ug/L	1		6020	Total Recoverable
Copper	6.9		1.0		ug/L	1		6020	Total Recoverable
Nickel	13		1.0		ug/L	1		6020	Total Recoverable
Vanadium	6.7		3.0		ug/L	1		6020	Total Recoverable
Chloride	98		3.0		mg/L	1		300.0	Total/NA
Sulfate	170		5.0		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 8S (Continued)

Lab Sample ID: 280-161446-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chemical Oxygen Demand (COD)	47		20		mg/L	1		410.4	Total/NA
pH adj. to 25 deg C	7.3	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	2100		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	11		1.0		mg/L	1		9060	Total/NA
Total Anions	23				meq/L	1		SM 1030E	Total/NA
Total Cations	23				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.3				%	1		SM 1030E	Total/NA
Calcium	95				mg/L	1		SM 1030E	Total/NA
Magnesium	48				mg/L	1		SM 1030E	Total/NA
Potassium	2.8				mg/L	1		SM 1030E	Total/NA
Sodium	320				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	98				mg/L	1		SM 1030E	Total/NA
Sulfate	170				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	850				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	850				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.3				%	1		SM 1030E	Total/NA
Calculated TDS	1100				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	1300				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	4.7				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	3.9				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.072				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	14				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	2.8				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	3.5				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	17				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	17				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	850		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	850		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	490		3.0		mg/L	2		SM 2340C	Total/NA
Total Dissolved Solids	1300		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA
Field Conductivity	2258				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.2				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.37				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	63.4				millivolts	1		Field Sampling	Total/NA

Client Sample ID: 8P

Lab Sample ID: 280-161446-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.3		1.0		ug/L	5		8260B	Total/NA
Ethylbenzene	1.5		1.0		ug/L	5		8260B	Total/NA
Naphthalene	2.2		1.1		ug/L	5		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 8P (Continued)

Lab Sample ID: 280-161446-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.6		1.0		ug/L	5		8260B	Total/NA
Xylenes (total)	7.1		2.0		ug/L	5		8260B	Total/NA
Silicon	11000		100		ug/L	1		6010B	Total Recoverable
Calcium	97000		500		ug/L	1		6010B	Dissolved
Iron	2900		30		ug/L	1		6010B	Dissolved
Magnesium	49000		200		ug/L	1		6010B	Dissolved
Manganese	1500		3.0		ug/L	1		6010B	Dissolved
Potassium	82000		500		ug/L	1		6010B	Dissolved
Sodium	320000		1000		ug/L	1		6010B	Dissolved
Antimony	14		0.60		ug/L	1		6020	Total Recoverable
Arsenic	58		1.0		ug/L	1		6020	Total Recoverable
Barium	180		1.0		ug/L	1		6020	Total Recoverable
Chromium	38		2.0		ug/L	1		6020	Total Recoverable
Cobalt	12		0.20		ug/L	1		6020	Total Recoverable
Copper	7.3		1.0		ug/L	1		6020	Total Recoverable
Nickel	25		1.0		ug/L	1		6020	Total Recoverable
Vanadium	24		3.0		ug/L	1		6020	Total Recoverable
Chloride	420		20		mg/L	20		300.0	Total/NA
Sulfate	25		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	380		0.040		mg/L	1		350.1	Total/NA
Nitrate/Nitrite	0.47		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand (COD)	3000		870		mg/L	100		410.4	Total/NA
pH adj. to 25 deg C	7.3	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	3800		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	400		6.9		mg/L	20		9060	Total/NA
Total Anions	40				meq/L	1		SM 1030E	Total/NA
Total Cations	52				meq/L	1		SM 1030E	Total/NA
Percent Difference	13				%	1		SM 1030E	Total/NA
Calcium	97				mg/L	1		SM 1030E	Total/NA
Magnesium	49				mg/L	1		SM 1030E	Total/NA
Potassium	82				mg/L	1		SM 1030E	Total/NA
Sodium	320				mg/L	1		SM 1030E	Total/NA
Ammonia as N	380				mg/L	1		SM 1030E	Total/NA
Chloride	420				mg/L	1		SM 1030E	Total/NA
Sulfate	25				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	1400				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	1400				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.47				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	13				%	1		SM 1030E	Total/NA
Calculated TDS	2200				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.73				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	1600				mg/L	1		SM 1030E	Total/NA
Iron	2.9				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 8P (Continued)

Lab Sample ID: 280-161446-8

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Calcium	4.8				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	4.0				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	2.1				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	14				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	27				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	12				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.52				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	28				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	28				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.034				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.16				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	1400		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	1400		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	480		3.0		mg/L	2		SM 2340C	Total/NA
Total Dissolved Solids	1600		19		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	26		4.0		mg/L	1		SM 2540D	Total/NA
Field pH	7.10				SU	1		Field Sampling	Total/NA
Field Conductivity	5426				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.0				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	4.04				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	50.2				millivolts	1		Field Sampling	Total/NA

Client Sample ID: 9P

Lab Sample ID: 280-161446-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.2		1.0		ug/L	5		8260B	Total/NA
Benzene	1.6		1.0		ug/L	5		8260B	Total/NA
Ethylbenzene	1.5		1.0		ug/L	5		8260B	Total/NA
Naphthalene	2.5		1.1		ug/L	5		8260B	Total/NA
Toluene	2.6		1.0		ug/L	5		8260B	Total/NA
Xylenes (total)	8.3		2.0		ug/L	5		8260B	Total/NA
Silicon	23000		100		ug/L	1		6010B	Total Recoverable
Zinc	29		26		ug/L	1		6010B	Total Recoverable
Calcium	170000		500		ug/L	1		6010B	Dissolved
Iron	4600		30		ug/L	1		6010B	Dissolved
Magnesium	100000		200		ug/L	1		6010B	Dissolved
Manganese	3600		3.0		ug/L	1		6010B	Dissolved
Potassium	230000		500		ug/L	1		6010B	Dissolved
Sodium	910000		1000		ug/L	1		6010B	Dissolved
Antimony	1.6		0.60		ug/L	1		6020	Total Recoverable
Arsenic	31		1.0		ug/L	1		6020	Total Recoverable
Barium	610		1.0		ug/L	1		6020	Total Recoverable
Chromium	87		2.0		ug/L	1		6020	Total Recoverable
Cobalt	36		0.20		ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 9P (Continued)

Lab Sample ID: 280-161446-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	5.7		1.0		ug/L	1		6020	Total Recoverable
Lead	1.8		0.50		ug/L	1		6020	Total Recoverable
Nickel	100		1.0		ug/L	1		6020	Total Recoverable
Vanadium	110		3.0		ug/L	1		6020	Total Recoverable
Chloride	1100		20		mg/L	20		300.0	Total/NA
Sulfate	26		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	490		0.040		mg/L	1		350.1	Total/NA
Nitrate/Nitrite	3.5		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand (COD)	1200		170		mg/L	20		410.4	Total/NA
pH adj. to 25 deg C	7.7	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	8400		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	310		3.5		mg/L	10		9060	Total/NA
Total Anions	90				meq/L	1		SM 1030E	Total/NA
Total Cations	97				meq/L	1		SM 1030E	Total/NA
Percent Difference	4.1				%	1		SM 1030E	Total/NA
Calcium	170				mg/L	1		SM 1030E	Total/NA
Magnesium	100				mg/L	1		SM 1030E	Total/NA
Potassium	230				mg/L	1		SM 1030E	Total/NA
Sodium	910				mg/L	1		SM 1030E	Total/NA
Ammonia as N	490				mg/L	1		SM 1030E	Total/NA
Chloride	1100				mg/L	1		SM 1030E	Total/NA
Sulfate	26				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	2900				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	2900				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	3.5				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	4.1				%	1		SM 1030E	Total/NA
Calculated TDS	4700				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.80				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	3800				mg/L	1		SM 1030E	Total/NA
Iron	4.6				mg/L	1		SM 1030E	Total/NA
Calcium	8.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	8.2				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	5.9				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	40				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	35				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	31				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.54				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	58				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	58				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.25				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.25				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	2900		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	2900		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	1200		3.0		mg/L	5		SM 2340C	Total/NA
Total Dissolved Solids	3800		19		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	20		4.0		mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 9P (Continued)

Lab Sample ID: 280-161446-9

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.01				SU	1		Field Sampling	Total/NA
Field Conductivity	4578				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.6				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.45				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-14.6				millivolts	1		Field Sampling	Total/NA

Client Sample ID: 9S

Lab Sample ID: 280-161446-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silicon	25000		100		ug/L	1		6010B	Total Recoverable
Calcium	150000		500		ug/L	1		6010B	Dissolved
Iron	4700		30		ug/L	1		6010B	Dissolved
Magnesium	79000		200		ug/L	1		6010B	Dissolved
Manganese	2400		3.0		ug/L	1		6010B	Dissolved
Potassium	35000		500		ug/L	1		6010B	Dissolved
Sodium	410000		1000		ug/L	1		6010B	Dissolved
Antimony	0.60		0.60		ug/L	1		6020	Total Recoverable
Arsenic	17		1.0		ug/L	1		6020	Total Recoverable
Barium	390		1.0		ug/L	1		6020	Total Recoverable
Chromium	24		2.0		ug/L	1		6020	Total Recoverable
Cobalt	11		0.20		ug/L	1		6020	Total Recoverable
Copper	2.1		1.0		ug/L	1		6020	Total Recoverable
Nickel	39		1.0		ug/L	1		6020	Total Recoverable
Selenium	1.1		1.0		ug/L	1		6020	Total Recoverable
Vanadium	23		3.0		ug/L	1		6020	Total Recoverable
Chloride	550		20		mg/L	20		300.0	Total/NA
Sulfate	27		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	160		2.2		mg/L	100		350.1	Total/NA
Chemical Oxygen Demand (COD)	740		43		mg/L	5		410.4	Total/NA
pH adj. to 25 deg C	7.4	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	3400		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	190		3.5		mg/L	10		9060	Total/NA
Total Anions	46				meq/L	1		SM 1030E	Total/NA
Total Cations	44				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.8				%	1		SM 1030E	Total/NA
Calcium	150				mg/L	1		SM 1030E	Total/NA
Magnesium	79				mg/L	1		SM 1030E	Total/NA
Potassium	35				mg/L	1		SM 1030E	Total/NA
Sodium	410				mg/L	1		SM 1030E	Total/NA
Ammonia as N	160				mg/L	1		SM 1030E	Total/NA
Chloride	550				mg/L	1		SM 1030E	Total/NA
Sulfate	27				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	1500				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 9S (Continued)

Lab Sample ID: 280-161446-10

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	1500				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.8				%	1		SM 1030E	Total/NA
Calculated TDS	2300				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.96				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	2200				mg/L	1		SM 1030E	Total/NA
Iron	4.7				mg/L	1		SM 1030E	Total/NA
Calcium	7.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	6.5				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.90				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	18				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	11				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	16				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.56				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	30				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	30				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.25				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	1500		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	1500		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	800		3.0		mg/L	5		SM 2340C	Total/NA
Total Dissolved Solids	2200		10		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	13		4.0		mg/L	1		SM 2540D	Total/NA
Field pH	7.01				SU	1		Field Sampling	Total/NA
Field Conductivity	4578				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.6				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.45				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-14.6				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-161446-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-161446-1	TB2	Water	04/20/22 07:00	04/23/22 11:25
280-161446-2	1/5P	Water	04/20/22 11:30	04/23/22 11:25
280-161446-3	4/5S	Water	04/20/22 12:15	04/23/22 11:25
280-161446-4	FB2	Water	04/20/22 12:40	04/23/22 11:25
280-161446-5	6/7P	Water	04/20/22 13:30	04/23/22 11:25
280-161446-6	6/7S	Water	04/22/22 11:00	04/23/22 11:25
280-161446-7	8S	Water	04/22/22 10:15	04/23/22 11:25
280-161446-8	8P	Water	04/22/22 09:15	04/23/22 11:25
280-161446-9	9P	Water	04/22/22 12:00	04/23/22 11:25
280-161446-10	9S	Water	04/22/22 12:20	04/23/22 11:25

Method Summary

Client: Waste Management
Job ID: 280-161446-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
6020	Metals (ICP/MS)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
410.4	COD	EPA	EET DEN
9040B	pH	SW846	EET DEN
9050A	Specific Conductance	SW846	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Client Sample ID: TB2
Date Collected: 04/20/22 07:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 10:46	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 10:46	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 10:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 10:46	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 10:46	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 10:46	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 10:46	1
1,2,3-Trichlorobenzene	ND	*-	1.0		ug/L			05/03/22 10:46	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 10:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 10:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 10:46	1
1,2-Dibromo-3-Chloropropane	ND	*-	5.0		ug/L			05/03/22 10:46	1
1,2-Dibromoethane	ND		1.0		ug/L			05/03/22 10:46	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 10:46	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 10:46	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 10:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 10:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 10:46	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 10:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 10:46	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 10:46	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 10:46	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 10:46	1
2-Hexanone	ND		5.0		ug/L			05/03/22 10:46	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 10:46	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 10:46	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 10:46	1
Acetone	ND		10		ug/L			05/03/22 10:46	1
Benzene	ND		1.0		ug/L			05/03/22 10:46	1
Bromobenzene	ND		1.0		ug/L			05/03/22 10:46	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 10:46	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 10:46	1
Bromoform	ND		1.0		ug/L			05/03/22 10:46	1
Bromomethane	ND		2.0		ug/L			05/03/22 10:46	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 10:46	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 10:46	1
Chlorobenzene	ND		1.0		ug/L			05/03/22 10:46	1
Chloroethane	ND		2.0		ug/L			05/03/22 10:46	1
Chloroform	ND		1.0		ug/L			05/03/22 10:46	1
Chloromethane	ND		2.0		ug/L			05/03/22 10:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 10:46	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 10:46	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 10:46	1
Dibromomethane	ND		1.0		ug/L			05/03/22 10:46	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 10:46	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 10:46	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 10:46	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 10:46	1
Methylene Chloride	ND		5.0		ug/L			05/03/22 10:46	1

Client Sample ID: TB2

Date Collected: 04/20/22 07:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/03/22 10:46	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 10:46	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 10:46	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 10:46	1
Styrene	ND		1.0		ug/L			05/03/22 10:46	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 10:46	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 10:46	1
Toluene	ND		1.0		ug/L			05/03/22 10:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 10:46	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 10:46	1
Trichloroethene	ND		1.0		ug/L			05/03/22 10:46	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 10:46	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 10:46	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 10:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 10:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 10:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*05/03/22 10:46*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/03/22 10:46*	*1*
Toluene-d8 (Surr)	*110*		*80 - 125*		*05/03/22 10:46*	*1*

Client Sample ID: 1/5P

Date Collected: 04/20/22 11:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1		ug/L			05/03/22 16:06	5
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 16:06	5
1,1,2,2-Tetrachloroethane	ND		1.1		ug/L			05/03/22 16:06	5
1,1,2-Trichloroethane	ND		1.4		ug/L			05/03/22 16:06	5
1,1-Dichloroethane	ND		1.1		ug/L			05/03/22 16:06	5
1,1-Dichloroethene	ND		1.2		ug/L			05/03/22 16:06	5
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 16:06	5
1,2,3-Trichlorobenzene	ND		1.1		ug/L			05/03/22 16:06	5
1,2,3-Trichloropropane	ND		1.7		ug/L			05/03/22 16:06	5
1,2,4-Trichlorobenzene	ND		1.1		ug/L			05/03/22 16:06	5
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 16:06	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/22 16:06	5
1,2-Dibromoethane	ND		1.0		ug/L			05/03/22 16:06	5
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 16:06	5
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 16:06	5
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 16:06	5
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 16:06	5
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 16:06	5
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 16:06	5
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 16:06	5

Client Sample ID: 1/5P
Date Collected: 04/20/22 11:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 16:06	5
2-Butanone (MEK)	ND		10		ug/L			05/03/22 16:06	5
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 16:06	5
2-Hexanone	ND		8.5		ug/L			05/03/22 16:06	5
4-Chlorotoluene	ND		1.1		ug/L			05/03/22 16:06	5
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 16:06	5
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 16:06	5
Acetone	ND		10		ug/L			05/03/22 16:06	5
Benzene	ND		1.0		ug/L			05/03/22 16:06	5
Bromobenzene	ND		1.0		ug/L			05/03/22 16:06	5
Bromochloromethane	ND		1.0		ug/L			05/03/22 16:06	5
Bromodichloromethane	ND		1.0		ug/L			05/03/22 16:06	5
Bromoform	ND		2.3		ug/L			05/03/22 16:06	5
Bromomethane	ND		2.0		ug/L			05/03/22 16:06	5
Carbon disulfide	ND		2.0		ug/L			05/03/22 16:06	5
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 16:06	5
Chlorobenzene	ND		1.0		ug/L			05/03/22 16:06	5
Chloroethane	ND		2.1		ug/L			05/03/22 16:06	5
Chloroform	ND		1.0		ug/L			05/03/22 16:06	5
Chloromethane	ND		2.0		ug/L			05/03/22 16:06	5
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 16:06	5
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 16:06	5
Dibromochloromethane	ND		1.0		ug/L			05/03/22 16:06	5
Dibromomethane	ND		1.0		ug/L			05/03/22 16:06	5
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 16:06	5
Ethylbenzene	**8.5**		1.0		ug/L			05/03/22 16:06	5
Hexachlorobutadiene	ND		1.8		ug/L			05/03/22 16:06	5
Isopropylbenzene	ND		1.0		ug/L			05/03/22 16:06	5
Methylene Chloride	ND		5.0		ug/L			05/03/22 16:06	5
Naphthalene	ND		1.1		ug/L			05/03/22 16:06	5
n-Butylbenzene	ND		1.0		ug/L			05/03/22 16:06	5
N-Propylbenzene	ND		1.0		ug/L			05/03/22 16:06	5
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 16:06	5
Styrene	ND		1.8		ug/L			05/03/22 16:06	5
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 16:06	5
Tetrachloroethene	ND		1.0		ug/L			05/03/22 16:06	5
Toluene	ND		1.0		ug/L			05/03/22 16:06	5
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 16:06	5
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 16:06	5
Trichloroethene	ND		1.0		ug/L			05/03/22 16:06	5
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 16:06	5
Vinyl chloride	ND		1.0		ug/L			05/03/22 16:06	5
Xylenes (total)	ND		2.0		ug/L			05/03/22 16:06	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 16:06*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 16:06*	*5*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 16:06*	*5*

Client Sample ID: 1/5P

Date Collected: 04/20/22 11:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*87*		*77 - 120*		*05/03/22 16:06*	*5*
Toluene-d8 (Surr)	*110*		*80 - 125*		*05/03/22 16:06*	*5*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	**25000**		100		ug/L		05/05/22 09:39	05/05/22 20:16	1
Silver	ND		3.0		ug/L		05/05/22 09:39	05/05/22 20:16	1
Zinc	**42**		26		ug/L		05/05/22 09:39	05/05/22 20:16	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**80000**		500		ug/L		05/04/22 09:55	05/05/22 09:55	1
Iron	**2800**		30		ug/L		05/04/22 09:55	05/05/22 09:55	1
Magnesium	**87000**		200		ug/L		05/04/22 09:55	05/05/22 09:55	1
Manganese	**820**		3.0		ug/L		05/04/22 09:55	05/05/22 09:55	1
Potassium	**260000**		500		ug/L		05/04/22 09:55	05/05/22 09:55	1
Sodium	**1100000**	**F1**	1000		ug/L		05/04/22 09:55	05/05/22 09:55	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.0**		0.60		ug/L		05/12/22 09:40	05/13/22 02:34	1
Arsenic	**51**		1.0		ug/L		05/12/22 09:40	05/13/22 02:34	1
Barium	**360**		1.0		ug/L		05/12/22 09:40	05/13/22 02:34	1
Beryllium	ND		0.40		ug/L		05/12/22 09:40	05/13/22 02:34	1
Cadmium	ND		0.30		ug/L		05/12/22 09:40	05/13/22 02:34	1
Chromium	**43**		2.0		ug/L		05/12/22 09:40	05/13/22 02:34	1
Cobalt	**16**		0.20		ug/L		05/12/22 09:40	05/13/22 02:34	1
Copper	**12**		1.0		ug/L		05/12/22 09:40	05/13/22 02:34	1
Lead	**1.1**		0.50		ug/L		05/12/22 09:40	05/13/22 02:34	1
Nickel	**50**		1.0		ug/L		05/12/22 09:40	05/13/22 02:34	1
Selenium	ND		1.0		ug/L		05/12/22 09:40	05/13/22 02:34	1
Thallium	ND		0.20		ug/L		05/12/22 09:40	05/13/22 02:34	1
Vanadium	**51**		3.0		ug/L		05/12/22 09:40	05/13/22 02:34	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**82**				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	**100**				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	**9.8**				%			05/11/22 10:42	1
Calcium (SM 1030E)	**80**				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	**87**				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	**260**				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	**1100**				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	**480**				mg/L			05/11/22 10:42	1
Chloride (SM 1030E)	**1200**				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	**16**				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	**2400**				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	**2400**				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	**0.12**				mg/L			05/11/22 10:42	1

Client Sample ID: 1/5P

Date Collected: 04/20/22 11:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	9.8				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	4600				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	0.75				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	3500				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	2.8				mg/L			05/11/22 10:42	1
Calcium (SM 1030E (meq))	4.0				meq/L			05/11/22 10:42	1
Magnesium (SM 1030E (meq))	7.2				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	6.6				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	48				meq/L			05/11/22 10:42	1
Ammonia as N (SM 1030E (meq))	34				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	34				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	0.33				meq/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E (meq))	48				meq/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E (meq))	48				meq/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E (meq))	0.0086				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	0.15				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1200		20		mg/L			05/09/22 16:50	20
Sulfate (EPA 300.0)	16		5.0		mg/L			05/09/22 16:35	1
Ammonia as N (EPA 350.1)	480		2.2		mg/L			05/09/22 13:14	100
Nitrate/Nitrite (EPA 353.2)	0.12		0.050		mg/L			05/04/22 17:32	1
Chemical Oxygen Demand (COD) (EPA 410.4)	990		170		mg/L			05/10/22 11:26	20
Total Organic Carbon - Average (SW846 9060)	280		3.5		mg/L			05/02/22 20:38	10
Total Alkalinity (SM 2320B)	2400		10		mg/L			05/03/22 20:17	1
Bicarbonate Alkalinity (SM 2320B)	2400		10		mg/L			05/03/22 20:17	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			05/03/22 20:17	1
Hardness, as CaCO3 (SM 2340C)	570		3.0		mg/L			05/10/22 18:37	2
Total Dissolved Solids (SM 2540C)	3500		19		mg/L			04/27/22 11:28	1
Total Suspended Solids (SM 2540D)	9.2		4.0		mg/L			04/27/22 15:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	7.6	HF	0.1		SU			05/05/22 15:01	1
Specific Conductance (SW846 9050A)	8300		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.24				SU			04/20/22 12:30	1
Field Conductivity	7524				umhos/cm			04/20/22 12:30	1
Field Temperature	20.1				Degrees C			04/20/22 12:30	1
Field Dissolved Oxygen	0.74				mg/L			04/20/22 12:30	1
Field EH/ORP	75.2				millivolts			04/20/22 12:30	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Client Sample ID: 4/5S
Date Collected: 04/20/22 12:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 15:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 15:44	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 15:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 15:44	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 15:44	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 15:44	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 15:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/03/22 15:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 15:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 15:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 15:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/22 15:44	1
1,2-Dibromoethane	ND		1.0		ug/L			05/03/22 15:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 15:44	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 15:44	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 15:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 15:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 15:44	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 15:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 15:44	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 15:44	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 15:44	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 15:44	1
2-Hexanone	ND		5.0		ug/L			05/03/22 15:44	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 15:44	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 15:44	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 15:44	1
Acetone	ND		10		ug/L			05/03/22 15:44	1
Benzene	ND		1.0		ug/L			05/03/22 15:44	1
Bromobenzene	ND		1.0		ug/L			05/03/22 15:44	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 15:44	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 15:44	1
Bromoform	ND		1.0		ug/L			05/03/22 15:44	1
Bromomethane	ND		2.0		ug/L			05/03/22 15:44	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 15:44	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 15:44	1
Chlorobenzene	ND		1.0		ug/L			05/03/22 15:44	1
Chloroethane	ND		2.0		ug/L			05/03/22 15:44	1
Chloroform	ND		1.0		ug/L			05/03/22 15:44	1
Chloromethane	ND		2.0		ug/L			05/03/22 15:44	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 15:44	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 15:44	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 15:44	1
Dibromomethane	ND		1.0		ug/L			05/03/22 15:44	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 15:44	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 15:44	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 15:44	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 15:44	1
Methylene Chloride	ND		5.0		ug/L			05/03/22 15:44	1

Client Sample ID: 4/5S

Date Collected: 04/20/22 12:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/03/22 15:44	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 15:44	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 15:44	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 15:44	1
Styrene	ND		1.0		ug/L			05/03/22 15:44	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 15:44	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 15:44	1
Toluene	ND		1.0		ug/L			05/03/22 15:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 15:44	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 15:44	1
Trichloroethene	ND		1.0		ug/L			05/03/22 15:44	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 15:44	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 15:44	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 15:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Silanol, trimethyl-	*14*	*T J N*	*ug/L*		*4.63*	*1066-40-6*		*05/03/22 15:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 15:44*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 15:44*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 120*		*05/03/22 15:44*	*1*
Toluene-d8 (Surr)	*110*		*80 - 125*		*05/03/22 15:44*	*1*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	**29000**		100		ug/L		05/04/22 10:41	05/05/22 08:36	1
Silver	ND		3.0		ug/L		05/04/22 10:41	05/05/22 08:36	1
Zinc	ND		26		ug/L		05/04/22 10:41	05/05/22 08:36	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120000**		500		ug/L		05/04/22 09:55	05/05/22 10:28	1
Iron	**6700**		30		ug/L		05/04/22 09:55	05/05/22 10:28	1
Magnesium	**53000**		200		ug/L		05/04/22 09:55	05/05/22 10:28	1
Manganese	**7400**		3.0		ug/L		05/04/22 09:55	05/05/22 10:28	1
Potassium	**7200**		500		ug/L		05/04/22 09:55	05/05/22 10:28	1
Sodium	**84000**		1000		ug/L		05/04/22 09:55	05/05/22 10:28	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.95**		0.60		ug/L		05/04/22 08:40	05/04/22 20:19	1
Arsenic	**25**		1.0		ug/L		05/04/22 08:40	05/04/22 20:19	1
Barium	**250**		1.0		ug/L		05/04/22 08:40	05/04/22 20:19	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 20:19	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 20:19	1
Chromium	ND		2.0		ug/L		05/04/22 08:40	05/04/22 20:19	1
Cobalt	**1.1**		0.20		ug/L		05/04/22 08:40	05/04/22 20:19	1
Copper	ND		1.0		ug/L		05/04/22 08:40	05/04/22 20:19	1
Lead	ND		0.50		ug/L		05/04/22 08:40	05/04/22 20:19	1
Nickel	**3.7**		1.0		ug/L		05/04/22 08:40	05/04/22 20:19	1

Client Sample ID: 4/5S

Date Collected: 04/20/22 12:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-3

Matrix: Water

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 20:19	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 20:19	1
Vanadium	ND		3.0		ug/L		05/04/22 08:40	05/04/22 20:19	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**17**				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	**17**				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	**1.6**				%			05/11/22 10:42	1
Calcium (SM 1030E)	**120**				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	**53**				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	**7.2**				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	**84**				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	**35**				mg/L			05/11/22 10:42	1
Chloride (SM 1030E)	**68**				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	**730**				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	**730**				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Anion/Cation Balance (SM 1030E)	**1.6**				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	**810**				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	**0.96**				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	**780**				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	**6.7**				mg/L			05/11/22 10:42	1
Calcium (SM 1030E (meq))	**6.0**				meq/L			05/11/22 10:42	1
Magnesium (SM 1030E (meq))	**4.4**				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	**0.18**				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	**3.7**				meq/L			05/11/22 10:42	1
Ammonia as N (SM 1030E (meq))	**2.5**				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	**1.9**				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E (meq))	**15**				meq/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E (meq))	**15**				meq/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	**0.36**				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**68**		3.0		mg/L			05/09/22 17:05	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			05/09/22 17:05	1
Ammonia as N (EPA 350.1)	**35**		0.22		mg/L			05/09/22 13:17	10
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/03/22 17:20	1
Chemical Oxygen Demand (COD) (EPA 410.4)	**48**		20		mg/L			05/10/22 11:26	1
Total Organic Carbon - Average (SW846 9060)	**13**		1.0		mg/L			04/28/22 20:12	1
Total Alkalinity (SM 2320B)	**730**		10		mg/L			04/29/22 18:03	1
Bicarbonate Alkalinity (SM 2320B)	**730**		10		mg/L			04/29/22 18:03	1

Client Sample ID: 4/5S

Date Collected: 04/20/22 12:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-3

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			04/29/22 18:03	1
Hardness, as CaCO3 (SM 2340C)	**540**		3.0		mg/L			05/10/22 18:37	1
Total Dissolved Solids (SM 2540C)	**780**		10		mg/L			04/27/22 11:28	1
Total Suspended Solids (SM 2540D)	**15**		4.0		mg/L			04/25/22 12:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	**7.0**	**HF**	0.1		SU			05/06/22 17:57	1
Specific Conductance (SW846 9050A)	**1600**		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.44**				SU			04/20/22 13:15	1
Field Conductivity	**1552**				umhos/cm			04/20/22 13:15	1
Field Temperature	**27.6**				Degrees C			04/20/22 13:15	1
Field Dissolved Oxygen	**2.76**				mg/L			04/20/22 13:15	1
Field EH/ORP	**3.7**				millivolts			04/20/22 13:15	1

Client Sample ID: FB2

Date Collected: 04/20/22 12:40
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 11:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 11:07	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 11:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 11:07	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 11:07	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 11:07	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 11:07	1
1,2,3-Trichlorobenzene	ND	*-	1.0		ug/L			05/03/22 11:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 11:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 11:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 11:07	1
1,2-Dibromo-3-Chloropropane	ND	*-	5.0		ug/L			05/03/22 11:07	1
1,2-Dibromoethane	ND		1.0		ug/L			05/03/22 11:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 11:07	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 11:07	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 11:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 11:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 11:07	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 11:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 11:07	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 11:07	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 11:07	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 11:07	1
2-Hexanone	ND		5.0		ug/L			05/03/22 11:07	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 11:07	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 11:07	1

Client Sample ID: FB2
Date Collected: 04/20/22 12:40
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 11:07	1
Acetone	ND		10		ug/L			05/03/22 11:07	1
Benzene	ND		1.0		ug/L			05/03/22 11:07	1
Bromobenzene	ND		1.0		ug/L			05/03/22 11:07	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 11:07	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 11:07	1
Bromoform	ND		1.0		ug/L			05/03/22 11:07	1
Bromomethane	ND		2.0		ug/L			05/03/22 11:07	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 11:07	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 11:07	1
Chlorobenzene	ND		1.0		ug/L			05/03/22 11:07	1
Chloroethane	ND		2.0		ug/L			05/03/22 11:07	1
Chloroform	ND		1.0		ug/L			05/03/22 11:07	1
Chloromethane	ND		2.0		ug/L			05/03/22 11:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 11:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 11:07	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 11:07	1
Dibromomethane	ND		1.0		ug/L			05/03/22 11:07	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 11:07	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 11:07	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 11:07	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 11:07	1
Methylene Chloride	ND		5.0		ug/L			05/03/22 11:07	1
Naphthalene	ND		1.0		ug/L			05/03/22 11:07	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 11:07	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 11:07	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 11:07	1
Styrene	ND		1.0		ug/L			05/03/22 11:07	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 11:07	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 11:07	1
Toluene	ND		1.0		ug/L			05/03/22 11:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 11:07	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 11:07	1
Trichloroethene	ND		1.0		ug/L			05/03/22 11:07	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 11:07	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 11:07	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 11:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 11:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 11:07*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 11:07*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/03/22 11:07*	*1*
Toluene-d8 (Surr)	*109*		*80 - 125*		*05/03/22 11:07*	*1*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	ND		100		ug/L		05/04/22 10:41	05/05/22 08:40	1

Client Sample ID: FB2

Date Collected: 04/20/22 12:40
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-4

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		3.0		ug/L		05/04/22 10:41	05/05/22 08:40	1
Zinc	ND		26		ug/L		05/04/22 10:41	05/05/22 08:40	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/04/22 09:55	05/05/22 10:33	1
Iron	ND		30		ug/L		05/04/22 09:55	05/05/22 10:33	1
Magnesium	ND		200		ug/L		05/04/22 09:55	05/05/22 10:33	1
Manganese	ND		3.0		ug/L		05/04/22 09:55	05/05/22 10:33	1
Potassium	ND		500		ug/L		05/04/22 09:55	05/05/22 10:33	1
Sodium	ND		1000		ug/L		05/04/22 09:55	05/05/22 10:33	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.60		ug/L		05/04/22 08:40	05/04/22 20:22	1
Arsenic	ND		1.0		ug/L		05/04/22 08:40	05/04/22 20:22	1
Barium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 20:22	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 20:22	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 20:22	1
Chromium	ND		2.0		ug/L		05/04/22 08:40	05/04/22 20:22	1
Cobalt	ND		0.20		ug/L		05/04/22 08:40	05/04/22 20:22	1
Copper	ND		1.0		ug/L		05/04/22 08:40	05/04/22 20:22	1
Lead	ND		0.50		ug/L		05/04/22 08:40	05/04/22 20:22	1
Nickel	ND		1.0		ug/L		05/04/22 08:40	05/04/22 20:22	1
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 20:22	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 20:22	1
Vanadium	ND		3.0		ug/L		05/04/22 08:40	05/04/22 20:22	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	0.00				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	0.00				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	NC				%			05/11/22 10:42	1
Calcium (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Chloride (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Anion/Cation Balance (SM 1030E)	NC				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	NC				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Calcium (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1

Client Sample ID: FB2

Date Collected: 04/20/22 12:40
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-4

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Ammonia as N (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			05/09/22 17:35	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			05/09/22 17:35	1
Ammonia as N (EPA 350.1)	ND		0.040		mg/L			05/09/22 13:33	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/03/22 17:22	1
Chemical Oxygen Demand (COD) (EPA 410.4)	ND		20		mg/L			05/10/22 11:26	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			04/28/22 20:28	1
Total Alkalinity (SM 2320B)	ND		10		mg/L			04/29/22 18:08	1
Bicarbonate Alkalinity (SM 2320B)	ND		10		mg/L			04/29/22 18:08	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			04/29/22 18:08	1
Hardness, as CaCO3 (SM 2340C)	ND		3.0		mg/L			05/10/22 18:37	1
Total Dissolved Solids (SM 2540C)	ND		10		mg/L			04/27/22 11:28	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			04/25/22 12:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	**8.4**	**HF**	0.1		SU			05/09/22 22:26	1
Specific Conductance (SW846 9050A)	ND		2.0		umhos/cm			04/25/22 10:28	1

Client Sample ID: 6/7P

Date Collected: 04/20/22 13:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-5

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1		ug/L			05/03/22 16:28	5
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 16:28	5
1,1,2,2-Tetrachloroethane	ND		1.1		ug/L			05/03/22 16:28	5
1,1,2-Trichloroethane	ND		1.4		ug/L			05/03/22 16:28	5
1,1-Dichloroethane	ND		1.1		ug/L			05/03/22 16:28	5
1,1-Dichloroethene	ND		1.2		ug/L			05/03/22 16:28	5
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 16:28	5
1,2,3-Trichlorobenzene	ND		1.1		ug/L			05/03/22 16:28	5
1,2,3-Trichloropropane	ND		1.7		ug/L			05/03/22 16:28	5
1,2,4-Trichlorobenzene	ND		1.1		ug/L			05/03/22 16:28	5
1,2,4-Trimethylbenzene	**1.5**		1.0		ug/L			05/03/22 16:28	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/22 16:28	5

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Client Sample ID: 6/7P
Date Collected: 04/20/22 13:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0		ug/L			05/03/22 16:28	5
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 16:28	5
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 16:28	5
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 16:28	5
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 16:28	5
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 16:28	5
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 16:28	5
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 16:28	5
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 16:28	5
2-Butanone (MEK)	**840**		10		ug/L			05/03/22 16:28	5
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 16:28	5
2-Hexanone	ND		8.5		ug/L			05/03/22 16:28	5
4-Chlorotoluene	ND		1.1		ug/L			05/03/22 16:28	5
4-Isopropyltoluene	**2.7**		1.0		ug/L			05/03/22 16:28	5
4-Methyl-2-pentanone	**160**		5.0		ug/L			05/03/22 16:28	5
Acetone	**1100**		10		ug/L			05/03/22 16:28	5
Benzene	**12**		1.0		ug/L			05/03/22 16:28	5
Bromobenzene	ND		1.0		ug/L			05/03/22 16:28	5
Bromochloromethane	ND		1.0		ug/L			05/03/22 16:28	5
Bromodichloromethane	ND		1.0		ug/L			05/03/22 16:28	5
Bromoform	ND		2.3		ug/L			05/03/22 16:28	5
Bromomethane	ND		2.0		ug/L			05/03/22 16:28	5
Carbon disulfide	ND		2.0		ug/L			05/03/22 16:28	5
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 16:28	5
Chlorobenzene	ND		1.0		ug/L			05/03/22 16:28	5
Chloroethane	ND		2.1		ug/L			05/03/22 16:28	5
Chloroform	ND		1.0		ug/L			05/03/22 16:28	5
Chloromethane	ND		2.0		ug/L			05/03/22 16:28	5
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 16:28	5
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 16:28	5
Dibromochloromethane	ND		1.0		ug/L			05/03/22 16:28	5
Dibromomethane	ND		1.0		ug/L			05/03/22 16:28	5
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 16:28	5
Ethylbenzene	**7.6**		1.0		ug/L			05/03/22 16:28	5
Hexachlorobutadiene	ND		1.8		ug/L			05/03/22 16:28	5
Isopropylbenzene	ND		1.0		ug/L			05/03/22 16:28	5
Methylene Chloride	ND		5.0		ug/L			05/03/22 16:28	5
Naphthalene	**22**		1.1		ug/L			05/03/22 16:28	5
n-Butylbenzene	ND		1.0		ug/L			05/03/22 16:28	5
N-Propylbenzene	ND		1.0		ug/L			05/03/22 16:28	5
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 16:28	5
Styrene	ND		1.8		ug/L			05/03/22 16:28	5
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 16:28	5
Tetrachloroethene	ND		1.0		ug/L			05/03/22 16:28	5
Toluene	**18**		1.0		ug/L			05/03/22 16:28	5
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 16:28	5
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 16:28	5
Trichloroethene	ND		1.0		ug/L			05/03/22 16:28	5
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 16:28	5

Client Sample ID: 6/7P

Date Collected: 04/20/22 13:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-5

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0		ug/L			05/03/22 16:28	5
Xylenes (total)	**20**		2.0		ug/L			05/03/22 16:28	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*52*	*T J*	*ug/L*		*3.69*	*N/A*		*05/03/22 16:28*	*5*
Unknown	*330*	*T J*	*ug/L*		*4.63*	*N/A*		*05/03/22 16:28*	*5*
Unknown	*27*	*T J*	*ug/L*		*4.87*	*N/A*		*05/03/22 16:28*	*5*
Furan, tetrahydro-	*120*	*T J N*	*ug/L*		*4.95*	*109-99-9*		*05/03/22 16:28*	*5*
m-Xylene & p-Xylene	*14*		*ug/L*		*8.67*	*179601-23-1*		*05/03/22 16:28*	*5*
o-Xylene	*5.6*		*ug/L*		*9.05*	*95-47-6*		*05/03/22 16:28*	*5*
Eucalyptol	*48*	*T J N*	*ug/L*		*10.80*	*470-82-6*		*05/03/22 16:28*	*5*
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-	*35*	*T J N*	*ug/L*		*11.82*	*1195-79-5*		*05/03/22 16:28*	*5*
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-, (1R)-	*44*	*T J N*	*ug/L*		*12.62*	*464-49-3*		*05/03/22 16:28*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 16:28*	*5*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 16:28*	*5*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/03/22 16:28*	*5*
Toluene-d8 (Surr)	*111*		*80 - 125*		*05/03/22 16:28*	*5*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	**20000**		100		ug/L		05/04/22 10:41	05/05/22 08:44	1
Silver	ND		3.0		ug/L		05/04/22 10:41	05/05/22 08:44	1
Zinc	ND		26		ug/L		05/04/22 10:41	05/05/22 08:44	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**91000**		500		ug/L		05/04/22 09:55	05/05/22 10:37	1
Iron	**6400**		30		ug/L		05/04/22 09:55	05/05/22 10:37	1
Magnesium	**69000**		200		ug/L		05/04/22 09:55	05/05/22 10:37	1
Manganese	**3300**		3.0		ug/L		05/04/22 09:55	05/05/22 10:37	1
Potassium	**59000**		500		ug/L		05/04/22 09:55	05/05/22 10:37	1
Sodium	**360000**		1000		ug/L		05/04/22 09:55	05/05/22 10:37	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**64**		0.60		ug/L		05/04/22 08:40	05/04/22 21:15	1
Arsenic	**310**		1.0		ug/L		05/04/22 08:40	05/09/22 15:00	1
Barium	**710**		1.0		ug/L		05/04/22 08:40	05/04/22 21:15	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 21:15	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 21:15	1
Chromium	**34**		2.0		ug/L		05/04/22 08:40	05/04/22 21:15	1
Cobalt	**22**		0.20		ug/L		05/04/22 08:40	05/04/22 21:15	1
Copper	ND		1.0		ug/L		05/04/22 08:40	05/04/22 21:15	1
Lead	ND		0.50		ug/L		05/04/22 08:40	05/04/22 21:15	1
Nickel	**68**		1.0		ug/L		05/04/22 08:40	05/04/22 21:15	1
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 21:15	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 21:15	1

Client Sample ID: 6/7P

Date Collected: 04/20/22 13:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-5

Matrix: Water

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	39		3.0		ug/L		05/04/22 08:40	05/04/22 21:15	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	110				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	110				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	-2.2				%			05/11/22 10:42	1
Calcium (SM 1030E)	91				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	69				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	59				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	360				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	1100				mg/L			05/11/22 10:42	1
Chloride (SM 1030E)	890				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	4300				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	4300				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Anion/Cation Balance (SM 1030E)	-2.2				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	5200				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	0.56				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	2900				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	6.4				mg/L			05/11/22 10:42	1
Calcium (SM 1030E (meq))	4.5				meq/L			05/11/22 10:42	1
Magnesium (SM 1030E (meq))	5.7				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	1.5				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	16				meq/L			05/11/22 10:42	1
Ammonia as N (SM 1030E (meq))	79				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	25				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E (meq))	86				meq/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E (meq))	86				meq/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	0.34				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	890		100		mg/L			05/09/22 19:20	100
Sulfate (EPA 300.0)	ND		5.0		mg/L			05/09/22 19:05	1
Ammonia as N (EPA 350.1)	1100		5.5		mg/L			05/10/22 14:13	250
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/04/22 17:34	1
Chemical Oxygen Demand (COD) (EPA 410.4)	1100		170		mg/L			05/10/22 11:26	20
Total Organic Carbon - Average (SW846 9060)	260		3.5		mg/L			04/28/22 21:19	10
Total Alkalinity (SM 2320B)	4300	H	10		mg/L			05/06/22 10:28	1
Bicarbonate Alkalinity (SM 2320B)	4300	H	10		mg/L			05/06/22 10:28	1
Carbonate Alkalinity (SM 2320B)	ND	H	10		mg/L			05/06/22 10:28	1
Hardness, as CaCO3 (SM 2340C)	940		3.0		mg/L			05/10/22 18:37	5

Client Sample ID: 6/7P

Date Collected: 04/20/22 13:30
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2900		19		mg/L			04/27/22 11:28	1
Total Suspended Solids (SM 2540D)	39		4.0		mg/L			04/25/22 12:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	7.7	HF	0.1		SU			05/05/22 15:07	1
Specific Conductance (SW846 9050A)	11000		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.32				SU			04/20/22 14:30	1
Field Conductivity	11177				umhos/cm			04/20/22 14:30	1
Field Temperature	21.6				Degrees C			04/20/22 14:30	1
Field Dissolved Oxygen	1.12				mg/L			04/20/22 14:30	1
Field EH/ORP	-20.9				millivolts			04/20/22 14:30	1

Client Sample ID: 6/7S

Date Collected: 04/22/22 11:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 03:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 03:13	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 03:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 03:13	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 03:13	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 03:13	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 03:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 03:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 03:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 03:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 03:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/05/22 03:13	1
1,2-Dibromoethane	ND		1.0		ug/L			05/05/22 03:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 03:13	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 03:13	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 03:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 03:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 03:13	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 03:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 03:13	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 03:13	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 03:13	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 03:13	1
2-Hexanone	ND		5.0		ug/L			05/05/22 03:13	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 03:13	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 03:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 03:13	1
Acetone	ND		10		ug/L			05/05/22 03:13	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Client Sample ID: 6/7S
Date Collected: 04/22/22 11:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/05/22 03:13	1
Bromobenzene	ND		1.0		ug/L			05/05/22 03:13	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 03:13	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 03:13	1
Bromoform	ND		1.0		ug/L			05/05/22 03:13	1
Bromomethane	ND		2.0		ug/L			05/05/22 03:13	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 03:13	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 03:13	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 03:13	1
Chloroethane	ND		2.0		ug/L			05/05/22 03:13	1
Chloroform	ND		1.0		ug/L			05/05/22 03:13	1
Chloromethane	ND		2.0		ug/L			05/05/22 03:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 03:13	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 03:13	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 03:13	1
Dibromomethane	ND		1.0		ug/L			05/05/22 03:13	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 03:13	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 03:13	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 03:13	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 03:13	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 03:13	1
Naphthalene	ND		1.0		ug/L			05/05/22 03:13	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 03:13	1
N-Propylbenzene	ND		1.0		ug/L			05/05/22 03:13	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 03:13	1
Styrene	ND		1.0		ug/L			05/05/22 03:13	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 03:13	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 03:13	1
Toluene	ND		1.0		ug/L			05/05/22 03:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 03:13	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 03:13	1
Trichloroethene	ND		1.0		ug/L			05/05/22 03:13	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 03:13	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 03:13	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 03:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*190*	*T J*	*ug/L*		*1.29*	*N/A*		*05/05/22 03:13*	*1*
Unknown	*9.2*	*T J*	*ug/L*		*1.83*	*N/A*		*05/05/22 03:13*	*1*
Unknown	*17*	*T J*	*ug/L*		*3.15*	*N/A*		*05/05/22 03:13*	*1*
Silanol, trimethyl-	*83*	*T J N*	*ug/L*		*3.98*	*1066-40-6*		*05/05/22 03:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/05/22 03:13*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*05/05/22 03:13*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*05/05/22 03:13*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*05/05/22 03:13*	*1*

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Client Sample ID: 6/7S

Date Collected: 04/22/22 11:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-6

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	**25000**		100		ug/L		05/04/22 10:41	05/05/22 09:05	1
Silver	ND		3.0		ug/L		05/04/22 10:41	05/05/22 09:05	1
Zinc	ND		26		ug/L		05/04/22 10:41	05/05/22 09:05	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**230000**		500		ug/L		05/04/22 09:55	05/05/22 10:57	1
Iron	**10000**		30		ug/L		05/04/22 09:55	05/05/22 10:57	1
Magnesium	**140000**		200		ug/L		05/04/22 09:55	05/05/22 10:57	1
Manganese	**9900**		3.0		ug/L		05/04/22 09:55	05/05/22 10:57	1
Potassium	**35000**		500		ug/L		05/04/22 09:55	05/05/22 10:57	1
Sodium	**450000**		1000		ug/L		05/04/22 09:55	05/05/22 10:57	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**		0.60		ug/L		05/04/22 08:40	05/04/22 21:19	1
Arsenic	**31**		1.0		ug/L		05/04/22 08:40	05/04/22 21:19	1
Barium	**590**		1.0		ug/L		05/04/22 08:40	05/04/22 21:19	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 21:19	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 21:19	1
Chromium	**6.9**		2.0		ug/L		05/04/22 08:40	05/04/22 21:19	1
Cobalt	**6.1**		0.20		ug/L		05/04/22 08:40	05/04/22 21:19	1
Copper	ND		1.0		ug/L		05/04/22 08:40	05/04/22 21:19	1
Lead	ND		0.50		ug/L		05/04/22 08:40	05/04/22 21:19	1
Nickel	**55**		1.0		ug/L		05/04/22 08:40	05/04/22 21:19	1
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 21:19	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 21:19	1
Vanadium	**9.7**		3.0		ug/L		05/04/22 08:40	05/04/22 21:19	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**46**				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	**48**				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	**1.9**				%			05/11/22 10:42	1
Calcium (SM 1030E)	**230**				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	**140**				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	**35**				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	**450**				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	**49**				mg/L			05/11/22 10:42	1
Chloride (SM 1030E)	**700**				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	**1300**				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	**1300**				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Anion/Cation Balance (SM 1030E)	**1.9**				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	**2400**				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	**0.96**				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	**2300**				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	**10**				mg/L			05/11/22 10:42	1

Client Sample ID: 6/7S

Date Collected: 04/22/22 11:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-6

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium (SM 1030E (meq))	11				meq/L			05/11/22 10:42	1
Magnesium (SM 1030E (meq))	12				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	0.90				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	20				meq/L			05/11/22 10:42	1
Ammonia as N (SM 1030E (meq))	3.5				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	20				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E (meq))	26				meq/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E (meq))	26				meq/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	0.54				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	700		20		mg/L			05/09/22 19:50	20
Sulfate (EPA 300.0)	ND		5.0		mg/L			05/09/22 19:35	1
Ammonia as N (EPA 350.1)	49		0.22		mg/L			05/09/22 13:30	10
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/03/22 17:26	1
Chemical Oxygen Demand (COD) (EPA 410.4)	300		43		mg/L			05/10/22 13:22	5
Total Organic Carbon - Average (SW846 9060)	77		1.7		mg/L			04/28/22 21:36	5
Total Alkalinity (SM 2320B)	1300		10		mg/L			05/05/22 20:17	1
Bicarbonate Alkalinity (SM 2320B)	1300		10		mg/L			05/05/22 20:17	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			05/05/22 20:17	1
Hardness, as CaCO3 (SM 2340C)	1400		3.0		mg/L			05/10/22 18:37	5
Total Dissolved Solids (SM 2540C)	2300		19		mg/L			04/27/22 11:28	1
Total Suspended Solids (SM 2540D)	35		4.0		mg/L			04/27/22 15:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	7.1	HF	0.1		SU			05/05/22 15:10	1
Specific Conductance (SW846 9050A)	4200		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.65				SU			04/22/22 12:00	1
Field Conductivity	2614				umhos/cm			04/22/22 12:00	1
Field Temperature	25.5				Degrees C			04/22/22 12:00	1
Field Dissolved Oxygen	2.21				mg/L			04/22/22 12:00	1
Field EH/ORP	-22.1				millivolts			04/22/22 12:00	1

Client Sample ID: 8S

Date Collected: 04/22/22 10:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-7

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 03:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 03:33	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Client Sample ID: 8S
Date Collected: 04/22/22 10:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 03:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 03:33	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 03:33	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 03:33	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 03:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 03:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 03:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 03:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 03:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/05/22 03:33	1
1,2-Dibromoethane	ND		1.0		ug/L			05/05/22 03:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 03:33	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 03:33	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 03:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 03:33	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 03:33	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 03:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 03:33	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 03:33	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 03:33	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 03:33	1
2-Hexanone	ND		5.0		ug/L			05/05/22 03:33	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 03:33	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 03:33	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 03:33	1
Acetone	ND		10		ug/L			05/05/22 03:33	1
Benzene	ND		1.0		ug/L			05/05/22 03:33	1
Bromobenzene	ND		1.0		ug/L			05/05/22 03:33	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 03:33	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 03:33	1
Bromoform	ND		1.0		ug/L			05/05/22 03:33	1
Bromomethane	ND		2.0		ug/L			05/05/22 03:33	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 03:33	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 03:33	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 03:33	1
Chloroethane	ND		2.0		ug/L			05/05/22 03:33	1
Chloroform	ND		1.0		ug/L			05/05/22 03:33	1
Chloromethane	ND		2.0		ug/L			05/05/22 03:33	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 03:33	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 03:33	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 03:33	1
Dibromomethane	ND		1.0		ug/L			05/05/22 03:33	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 03:33	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 03:33	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 03:33	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 03:33	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 03:33	1
Naphthalene	ND		1.0		ug/L			05/05/22 03:33	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 03:33	1

Client Sample ID: 8S
Date Collected: 04/22/22 10:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			05/05/22 03:33	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 03:33	1
Styrene	ND		1.0		ug/L			05/05/22 03:33	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 03:33	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 03:33	1
Toluene	ND		1.0		ug/L			05/05/22 03:33	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 03:33	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 03:33	1
Trichloroethene	ND		1.0		ug/L			05/05/22 03:33	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 03:33	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 03:33	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 03:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*150*	*T J*	*ug/L*		*1.29*	*N/A*		*05/05/22 03:33*	*1*
Silanol, trimethyl-	*5.4*	*T J N*	*ug/L*		*3.99*	*1066-40-6*		*05/05/22 03:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/05/22 03:33*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*05/05/22 03:33*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*05/05/22 03:33*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*05/05/22 03:33*	*1*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	**21000**		100		ug/L		05/04/22 10:41	05/05/22 09:09	1
Silver	ND		3.0		ug/L		05/04/22 10:41	05/05/22 09:09	1
Zinc	ND		26		ug/L		05/04/22 10:41	05/05/22 09:09	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**95000**		500		ug/L		05/04/22 09:55	05/05/22 11:02	1
Iron	ND		30		ug/L		05/04/22 09:55	05/05/22 11:02	1
Magnesium	**48000**		200		ug/L		05/04/22 09:55	05/05/22 11:02	1
Manganese	**1400**		3.0		ug/L		05/04/22 09:55	05/05/22 11:02	1
Potassium	**2800**		500		ug/L		05/04/22 09:55	05/05/22 11:02	1
Sodium	**320000**		1000		ug/L		05/04/22 09:55	05/05/22 11:02	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.60		ug/L		05/04/22 08:40	05/04/22 21:23	1
Arsenic	**2.0**		1.0		ug/L		05/04/22 08:40	05/04/22 21:23	1
Barium	**70**		1.0		ug/L		05/04/22 08:40	05/04/22 21:23	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 21:23	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 21:23	1
Chromium	ND		2.0		ug/L		05/04/22 08:40	05/04/22 21:23	1
Cobalt	**1.3**		0.20		ug/L		05/04/22 08:40	05/04/22 21:23	1
Copper	**6.9**		1.0		ug/L		05/04/22 08:40	05/04/22 21:23	1
Lead	ND		0.50		ug/L		05/04/22 08:40	05/04/22 21:23	1
Nickel	**13**		1.0		ug/L		05/04/22 08:40	05/04/22 21:23	1
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 21:23	1

Client Sample ID: 8S

Date Collected: 04/22/22 10:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-7

Matrix: Water

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 21:23	1
Vanadium	**6.7**		3.0		ug/L		05/04/22 08:40	05/04/22 21:23	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**23**				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	**23**				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	**-1.3**				%			05/11/22 10:42	1
Calcium (SM 1030E)	**95**				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	**48**				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	**2.8**				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	**320**				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Chloride (SM 1030E)	**98**				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	**170**				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	**850**				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	**850**				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Anion/Cation Balance (SM 1030E)	**-1.3**				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	**1100**				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	**1.2**				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	**1300**				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	**0.00**				mg/L			05/11/22 10:42	1
Calcium (SM 1030E (meq))	**4.7**				meq/L			05/11/22 10:42	1
Magnesium (SM 1030E (meq))	**3.9**				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	**0.072**				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	**14**				meq/L			05/11/22 10:42	1
Ammonia as N (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	**2.8**				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	**3.5**				meq/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E (meq))	**17**				meq/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E (meq))	**17**				meq/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	**0.00**				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**98**		3.0		mg/L			05/09/22 20:05	1
Sulfate (EPA 300.0)	**170**		5.0		mg/L			05/09/22 20:05	1
Ammonia as N (EPA 350.1)	ND		0.040		mg/L			05/02/22 16:04	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/04/22 17:36	1
Chemical Oxygen Demand (COD) (EPA 410.4)	**47**		20		mg/L			05/10/22 13:22	1
Total Organic Carbon - Average (SW846 9060)	**11**		1.0		mg/L			04/28/22 21:53	1
Total Alkalinity (SM 2320B)	**850**		10		mg/L			05/03/22 21:16	1
Bicarbonate Alkalinity (SM 2320B)	**850**		10		mg/L			05/03/22 21:16	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			05/03/22 21:16	1

Client Sample ID: 8S

Date Collected: 04/22/22 10:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-7

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness, as CaCO3 (SM 2340C)	**490**		3.0		mg/L			05/10/22 18:37	2
Total Dissolved Solids (SM 2540C)	**1300**		10		mg/L			04/27/22 11:28	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			04/27/22 15:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	**7.3**	**HF**	0.1		SU			05/06/22 18:09	1
Specific Conductance (SW846 9050A)	**2100**		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.76**				SU			04/22/22 11:15	1
Field Conductivity	**2258**				umhos/cm			04/22/22 11:15	1
Field Temperature	**22.2**				Degrees C			04/22/22 11:15	1
Field Dissolved Oxygen	**1.37**				mg/L			04/22/22 11:15	1
Field EH/ORP	**63.4**				millivolts			04/22/22 11:15	1

Client Sample ID: 8P

Date Collected: 04/22/22 09:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-8

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1		ug/L			05/05/22 03:54	5
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 03:54	5
1,1,2,2-Tetrachloroethane	ND		1.1		ug/L			05/05/22 03:54	5
1,1,2-Trichloroethane	ND		1.4		ug/L			05/05/22 03:54	5
1,1-Dichloroethane	ND		1.1		ug/L			05/05/22 03:54	5
1,1-Dichloroethene	ND		1.2		ug/L			05/05/22 03:54	5
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 03:54	5
1,2,3-Trichlorobenzene	ND		1.1		ug/L			05/05/22 03:54	5
1,2,3-Trichloropropane	ND		1.7		ug/L			05/05/22 03:54	5
1,2,4-Trichlorobenzene	ND		1.1		ug/L			05/05/22 03:54	5
1,2,4-Trimethylbenzene	**1.3**		1.0		ug/L			05/05/22 03:54	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/05/22 03:54	5
1,2-Dibromoethane	ND		1.0		ug/L			05/05/22 03:54	5
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 03:54	5
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 03:54	5
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 03:54	5
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 03:54	5
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 03:54	5
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 03:54	5
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 03:54	5
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 03:54	5
2-Butanone (MEK)	ND		10		ug/L			05/05/22 03:54	5
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 03:54	5
2-Hexanone	ND		8.5		ug/L			05/05/22 03:54	5
4-Chlorotoluene	ND		1.1		ug/L			05/05/22 03:54	5
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 03:54	5
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 03:54	5
Acetone	ND		10		ug/L			05/05/22 03:54	5

Client Sample ID: 8P
Date Collected: 04/22/22 09:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/05/22 03:54	5
Bromobenzene	ND		1.0		ug/L			05/05/22 03:54	5
Bromochloromethane	ND		1.0		ug/L			05/05/22 03:54	5
Bromodichloromethane	ND		1.0		ug/L			05/05/22 03:54	5
Bromoform	ND		2.3		ug/L			05/05/22 03:54	5
Bromomethane	ND		2.0		ug/L			05/05/22 03:54	5
Carbon disulfide	ND		2.0		ug/L			05/05/22 03:54	5
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 03:54	5
Chlorobenzene	ND		1.0		ug/L			05/05/22 03:54	5
Chloroethane	ND		2.1		ug/L			05/05/22 03:54	5
Chloroform	ND		1.0		ug/L			05/05/22 03:54	5
Chloromethane	ND		2.0		ug/L			05/05/22 03:54	5
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 03:54	5
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 03:54	5
Dibromochloromethane	ND		1.0		ug/L			05/05/22 03:54	5
Dibromomethane	ND		1.0		ug/L			05/05/22 03:54	5
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 03:54	5
Ethylbenzene	**1.5**		1.0		ug/L			05/05/22 03:54	5
Hexachlorobutadiene	ND		1.8		ug/L			05/05/22 03:54	5
Isopropylbenzene	ND		1.0		ug/L			05/05/22 03:54	5
Methylene Chloride	ND		5.0		ug/L			05/05/22 03:54	5
Naphthalene	**2.2**		1.1		ug/L			05/05/22 03:54	5
n-Butylbenzene	ND		1.0		ug/L			05/05/22 03:54	5
N-Propylbenzene	ND		1.0		ug/L			05/05/22 03:54	5
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 03:54	5
Styrene	ND		1.8		ug/L			05/05/22 03:54	5
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 03:54	5
Tetrachloroethene	ND		1.0		ug/L			05/05/22 03:54	5
Toluene	**2.6**		1.0		ug/L			05/05/22 03:54	5
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 03:54	5
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 03:54	5
Trichloroethene	ND		1.0		ug/L			05/05/22 03:54	5
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 03:54	5
Vinyl chloride	ND		1.0		ug/L			05/05/22 03:54	5
Xylenes (total)	**7.1**		2.0		ug/L			05/05/22 03:54	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1100*	*T J*	*ug/L*		*1.28*	*N/A*		*05/05/22 03:54*	*5*
Unknown	*55*	*T J*	*ug/L*		*3.98*	*N/A*		*05/05/22 03:54*	*5*
m-Xylene & p-Xylene	*5.3*		*ug/L*		*7.83*	*179601-23-1*		*05/05/22 03:54*	*5*
o-Xylene	*1.8*		*ug/L*		*8.19*	*95-47-6*		*05/05/22 03:54*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/05/22 03:54*	*5*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*05/05/22 03:54*	*5*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*05/05/22 03:54*	*5*
Toluene-d8 (Surr)	*100*		*80 - 125*		*05/05/22 03:54*	*5*

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Client Sample ID: 8P

Date Collected: 04/22/22 09:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-8

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	11000		100		ug/L		05/04/22 10:41	05/05/22 09:13	1
Silver	ND		3.0		ug/L		05/04/22 10:41	05/05/22 09:13	1
Zinc	ND		26		ug/L		05/04/22 10:41	05/05/22 09:13	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	97000		500		ug/L		05/04/22 09:55	05/05/22 11:06	1
Iron	2900		30		ug/L		05/04/22 09:55	05/05/22 11:06	1
Magnesium	49000		200		ug/L		05/04/22 09:55	05/05/22 11:06	1
Manganese	1500		3.0		ug/L		05/04/22 09:55	05/05/22 11:06	1
Potassium	82000		500		ug/L		05/04/22 09:55	05/05/22 11:06	1
Sodium	320000		1000		ug/L		05/04/22 09:55	05/05/22 11:06	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	14		0.60		ug/L		05/04/22 08:40	05/04/22 21:26	1
Arsenic	58		1.0		ug/L		05/04/22 08:40	05/04/22 21:26	1
Barium	180		1.0		ug/L		05/04/22 08:40	05/04/22 21:26	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 21:26	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 21:26	1
Chromium	38		2.0		ug/L		05/04/22 08:40	05/04/22 21:26	1
Cobalt	12		0.20		ug/L		05/04/22 08:40	05/04/22 21:26	1
Copper	7.3		1.0		ug/L		05/04/22 08:40	05/04/22 21:26	1
Lead	ND		0.50		ug/L		05/04/22 08:40	05/04/22 21:26	1
Nickel	25		1.0		ug/L		05/04/22 08:40	05/04/22 21:26	1
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 21:26	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 21:26	1
Vanadium	24		3.0		ug/L		05/04/22 08:40	05/04/22 21:26	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	40				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	52				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	13				%			05/11/22 10:42	1
Calcium (SM 1030E)	97				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	49				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	82				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	320				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	380				mg/L			05/11/22 10:42	1
Chloride (SM 1030E)	420				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	25				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	1400				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	1400				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	0.47				mg/L			05/11/22 10:42	1
Anion/Cation Balance (SM 1030E)	13				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	2200				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	0.73				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	1600				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	2.9				mg/L			05/11/22 10:42	1

Client Sample ID: 8P

Lab Sample ID: 280-161446-8

Date Collected: 04/22/22 09:15

Matrix: Water

Date Received: 04/23/22 11:25

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium (SM 1030E (meq))	4.8				meq/L			05/11/22 10:42	1
Magnesium (SM 1030E (meq))	4.0				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	2.1				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	14				meq/L			05/11/22 10:42	1
Ammonia as N (SM 1030E (meq))	27				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	12				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	0.52				meq/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E (meq))	28				meq/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E (meq))	28				meq/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E (meq))	0.034				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	0.16				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	420		20		mg/L			05/09/22 20:50	20
Sulfate (EPA 300.0)	25		5.0		mg/L			05/09/22 20:35	1
Ammonia as N (EPA 350.1)	380		0.040		mg/L			05/02/22 16:07	1
Nitrate/Nitrite (EPA 353.2)	0.47		0.050		mg/L			05/03/22 17:42	1
Chemical Oxygen Demand (COD) (EPA 410.4)	3000		870		mg/L			05/10/22 13:22	100
Total Organic Carbon - Average (SW846 9060)	400		6.9		mg/L			05/06/22 17:19	20
Total Alkalinity (SM 2320B)	1400		10		mg/L			05/03/22 21:33	1
Bicarbonate Alkalinity (SM 2320B)	1400		10		mg/L			05/03/22 21:33	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			05/03/22 21:33	1
Hardness, as CaCO3 (SM 2340C)	480		3.0		mg/L			05/10/22 18:37	2
Total Dissolved Solids (SM 2540C)	1600		19		mg/L			04/29/22 11:13	1
Total Suspended Solids (SM 2540D)	26		4.0		mg/L			04/27/22 15:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	7.3	HF	0.1		SU			05/06/22 18:12	1
Specific Conductance (SW846 9050A)	3800		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.10				SU			04/22/22 10:15	1
Field Conductivity	5426				umhos/cm			04/22/22 10:15	1
Field Temperature	14.0				Degrees C			04/22/22 10:15	1
Field Dissolved Oxygen	4.04				mg/L			04/22/22 10:15	1
Field EH/ORP	50.2				millivolts			04/22/22 10:15	1

Client Sample ID: 9P

Lab Sample ID: 280-161446-9

Date Collected: 04/22/22 12:00

Matrix: Water

Date Received: 04/23/22 11:25

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1		ug/L			05/05/22 04:15	5
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 04:15	5

Client Sample ID: 9P
Date Collected: 04/22/22 12:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.1		ug/L			05/05/22 04:15	5
1,1,2-Trichloroethane	ND		1.4		ug/L			05/05/22 04:15	5
1,1-Dichloroethane	ND		1.1		ug/L			05/05/22 04:15	5
1,1-Dichloroethene	ND		1.2		ug/L			05/05/22 04:15	5
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 04:15	5
1,2,3-Trichlorobenzene	ND		1.1		ug/L			05/05/22 04:15	5
1,2,3-Trichloropropane	ND		1.7		ug/L			05/05/22 04:15	5
1,2,4-Trichlorobenzene	ND		1.1		ug/L			05/05/22 04:15	5
1,2,4-Trimethylbenzene	**1.2**		1.0		ug/L			05/05/22 04:15	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/05/22 04:15	5
1,2-Dibromoethane	ND		1.0		ug/L			05/05/22 04:15	5
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 04:15	5
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 04:15	5
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 04:15	5
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 04:15	5
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 04:15	5
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 04:15	5
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 04:15	5
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 04:15	5
2-Butanone (MEK)	ND		10		ug/L			05/05/22 04:15	5
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 04:15	5
2-Hexanone	ND		8.5		ug/L			05/05/22 04:15	5
4-Chlorotoluene	ND		1.1		ug/L			05/05/22 04:15	5
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 04:15	5
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 04:15	5
Acetone	ND		10		ug/L			05/05/22 04:15	5
Benzene	**1.6**		1.0		ug/L			05/05/22 04:15	5
Bromobenzene	ND		1.0		ug/L			05/05/22 04:15	5
Bromochloromethane	ND		1.0		ug/L			05/05/22 04:15	5
Bromodichloromethane	ND		1.0		ug/L			05/05/22 04:15	5
Bromoform	ND		2.3		ug/L			05/05/22 04:15	5
Bromomethane	ND		2.0		ug/L			05/05/22 04:15	5
Carbon disulfide	ND		2.0		ug/L			05/05/22 04:15	5
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 04:15	5
Chlorobenzene	ND		1.0		ug/L			05/05/22 04:15	5
Chloroethane	ND		2.1		ug/L			05/05/22 04:15	5
Chloroform	ND		1.0		ug/L			05/05/22 04:15	5
Chloromethane	ND		2.0		ug/L			05/05/22 04:15	5
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 04:15	5
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 04:15	5
Dibromochloromethane	ND		1.0		ug/L			05/05/22 04:15	5
Dibromomethane	ND		1.0		ug/L			05/05/22 04:15	5
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 04:15	5
Ethylbenzene	**1.5**		1.0		ug/L			05/05/22 04:15	5
Hexachlorobutadiene	ND		1.8		ug/L			05/05/22 04:15	5
Isopropylbenzene	ND		1.0		ug/L			05/05/22 04:15	5
Methylene Chloride	ND		5.0		ug/L			05/05/22 04:15	5
Naphthalene	**2.5**		1.1		ug/L			05/05/22 04:15	5
n-Butylbenzene	ND		1.0		ug/L			05/05/22 04:15	5

Client Sample ID: 9P

Date Collected: 04/22/22 12:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-9

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			05/05/22 04:15	5
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 04:15	5
Styrene	ND		1.8		ug/L			05/05/22 04:15	5
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 04:15	5
Tetrachloroethene	ND		1.0		ug/L			05/05/22 04:15	5
Toluene	**2.6**		1.0		ug/L			05/05/22 04:15	5
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 04:15	5
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 04:15	5
Trichloroethene	ND		1.0		ug/L			05/05/22 04:15	5
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 04:15	5
Vinyl chloride	ND		1.0		ug/L			05/05/22 04:15	5
Xylenes (total)	**8.3**		2.0		ug/L			05/05/22 04:15	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1100*	*T J*	*ug/L*		*1.28*	*N/A*		*05/05/22 04:15*	*5*
Unknown	*57*	*T J*	*ug/L*		*3.98*	*N/A*		*05/05/22 04:15*	*5*
m-Xylene & p-Xylene	*6.7*		*ug/L*		*7.83*	*179601-23-1*		*05/05/22 04:15*	*5*
o-Xylene	*1.6*		*ug/L*		*8.18*	*95-47-6*		*05/05/22 04:15*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/05/22 04:15*	*5*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*05/05/22 04:15*	*5*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*05/05/22 04:15*	*5*
Toluene-d8 (Surr)	*101*		*80 - 125*		*05/05/22 04:15*	*5*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	**23000**		100		ug/L		05/04/22 10:41	05/05/22 09:18	1
Silver	ND		3.0		ug/L		05/04/22 10:41	05/05/22 09:18	1
Zinc	**29**		26		ug/L		05/04/22 10:41	05/05/22 09:18	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**170000**		500		ug/L		05/04/22 09:55	05/05/22 11:10	1
Iron	**4600**		30		ug/L		05/04/22 09:55	05/05/22 11:10	1
Magnesium	**100000**		200		ug/L		05/04/22 09:55	05/05/22 11:10	1
Manganese	**3600**		3.0		ug/L		05/04/22 09:55	05/05/22 11:10	1
Potassium	**230000**		500		ug/L		05/04/22 09:55	05/05/22 11:10	1
Sodium	**910000**		1000		ug/L		05/04/22 09:55	05/05/22 11:10	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.6**		0.60		ug/L		05/04/22 08:40	05/04/22 21:30	1
Arsenic	**31**		1.0		ug/L		05/04/22 08:40	05/04/22 21:30	1
Barium	**610**		1.0		ug/L		05/04/22 08:40	05/04/22 21:30	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 21:30	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 21:30	1
Chromium	**87**		2.0		ug/L		05/04/22 08:40	05/04/22 21:30	1
Cobalt	**36**		0.20		ug/L		05/04/22 08:40	05/04/22 21:30	1
Copper	**5.7**		1.0		ug/L		05/04/22 08:40	05/04/22 21:30	1
Lead	**1.8**		0.50		ug/L		05/04/22 08:40	05/04/22 21:30	1

Client Sample ID: 9P
Date Collected: 04/22/22 12:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-9
Matrix: Water

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	100		1.0		ug/L		05/04/22 08:40	05/04/22 21:30	1
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 21:30	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 21:30	1
Vanadium	110		3.0		ug/L		05/04/22 08:40	05/04/22 21:30	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	90				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	97				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	4.1				%			05/11/22 10:42	1
Calcium (SM 1030E)	170				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	100				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	230				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	910				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	490				mg/L			05/11/22 10:42	1
Chloride (SM 1030E)	1100				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	26				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	2900				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	2900				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	3.5				mg/L			05/11/22 10:42	1
Anion/Cation Balance (SM 1030E)	4.1				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	4700				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	0.80				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	3800				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	4.6				mg/L			05/11/22 10:42	1
Calcium (SM 1030E (meq))	8.5				meq/L			05/11/22 10:42	1
Magnesium (SM 1030E (meq))	8.2				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	5.9				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	40				meq/L			05/11/22 10:42	1
Ammonia as N (SM 1030E (meq))	35				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	31				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	0.54				meq/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E (meq))	58				meq/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E (meq))	58				meq/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E (meq))	0.25				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	0.25				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1100		20		mg/L			05/09/22 21:20	20
Sulfate (EPA 300.0)	26		5.0		mg/L			05/09/22 21:05	1
Ammonia as N (EPA 350.1)	490		0.040		mg/L			05/02/22 16:09	1
Nitrate/Nitrite (EPA 353.2)	3.5		0.050		mg/L			05/04/22 17:38	1
Chemical Oxygen Demand (COD) (EPA 410.4)	1200		170		mg/L			05/10/22 13:22	20
Total Organic Carbon - Average (SW846 9060)	310		3.5		mg/L			05/02/22 21:35	10
Total Alkalinity (SM 2320B)	2900		10		mg/L			05/06/22 10:47	1

Client Sample ID: 9P

Date Collected: 04/22/22 12:00
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-9

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 2320B)	**2900**		10		mg/L			05/06/22 10:47	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			05/06/22 10:47	1
Hardness, as CaCO3 (SM 2340C)	**1200**		3.0		mg/L			05/10/22 18:37	5
Total Dissolved Solids (SM 2540C)	**3800**		19		mg/L			04/27/22 11:28	1
Total Suspended Solids (SM 2540D)	**20**		4.0		mg/L			04/29/22 15:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	**7.7**	**HF**	0.1		SU			05/06/22 18:16	1
Specific Conductance (SW846 9050A)	**8400**		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.01**				SU			04/22/22 13:00	1
Field Conductivity	**4578**				umhos/cm			04/22/22 13:00	1
Field Temperature	**25.6**				Degrees C			04/22/22 13:00	1
Field Dissolved Oxygen	**1.45**				mg/L			04/22/22 13:00	1
Field EH/ORP	**-14.6**				millivolts			04/22/22 13:00	1

Client Sample ID: 9S

Date Collected: 04/22/22 12:20
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-10

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 04:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/05/22 04:36	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/05/22 04:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/05/22 04:36	1
1,1-Dichloroethane	ND		1.0		ug/L			05/05/22 04:36	1
1,1-Dichloroethene	ND		1.0		ug/L			05/05/22 04:36	1
1,1-Dichloropropene	ND		1.0		ug/L			05/05/22 04:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/22 04:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/05/22 04:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/22 04:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/05/22 04:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/05/22 04:36	1
1,2-Dibromoethane	ND		1.0		ug/L			05/05/22 04:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/05/22 04:36	1
1,2-Dichloroethane	ND		1.0		ug/L			05/05/22 04:36	1
1,2-Dichloropropane	ND		1.0		ug/L			05/05/22 04:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/05/22 04:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/05/22 04:36	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/22 04:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/05/22 04:36	1
2,2-Dichloropropane	ND		5.0		ug/L			05/05/22 04:36	1
2-Butanone (MEK)	ND		6.0		ug/L			05/05/22 04:36	1
2-Chlorotoluene	ND		1.0		ug/L			05/05/22 04:36	1
2-Hexanone	ND		5.0		ug/L			05/05/22 04:36	1
4-Chlorotoluene	ND		1.0		ug/L			05/05/22 04:36	1

Client Sample ID: 9S
Date Collected: 04/22/22 12:20
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-10
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0		ug/L			05/05/22 04:36	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/22 04:36	1
Acetone	ND		10		ug/L			05/05/22 04:36	1
Benzene	ND		1.0		ug/L			05/05/22 04:36	1
Bromobenzene	ND		1.0		ug/L			05/05/22 04:36	1
Bromochloromethane	ND		1.0		ug/L			05/05/22 04:36	1
Bromodichloromethane	ND		1.0		ug/L			05/05/22 04:36	1
Bromoform	ND		1.0		ug/L			05/05/22 04:36	1
Bromomethane	ND		2.0		ug/L			05/05/22 04:36	1
Carbon disulfide	ND		2.0		ug/L			05/05/22 04:36	1
Carbon tetrachloride	ND		1.0		ug/L			05/05/22 04:36	1
Chlorobenzene	ND		1.0		ug/L			05/05/22 04:36	1
Chloroethane	ND		2.0		ug/L			05/05/22 04:36	1
Chloroform	ND		1.0		ug/L			05/05/22 04:36	1
Chloromethane	ND		2.0		ug/L			05/05/22 04:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 04:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/05/22 04:36	1
Dibromochloromethane	ND		1.0		ug/L			05/05/22 04:36	1
Dibromomethane	ND		1.0		ug/L			05/05/22 04:36	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/05/22 04:36	1
Ethylbenzene	ND		1.0		ug/L			05/05/22 04:36	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/22 04:36	1
Isopropylbenzene	ND		1.0		ug/L			05/05/22 04:36	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 04:36	1
Naphthalene	ND		1.0		ug/L			05/05/22 04:36	1
n-Butylbenzene	ND		1.0		ug/L			05/05/22 04:36	1
N-Propylbenzene	ND		1.0		ug/L			05/05/22 04:36	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/22 04:36	1
Styrene	ND		1.0		ug/L			05/05/22 04:36	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/22 04:36	1
Tetrachloroethene	ND		1.0		ug/L			05/05/22 04:36	1
Toluene	ND		1.0		ug/L			05/05/22 04:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/05/22 04:36	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/05/22 04:36	1
Trichloroethene	ND		1.0		ug/L			05/05/22 04:36	1
Trichlorofluoromethane	ND		2.0		ug/L			05/05/22 04:36	1
Vinyl chloride	ND		1.0		ug/L			05/05/22 04:36	1
Xylenes (total)	ND		2.0		ug/L			05/05/22 04:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*250*	*T J*	*ug/L*		*1.28*	*N/A*		*05/05/22 04:36*	*1*
Unknown	*6.5*	*T J*	*ug/L*		*3.16*	*N/A*		*05/05/22 04:36*	*1*
Silanol, trimethyl-	*31*	*T J N*	*ug/L*		*3.98*	*1066-40-6*		*05/05/22 04:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/05/22 04:36*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*05/05/22 04:36*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*05/05/22 04:36*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*05/05/22 04:36*	*1*

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Client Sample ID: 9S

Date Collected: 04/22/22 12:20
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-10

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	25000		100		ug/L		05/04/22 10:41	05/05/22 09:22	1
Silver	ND		3.0		ug/L		05/04/22 10:41	05/05/22 09:22	1
Zinc	ND		26		ug/L		05/04/22 10:41	05/05/22 09:22	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	150000		500		ug/L		05/04/22 09:55	05/05/22 11:14	1
Iron	4700		30		ug/L		05/04/22 09:55	05/05/22 11:14	1
Magnesium	79000		200		ug/L		05/04/22 09:55	05/05/22 11:14	1
Manganese	2400		3.0		ug/L		05/04/22 09:55	05/05/22 11:14	1
Potassium	35000		500		ug/L		05/04/22 09:55	05/05/22 11:14	1
Sodium	410000		1000		ug/L		05/04/22 09:55	05/05/22 11:14	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60		0.60		ug/L		05/04/22 08:40	05/04/22 21:34	1
Arsenic	17		1.0		ug/L		05/04/22 08:40	05/04/22 21:34	1
Barium	390		1.0		ug/L		05/04/22 08:40	05/04/22 21:34	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 21:34	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 21:34	1
Chromium	24		2.0		ug/L		05/04/22 08:40	05/04/22 21:34	1
Cobalt	11		0.20		ug/L		05/04/22 08:40	05/04/22 21:34	1
Copper	2.1		1.0		ug/L		05/04/22 08:40	05/04/22 21:34	1
Lead	ND		0.50		ug/L		05/04/22 08:40	05/04/22 21:34	1
Nickel	39		1.0		ug/L		05/04/22 08:40	05/04/22 21:34	1
Selenium	1.1		1.0		ug/L		05/04/22 08:40	05/04/22 21:34	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 21:34	1
Vanadium	23		3.0		ug/L		05/04/22 08:40	05/04/22 21:34	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	46				meq/L			05/11/22 10:42	1
Total Cations (SM 1030E)	44				meq/L			05/11/22 10:42	1
Percent Difference (SM 1030E)	-1.8				%			05/11/22 10:42	1
Calcium (SM 1030E)	150				mg/L			05/11/22 10:42	1
Magnesium (SM 1030E)	79				mg/L			05/11/22 10:42	1
Potassium (SM 1030E)	35				mg/L			05/11/22 10:42	1
Sodium (SM 1030E)	410				mg/L			05/11/22 10:42	1
Ammonia as N (SM 1030E)	160				mg/L			05/11/22 10:42	1
Chloride (SM 1030E)	550				mg/L			05/11/22 10:42	1
Sulfate (SM 1030E)	27				mg/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E)	1500				mg/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E)	1500				mg/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			05/11/22 10:42	1
Anion/Cation Balance (SM 1030E)	-1.8				%			05/11/22 10:42	1
Calculated TDS (SM 1030E)	2300				mg/L			05/11/22 10:42	1
TDS Ratio (SM 1030E)	0.96				NONE			05/11/22 10:42	1
Total Dissolved Solids (SM 1030E)	2200				mg/L			05/11/22 10:42	1
Iron (SM 1030E)	4.7				mg/L			05/11/22 10:42	1

Client Sample ID: 9S

Date Collected: 04/22/22 12:20
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-10

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium (SM 1030E (meq))	7.5				meq/L			05/11/22 10:42	1
Magnesium (SM 1030E (meq))	6.5				meq/L			05/11/22 10:42	1
Potassium (SM 1030E (meq))	0.90				meq/L			05/11/22 10:42	1
Sodium (SM 1030E (meq))	18				meq/L			05/11/22 10:42	1
Ammonia as N (SM 1030E (meq))	11				meq/L			05/11/22 10:42	1
Chloride (SM 1030E (meq))	16				meq/L			05/11/22 10:42	1
Sulfate (SM 1030E (meq))	0.56				meq/L			05/11/22 10:42	1
Carbonate Alkalinity (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity (SM 1030E (meq))	30				meq/L			05/11/22 10:42	1
Total Alkalinity (SM 1030E (meq))	30				meq/L			05/11/22 10:42	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			05/11/22 10:42	1
Iron (SM 1030E (meq))	0.25				meq/L			05/11/22 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	550		20		mg/L			05/09/22 22:20	20
Sulfate (EPA 300.0)	27		5.0		mg/L			05/09/22 22:05	1
Ammonia as N (EPA 350.1)	160		2.2		mg/L			05/09/22 13:41	100
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			05/04/22 17:52	1
Chemical Oxygen Demand (COD) (EPA 410.4)	740		43		mg/L			05/10/22 13:22	5
Total Organic Carbon - Average (SW846 9060)	190		3.5		mg/L			05/02/22 21:49	10
Total Alkalinity (SM 2320B)	1500		10		mg/L			05/03/22 22:12	1
Bicarbonate Alkalinity (SM 2320B)	1500		10		mg/L			05/03/22 22:12	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			05/03/22 22:12	1
Hardness, as CaCO3 (SM 2340C)	800		3.0		mg/L			05/10/22 18:37	5
Total Dissolved Solids (SM 2540C)	2200		10		mg/L			04/27/22 11:28	1
Total Suspended Solids (SM 2540D)	13		4.0		mg/L			04/29/22 15:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	7.4	HF	0.1		SU			05/06/22 18:20	1
Specific Conductance (SW846 9050A)	3400		2.0		umhos/cm			04/25/22 10:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.01				SU			04/22/22 13:20	1
Field Conductivity	4578				umhos/cm			04/22/22 13:20	1
Field Temperature	25.6				Degrees C			04/22/22 13:20	1
Field Dissolved Oxygen	1.45				mg/L			04/22/22 13:20	1
Field EH/ORP	-14.6				millivolts			04/22/22 13:20	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-161446-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-161411-A-4 MS	Matrix Spike	99	96	98	98
280-161411-B-4 MSD	Matrix Spike Duplicate	98	97	97	100
280-161446-1	TB2	94	99	90	110
280-161446-2	1/5P	94	96	87	110
280-161446-3	4/5S	94	96	92	110
280-161446-4	FB2	94	96	90	109
280-161446-5	6/7P	94	96	90	111
280-161446-6	6/7S	94	99	96	97
280-161446-7	8S	94	101	97	101
280-161446-8	8P	94	101	97	100
280-161446-9	9P	94	100	96	101
280-161446-10	9S	94	100	96	101
LCS 280-573649/4	Lab Control Sample	91	97	90	110
LCS 280-573914/4	Lab Control Sample	99	99	97	98
LCSD 280-573649/5	Lab Control Sample Dup	93	96	90	109
LCSD 280-573914/5	Lab Control Sample Dup	97	98	97	99
MB 280-573649/9	Method Blank	94	96	90	109
MB 280-573914/8	Method Blank	95	100	96	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-573649/9
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
1,1-Dichloropropene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/22 08:59	1
1,2-Dibromoethane	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichloroethane	ND		1.0		ug/L			05/03/22 08:59	1
1,2-Dichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
1,3-Dichloropropane	ND		1.0		ug/L			05/03/22 08:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
2,2-Dichloropropane	ND		5.0		ug/L			05/03/22 08:59	1
2-Butanone (MEK)	ND		6.0		ug/L			05/03/22 08:59	1
2-Chlorotoluene	ND		1.0		ug/L			05/03/22 08:59	1
2-Hexanone	ND		5.0		ug/L			05/03/22 08:59	1
4-Chlorotoluene	ND		1.0		ug/L			05/03/22 08:59	1
4-Isopropyltoluene	ND		1.0		ug/L			05/03/22 08:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/22 08:59	1
Acetone	ND		10		ug/L			05/03/22 08:59	1
Benzene	ND		1.0		ug/L			05/03/22 08:59	1
Bromobenzene	ND		1.0		ug/L			05/03/22 08:59	1
Bromochloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Bromodichloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Bromoform	ND		1.0		ug/L			05/03/22 08:59	1
Bromomethane	ND		2.0		ug/L			05/03/22 08:59	1
Carbon disulfide	ND		2.0		ug/L			05/03/22 08:59	1
Carbon tetrachloride	ND		1.0		ug/L			05/03/22 08:59	1
Chlorobenzene	ND		1.0		ug/L			05/03/22 08:59	1
Chloroethane	ND		2.0		ug/L			05/03/22 08:59	1
Chloroform	ND		1.0		ug/L			05/03/22 08:59	1
Chloromethane	ND		2.0		ug/L			05/03/22 08:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/03/22 08:59	1
Dibromochloromethane	ND		1.0		ug/L			05/03/22 08:59	1
Dibromomethane	ND		1.0		ug/L			05/03/22 08:59	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/03/22 08:59	1
Ethylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Hexachlorobutadiene	ND		1.0		ug/L			05/03/22 08:59	1
Isopropylbenzene	ND		1.0		ug/L			05/03/22 08:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573649/9
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/03/22 08:59	1
Naphthalene	ND		1.0		ug/L			05/03/22 08:59	1
n-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
N-Propylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
sec-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Styrene	ND		1.0		ug/L			05/03/22 08:59	1
tert-Butylbenzene	ND		1.0		ug/L			05/03/22 08:59	1
Tetrachloroethene	ND		1.0		ug/L			05/03/22 08:59	1
Toluene	ND		1.0		ug/L			05/03/22 08:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/03/22 08:59	1
Trichloroethene	ND		1.0		ug/L			05/03/22 08:59	1
Trichlorofluoromethane	ND		2.0		ug/L			05/03/22 08:59	1
Vinyl chloride	ND		1.0		ug/L			05/03/22 08:59	1
Xylenes (total)	ND		2.0		ug/L			05/03/22 08:59	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/03/22 08:59*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*05/03/22 08:59*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*05/03/22 08:59*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 120*		*05/03/22 08:59*	*1*
Toluene-d8 (Surr)	*109*		*80 - 125*		*05/03/22 08:59*	*1*

Lab Sample ID: LCS 280-573649/4
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	23.0		ug/L		92	74 - 121
1,1,1-Trichloroethane	25.0	22.5		ug/L		90	62 - 132
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	72 - 122
1,1,2-Trichloroethane	25.0	20.2		ug/L		81	72 - 128
1,1-Dichloroethane	25.0	21.3		ug/L		85	66 - 130
1,1-Dichloroethene	25.0	20.3		ug/L		81	62 - 130
1,1-Dichloropropene	25.0	22.1		ug/L		88	64 - 133
1,2,3-Trichlorobenzene	25.0	16.4	*-	ug/L		66	70 - 127
1,2,3-Trichloropropane	25.0	20.6		ug/L		82	74 - 123
1,2,4-Trichlorobenzene	25.0	21.9		ug/L		88	73 - 124
1,2,4-Trimethylbenzene	25.0	26.0		ug/L		104	74 - 124
1,2-Dibromo-3-Chloropropane	25.0	14.3	*-	ug/L		57	58 - 122
1,2-Dibromoethane	25.0	23.4		ug/L		94	81 - 118
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	77 - 121
1,2-Dichloroethane	25.0	20.4		ug/L		82	61 - 130
1,2-Dichloropropane	25.0	20.9		ug/L		84	68 - 127
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	73 - 127
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	76 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573649/4
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichloropropane	25.0	25.0		ug/L		100	80 - 118
1,4-Dichlorobenzene	25.0	26.1		ug/L		105	76 - 119
2,2-Dichloropropane	25.0	21.6		ug/L		87	57 - 140
2-Butanone (MEK)	100	69.3		ug/L		69	53 - 135
2-Chlorotoluene	25.0	23.6		ug/L		95	75 - 123
2-Hexanone	100	85.8		ug/L		86	58 - 134
4-Chlorotoluene	25.0	23.2		ug/L		93	74 - 124
4-Isopropyltoluene	25.0	26.1		ug/L		104	74 - 127
4-Methyl-2-pentanone	100	64.9		ug/L		65	56 - 135
Acetone	100	65.6		ug/L		66	50 - 137
Benzene	25.0	23.1		ug/L		92	69 - 126
Bromobenzene	25.0	24.6		ug/L		98	75 - 122
Bromochloromethane	25.0	19.2		ug/L		77	71 - 130
Bromodichloromethane	25.0	20.6		ug/L		83	67 - 126
Bromoform	25.0	18.2		ug/L		73	57 - 125
Bromomethane	25.0	17.4		ug/L		70	25 - 163
Carbon disulfide	25.0	19.8		ug/L		79	56 - 128
Carbon tetrachloride	25.0	20.4		ug/L		82	60 - 133
Chlorobenzene	25.0	27.2		ug/L		109	78 - 118
Chloroethane	25.0	24.0		ug/L		96	52 - 144
Chloroform	25.0	22.5		ug/L		90	68 - 128
Chloromethane	25.0	17.4		ug/L		70	43 - 142
cis-1,2-Dichloroethene	25.0	21.0		ug/L		84	69 - 126
cis-1,3-Dichloropropene	25.0	21.5		ug/L		86	75 - 120
Dibromochloromethane	25.0	21.4		ug/L		86	71 - 122
Dibromomethane	25.0	19.5		ug/L		78	68 - 129
Dichlorodifluoromethane	25.0	15.3		ug/L		61	26 - 152
Ethylbenzene	25.0	24.9		ug/L		100	76 - 121
Hexachlorobutadiene	25.0	21.2		ug/L		85	69 - 133
Isopropylbenzene	25.0	26.5		ug/L		106	70 - 127
Methylene Chloride	25.0	21.7		ug/L		87	64 - 128
Naphthalene	25.0	17.3		ug/L		69	63 - 129
n-Butylbenzene	25.0	25.6		ug/L		102	69 - 130
N-Propylbenzene	25.0	23.9		ug/L		95	73 - 127
sec-Butylbenzene	25.0	23.4		ug/L		93	72 - 127
Styrene	25.0	26.1		ug/L		105	79 - 120
tert-Butylbenzene	25.0	21.9		ug/L		87	72 - 126
Tetrachloroethene	25.0	24.4		ug/L		98	72 - 127
Toluene	25.0	23.3		ug/L		93	68 - 127
trans-1,2-Dichloroethene	25.0	21.3		ug/L		85	66 - 129
trans-1,3-Dichloropropene	25.0	19.7		ug/L		79	66 - 127
Trichloroethene	25.0	26.1		ug/L		104	70 - 125
Trichlorofluoromethane	25.0	20.2		ug/L		81	57 - 144
Vinyl chloride	25.0	18.8		ug/L		75	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573649/4
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*90*		*77 - 120*
Toluene-d8 (Surr)	*110*		*80 - 125*

Lab Sample ID: LCSD 280-573649/5
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	22.9		ug/L		92	74 - 121	0	20
1,1,1-Trichloroethane			25.0	20.8		ug/L		83	62 - 132	8	20
1,1,2,2-Tetrachloroethane			25.0	23.1		ug/L		92	72 - 122	4	20
1,1,2-Trichloroethane			25.0	20.5		ug/L		82	72 - 128	2	20
1,1-Dichloroethane			25.0	20.6		ug/L		82	66 - 130	3	20
1,1-Dichloroethene			25.0	19.0		ug/L		76	62 - 130	7	21
1,1-Dichloropropene			25.0	20.7		ug/L		83	64 - 133	6	20
1,2,3-Trichlorobenzene			25.0	18.5		ug/L		74	70 - 127	12	20
1,2,3-Trichloropropane			25.0	21.4		ug/L		86	74 - 123	4	20
1,2,4-Trichlorobenzene			25.0	22.7		ug/L		91	73 - 124	4	20
1,2,4-Trimethylbenzene			25.0	25.3		ug/L		101	74 - 124	3	20
1,2-Dibromo-3-Chloropropane			25.0	15.9		ug/L		64	58 - 122	11	21
1,2-Dibromoethane			25.0	23.7		ug/L		95	81 - 118	1	20
1,2-Dichlorobenzene			25.0	25.2		ug/L		101	77 - 121	2	20
1,2-Dichloroethane			25.0	20.3		ug/L		81	61 - 130	1	20
1,2-Dichloropropane			25.0	20.7		ug/L		83	68 - 127	1	20
1,3,5-Trimethylbenzene			25.0	24.7		ug/L		99	73 - 127	4	20
1,3-Dichlorobenzene			25.0	25.0		ug/L		100	76 - 121	4	20
1,3-Dichloropropane			25.0	25.5		ug/L		102	80 - 118	2	20
1,4-Dichlorobenzene			25.0	25.3		ug/L		101	76 - 119	3	20
2,2-Dichloropropane			25.0	20.4		ug/L		82	57 - 140	6	22
2-Butanone (MEK)			100	78.2		ug/L		78	53 - 135	12	20
2-Chlorotoluene			25.0	22.5		ug/L		90	75 - 123	5	20
2-Hexanone			100	97.3		ug/L		97	58 - 134	13	21
4-Chlorotoluene			25.0	22.3		ug/L		89	74 - 124	4	20
4-Isopropyltoluene			25.0	24.9		ug/L		100	74 - 127	5	20
4-Methyl-2-pentanone			100	73.0		ug/L		73	56 - 135	12	20
Acetone			100	72.8		ug/L		73	50 - 137	10	21
Benzene			25.0	22.3		ug/L		89	69 - 126	4	20
Bromobenzene			25.0	23.9		ug/L		96	75 - 122	3	20
Bromochloromethane			25.0	19.1		ug/L		76	71 - 130	1	20
Bromodichloromethane			25.0	20.0		ug/L		80	67 - 126	3	20
Bromoform			25.0	19.0		ug/L		76	57 - 125	4	20
Bromomethane			25.0	17.5		ug/L		70	25 - 163	0	40
Carbon disulfide			25.0	18.7		ug/L		75	56 - 128	6	20
Carbon tetrachloride			25.0	19.0		ug/L		76	60 - 133	7	20
Chlorobenzene			25.0	26.7		ug/L		107	78 - 118	2	20
Chloroethane			25.0	19.8		ug/L		79	52 - 144	19	30
Chloroform			25.0	21.5		ug/L		86	68 - 128	5	20
Chloromethane			25.0	18.0		ug/L		72	43 - 142	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573649/5
Matrix: Water
Analysis Batch: 573649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			25.0	20.6		ug/L		82	69 - 126	2	20
cis-1,3-Dichloropropene			25.0	21.3		ug/L		85	75 - 120	1	20
Dibromochloromethane			25.0	21.5		ug/L		86	71 - 122	0	20
Dibromomethane			25.0	20.2		ug/L		81	68 - 129	4	20
Dichlorodifluoromethane			25.0	15.5		ug/L		62	26 - 152	2	21
Ethylbenzene			25.0	23.9		ug/L		95	76 - 121	4	20
Hexachlorobutadiene			25.0	20.1		ug/L		80	69 - 133	6	20
Isopropylbenzene			25.0	25.2		ug/L		101	70 - 127	5	20
Methylene Chloride			25.0	21.2		ug/L		85	64 - 128	2	20
Naphthalene			25.0	20.3		ug/L		81	63 - 129	16	21
n-Butylbenzene			25.0	24.6		ug/L		98	69 - 130	4	20
N-Propylbenzene			25.0	22.5		ug/L		90	73 - 127	6	20
sec-Butylbenzene			25.0	22.1		ug/L		88	72 - 127	6	20
Styrene			25.0	25.6		ug/L		102	79 - 120	2	20
tert-Butylbenzene			25.0	20.8		ug/L		83	72 - 126	5	20
Tetrachloroethene			25.0	22.4		ug/L		90	72 - 127	8	20
Toluene			25.0	22.3		ug/L		89	68 - 127	4	20
trans-1,2-Dichloroethene			25.0	19.7		ug/L		79	66 - 129	8	20
trans-1,3-Dichloropropene			25.0	19.7		ug/L		79	66 - 127	0	20
Trichloroethene			25.0	24.5		ug/L		98	70 - 125	6	20
Trichlorofluoromethane			25.0	19.9		ug/L		80	57 - 144	2	28
Vinyl chloride			25.0	19.4		ug/L		78	53 - 141	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*90*		*77 - 120*
Toluene-d8 (Surr)	*109*		*80 - 125*

Lab Sample ID: MB 280-573914/8
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 22:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/04/22 22:21	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/04/22 22:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/04/22 22:21	1
1,1-Dichloroethane	ND		1.0		ug/L			05/04/22 22:21	1
1,1-Dichloroethene	ND		1.0		ug/L			05/04/22 22:21	1
1,1-Dichloropropene	ND		1.0		ug/L			05/04/22 22:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/22 22:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/04/22 22:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/22 22:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/04/22 22:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/22 22:21	1
1,2-Dibromoethane	ND		1.0		ug/L			05/04/22 22:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/04/22 22:21	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-573914/8
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0		ug/L			05/04/22 22:21	1
1,2-Dichloropropane	ND		1.0		ug/L			05/04/22 22:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/04/22 22:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/04/22 22:21	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/22 22:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/04/22 22:21	1
2,2-Dichloropropane	ND		5.0		ug/L			05/04/22 22:21	1
2-Butanone (MEK)	ND		6.0		ug/L			05/04/22 22:21	1
2-Chlorotoluene	ND		1.0		ug/L			05/04/22 22:21	1
2-Hexanone	ND		5.0		ug/L			05/04/22 22:21	1
4-Chlorotoluene	ND		1.0		ug/L			05/04/22 22:21	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/22 22:21	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/22 22:21	1
Acetone	ND		10		ug/L			05/04/22 22:21	1
Benzene	ND		1.0		ug/L			05/04/22 22:21	1
Bromobenzene	ND		1.0		ug/L			05/04/22 22:21	1
Bromochloromethane	ND		1.0		ug/L			05/04/22 22:21	1
Bromodichloromethane	ND		1.0		ug/L			05/04/22 22:21	1
Bromoform	ND		1.0		ug/L			05/04/22 22:21	1
Bromomethane	ND		2.0		ug/L			05/04/22 22:21	1
Carbon disulfide	ND		2.0		ug/L			05/04/22 22:21	1
Carbon tetrachloride	ND		1.0		ug/L			05/04/22 22:21	1
Chlorobenzene	ND		1.0		ug/L			05/04/22 22:21	1
Chloroethane	ND		2.0		ug/L			05/04/22 22:21	1
Chloroform	ND		1.0		ug/L			05/04/22 22:21	1
Chloromethane	ND		2.0		ug/L			05/04/22 22:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 22:21	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/04/22 22:21	1
Dibromochloromethane	ND		1.0		ug/L			05/04/22 22:21	1
Dibromomethane	ND		1.0		ug/L			05/04/22 22:21	1
Dichlorodifluoromethane	ND		2.0		ug/L			05/04/22 22:21	1
Ethylbenzene	ND		1.0		ug/L			05/04/22 22:21	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/22 22:21	1
Isopropylbenzene	ND		1.0		ug/L			05/04/22 22:21	1
Methylene Chloride	ND		5.0		ug/L			05/04/22 22:21	1
Naphthalene	ND		1.0		ug/L			05/04/22 22:21	1
n-Butylbenzene	ND		1.0		ug/L			05/04/22 22:21	1
N-Propylbenzene	ND		1.0		ug/L			05/04/22 22:21	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/22 22:21	1
Styrene	ND		1.0		ug/L			05/04/22 22:21	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/22 22:21	1
Tetrachloroethene	ND		1.0		ug/L			05/04/22 22:21	1
Toluene	ND		1.0		ug/L			05/04/22 22:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/04/22 22:21	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			05/04/22 22:21	1
Trichloroethene	ND		1.0		ug/L			05/04/22 22:21	1
Trichlorofluoromethane	ND		2.0		ug/L			05/04/22 22:21	1
Vinyl chloride	ND		1.0		ug/L			05/04/22 22:21	1
Xylenes (total)	ND		2.0		ug/L			05/04/22 22:21	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		05/04/22 22:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 127		05/04/22 22:21	1
4-Bromofluorobenzene (Surr)	100		78 - 120		05/04/22 22:21	1
Dibromofluoromethane (Surr)	96		77 - 120		05/04/22 22:21	1
Toluene-d8 (Surr)	100		80 - 125		05/04/22 22:21	1

Lab Sample ID: LCS 280-573914/4
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	26.6		ug/L		106	74 - 121
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	62 - 132
1,1,2,2-Tetrachloroethane	25.0	25.3		ug/L		101	72 - 122
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	72 - 128
1,1-Dichloroethane	25.0	25.9		ug/L		104	66 - 130
1,1-Dichloroethene	25.0	25.8		ug/L		103	62 - 130
1,1-Dichloropropene	25.0	25.9		ug/L		104	64 - 133
1,2,3-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 127
1,2,3-Trichloropropane	25.0	25.1		ug/L		100	74 - 123
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		106	73 - 124
1,2,4-Trimethylbenzene	25.0	27.4		ug/L		110	74 - 124
1,2-Dibromo-3-Chloropropane	25.0	21.5		ug/L		86	58 - 122
1,2-Dibromoethane	25.0	26.3		ug/L		105	81 - 118
1,2-Dichlorobenzene	25.0	27.3		ug/L		109	77 - 121
1,2-Dichloroethane	25.0	23.2		ug/L		93	61 - 130
1,2-Dichloropropane	25.0	24.7		ug/L		99	68 - 127
1,3,5-Trimethylbenzene	25.0	27.1		ug/L		108	73 - 127
1,3-Dichlorobenzene	25.0	26.9		ug/L		107	76 - 121
1,3-Dichloropropane	25.0	26.4		ug/L		106	80 - 118
1,4-Dichlorobenzene	25.0	26.9		ug/L		107	76 - 119
2,2-Dichloropropane	25.0	30.5		ug/L		122	57 - 140
2-Butanone (MEK)	100	77.2		ug/L		77	53 - 135
2-Chlorotoluene	25.0	27.8		ug/L		111	75 - 123
2-Hexanone	100	86.2		ug/L		86	58 - 134
4-Chlorotoluene	25.0	26.2		ug/L		105	74 - 124
4-Isopropyltoluene	25.0	26.9		ug/L		107	74 - 127
4-Methyl-2-pentanone	100	96.6		ug/L		97	56 - 135
Acetone	100	82.1		ug/L		82	50 - 137
Benzene	25.0	25.7		ug/L		103	69 - 126
Bromobenzene	25.0	25.6		ug/L		102	75 - 122
Bromochloromethane	25.0	26.8		ug/L		107	71 - 130
Bromodichloromethane	25.0	25.3		ug/L		101	67 - 126
Bromoform	25.0	22.6		ug/L		91	57 - 125
Bromomethane	25.0	31.4		ug/L		126	25 - 163
Carbon disulfide	25.0	30.2		ug/L		121	56 - 128
Carbon tetrachloride	25.0	26.5		ug/L		106	60 - 133
Chlorobenzene	25.0	26.1		ug/L		104	78 - 118
Chloroethane	25.0	26.4		ug/L		106	52 - 144

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-573914/4
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	25.0	25.1		ug/L		101	68 - 128
Chloromethane	25.0	25.7		ug/L		103	43 - 142
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	69 - 126
cis-1,3-Dichloropropene	25.0	27.1		ug/L		108	75 - 120
Dibromochloromethane	25.0	26.0		ug/L		104	71 - 122
Dibromomethane	25.0	24.9		ug/L		99	68 - 129
Dichlorodifluoromethane	25.0	23.2		ug/L		93	26 - 152
Ethylbenzene	25.0	25.7		ug/L		103	76 - 121
Hexachlorobutadiene	25.0	24.5		ug/L		98	69 - 133
Isopropylbenzene	25.0	27.1		ug/L		108	70 - 127
Methylene Chloride	25.0	23.8		ug/L		95	64 - 128
Naphthalene	25.0	25.2		ug/L		101	63 - 129
n-Butylbenzene	25.0	27.5		ug/L		110	69 - 130
N-Propylbenzene	25.0	25.8		ug/L		103	73 - 127
sec-Butylbenzene	25.0	26.8		ug/L		107	72 - 127
Styrene	25.0	25.1		ug/L		101	79 - 120
tert-Butylbenzene	25.0	26.8		ug/L		107	72 - 126
Tetrachloroethene	25.0	26.4		ug/L		106	72 - 127
Toluene	25.0	25.2		ug/L		101	68 - 127
trans-1,2-Dichloroethene	25.0	26.4		ug/L		106	66 - 129
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	66 - 127
Trichloroethene	25.0	24.8		ug/L		99	70 - 125
Trichlorofluoromethane	25.0	26.6		ug/L		106	57 - 144
Vinyl chloride	25.0	26.3		ug/L		105	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Lab Sample ID: LCSD 280-573914/5
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.8		ug/L		107	74 - 121	1	20
1,1,1-Trichloroethane	25.0	25.8		ug/L		103	62 - 132	2	20
1,1,2,2-Tetrachloroethane	25.0	26.2		ug/L		105	72 - 122	4	20
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	72 - 128	2	20
1,1-Dichloroethane	25.0	25.9		ug/L		104	66 - 130	0	20
1,1-Dichloroethene	25.0	26.1		ug/L		104	62 - 130	1	21
1,1-Dichloropropene	25.0	26.5		ug/L		106	64 - 133	2	20
1,2,3-Trichlorobenzene	25.0	28.0		ug/L		112	70 - 127	7	20
1,2,3-Trichloropropane	25.0	25.8		ug/L		103	74 - 123	3	20
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	73 - 124	4	20
1,2,4-Trimethylbenzene	25.0	28.3		ug/L		113	74 - 124	3	20
1,2-Dibromo-3-Chloropropane	25.0	25.0		ug/L		100	58 - 122	15	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573914/5
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane	25.0	26.5		ug/L		106	81 - 118	1	20
1,2-Dichlorobenzene	25.0	27.6		ug/L		110	77 - 121	1	20
1,2-Dichloroethane	25.0	22.6		ug/L		90	61 - 130	3	20
1,2-Dichloropropane	25.0	25.0		ug/L		100	68 - 127	1	20
1,3,5-Trimethylbenzene	25.0	28.0		ug/L		112	73 - 127	3	20
1,3-Dichlorobenzene	25.0	28.0		ug/L		112	76 - 121	4	20
1,3-Dichloropropane	25.0	27.1		ug/L		108	80 - 118	2	20
1,4-Dichlorobenzene	25.0	26.8		ug/L		107	76 - 119	0	20
2,2-Dichloropropane	25.0	26.7		ug/L		107	57 - 140	14	22
2-Butanone (MEK)	100	82.7		ug/L		83	53 - 135	7	20
2-Chlorotoluene	25.0	29.0		ug/L		116	75 - 123	4	20
2-Hexanone	100	95.1		ug/L		95	58 - 134	10	21
4-Chlorotoluene	25.0	26.2		ug/L		105	74 - 124	0	20
4-Isopropyltoluene	25.0	29.1		ug/L		117	74 - 127	8	20
4-Methyl-2-pentanone	100	103		ug/L		103	56 - 135	6	20
Acetone	100	81.1		ug/L		81	50 - 137	1	21
Benzene	25.0	26.3		ug/L		105	69 - 126	2	20
Bromobenzene	25.0	26.0		ug/L		104	75 - 122	2	20
Bromochloromethane	25.0	26.1		ug/L		104	71 - 130	3	20
Bromodichloromethane	25.0	25.4		ug/L		102	67 - 126	1	20
Bromoform	25.0	23.4		ug/L		93	57 - 125	3	20
Bromomethane	25.0	30.5		ug/L		122	25 - 163	3	40
Carbon disulfide	25.0	27.5		ug/L		110	56 - 128	9	20
Carbon tetrachloride	25.0	27.6		ug/L		110	60 - 133	4	20
Chlorobenzene	25.0	25.9		ug/L		103	78 - 118	1	20
Chloroethane	25.0	26.6		ug/L		106	52 - 144	1	30
Chloroform	25.0	25.9		ug/L		104	68 - 128	3	20
Chloromethane	25.0	24.0		ug/L		96	43 - 142	7	20
cis-1,2-Dichloroethene	25.0	27.4		ug/L		110	69 - 126	3	20
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	75 - 120	0	20
Dibromochloromethane	25.0	27.3		ug/L		109	71 - 122	5	20
Dibromomethane	25.0	25.6		ug/L		103	68 - 129	3	20
Dichlorodifluoromethane	25.0	23.0		ug/L		92	26 - 152	1	21
Ethylbenzene	25.0	27.2		ug/L		109	76 - 121	6	20
Hexachlorobutadiene	25.0	27.4		ug/L		110	69 - 133	11	20
Isopropylbenzene	25.0	28.2		ug/L		113	70 - 127	4	20
Methylene Chloride	25.0	23.5		ug/L		94	64 - 128	1	20
Naphthalene	25.0	27.9		ug/L		112	63 - 129	10	21
n-Butylbenzene	25.0	29.7		ug/L		119	69 - 130	8	20
N-Propylbenzene	25.0	27.0		ug/L		108	73 - 127	4	20
sec-Butylbenzene	25.0	28.4		ug/L		114	72 - 127	6	20
Styrene	25.0	26.2		ug/L		105	79 - 120	4	20
tert-Butylbenzene	25.0	28.0		ug/L		112	72 - 126	4	20
Tetrachloroethene	25.0	26.9		ug/L		108	72 - 127	2	20
Toluene	25.0	26.2		ug/L		105	68 - 127	4	20
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	66 - 129	3	20
trans-1,3-Dichloropropene	25.0	24.1		ug/L		96	66 - 127	2	20
Trichloroethene	25.0	25.4		ug/L		102	70 - 125	3	20
Trichlorofluoromethane	25.0	33.1		ug/L		132	57 - 144	22	28

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-573914/5
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride			25.0	26.9		ug/L		108	53 - 141	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: 280-161411-A-4 MS
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		25.0	26.0		ug/L		104	74 - 121
1,1,1-Trichloroethane	ND		25.0	25.2		ug/L		101	62 - 132
1,1,2,2-Tetrachloroethane	ND		25.0	25.8		ug/L		103	72 - 122
1,1,2-Trichloroethane	ND		25.0	25.6		ug/L		102	72 - 128
1,1-Dichloroethane	ND		25.0	25.6		ug/L		102	66 - 130
1,1-Dichloroethene	ND		25.0	25.4		ug/L		102	62 - 130
1,1-Dichloropropene	ND		25.0	25.3		ug/L		101	64 - 133
1,2,3-Trichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 127
1,2,3-Trichloropropane	ND		25.0	25.9		ug/L		103	74 - 123
1,2,4-Trichlorobenzene	ND		25.0	24.9		ug/L		100	73 - 124
1,2,4-Trimethylbenzene	ND		25.0	26.5		ug/L		106	74 - 124
1,2-Dibromo-3-Chloropropane	ND		25.0	23.2		ug/L		93	58 - 122
1,2-Dibromoethane	ND		25.0	26.9		ug/L		108	81 - 118
1,2-Dichlorobenzene	ND		25.0	26.4		ug/L		106	77 - 121
1,2-Dichloroethane	ND		25.0	22.3		ug/L		89	61 - 130
1,2-Dichloropropane	ND		25.0	24.9		ug/L		100	68 - 127
1,3,5-Trimethylbenzene	ND		25.0	25.9		ug/L		104	73 - 127
1,3-Dichlorobenzene	ND		25.0	26.3		ug/L		105	76 - 121
1,3-Dichloropropane	ND		25.0	26.1		ug/L		105	80 - 118
1,4-Dichlorobenzene	ND		25.0	25.6		ug/L		102	76 - 119
2,2-Dichloropropane	ND		25.0	24.7		ug/L		99	57 - 140
2-Butanone (MEK)	ND		100	81.7		ug/L		82	53 - 135
2-Chlorotoluene	ND		25.0	26.0		ug/L		104	75 - 123
2-Hexanone	ND		100	94.8		ug/L		95	58 - 134
4-Chlorotoluene	ND		25.0	24.8		ug/L		99	74 - 124
4-Isopropyltoluene	ND		25.0	25.7		ug/L		103	74 - 127
4-Methyl-2-pentanone	ND		100	107		ug/L		107	56 - 135
Acetone	ND		100	81.5		ug/L		81	50 - 137
Benzene	ND		25.0	25.5		ug/L		102	69 - 126
Bromobenzene	ND		25.0	24.9		ug/L		100	75 - 122
Bromochloromethane	ND		25.0	26.0		ug/L		104	71 - 130
Bromodichloromethane	ND		25.0	25.0		ug/L		100	67 - 126
Bromoform	ND		25.0	23.5		ug/L		94	57 - 125
Bromomethane	ND		25.0	30.6		ug/L		123	25 - 163
Carbon disulfide	ND		25.0	25.7		ug/L		103	56 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161411-A-4 MS
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	ND		25.0	25.6		ug/L		102	60 - 133
Chlorobenzene	ND		25.0	25.8		ug/L		103	78 - 118
Chloroethane	ND		25.0	24.2		ug/L		97	52 - 144
Chloroform	ND		25.0	25.1		ug/L		100	68 - 128
Chloromethane	ND		25.0	24.5		ug/L		98	43 - 142
cis-1,2-Dichloroethene	ND		25.0	27.0		ug/L		108	69 - 126
cis-1,3-Dichloropropene	ND		25.0	25.8		ug/L		103	75 - 120
Dibromochloromethane	ND		25.0	25.5		ug/L		102	71 - 122
Dibromomethane	ND		25.0	25.3		ug/L		101	68 - 129
Dichlorodifluoromethane	ND		25.0	23.3		ug/L		93	26 - 152
Ethylbenzene	ND		25.0	25.8		ug/L		103	76 - 121
Hexachlorobutadiene	ND		25.0	22.5		ug/L		90	69 - 133
Isopropylbenzene	ND		25.0	26.2		ug/L		105	70 - 127
Methylene Chloride	ND		25.0	23.4		ug/L		94	64 - 128
Naphthalene	ND		25.0	25.7		ug/L		103	63 - 129
n-Butylbenzene	ND		25.0	25.4		ug/L		102	69 - 130
N-Propylbenzene	ND		25.0	24.5		ug/L		98	73 - 127
sec-Butylbenzene	ND		25.0	25.3		ug/L		101	72 - 127
Styrene	ND		25.0	24.8		ug/L		99	79 - 120
tert-Butylbenzene	ND		25.0	25.4		ug/L		102	72 - 126
Tetrachloroethene	ND		25.0	25.0		ug/L		100	72 - 127
Toluene	ND		25.0	25.4		ug/L		101	68 - 127
trans-1,2-Dichloroethene	ND		25.0	26.4		ug/L		106	66 - 129
trans-1,3-Dichloropropene	ND		25.0	23.2		ug/L		93	66 - 127
Trichloroethene	ND		25.0	24.2		ug/L		97	70 - 125
Trichlorofluoromethane	ND		25.0	23.8		ug/L		95	57 - 144
Vinyl chloride	ND		25.0	26.1		ug/L		104	53 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Lab Sample ID: 280-161411-B-4 MSD
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	28.1		ug/L		112	74 - 121	8	20
1,1,1-Trichloroethane	ND		25.0	27.0		ug/L		108	62 - 132	7	20
1,1,2,2-Tetrachloroethane	ND		25.0	28.3		ug/L		113	72 - 122	9	20
1,1,2-Trichloroethane	ND		25.0	27.4		ug/L		110	72 - 128	7	20
1,1-Dichloroethane	ND		25.0	27.5		ug/L		110	66 - 130	7	20
1,1-Dichloroethene	ND		25.0	26.9		ug/L		108	62 - 130	6	21
1,1-Dichloropropene	ND		25.0	26.8		ug/L		107	64 - 133	6	20
1,2,3-Trichlorobenzene	ND		25.0	28.3		ug/L		113	70 - 127	10	20
1,2,3-Trichloropropane	ND		25.0	28.1		ug/L		112	74 - 123	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161411-B-4 MSD
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		25.0	27.8		ug/L		111	73 - 124	11	20
1,2,4-Trimethylbenzene	ND		25.0	28.6		ug/L		114	74 - 124	7	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.1		ug/L		101	58 - 122	8	21
1,2-Dibromoethane	ND		25.0	28.5		ug/L		114	81 - 118	6	20
1,2-Dichlorobenzene	ND		25.0	28.2		ug/L		113	77 - 121	7	20
1,2-Dichloroethane	ND		25.0	23.4		ug/L		94	61 - 130	5	20
1,2-Dichloropropane	ND		25.0	26.7		ug/L		107	68 - 127	7	20
1,3,5-Trimethylbenzene	ND		25.0	28.4		ug/L		114	73 - 127	9	20
1,3-Dichlorobenzene	ND		25.0	28.4		ug/L		113	76 - 121	8	20
1,3-Dichloropropane	ND		25.0	28.4		ug/L		114	80 - 118	8	20
1,4-Dichlorobenzene	ND		25.0	26.8		ug/L		107	76 - 119	4	20
2,2-Dichloropropane	ND		25.0	26.2		ug/L		105	57 - 140	6	22
2-Butanone (MEK)	ND		100	85.1		ug/L		85	53 - 135	4	20
2-Chlorotoluene	ND		25.0	29.3		ug/L		117	75 - 123	12	20
2-Hexanone	ND		100	103		ug/L		103	58 - 134	8	21
4-Chlorotoluene	ND		25.0	26.9		ug/L		108	74 - 124	8	20
4-Isopropyltoluene	ND		25.0	28.1		ug/L		113	74 - 127	9	20
4-Methyl-2-pentanone	ND		100	113		ug/L		113	56 - 135	5	20
Acetone	ND		100	88.8		ug/L		89	50 - 137	9	21
Benzene	ND		25.0	27.4		ug/L		109	69 - 126	7	20
Bromobenzene	ND		25.0	26.4		ug/L		105	75 - 122	6	20
Bromochloromethane	ND		25.0	27.8		ug/L		111	71 - 130	7	20
Bromodichloromethane	ND		25.0	26.5		ug/L		106	67 - 126	6	20
Bromoform	ND		25.0	25.0		ug/L		100	57 - 125	6	20
Bromomethane	ND		25.0	32.0		ug/L		128	25 - 163	4	40
Carbon disulfide	ND		25.0	28.2		ug/L		113	56 - 128	9	20
Carbon tetrachloride	ND		25.0	27.8		ug/L		111	60 - 133	8	20
Chlorobenzene	ND		25.0	28.0		ug/L		112	78 - 118	8	20
Chloroethane	ND		25.0	26.9		ug/L		108	52 - 144	11	30
Chloroform	ND		25.0	26.7		ug/L		107	68 - 128	6	20
Chloromethane	ND		25.0	25.7		ug/L		103	43 - 142	4	20
cis-1,2-Dichloroethene	ND		25.0	28.4		ug/L		114	69 - 126	5	20
cis-1,3-Dichloropropene	ND		25.0	27.9		ug/L		112	75 - 120	8	20
Dibromochloromethane	ND		25.0	28.8		ug/L		115	71 - 122	12	20
Dibromomethane	ND		25.0	26.1		ug/L		104	68 - 129	3	20
Dichlorodifluoromethane	ND		25.0	23.9		ug/L		96	26 - 152	2	21
Ethylbenzene	ND		25.0	28.7		ug/L		115	76 - 121	10	20
Hexachlorobutadiene	ND		25.0	25.1		ug/L		100	69 - 133	11	20
Isopropylbenzene	ND		25.0	28.7		ug/L		115	70 - 127	9	20
Methylene Chloride	ND		25.0	25.1		ug/L		101	64 - 128	7	20
Naphthalene	ND		25.0	28.6		ug/L		115	63 - 129	11	21
n-Butylbenzene	ND		25.0	28.0		ug/L		112	69 - 130	10	20
N-Propylbenzene	ND		25.0	26.9		ug/L		108	73 - 127	9	20
sec-Butylbenzene	ND		25.0	27.8		ug/L		111	72 - 127	10	20
Styrene	ND		25.0	27.7		ug/L		111	79 - 120	11	20
tert-Butylbenzene	ND		25.0	27.9		ug/L		112	72 - 126	9	20
Tetrachloroethene	ND		25.0	27.8		ug/L		111	72 - 127	11	20
Toluene	ND		25.0	27.1		ug/L		108	68 - 127	6	20
trans-1,2-Dichloroethene	ND		25.0	28.2		ug/L		113	66 - 129	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-161411-B-4 MSD
Matrix: Water
Analysis Batch: 573914

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	ND		25.0	23.8		ug/L		95	66 - 127	2	20
Trichloroethene	ND		25.0	26.8		ug/L		107	70 - 125	10	20
Trichlorofluoromethane	ND		25.0	25.8		ug/L		103	57 - 144	8	28
Vinyl chloride	ND		25.0	27.2		ug/L		109	53 - 141	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

Method: 6010B - Metals (ICP)

Lab Sample ID: 280-161812-C-1-B MS
Matrix: Water
Analysis Batch: 574120

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 573814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silicon	13000		2000	15100	4	ug/L		121	79 - 140
Silver	ND		50.0	52.5		ug/L		105	75 - 141
Zinc	ND		500	481		ug/L		95	60 - 137

Lab Sample ID: 280-161812-C-1-C MSD
Matrix: Water
Analysis Batch: 574120

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 573814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silicon	13000		2000	15100	4	ug/L		120	79 - 140	0	20
Silver	ND		50.0	52.9		ug/L		106	75 - 141	1	20
Zinc	ND		500	486		ug/L		96	60 - 137	1	20

Lab Sample ID: MB 280-573691/1-A
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	ND		100		ug/L		05/04/22 10:41	05/05/22 07:26	1
Silver	ND		3.0		ug/L		05/04/22 10:41	05/05/22 07:26	1
Zinc	ND		26		ug/L		05/04/22 10:41	05/05/22 07:26	1

Lab Sample ID: LCS 280-573691/2-A
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silicon	2000	2020		ug/L		101	90 - 110
Silver	50.0	50.7		ug/L		101	86 - 115
Zinc	500	484		ug/L		97	85 - 111

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-161233-C-1-B MS
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 573691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silicon	28000		2000	30600	4	ug/L		135	79 - 140
Silver	ND		50.0	55.2		ug/L		110	75 - 141
Zinc	ND		500	486		ug/L		97	60 - 137

Lab Sample ID: 280-161233-C-1-C MSD
Matrix: Water
Analysis Batch: 574011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 573691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silicon	28000		2000	29100	4	ug/L		60	79 - 140	5	20
Silver	ND		50.0	53.2		ug/L		106	75 - 141	4	20
Zinc	ND		500	470		ug/L		94	60 - 137	3	20

Lab Sample ID: MB 280-573718/1-A
Matrix: Water
Analysis Batch: 574034

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573718

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		05/04/22 09:55	05/05/22 09:47	1
Iron	ND		30		ug/L		05/04/22 09:55	05/05/22 09:47	1
Magnesium	ND		200		ug/L		05/04/22 09:55	05/05/22 09:47	1
Manganese	ND		3.0		ug/L		05/04/22 09:55	05/05/22 09:47	1
Potassium	ND		500		ug/L		05/04/22 09:55	05/05/22 09:47	1
Sodium	ND		1000		ug/L		05/04/22 09:55	05/05/22 09:47	1

Lab Sample ID: LCS 280-573718/2-A
Matrix: Water
Analysis Batch: 574115

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	49400		ug/L		99	90 - 111
Iron	10000	9800		ug/L		98	89 - 115
Magnesium	50000	48500		ug/L		97	90 - 113
Manganese	1000	960		ug/L		96	90 - 110
Potassium	50000	49300		ug/L		99	89 - 114
Sodium	50000	49600		ug/L		99	90 - 115

Lab Sample ID: MB 280-573814/1-A
Matrix: Water
Analysis Batch: 574120

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	ND		100		ug/L		05/05/22 09:39	05/05/22 19:11	1
Silver	ND		3.0		ug/L		05/05/22 09:39	05/05/22 19:11	1
Zinc	ND		26		ug/L		05/05/22 09:39	05/05/22 19:11	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-573814/2-A
Matrix: Water
Analysis Batch: 574120

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573814

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Silicon			2000	2090		ug/L		105	90 - 110		
Silver			50.0	52.1		ug/L		104	86 - 115		
Zinc			500	482		ug/L		96	85 - 111		

Lab Sample ID: 280-161446-2 MS
Matrix: Water
Analysis Batch: 574148

Client Sample ID: 1/5P
Prep Type: Dissolved
Prep Batch: 573718

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	80000		50000	125000		ug/L		91	48 - 153		
Iron	2800		10000	12000		ug/L		92	52 - 155		
Magnesium	87000		50000	132000		ug/L		90	62 - 146		
Manganese	820		1000	1710		ug/L		89	79 - 121		
Potassium	260000		50000	313000	4	ug/L		103	76 - 132		
Sodium	1100000	F1	50000	1160000	4	ug/L		190	70 - 203		

Lab Sample ID: 280-161446-2 MSD
Matrix: Water
Analysis Batch: 574148

Client Sample ID: 1/5P
Prep Type: Dissolved
Prep Batch: 573718

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	80000		50000	129000		ug/L		98	48 - 153	3	20
Iron	2800		10000	12300		ug/L		95	52 - 155	3	20
Magnesium	87000		50000	137000		ug/L		99	62 - 146	3	20
Manganese	820		1000	1760		ug/L		94	79 - 121	3	20
Potassium	260000		50000	320000	4	ug/L		118	76 - 132	2	20
Sodium	1100000	F1	50000	1200000	4	ug/L		262	70 - 203	3	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-573706/1-A
Matrix: Water
Analysis Batch: 573944

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 573706

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.60		ug/L		05/04/22 08:40	05/04/22 19:33	1
Arsenic	ND		1.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Barium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Beryllium	ND		0.40		ug/L		05/04/22 08:40	05/04/22 19:33	1
Cadmium	ND		0.30		ug/L		05/04/22 08:40	05/04/22 19:33	1
Chromium	ND		2.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Cobalt	ND		0.20		ug/L		05/04/22 08:40	05/04/22 19:33	1
Copper	ND		1.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Lead	ND		0.50		ug/L		05/04/22 08:40	05/04/22 19:33	1
Nickel	ND		1.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Selenium	ND		1.0		ug/L		05/04/22 08:40	05/04/22 19:33	1
Thallium	ND		0.20		ug/L		05/04/22 08:40	05/04/22 19:33	1
Vanadium	ND		3.0		ug/L		05/04/22 08:40	05/04/22 19:33	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-573706/2-A
Matrix: Water
Analysis Batch: 573944

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 573706

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	40.0	42.9		ug/L		107	85 - 115
Arsenic	40.0	42.3		ug/L		106	85 - 117
Barium	40.0	41.1		ug/L		103	85 - 118
Beryllium	40.0	41.7		ug/L		104	80 - 125
Cadmium	40.0	41.3		ug/L		103	85 - 115
Chromium	40.0	42.8		ug/L		107	84 - 121
Cobalt	40.0	41.8		ug/L		104	85 - 120
Copper	40.0	43.1		ug/L		108	85 - 119
Lead	40.0	41.6		ug/L		104	85 - 118
Nickel	40.0	42.4		ug/L		106	85 - 119
Selenium	40.0	41.2		ug/L		103	77 - 122
Thallium	40.0	41.2		ug/L		103	85 - 118
Vanadium	40.0	42.6		ug/L		107	85 - 120

Lab Sample ID: MB 280-574522/1-A
Matrix: Water
Analysis Batch: 574842

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 574522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.60		ug/L		05/12/22 09:40	05/13/22 00:34	1
Arsenic	ND		1.0		ug/L		05/12/22 09:40	05/13/22 00:34	1
Barium	ND		1.0		ug/L		05/12/22 09:40	05/13/22 00:34	1
Beryllium	ND		0.40		ug/L		05/12/22 09:40	05/13/22 00:34	1
Cadmium	ND		0.30		ug/L		05/12/22 09:40	05/13/22 00:34	1
Chromium	ND		2.0		ug/L		05/12/22 09:40	05/13/22 00:34	1
Cobalt	ND		0.20		ug/L		05/12/22 09:40	05/13/22 00:34	1
Copper	ND		1.0		ug/L		05/12/22 09:40	05/13/22 00:34	1
Lead	ND		0.50		ug/L		05/12/22 09:40	05/13/22 00:34	1
Nickel	ND		1.0		ug/L		05/12/22 09:40	05/13/22 00:34	1
Selenium	ND		1.0		ug/L		05/12/22 09:40	05/13/22 00:34	1
Thallium	ND		0.20		ug/L		05/12/22 09:40	05/13/22 00:34	1
Vanadium	ND		3.0		ug/L		05/12/22 09:40	05/13/22 00:34	1

Lab Sample ID: LCS 280-574522/2-A
Matrix: Water
Analysis Batch: 574842

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 574522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	40.0	41.1		ug/L		103	85 - 115
Arsenic	40.0	39.1		ug/L		98	85 - 117
Barium	40.0	39.6		ug/L		99	85 - 118
Beryllium	40.0	38.4		ug/L		96	80 - 125
Cadmium	40.0	39.3		ug/L		98	85 - 115
Chromium	40.0	40.4		ug/L		101	84 - 121
Cobalt	40.0	39.5		ug/L		99	85 - 120
Copper	40.0	42.3		ug/L		106	85 - 119
Lead	40.0	40.0		ug/L		100	85 - 118
Nickel	40.0	40.2		ug/L		101	85 - 119
Selenium	40.0	37.9		ug/L		95	77 - 122

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-574522/2-A
Matrix: Water
Analysis Batch: 574842

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 574522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	40.0	39.3		ug/L		98	85 - 118
Vanadium	40.0	40.9		ug/L		102	85 - 120

Lab Sample ID: 280-161614-K-1-G MS
Matrix: Water
Analysis Batch: 574842

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 574522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		40.0	41.0		ug/L		103	85 - 115
Arsenic	50		40.0	88.4		ug/L		95	85 - 117
Barium	290		40.0	329	4	ug/L		89	85 - 118
Beryllium	ND		40.0	41.5		ug/L		104	80 - 125
Cadmium	ND		40.0	39.4		ug/L		99	85 - 115
Chromium	ND		40.0	40.1		ug/L		99	84 - 121
Cobalt	3.0		40.0	40.7		ug/L		94	85 - 120
Copper	1.1		40.0	40.4		ug/L		98	85 - 119
Lead	0.61		40.0	39.4		ug/L		97	85 - 118
Nickel	8.3		40.0	46.3		ug/L		95	85 - 119
Selenium	ND		40.0	39.9		ug/L		98	77 - 122
Thallium	ND		40.0	39.2		ug/L		98	85 - 118
Vanadium	ND		40.0	43.3		ug/L		104	85 - 120

Lab Sample ID: 280-161614-K-1-H MSD
Matrix: Water
Analysis Batch: 574842

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 574522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		40.0	41.5		ug/L		104	85 - 115	1	20
Arsenic	50		40.0	89.4		ug/L		98	85 - 117	1	20
Barium	290		40.0	327	4	ug/L		86	85 - 118	0	20
Beryllium	ND		40.0	39.7		ug/L		99	80 - 125	4	20
Cadmium	ND		40.0	37.6		ug/L		94	85 - 115	5	20
Chromium	ND		40.0	39.7		ug/L		98	84 - 121	1	20
Cobalt	3.0		40.0	40.9		ug/L		95	85 - 120	0	20
Copper	1.1		40.0	39.4		ug/L		96	85 - 119	3	20
Lead	0.61		40.0	38.5		ug/L		95	85 - 118	2	20
Nickel	8.3		40.0	46.5		ug/L		96	85 - 119	0	20
Selenium	ND		40.0	38.4		ug/L		95	77 - 122	4	20
Thallium	ND		40.0	38.0		ug/L		95	85 - 118	3	20
Vanadium	ND		40.0	40.6		ug/L		97	85 - 120	6	20

Lab Sample ID: 280-161727-J-1-E MS
Matrix: Water
Analysis Batch: 573944

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 573706

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	2.2		40.0	44.8		ug/L		107	85 - 115
Arsenic	2.6		40.0	44.3		ug/L		104	85 - 117
Barium	70		40.0	112		ug/L		106	85 - 118

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-161727-J-1-E MS
Matrix: Water
Analysis Batch: 573944

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 573706

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		40.0	42.2		ug/L		105	80 - 125
Cadmium	ND		40.0	40.8		ug/L		102	85 - 115
Chromium	ND		40.0	42.6		ug/L		107	84 - 121
Cobalt	0.39		40.0	40.4		ug/L		100	85 - 120
Copper	ND		40.0	39.6		ug/L		99	85 - 119
Lead	ND		40.0	39.7		ug/L		99	85 - 118
Nickel	ND		40.0	40.6		ug/L		99	85 - 119
Selenium	ND		40.0	40.2		ug/L		99	77 - 122
Thallium	ND		40.0	39.1		ug/L		98	85 - 118
Vanadium	3.5		40.0	46.4		ug/L		107	85 - 120

Lab Sample ID: 280-161727-J-1-F MSD
Matrix: Water
Analysis Batch: 573944

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 573706

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	2.2		40.0	45.7		ug/L		109	85 - 115	2	20
Arsenic	2.6		40.0	45.0		ug/L		106	85 - 117	1	20
Barium	70		40.0	114		ug/L		110	85 - 118	1	20
Beryllium	ND		40.0	43.4		ug/L		109	80 - 125	3	20
Cadmium	ND		40.0	42.9		ug/L		107	85 - 115	5	20
Chromium	ND		40.0	41.3		ug/L		103	84 - 121	3	20
Cobalt	0.39		40.0	40.7		ug/L		101	85 - 120	1	20
Copper	ND		40.0	40.4		ug/L		101	85 - 119	2	20
Lead	ND		40.0	40.1		ug/L		100	85 - 118	1	20
Nickel	ND		40.0	39.3		ug/L		96	85 - 119	3	20
Selenium	ND		40.0	40.9		ug/L		101	77 - 122	2	20
Thallium	ND		40.0	39.6		ug/L		99	85 - 118	1	20
Vanadium	3.5		40.0	45.4		ug/L		105	85 - 120	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-574260/6
Matrix: Water
Analysis Batch: 574260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			05/09/22 12:06	1
Sulfate	ND		5.0		mg/L			05/09/22 12:06	1

Lab Sample ID: LCS 280-574260/4
Matrix: Water
Analysis Batch: 574260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	99.2		mg/L		99	90 - 110
Sulfate	100	91.0		mg/L		91	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-574260/5
Matrix: Water
Analysis Batch: 574260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	99.3		mg/L		99	90 - 110	0	10
Sulfate			100	91.1		mg/L		91	90 - 110	0	10

Lab Sample ID: MRL 280-574260/3
Matrix: Water
Analysis Batch: 574260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.64		mg/L		93	50 - 150		
Sulfate			5.00	ND		mg/L		91	50 - 150		

Lab Sample ID: 280-161446-4 MS
Matrix: Water
Analysis Batch: 574260

Client Sample ID: FB2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		50.0	56.9		mg/L		114	80 - 120		
Sulfate	ND		50.0	55.9		mg/L		112	80 - 120		

Lab Sample ID: 280-161446-4 MSD
Matrix: Water
Analysis Batch: 574260

Client Sample ID: FB2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.0	51.0		mg/L		102	80 - 120	11	20
Sulfate	ND		50.0	49.4		mg/L		99	80 - 120	12	20

Lab Sample ID: 280-161446-4 DU
Matrix: Water
Analysis Batch: 574260

Client Sample ID: FB2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	ND			ND		mg/L				NC	15
Sulfate	ND			ND		mg/L				NC	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-573617/90
Matrix: Water
Analysis Batch: 573617

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.040		mg/L			05/02/22 14:41	1

Lab Sample ID: LCS 280-573617/89
Matrix: Water
Analysis Batch: 573617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N			2.50	2.51		mg/L		101	90 - 110		

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 280-161400-D-11 MS
Matrix: Water
Analysis Batch: 573617

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	ND		1.00	1.09		mg/L		109	90 - 110		

Lab Sample ID: 280-161400-D-11 MSD
Matrix: Water
Analysis Batch: 573617

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.10		mg/L		110	90 - 110	1	10

Lab Sample ID: MB 280-574325/18
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.040		mg/L			05/09/22 12:50	1

Lab Sample ID: LCS 280-574325/17
Matrix: Water
Analysis Batch: 574325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N			5.00	4.85		mg/L		97	90 - 110		

Lab Sample ID: 280-161446-4 MS
Matrix: Water
Analysis Batch: 574325

Client Sample ID: FB2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	ND		1.00	1.05		mg/L		105	90 - 110		

Lab Sample ID: 280-161446-4 MSD
Matrix: Water
Analysis Batch: 574325

Client Sample ID: FB2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.05		mg/L		105	90 - 110	0	10

Lab Sample ID: MB 280-574631/90
Matrix: Water
Analysis Batch: 574631

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.040		mg/L			05/10/22 13:52	1

Lab Sample ID: LCS 280-574631/88
Matrix: Water
Analysis Batch: 574631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N			2.50	2.53		mg/L		101	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCSD 280-574631/89
Matrix: Water
Analysis Batch: 574631

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N			2.50	2.54		mg/L		102	90 - 110	0	10

Lab Sample ID: 280-161408-A-11 MS
Matrix: Water
Analysis Batch: 574631

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	ND		1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: 280-161408-A-11 MSD
Matrix: Water
Analysis Batch: 574631

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.03		mg/L		103	90 - 110	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-573773/22
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			05/03/22 16:34	1

Lab Sample ID: LCS 280-573773/21
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite			5.00	5.09		mg/L		102	90 - 110

Lab Sample ID: 280-161434-C-1 MS
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	ND		4.00	4.15		mg/L		104	90 - 110

Lab Sample ID: 280-161434-C-1 MSD
Matrix: Water
Analysis Batch: 573773

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	ND		4.00	4.18		mg/L		104	90 - 110	1	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: MB 280-573912/23
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			05/04/22 17:18	1

Lab Sample ID: LCS 280-573912/21
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite			5.00	5.06		mg/L		101	90 - 110		

Lab Sample ID: LCSD 280-573912/22
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite			5.00	5.02		mg/L		100	90 - 110	1	10

Lab Sample ID: 280-161408-A-13 MS
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite	5.0	F1	4.00	8.53	F1	mg/L		89	90 - 110		

Lab Sample ID: 280-161408-A-13 MSD
Matrix: Water
Analysis Batch: 573912

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	5.0	F1	4.00	8.64		mg/L		92	90 - 110	1	10

Method: 410.4 - COD

Lab Sample ID: MB 280-574418/32
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (COD)	ND		20		mg/L			05/10/22 13:22	1

Lab Sample ID: MB 280-574418/5
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (COD)	ND		20		mg/L			05/10/22 11:26	1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 280-574418/3
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand (COD)	100	94.7		mg/L		95	90 - 110

Lab Sample ID: LCS 280-574418/30
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand (COD)	100	93.5		mg/L		93	90 - 110

Lab Sample ID: LCSD 280-574418/31
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	100	95.7		mg/L		96	90 - 110	2	11

Lab Sample ID: LCSD 280-574418/4
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	100	95.4		mg/L		95	90 - 110	1	11

Lab Sample ID: 280-161382-E-4 MS
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand (COD)	ND	F1	50.0	58.0	F1	mg/L		82	90 - 110

Lab Sample ID: 280-161382-E-4 MSD
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	ND	F1	50.0	55.7	F1	mg/L		77	90 - 110	4	11

Lab Sample ID: 280-161398-C-1 MS
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand (COD)	130	F2 F1	250	307	F1	mg/L		71	90 - 110

Lab Sample ID: 280-161398-C-1 MSD
Matrix: Water
Analysis Batch: 574418

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	130	F2 F1	250	315	F1	mg/L		74	90 - 110	3	11

Method: 9040B - pH

Lab Sample ID: LCS 280-574080/4
Matrix: Water
Analysis Batch: 574080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH adj. to 25 deg C			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 280-161699-D-1 DU
Matrix: Water
Analysis Batch: 574080

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH adj. to 25 deg C	7.2			7.2		SU				0.3	5

Lab Sample ID: LCS 280-574240/27
Matrix: Water
Analysis Batch: 574240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH adj. to 25 deg C			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 280-161755-I-1 DU
Matrix: Water
Analysis Batch: 574240

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH adj. to 25 deg C	7.5			8.1	F3	SU				7	5

Lab Sample ID: LCS 280-574377/96
Matrix: Water
Analysis Batch: 574377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH adj. to 25 deg C			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 280-161425-D-2 DU
Matrix: Water
Analysis Batch: 574377

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH adj. to 25 deg C	7.8			7.9		SU				2	5

Method: 9050A - Specific Conductance

Lab Sample ID: MB 280-572874/5
Matrix: Water
Analysis Batch: 572874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0			umhos/cm			04/25/22 10:28	1

Method: 9050A - Specific Conductance (Continued)

Lab Sample ID: LCS 280-572874/4
Matrix: Water
Analysis Batch: 572874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1470		umhos/cm		104	90 - 110

Lab Sample ID: 280-161382-I-2 DU
Matrix: Water
Analysis Batch: 572874

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	79		78.3		umhos/cm		0.9	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-573362/4
Matrix: Water
Analysis Batch: 573362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			04/28/22 17:29	1

Lab Sample ID: LCS 280-573362/3
Matrix: Water
Analysis Batch: 573362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	25.3		mg/L		101	88 - 112

Lab Sample ID: 280-161418-B-4 MS
Matrix: Water
Analysis Batch: 573362

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	ND		25.0	25.6		mg/L		102	88 - 112

Lab Sample ID: 280-161418-B-4 MSD
Matrix: Water
Analysis Batch: 573362

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	ND		25.0	25.7		mg/L		103	88 - 112	0	15

Lab Sample ID: MB 280-573694/4
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			05/02/22 15:25	1

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 280-573694/3
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	24.6		mg/L		98	88 - 112		

Lab Sample ID: 280-161337-A-2 MS
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	25		50.1	77.1		mg/L		104	88 - 112		

Lab Sample ID: 280-161337-A-2 MSD
Matrix: Water
Analysis Batch: 573694

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	25		50.1	77.3		mg/L		104	88 - 112	0	15

Lab Sample ID: MB 280-574237/4
Matrix: Water
Analysis Batch: 574237

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			05/06/22 15:30	1

Lab Sample ID: LCS 280-574237/3
Matrix: Water
Analysis Batch: 574237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	25.2		mg/L		101	88 - 112		

Lab Sample ID: 280-161247-A-4 MS
Matrix: Water
Analysis Batch: 574237

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	1.3		25.0	26.4		mg/L		100	88 - 112		

Lab Sample ID: 280-161247-A-4 MSD
Matrix: Water
Analysis Batch: 574237

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.3		25.0	26.6		mg/L		101	88 - 112	1	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-574559/1
Matrix: Water
Analysis Batch: 574559

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			05/11/22 10:42	1
Magnesium	0.000				meq/L			05/11/22 10:42	1
Potassium	0.000				meq/L			05/11/22 10:42	1
Sodium	0.000				meq/L			05/11/22 10:42	1
Ammonia as N	0.000				meq/L			05/11/22 10:42	1
Chloride	0.000				meq/L			05/11/22 10:42	1
Sulfate	0.000				meq/L			05/11/22 10:42	1
Carbonate Alkalinity	0.000				meq/L			05/11/22 10:42	1
Bicarbonate Alkalinity	0.000				meq/L			05/11/22 10:42	1
Total Alkalinity	0.000				meq/L			05/11/22 10:42	1
Nitrate/Nitrite	0.000				meq/L			05/11/22 10:42	1
Iron	0.000				meq/L			05/11/22 10:42	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-573526/8
Matrix: Water
Analysis Batch: 573526

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		10		mg/L			04/29/22 16:19	1
Bicarbonate Alkalinity	ND		10		mg/L			04/29/22 16:19	1
Carbonate Alkalinity	ND		10		mg/L			04/29/22 16:19	1

Lab Sample ID: LCS 280-573526/6
Matrix: Water
Analysis Batch: 573526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	200		mg/L		100	89 - 109		

Lab Sample ID: LCSD 280-573526/7
Matrix: Water
Analysis Batch: 573526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			200	192		mg/L		96	89 - 109	4	10

Lab Sample ID: 280-161600-A-4 DU
Matrix: Water
Analysis Batch: 573526

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	110			111		mg/L				0.6	10
Bicarbonate Alkalinity	110			111		mg/L				0.6	20
Carbonate Alkalinity	ND			ND		mg/L				NC	20

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 280-573792/58
Matrix: Water
Analysis Batch: 573792

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		10		mg/L			05/03/22 18:49	1
Bicarbonate Alkalinity	ND		10		mg/L			05/03/22 18:49	1
Carbonate Alkalinity	ND		10		mg/L			05/03/22 18:49	1

Lab Sample ID: LCS 280-573792/57
Matrix: Water
Analysis Batch: 573792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	200	205		mg/L		102	89 - 109

Lab Sample ID: 280-161418-A-2 DU
Matrix: Water
Analysis Batch: 573792

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	130		125		mg/L		0.9	10
Bicarbonate Alkalinity	130		125		mg/L		0.9	20
Carbonate Alkalinity	ND		ND		mg/L		NC	20

Lab Sample ID: MB 280-574081/58
Matrix: Water
Analysis Batch: 574081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		10		mg/L			05/05/22 19:22	1
Bicarbonate Alkalinity	ND		10		mg/L			05/05/22 19:22	1
Carbonate Alkalinity	ND		10		mg/L			05/05/22 19:22	1

Lab Sample ID: LCS 280-574081/57
Matrix: Water
Analysis Batch: 574081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	200	203		mg/L		102	89 - 109

Lab Sample ID: MB 280-574136/5
Matrix: Water
Analysis Batch: 574136

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		10		mg/L			05/06/22 10:19	1
Bicarbonate Alkalinity	ND		10		mg/L			05/06/22 10:19	1
Carbonate Alkalinity	ND		10		mg/L			05/06/22 10:19	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 280-574136/4
Matrix: Water
Analysis Batch: 574136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			1000	950		mg/L		95	89 - 109		

Lab Sample ID: 280-161446-5 DU
Matrix: Water
Analysis Batch: 574136

Client Sample ID: 6/7P
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	4300	H		4360		mg/L				0.9	10
Bicarbonate Alkalinity	4300	H		4360		mg/L				0.9	20
Carbonate Alkalinity	ND	H		ND		mg/L				NC	20

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 280-574489/2
Matrix: Water
Analysis Batch: 574489

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness, as CaCO3	ND		3.0		mg/L			05/10/22 18:37	1

Lab Sample ID: LCS 280-574489/1
Matrix: Water
Analysis Batch: 574489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Hardness, as CaCO3			398	406		mg/L		102	90 - 110		

Lab Sample ID: 280-161446-4 MS
Matrix: Water
Analysis Batch: 574489

Client Sample ID: FB2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Hardness, as CaCO3	ND		398	383		mg/L		96	90 - 110		

Lab Sample ID: 280-161446-4 MSD
Matrix: Water
Analysis Batch: 574489

Client Sample ID: FB2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hardness, as CaCO3	ND		398	402		mg/L		101	90 - 110	5	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-573148/1
Matrix: Water
Analysis Batch: 573148

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/27/22 11:27	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 280-573148/2
Matrix: Water
Analysis Batch: 573148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	500		mg/L		100	88 - 114		

Lab Sample ID: LCSD 280-573148/3
Matrix: Water
Analysis Batch: 573148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			502	493		mg/L		98	88 - 114	1	20

Lab Sample ID: 280-161488-A-4 DU
Matrix: Water
Analysis Batch: 573148

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	600			609		mg/L				0.8	10

Lab Sample ID: MB 280-573385/1
Matrix: Water
Analysis Batch: 573385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/29/22 11:10	1

Lab Sample ID: LCS 280-573385/2
Matrix: Water
Analysis Batch: 573385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			505	502		mg/L		99	88 - 114		

Lab Sample ID: LCSD 280-573385/3
Matrix: Water
Analysis Batch: 573385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			505	487		mg/L		96	88 - 114	3	20

Lab Sample ID: 280-161446-A-2 DU
Matrix: Water
Analysis Batch: 573385

Client Sample ID: 280-161446-A-2 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	3300	H		3400		mg/L				2	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-572902/2
Matrix: Water
Analysis Batch: 572902

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			04/25/22 12:19	1

Lab Sample ID: LCS 280-572902/1
Matrix: Water
Analysis Batch: 572902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	90.8		mg/L		91	79 - 114

Lab Sample ID: 280-161446-5 DU
Matrix: Water
Analysis Batch: 572902

Client Sample ID: 6/7P
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	39		38.4		mg/L		1	10

Lab Sample ID: MB 280-573189/2
Matrix: Water
Analysis Batch: 573189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			04/27/22 15:19	1

Lab Sample ID: LCS 280-573189/1
Matrix: Water
Analysis Batch: 573189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	84.8		mg/L		85	79 - 114

Lab Sample ID: 280-161504-A-2 DU
Matrix: Water
Analysis Batch: 573189

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	51		51.6		mg/L		0.8	10

Lab Sample ID: MB 280-573436/3
Matrix: Water
Analysis Batch: 573436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			04/29/22 15:07	1

Lab Sample ID: LCS 280-573436/1
Matrix: Water
Analysis Batch: 573436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	90.0		mg/L		90	79 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCSD 280-573436/2
Matrix: Water
Analysis Batch: 573436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids			100	90.0		mg/L		90	79 - 114	0	20

Lab Sample ID: 280-161377-A-4 DU
Matrix: Water
Analysis Batch: 573436

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	210			207		mg/L				0.2	10

GC/MS VOA

Analysis Batch: 573649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-1	TB2	Total/NA	Water	8260B	
280-161446-2	1/5P	Total/NA	Water	8260B	
280-161446-3	4/5S	Total/NA	Water	8260B	
280-161446-4	FB2	Total/NA	Water	8260B	
280-161446-5	6/7P	Total/NA	Water	8260B	
MB 280-573649/9	Method Blank	Total/NA	Water	8260B	
LCS 280-573649/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573649/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 573914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-6	6/7S	Total/NA	Water	8260B	
280-161446-7	8S	Total/NA	Water	8260B	
280-161446-8	8P	Total/NA	Water	8260B	
280-161446-9	9P	Total/NA	Water	8260B	
280-161446-10	9S	Total/NA	Water	8260B	
MB 280-573914/8	Method Blank	Total/NA	Water	8260B	
LCS 280-573914/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-573914/5	Lab Control Sample Dup	Total/NA	Water	8260B	
280-161411-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
280-161411-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Metals

Prep Batch: 573691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-3	4/5S	Total Recoverable	Water	3005A	
280-161446-4	FB2	Total Recoverable	Water	3005A	
280-161446-5	6/7P	Total Recoverable	Water	3005A	
280-161446-6	6/7S	Total Recoverable	Water	3005A	
280-161446-7	8S	Total Recoverable	Water	3005A	
280-161446-8	8P	Total Recoverable	Water	3005A	
280-161446-9	9P	Total Recoverable	Water	3005A	
280-161446-10	9S	Total Recoverable	Water	3005A	
MB 280-573691/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573691/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161233-C-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
280-161233-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 573706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-3	4/5S	Total Recoverable	Water	3005A	
280-161446-4	FB2	Total Recoverable	Water	3005A	
280-161446-5	6/7P	Total Recoverable	Water	3005A	
280-161446-6	6/7S	Total Recoverable	Water	3005A	
280-161446-7	8S	Total Recoverable	Water	3005A	
280-161446-8	8P	Total Recoverable	Water	3005A	
280-161446-9	9P	Total Recoverable	Water	3005A	
280-161446-10	9S	Total Recoverable	Water	3005A	
MB 280-573706/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573706/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 573706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161727-J-1-E MS	Matrix Spike	Dissolved	Water	3005A	
280-161727-J-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 573718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Dissolved	Water	3005A	
280-161446-3	4/5S	Dissolved	Water	3005A	
280-161446-4	FB2	Dissolved	Water	3005A	
280-161446-5	6/7P	Dissolved	Water	3005A	
280-161446-6	6/7S	Dissolved	Water	3005A	
280-161446-7	8S	Dissolved	Water	3005A	
280-161446-8	8P	Dissolved	Water	3005A	
280-161446-9	9P	Dissolved	Water	3005A	
280-161446-10	9S	Dissolved	Water	3005A	
MB 280-573718/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573718/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161446-2 MS	1/5P	Dissolved	Water	3005A	
280-161446-2 MSD	1/5P	Dissolved	Water	3005A	

Prep Batch: 573814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total Recoverable	Water	3005A	
MB 280-573814/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-573814/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161812-C-1-B MS	Matrix Spike	Total/NA	Water	3005A	
280-161812-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Analysis Batch: 573944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-3	4/5S	Total Recoverable	Water	6020	573706
280-161446-4	FB2	Total Recoverable	Water	6020	573706
280-161446-5	6/7P	Total Recoverable	Water	6020	573706
280-161446-6	6/7S	Total Recoverable	Water	6020	573706
280-161446-7	8S	Total Recoverable	Water	6020	573706
280-161446-8	8P	Total Recoverable	Water	6020	573706
280-161446-9	9P	Total Recoverable	Water	6020	573706
280-161446-10	9S	Total Recoverable	Water	6020	573706
MB 280-573706/1-A	Method Blank	Total Recoverable	Water	6020	573706
LCS 280-573706/2-A	Lab Control Sample	Total Recoverable	Water	6020	573706
280-161727-J-1-E MS	Matrix Spike	Dissolved	Water	6020	573706
280-161727-J-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	6020	573706

Analysis Batch: 574011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-3	4/5S	Total Recoverable	Water	6010B	573691
280-161446-4	FB2	Total Recoverable	Water	6010B	573691
280-161446-5	6/7P	Total Recoverable	Water	6010B	573691
280-161446-6	6/7S	Total Recoverable	Water	6010B	573691
280-161446-7	8S	Total Recoverable	Water	6010B	573691
280-161446-8	8P	Total Recoverable	Water	6010B	573691
280-161446-9	9P	Total Recoverable	Water	6010B	573691

Metals (Continued)

Analysis Batch: 574011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-10	9S	Total Recoverable	Water	6010B	573691
MB 280-573691/1-A	Method Blank	Total Recoverable	Water	6010B	573691
LCS 280-573691/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573691
280-161233-C-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	573691
280-161233-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	573691

Analysis Batch: 574034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Dissolved	Water	6010B	573718
280-161446-3	4/5S	Dissolved	Water	6010B	573718
280-161446-4	FB2	Dissolved	Water	6010B	573718
280-161446-5	6/7P	Dissolved	Water	6010B	573718
280-161446-6	6/7S	Dissolved	Water	6010B	573718
280-161446-7	8S	Dissolved	Water	6010B	573718
280-161446-8	8P	Dissolved	Water	6010B	573718
280-161446-9	9P	Dissolved	Water	6010B	573718
280-161446-10	9S	Dissolved	Water	6010B	573718
MB 280-573718/1-A	Method Blank	Total Recoverable	Water	6010B	573718

Analysis Batch: 574115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-573718/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573718

Analysis Batch: 574120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total Recoverable	Water	6010B	573814
MB 280-573814/1-A	Method Blank	Total Recoverable	Water	6010B	573814
LCS 280-573814/2-A	Lab Control Sample	Total Recoverable	Water	6010B	573814
280-161812-C-1-B MS	Matrix Spike	Total/NA	Water	6010B	573814
280-161812-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	573814

Analysis Batch: 574148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2 MS	1/5P	Dissolved	Water	6010B	573718
280-161446-2 MSD	1/5P	Dissolved	Water	6010B	573718

Analysis Batch: 574371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-5	6/7P	Total Recoverable	Water	6020	573706

Prep Batch: 574522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total Recoverable	Water	3005A	
MB 280-574522/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-574522/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-161614-K-1-G MS	Matrix Spike	Total Recoverable	Water	3005A	
280-161614-K-1-H MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 574842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total Recoverable	Water	6020	574522

Metals (Continued)

Analysis Batch: 574842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-574522/1-A	Method Blank	Total Recoverable	Water	6020	574522
LCS 280-574522/2-A	Lab Control Sample	Total Recoverable	Water	6020	574522
280-161614-K-1-G MS	Matrix Spike	Total Recoverable	Water	6020	574522
280-161614-K-1-H MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	574522

General Chemistry

Analysis Batch: 572874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	9050A	
280-161446-3	4/5S	Total/NA	Water	9050A	
280-161446-4	FB2	Total/NA	Water	9050A	
280-161446-5	6/7P	Total/NA	Water	9050A	
280-161446-6	6/7S	Total/NA	Water	9050A	
280-161446-7	8S	Total/NA	Water	9050A	
280-161446-8	8P	Total/NA	Water	9050A	
280-161446-9	9P	Total/NA	Water	9050A	
280-161446-10	9S	Total/NA	Water	9050A	
MB 280-572874/5	Method Blank	Total/NA	Water	9050A	
LCS 280-572874/4	Lab Control Sample	Total/NA	Water	9050A	
280-161382-I-2 DU	Duplicate	Total/NA	Water	9050A	

Analysis Batch: 572902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-3	4/5S	Total/NA	Water	SM 2540D	
280-161446-4	FB2	Total/NA	Water	SM 2540D	
280-161446-5	6/7P	Total/NA	Water	SM 2540D	
MB 280-572902/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-572902/1	Lab Control Sample	Total/NA	Water	SM 2540D	
280-161446-5 DU	6/7P	Total/NA	Water	SM 2540D	

Analysis Batch: 573148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	SM 2540C	
280-161446-3	4/5S	Total/NA	Water	SM 2540C	
280-161446-4	FB2	Total/NA	Water	SM 2540C	
280-161446-5	6/7P	Total/NA	Water	SM 2540C	
280-161446-6	6/7S	Total/NA	Water	SM 2540C	
280-161446-7	8S	Total/NA	Water	SM 2540C	
280-161446-9	9P	Total/NA	Water	SM 2540C	
280-161446-10	9S	Total/NA	Water	SM 2540C	
MB 280-573148/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-573148/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-573148/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-161488-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 573189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	SM 2540D	
280-161446-6	6/7S	Total/NA	Water	SM 2540D	
280-161446-7	8S	Total/NA	Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 573189 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-8	8P	Total/NA	Water	SM 2540D	
MB 280-573189/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-573189/1	Lab Control Sample	Total/NA	Water	SM 2540D	
280-161504-A-2 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 573362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-3	4/5S	Total/NA	Water	9060	
280-161446-4	FB2	Total/NA	Water	9060	
280-161446-5	6/7P	Total/NA	Water	9060	
280-161446-6	6/7S	Total/NA	Water	9060	
280-161446-7	8S	Total/NA	Water	9060	
MB 280-573362/4	Method Blank	Total/NA	Water	9060	
LCS 280-573362/3	Lab Control Sample	Total/NA	Water	9060	
280-161418-B-4 MS	Matrix Spike	Total/NA	Water	9060	
280-161418-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 573385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-8	8P	Total/NA	Water	SM 2540C	
MB 280-573385/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-573385/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-573385/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-161446-A-2 DU	280-161446-A-2 DU	Total/NA	Water	SM 2540C	

Analysis Batch: 573436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-9	9P	Total/NA	Water	SM 2540D	
280-161446-10	9S	Total/NA	Water	SM 2540D	
MB 280-573436/3	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-573436/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-573436/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
280-161377-A-4 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 573526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-3	4/5S	Total/NA	Water	SM 2320B	
280-161446-4	FB2	Total/NA	Water	SM 2320B	
MB 280-573526/8	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-573526/6	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-573526/7	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-161600-A-4 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 573617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-7	8S	Total/NA	Water	350.1	
280-161446-8	8P	Total/NA	Water	350.1	
280-161446-9	9P	Total/NA	Water	350.1	
MB 280-573617/90	Method Blank	Total/NA	Water	350.1	
LCS 280-573617/89	Lab Control Sample	Total/NA	Water	350.1	
280-161400-D-11 MS	Matrix Spike	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 573617 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161400-D-11 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 573694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	9060	
280-161446-9	9P	Total/NA	Water	9060	
280-161446-10	9S	Total/NA	Water	9060	
MB 280-573694/4	Method Blank	Total/NA	Water	9060	
LCS 280-573694/3	Lab Control Sample	Total/NA	Water	9060	
280-161337-A-2 MS	Matrix Spike	Total/NA	Water	9060	
280-161337-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 573773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-3	4/5S	Total/NA	Water	353.2	
280-161446-4	FB2	Total/NA	Water	353.2	
280-161446-6	6/7S	Total/NA	Water	353.2	
280-161446-8	8P	Total/NA	Water	353.2	
MB 280-573773/22	Method Blank	Total/NA	Water	353.2	
LCS 280-573773/21	Lab Control Sample	Total/NA	Water	353.2	
280-161434-C-1 MS	Matrix Spike	Total/NA	Water	353.2	
280-161434-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 573792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	SM 2320B	
280-161446-7	8S	Total/NA	Water	SM 2320B	
280-161446-8	8P	Total/NA	Water	SM 2320B	
280-161446-10	9S	Total/NA	Water	SM 2320B	
MB 280-573792/58	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-573792/57	Lab Control Sample	Total/NA	Water	SM 2320B	
280-161418-A-2 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 573912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	353.2	
280-161446-5	6/7P	Total/NA	Water	353.2	
280-161446-7	8S	Total/NA	Water	353.2	
280-161446-9	9P	Total/NA	Water	353.2	
280-161446-10	9S	Total/NA	Water	353.2	
MB 280-573912/23	Method Blank	Total/NA	Water	353.2	
LCS 280-573912/21	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-573912/22	Lab Control Sample Dup	Total/NA	Water	353.2	
280-161408-A-13 MS	Matrix Spike	Total/NA	Water	353.2	
280-161408-A-13 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 574080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	9040B	
280-161446-5	6/7P	Total/NA	Water	9040B	
280-161446-6	6/7S	Total/NA	Water	9040B	

General Chemistry (Continued)

Analysis Batch: 574080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-574080/4	Lab Control Sample	Total/NA	Water	9040B	
280-161699-D-1 DU	Duplicate	Total/NA	Water	9040B	

Analysis Batch: 574081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-6	6/7S	Total/NA	Water	SM 2320B	
MB 280-574081/58	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-574081/57	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 574136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-5	6/7P	Total/NA	Water	SM 2320B	
280-161446-9	9P	Total/NA	Water	SM 2320B	
MB 280-574136/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-574136/4	Lab Control Sample	Total/NA	Water	SM 2320B	
280-161446-5 DU	6/7P	Total/NA	Water	SM 2320B	

Analysis Batch: 574237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-8	8P	Total/NA	Water	9060	
MB 280-574237/4	Method Blank	Total/NA	Water	9060	
LCS 280-574237/3	Lab Control Sample	Total/NA	Water	9060	
280-161247-A-4 MS	Matrix Spike	Total/NA	Water	9060	
280-161247-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 574240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-3	4/5S	Total/NA	Water	9040B	
280-161446-7	8S	Total/NA	Water	9040B	
280-161446-8	8P	Total/NA	Water	9040B	
280-161446-9	9P	Total/NA	Water	9040B	
280-161446-10	9S	Total/NA	Water	9040B	
LCS 280-574240/27	Lab Control Sample	Total/NA	Water	9040B	
280-161755-I-1 DU	Duplicate	Total/NA	Water	9040B	

Analysis Batch: 574260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	300.0	
280-161446-2	1/5P	Total/NA	Water	300.0	
280-161446-3	4/5S	Total/NA	Water	300.0	
280-161446-4	FB2	Total/NA	Water	300.0	
280-161446-5	6/7P	Total/NA	Water	300.0	
280-161446-5	6/7P	Total/NA	Water	300.0	
280-161446-6	6/7S	Total/NA	Water	300.0	
280-161446-6	6/7S	Total/NA	Water	300.0	
280-161446-7	8S	Total/NA	Water	300.0	
280-161446-8	8P	Total/NA	Water	300.0	
280-161446-8	8P	Total/NA	Water	300.0	
280-161446-9	9P	Total/NA	Water	300.0	
280-161446-9	9P	Total/NA	Water	300.0	
280-161446-10	9S	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 574260 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-10	9S	Total/NA	Water	300.0	
MB 280-574260/6	Method Blank	Total/NA	Water	300.0	
LCS 280-574260/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-574260/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-574260/3	Lab Control Sample	Total/NA	Water	300.0	
280-161446-4 MS	FB2	Total/NA	Water	300.0	
280-161446-4 MSD	FB2	Total/NA	Water	300.0	
280-161446-4 DU	FB2	Total/NA	Water	300.0	

Analysis Batch: 574325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	350.1	
280-161446-3	4/5S	Total/NA	Water	350.1	
280-161446-4	FB2	Total/NA	Water	350.1	
280-161446-6	6/7S	Total/NA	Water	350.1	
280-161446-10	9S	Total/NA	Water	350.1	
MB 280-574325/18	Method Blank	Total/NA	Water	350.1	
LCS 280-574325/17	Lab Control Sample	Total/NA	Water	350.1	
280-161446-4 MS	FB2	Total/NA	Water	350.1	
280-161446-4 MSD	FB2	Total/NA	Water	350.1	

Analysis Batch: 574377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-4	FB2	Total/NA	Water	9040B	
LCS 280-574377/96	Lab Control Sample	Total/NA	Water	9040B	
280-161425-D-2 DU	Duplicate	Total/NA	Water	9040B	

Analysis Batch: 574418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	410.4	
280-161446-3	4/5S	Total/NA	Water	410.4	
280-161446-4	FB2	Total/NA	Water	410.4	
280-161446-5	6/7P	Total/NA	Water	410.4	
280-161446-6	6/7S	Total/NA	Water	410.4	
280-161446-7	8S	Total/NA	Water	410.4	
280-161446-8	8P	Total/NA	Water	410.4	
280-161446-9	9P	Total/NA	Water	410.4	
280-161446-10	9S	Total/NA	Water	410.4	
MB 280-574418/32	Method Blank	Total/NA	Water	410.4	
MB 280-574418/5	Method Blank	Total/NA	Water	410.4	
LCS 280-574418/3	Lab Control Sample	Total/NA	Water	410.4	
LCS 280-574418/30	Lab Control Sample	Total/NA	Water	410.4	
LCSD 280-574418/31	Lab Control Sample Dup	Total/NA	Water	410.4	
LCSD 280-574418/4	Lab Control Sample Dup	Total/NA	Water	410.4	
280-161382-E-4 MS	Matrix Spike	Total/NA	Water	410.4	
280-161382-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	
280-161398-C-1 MS	Matrix Spike	Total/NA	Water	410.4	
280-161398-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

General Chemistry

Analysis Batch: 574489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	SM 2340C	
280-161446-3	4/5S	Total/NA	Water	SM 2340C	
280-161446-4	FB2	Total/NA	Water	SM 2340C	
280-161446-5	6/7P	Total/NA	Water	SM 2340C	
280-161446-6	6/7S	Total/NA	Water	SM 2340C	
280-161446-7	8S	Total/NA	Water	SM 2340C	
280-161446-8	8P	Total/NA	Water	SM 2340C	
280-161446-9	9P	Total/NA	Water	SM 2340C	
280-161446-10	9S	Total/NA	Water	SM 2340C	
MB 280-574489/2	Method Blank	Total/NA	Water	SM 2340C	
LCS 280-574489/1	Lab Control Sample	Total/NA	Water	SM 2340C	
280-161446-4 MS	FB2	Total/NA	Water	SM 2340C	
280-161446-4 MSD	FB2	Total/NA	Water	SM 2340C	

Analysis Batch: 574559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	SM 1030E	
280-161446-2	1/5P	Total/NA	Water	SM 1030E (meq)	
280-161446-3	4/5S	Total/NA	Water	SM 1030E	
280-161446-3	4/5S	Total/NA	Water	SM 1030E (meq)	
280-161446-4	FB2	Total/NA	Water	SM 1030E	
280-161446-4	FB2	Total/NA	Water	SM 1030E (meq)	
280-161446-5	6/7P	Total/NA	Water	SM 1030E	
280-161446-5	6/7P	Total/NA	Water	SM 1030E (meq)	
280-161446-6	6/7S	Total/NA	Water	SM 1030E	
280-161446-6	6/7S	Total/NA	Water	SM 1030E (meq)	
280-161446-7	8S	Total/NA	Water	SM 1030E	
280-161446-7	8S	Total/NA	Water	SM 1030E (meq)	
280-161446-8	8P	Total/NA	Water	SM 1030E	
280-161446-8	8P	Total/NA	Water	SM 1030E (meq)	
280-161446-9	9P	Total/NA	Water	SM 1030E	
280-161446-9	9P	Total/NA	Water	SM 1030E (meq)	
280-161446-10	9S	Total/NA	Water	SM 1030E	
280-161446-10	9S	Total/NA	Water	SM 1030E (meq)	
MB 280-574559/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 574631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-5	6/7P	Total/NA	Water	350.1	
MB 280-574631/90	Method Blank	Total/NA	Water	350.1	
LCS 280-574631/88	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-574631/89	Lab Control Sample Dup	Total/NA	Water	350.1	
280-161408-A-11 MS	Matrix Spike	Total/NA	Water	350.1	
280-161408-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Field Service / Mobile Lab

Analysis Batch: 572963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-2	1/5P	Total/NA	Water	Field Sampling	
280-161446-3	4/5S	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 572963 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-161446-5	6/7P	Total/NA	Water	Field Sampling	
280-161446-6	6/7S	Total/NA	Water	Field Sampling	
280-161446-7	8S	Total/NA	Water	Field Sampling	
280-161446-8	8P	Total/NA	Water	Field Sampling	
280-161446-9	9P	Total/NA	Water	Field Sampling	
280-161446-10	9S	Total/NA	Water	Field Sampling	

Client Sample ID: TB2

Lab Sample ID: 280-161446-1

Date Collected: 04/20/22 07:00

Matrix: Water

Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573649	05/03/22 10:46	TAW	EET DEN

Client Sample ID: 1/5P

Lab Sample ID: 280-161446-2

Date Collected: 04/20/22 11:30

Matrix: Water

Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	573649	05/03/22 16:06	TAW	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 09:55	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573814	05/05/22 09:39	MAB	EET DEN
Total Recoverable	Analysis	6010B		1			574120	05/05/22 20:16	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	574522	05/12/22 09:40	KMS	EET DEN
Total Recoverable	Analysis	6020		1			574842	05/13/22 02:34	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	574260	05/09/22 16:35	CJ	EET DEN
Total/NA	Analysis	300.0		20	10 mL	10 mL	574260	05/09/22 16:50	CJ	EET DEN
Total/NA	Analysis	350.1		100	10 mL	10 mL	574325	05/09/22 13:14	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573912	05/04/22 17:32	SVC	EET DEN
Total/NA	Analysis	410.4		20	2 mL	2 mL	574418	05/10/22 11:26	SJD	EET DEN
Total/NA	Analysis	9040B		1			574080	05/05/22 15:01	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		10	20 mL	20 mL	573694	05/02/22 20:38	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 20:17	KEG	EET DEN
Total/NA	Analysis	SM 2340C		2	25 mL	25 mL	574489	05/10/22 18:37	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	573148	04/27/22 11:28	LRB	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	100 mL	573189	04/27/22 15:19	LRB	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/20/22 12:30	TJ	EET DEN

Client Sample ID: 4/5S

Lab Sample ID: 280-161446-3

Date Collected: 04/20/22 12:15

Matrix: Water

Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573649	05/03/22 15:44	TAW	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 10:28	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573691	05/04/22 10:41	KMS	EET DEN
Total Recoverable	Analysis	6010B		1			574011	05/05/22 08:36	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			573944	05/04/22 20:19	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	574260	05/09/22 17:05	CJ	EET DEN

Client Sample ID: 4/5S
Date Collected: 04/20/22 12:15
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		10	10 mL	10 mL	574325	05/09/22 13:17	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 17:20	SVC	EET DEN
Total/NA	Analysis	410.4		1	2 mL	2 mL	574418	05/10/22 11:26	SJD	EET DEN
Total/NA	Analysis	9040B		1			574240	05/06/22 17:57	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573362	04/28/22 20:12	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			573526	04/29/22 18:03	KEG	EET DEN
Total/NA	Analysis	SM 2340C		1	25 mL	25 mL	574489	05/10/22 18:37	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573148	04/27/22 11:28	LRB	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	572902	04/25/22 12:19	LRB	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/20/22 13:15	TJ	EET DEN

Client Sample ID: FB2
Date Collected: 04/20/22 12:40
Date Received: 04/23/22 11:25

Lab Sample ID: 280-161446-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573649	05/03/22 11:07	TAW	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 10:33	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573691	05/04/22 10:41	KMS	EET DEN
Total Recoverable	Analysis	6010B		1			574011	05/05/22 08:40	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			573944	05/04/22 20:22	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	574260	05/09/22 17:35	CJ	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	574325	05/09/22 13:33	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 17:22	SVC	EET DEN
Total/NA	Analysis	410.4		1	2 mL	2 mL	574418	05/10/22 11:26	SJD	EET DEN
Total/NA	Analysis	9040B		1			574377	05/09/22 22:26	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573362	04/28/22 20:28	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			573526	04/29/22 18:08	KEG	EET DEN
Total/NA	Analysis	SM 2340C		1	25 mL	25 mL	574489	05/10/22 18:37	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	573148	04/27/22 11:28	LRB	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	572902	04/25/22 12:19	LRB	EET DEN

Client Sample ID: 6/7P

Lab Sample ID: 280-161446-5

Date Collected: 04/20/22 13:30

Matrix: Water

Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	573649	05/03/22 16:28	TAW	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 10:37	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573691	05/04/22 10:41	KMS	EET DEN
Total Recoverable	Analysis	6010B		1			574011	05/05/22 08:44	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			573944	05/04/22 21:15	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			574371	05/09/22 15:00	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	574260	05/09/22 19:05	CJ	EET DEN
Total/NA	Analysis	300.0		100	10 mL	10 mL	574260	05/09/22 19:20	CJ	EET DEN
Total/NA	Analysis	350.1		250	10 mL	10 mL	574631	05/10/22 14:13	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573912	05/04/22 17:34	SVC	EET DEN
Total/NA	Analysis	410.4		20	2 mL	2 mL	574418	05/10/22 11:26	SJD	EET DEN
Total/NA	Analysis	9040B		1			574080	05/05/22 15:07	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		10	20 mL	20 mL	573362	04/28/22 21:19	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			574136	05/06/22 10:28	KEG	EET DEN
Total/NA	Analysis	SM 2340C		5	25 mL	25 mL	574489	05/10/22 18:37	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	573148	04/27/22 11:28	LRB	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	572902	04/25/22 12:19	LRB	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/20/22 14:30	TJ	EET DEN

Client Sample ID: 6/7S

Lab Sample ID: 280-161446-6

Date Collected: 04/22/22 11:00

Matrix: Water

Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573914	05/05/22 03:13	GO	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 10:57	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573691	05/04/22 10:41	KMS	EET DEN
Total Recoverable	Analysis	6010B		1			574011	05/05/22 09:05	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			573944	05/04/22 21:19	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	574260	05/09/22 19:35	CJ	EET DEN
Total/NA	Analysis	300.0		20	10 mL	10 mL	574260	05/09/22 19:50	CJ	EET DEN
Total/NA	Analysis	350.1		10	10 mL	10 mL	574325	05/09/22 13:30	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 17:26	SVC	EET DEN
Total/NA	Analysis	410.4		5	2 mL	2 mL	574418	05/10/22 13:22	SJD	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-161446-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: 6/7S
Lab Sample ID: 280-161446-6
Date Collected: 04/22/22 11:00
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9040B		1			574080	05/05/22 15:10	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		5	20 mL	20 mL	573362	04/28/22 21:36	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			574081	05/05/22 20:17	KEG	EET DEN
Total/NA	Analysis	SM 2340C		5	25 mL	25 mL	574489	05/10/22 18:37	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	573148	04/27/22 11:28	LRB	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	100 mL	573189	04/27/22 15:19	LRB	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/22/22 12:00	TJ	EET DEN

Client Sample ID: 8S
Lab Sample ID: 280-161446-7
Date Collected: 04/22/22 10:15
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573914	05/05/22 03:33	GO	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 11:02	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573691	05/04/22 10:41	KMS	EET DEN
Total Recoverable	Analysis	6010B		1			574011	05/05/22 09:09	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			573944	05/04/22 21:23	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	574260	05/09/22 20:05	CJ	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	573617	05/02/22 16:04	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573912	05/04/22 17:36	SVC	EET DEN
Total/NA	Analysis	410.4		1	2 mL	2 mL	574418	05/10/22 13:22	SJD	EET DEN
Total/NA	Analysis	9040B		1			574240	05/06/22 18:09	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	573362	04/28/22 21:53	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 21:16	KEG	EET DEN
Total/NA	Analysis	SM 2340C		2	25 mL	25 mL	574489	05/10/22 18:37	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	573148	04/27/22 11:28	LRB	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	100 mL	573189	04/27/22 15:19	LRB	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/22/22 11:15	TJ	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-161446-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: 8P
Lab Sample ID: 280-161446-8
Date Collected: 04/22/22 09:15
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	573914	05/05/22 03:54	GO	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 11:06	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573691	05/04/22 10:41	KMS	EET DEN
Total Recoverable	Analysis	6010B		1			574011	05/05/22 09:13	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			573944	05/04/22 21:26	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	574260	05/09/22 20:35	CJ	EET DEN
Total/NA	Analysis	300.0		20	10 mL	10 mL	574260	05/09/22 20:50	CJ	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	573617	05/02/22 16:07	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573773	05/03/22 17:42	SVC	EET DEN
Total/NA	Analysis	410.4		100	2 mL	2 mL	574418	05/10/22 13:22	SJD	EET DEN
Total/NA	Analysis	9040B		1			574240	05/06/22 18:12	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		20	20 mL	20 mL	574237	05/06/22 17:19	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 21:33	KEG	EET DEN
Total/NA	Analysis	SM 2340C		2	25 mL	25 mL	574489	05/10/22 18:37	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	573385	04/29/22 11:13	ABW	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	100 mL	573189	04/27/22 15:19	LRB	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/22/22 10:15	TJ	EET DEN

Client Sample ID: 9P
Lab Sample ID: 280-161446-9
Date Collected: 04/22/22 12:00
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	573914	05/05/22 04:15	GO	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 11:10	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573691	05/04/22 10:41	KMS	EET DEN
Total Recoverable	Analysis	6010B		1			574011	05/05/22 09:18	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			573944	05/04/22 21:30	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	574260	05/09/22 21:05	CJ	EET DEN
Total/NA	Analysis	300.0		20	10 mL	10 mL	574260	05/09/22 21:20	CJ	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	573617	05/02/22 16:09	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573912	05/04/22 17:38	SVC	EET DEN
Total/NA	Analysis	410.4		20	2 mL	2 mL	574418	05/10/22 13:22	SJD	EET DEN
Total/NA	Analysis	9040B		1			574240	05/06/22 18:16	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-161446-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: 9P
Lab Sample ID: 280-161446-9
Date Collected: 04/22/22 12:00
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060		10	20 mL	20 mL	573694	05/02/22 21:35	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			574136	05/06/22 10:47	KEG	EET DEN
Total/NA	Analysis	SM 2340C		5	25 mL	25 mL	574489	05/10/22 18:37	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	573148	04/27/22 11:28	LRB	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	573436	04/29/22 15:08	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/22/22 13:00	TJ	EET DEN

Client Sample ID: 9S
Lab Sample ID: 280-161446-10
Date Collected: 04/22/22 12:20
Matrix: Water
Date Received: 04/23/22 11:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	573914	05/05/22 04:36	GO	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	573718	05/04/22 09:55	KMS	EET DEN
Dissolved	Analysis	6010B		1			574034	05/05/22 11:14	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573691	05/04/22 10:41	KMS	EET DEN
Total Recoverable	Analysis	6010B		1			574011	05/05/22 09:22	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	573706	05/04/22 08:40	PFM	EET DEN
Total Recoverable	Analysis	6020		1			573944	05/04/22 21:34	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	574260	05/09/22 22:05	CJ	EET DEN
Total/NA	Analysis	300.0		20	10 mL	10 mL	574260	05/09/22 22:20	CJ	EET DEN
Total/NA	Analysis	350.1		100	10 mL	10 mL	574325	05/09/22 13:41	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	573912	05/04/22 17:52	SVC	EET DEN
Total/NA	Analysis	410.4		5	2 mL	2 mL	574418	05/10/22 13:22	SJD	EET DEN
Total/NA	Analysis	9040B		1			574240	05/06/22 18:20	KEG	EET DEN
Total/NA	Analysis	9050A		1			572874	04/25/22 10:28	KEG	EET DEN
Total/NA	Analysis	9060		10	20 mL	20 mL	573694	05/02/22 21:49	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			574559	05/11/22 10:42	ZPM	EET DEN
Total/NA	Analysis	SM 2320B		1			573792	05/03/22 22:12	KEG	EET DEN
Total/NA	Analysis	SM 2340C		5	25 mL	25 mL	574489	05/10/22 18:37	LRB	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	573148	04/27/22 11:28	LRB	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	573436	04/29/22 15:08	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			572963	04/22/22 13:20	TJ	EET DEN

Laboratory References:
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: I. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16515-868.1
Client Contact:	Phone: 503 716 6320	E-Mail: Betsy.Sara@Eurofinset.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name:1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Event Desc: LF Module Sumps - Apr				
Site: Oregon	SSOW#:			

Analysis Requested

280-161446 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B	TDS/Alks/EC/pH/Cl/SO4	Hardness/Total Metals	Ammonia/COD/TOC/NOXT	TSS	Dissolved Metals	Cation/Anion Balance	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	D	S	N	D			
TB2	4/20/22	0700	G	W			X							2	Short Holds: pH
1/5P	4/20/22	1130	G	W	X		X	X	X	X	X	X	X	11	
4/5S	4/20/22	1215	G	W	X		X	X	X	X	X	X	X	11	
FB2	4/20/22	1240	G	W	X		X	X	X	X	X	X	X	11	
6/7P	4/20/22	1330	G	W	X		X	X	X	X	X	X	X	11	
6/7S	4/22/22	1100	G	W	X		X	X	X	X	X	X	X	11	
8S	4/22/22	1015	G	W	X		X	X	X	X	X	X	X	11	
8P	4/22/22	0915	G	W	X		X	X	X	X	X	X	X	11	
9P	4/22/22	1200	G	W	X		X	X	X	X	X	X	X	11	
9S	4/22/22	1220	G	W	X		X	X	X	X	X	X	X	11	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/22/22 @ 1630	SCS		4/23/22 1125	GAUEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☒ Yes ☐ No

Custody Seal No.: 1442297, 1483883, 1484159, 1484164, 1484215

Cooler Temperature(s) °C and Other Remarks: 2.9, 0.6, 2.6, 0.9, 0.4 1/R2 CF+0.1

3/10/2023

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: I. Hultquist	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-16515-868.1
Client Contact:	Phone: 503 716 6320	E-Mail: Betsy.Sara@Eurofinset.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128				
Phone:	PO #:			
Email:	WO #:			
Project Name:1003|Riverbend Landfill SCS Engineers Event Desc: LF Module Sumps - Apr	Project #: 28002786			
Site: Oregon	SSOW#:			

Analysis Requested

280-161446 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B	TDS/Alks/EC/pH/Cl/SO4	Hardness/Total Metals	Ammonia/COD/TOC/NOXT	TSS	Dissolved Metals	Cation/Anion Balance	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	D	S	N	D			
TB2	4/20/22	0700	G	W			X							2	Short Holds: pH
1/5P	4/20/22	1130	G	W	X		X	X	X	X	X	X	X	11	
4/5S	4/22/22	1215	G	W	X		X	X	X	X	X	X	X	11	
FB2	4/20/22	1240	G	W	X		X	X	X	X	X	X	X	11	
6/7P	4/20/22	1330	G	W	X		X	X	X	X	X	X	X	11	
6/7S	4/22/22	1100	G	W	X		X	X	X	X	X	X	X	11	
8S	4/22/22	1015	G	W	X		X	X	X	X	X	X	X	11	
8P	4/22/22	0915	G	W	X		X	X	X	X	X	X	X	11	
9P	4/22/22	1200	G	W	X		X	X	X	X	X	X	X	11	
9S	4/22/22	1220	G	W	X		X	X	X	X	X	X	X	11	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/22/22 @1630	SCS		4/23/22 1125	GAIDEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☒ Yes ☐ No
Custody Seal No.: 1442297, 1983883, 1984159, 1984164, 1987215

Cooler Temperature(s) °C and Other Remarks: 2.9, 0.6, 2.6, 0.9, 0.4 1/2 CF+0.1

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** 1/GP

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	NE	E	(SE)	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	(RAIN)	?	**TEMPERATURE:**	° F . ° C					

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.		X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) **Sample Depth:** [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	11 : 30	A	3	40 ml	(HCl)	(YES)	NO		
VOA Glass	/ /	:			40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/20/22	11 :30	A	2	250, 500, 1L	(None)	(YES)	NO	NA	
Yellow Glass	4/20/22	11 : 30	A	4	250, 500, 1L	(H_2SO_4)	(YES)	NO		
Red Total Poly	4/20/22	11 : 30	A	1	125, 250, 500	(HNO_3)	(YES)	NO		
Red Diss. Poly	4/20/22	11 : 30	A	1	250, 500, 1L	(HNO_3)	(YES)	(YES)		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	A(1130)	0.00	7.24	73.2	9524	20.1	—	0.74	Black / Brown
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Liquid level - 20.9"

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** 4/SS

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		**TEMPERATURE:**	°F 50.0	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	12:15	A	3	40 ml	HCl	YES	NO		
VOA Glass	/ /	:			40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/20/22	12:15	A	2	250, 500, 1L	None	YES	NO	NA	
Yellow Glass	4/20/22	12:15	A	4	250, 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	4/20/22	12:15	A	1	125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	4/20/22	12:15	A	1	250, 500, 1L	HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	A (1215)	0.00	6.44	3.7	1552	27.6	-	2.76	clear
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

liquid level 16.3"

SAMPLER: _____ _____
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** FB2
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	(SE)	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	(°F) 49.0 °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/20/22	12:40	A	3	~~40 ml~~ HCl	(YES)	(NO)		✓
VOA Glass	/ /	:			40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	4/20/22	12:40	A	2	250, 500, (1D) None	(YES)	(NO)	NA	✓
Yellow Glass	4/20/22	12:40	A	2	250, ~~500~~, 1L H_2SO_4	(YES)	(NO)		✓
Red Total Poly	4/20/22	12:40	A	1	125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	4/20/22	12:40	A	1	250, 500, 1L HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	A (12:40)	0.00	—	—	—	—	—	—	—
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected @ 4155 ET

Collected near 4/55 using lab supplied DI water

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** 0/7P
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	LIGHT	(MEDIUM)	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	° F . ° C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth:

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	[√ if used] √
VOA Glass	4/20/22	13 : 30	A	3	40 ml HCl	YES	NO		
VOA Glass	/ /	:			40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	4/20/22	13 : 30	A	2	250, 500, 1L None	YES	NO	NA	
Yellow Glass	4/20/22	13 : 30	A	4	250, 500, 1L H_2SO_4	YES	NO		
Red Total Poly	4/20/22	13 : 30	A	1	125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	4/20/22	13 : 30	A	1	250, 500, 1L HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX) (VOA)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	A(1330)	0.00	7.32	-20.9	11177	21 .6	/	1.12	Very DArk
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Liquid lvl ~ 10.8'

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** 10175

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	NE	(E)	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN		?		**TEMPERATURE:**	(°F) 58 .	° C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/22/22	11:00	A	3 (40 ml)	HCl	YES	NO		
VOA Glass	/ /	:		40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/22/22	11:00	A	2 (250, 500) 1L	None	YES	NO	NA	
Yellow Glass	4/22/22	11:00	A	4 (250, 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	4/22/22	11:00	A	1 125, 250, (500)	HNO_3	YES	NO		
Red Diss. Poly	4/22/22	11:00	A	1 250, (500), 1L	HNO_3	(YES)	(YES)		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH$_3$) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	A(1100)	0.00	6.65	-22.1	2614	25.5	-	2.21	Green / Clear
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

liquid level 2.7'

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** 8S

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	(N)	NE	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	(SUNNY)	CLOUDY	RAIN	?	**TEMPERATURE:**	(°F) 54.0 °C					

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.	.	X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4/22/22	10:15	A	3 (40 ml)	HCl	YES	NO		
VOA Glass	/ /	:		40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/22/22	10:15	A	2 (250, 500, 1L)	None	YES	NO	NA	
Yellow Glass	4/22/22	10:15	A	4 (250, 500, 1L)	H_2SO_4	YES	NO		
Red Total Poly	4/22/22	10:15	A	1 (125, 250, 500)	HNO_3	YES	NO		
Red Diss. Poly	4/22/22	10:15	A	1 (250, 500, 1L)	HNO_3	(YES)	(YES)		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	A(10:15)	0.00	6.76	63.9	2258	22.2	-	1.37	Clear/greenish
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

liquid level - 12.4'

SAMPLER: EDAN TAYLOR
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** BP
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	(N)	NE	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN		?		**TEMPERATURE:**	(°F) 58 .	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.	.	X 3	.

Gal/ft = (dia./2)^2 x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	4/22/22	7:45	A	3	40 ml	~~HCl~~	~~YES~~	~~NO~~		
VOA Glass	/ /	:			40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4/22/22	7:45	A	2	250, 500, 1L	~~None~~	YES	NO	NA	
Yellow Glass	4/22/22	7:45	A	4	250, 500, 1L	~~H_2SO_4~~	YES	NO		
Red Total Poly	4/22/22	7:45	A	1	125, 250, 500	~~HNO_3~~	YES	NO		
Red Diss. Poly	4/22/22	7:45	A	1	250, 500 1L	~~HNO_3~~	~~YES~~ YES	~~YES~~		
White Poly	/ /	:			250, 500, 1L	None	~~YES~~	~~YES~~		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	A (0745)	0.00	7.10	50.2	5426	14.0	-	4.04	DARK Brown
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

liquid level 11.41'

SAMPLER: EDAN TAYLOR (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** 9S
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	(N)	NE	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	(SUNNY)	CLOUDY	RAIN	?	**TEMPERATURE:**	° F . ° C					

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.	.	X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	4 12/22/22	12 :20	A	3	(40 ml)	HCl	YES	NO		
VOA Glass	/ /	:			40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	4 12/22/22	12 :20	A	2	250, 500, (1L)	None	YES	NO	NA	
Yellow Glass	4 12/22/22	12 :20	A	4	(250) 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	4 12/22/22	12: 20	A	1	125, 250, (500)	HNO_3	YES	NO		
Red Diss. Poly	4 12/22/22	12 : 20	A	1	250, (500), 1L	HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	A (1220)	0.00	7.01	-14.6	4578	25 . 6	<	1 .45	Dark Brown
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

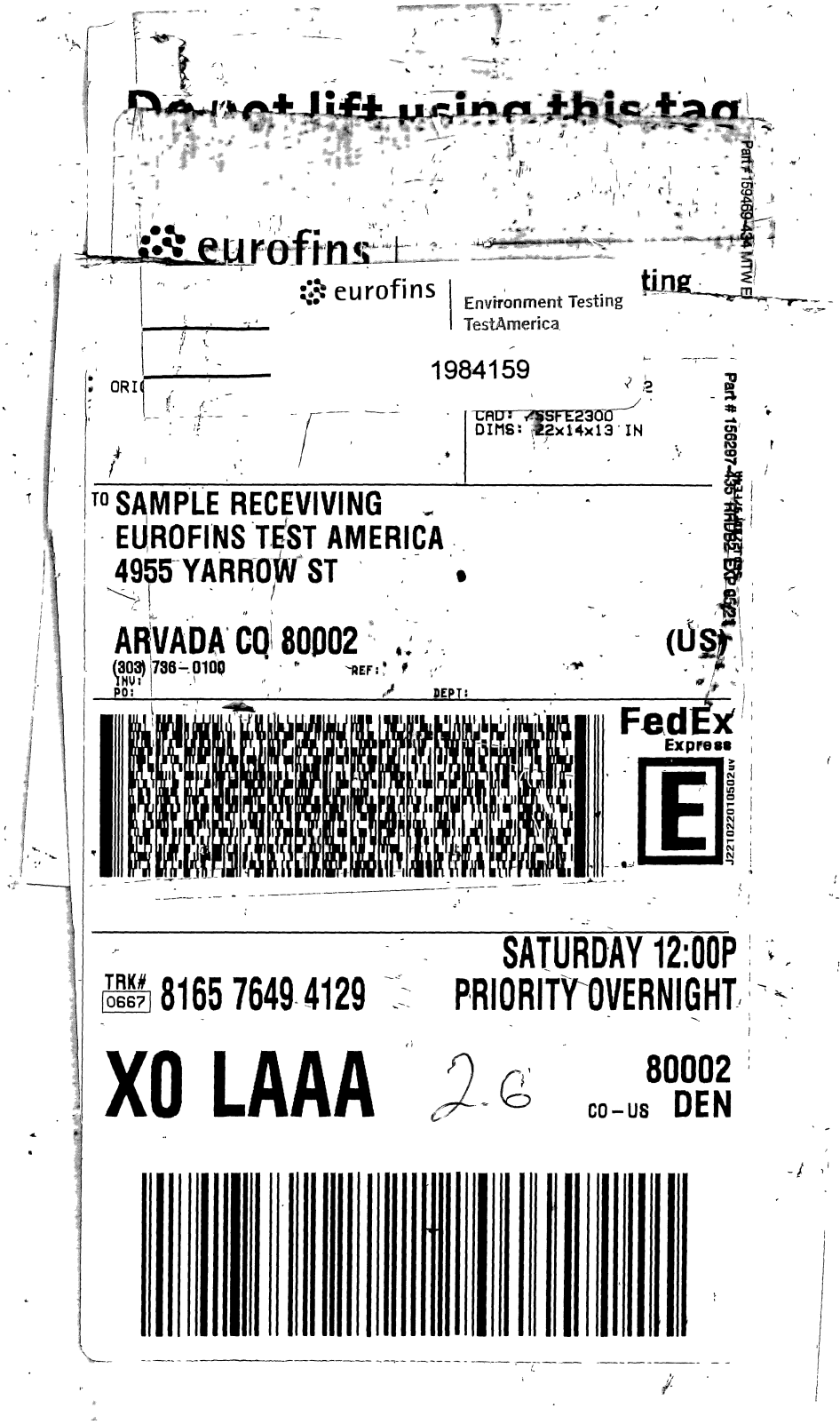
liquid level - 14.7"

Water color lightened as water was sampled

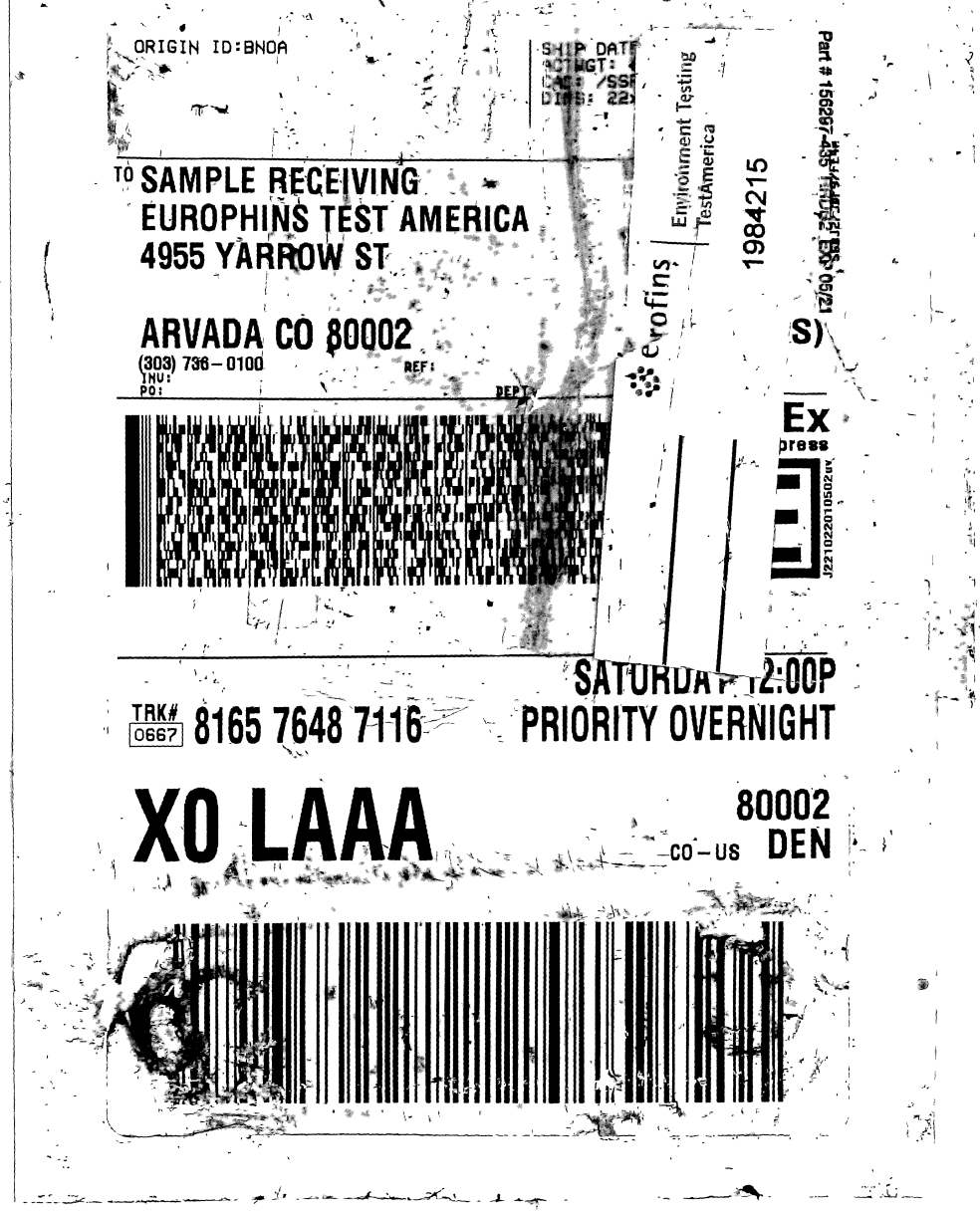
SAMPLER: EDAN TAYLOR
(PRINTED NAME) (SIGNATURE)

280-161446 Waybill

AGIN ID:BNOA
SHIP DATE: 22APR22
ACTWGT: 49.15 LB
CAD: /SSFE2300
DIMS: 22x14x13 IN
0.6
eurofins
Environment Testing
TestAmerica
1983883
SAMP
EURO
4955
ARVADA CO 80002
(US)
(303) 736-0100
REF:
INV:
PO:
DEPT:
FedEx
Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
TRK#
0667
8165 7648 7080
XO LAAA
80002
CO-US DEN


eurofins
eurofins | Environment Testing TestAmerica
1984159
CAD: 7SSFE2300
DIMS: 22x14x13 IN
TO SAMPLE RECEIVIVING
EUROFINS TEST AMERICA
4955 YARROW ST
ARVADA CO 80002
(US)
(303) 736-0100
REF:
INV:
PO:
DEPT:
FedEx
Express
TRK# 0667 8165 7649 4129
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO LAAA
2.6
80002
CO-US DEN

ORIGIN ID:BNOA
eurofins
Environment Testing
TestAmerica
Custody Seal
1984164
ARVADA CO 80002
(303) 736-0100
(US)
REF:
INV:
PO:
DEPT:
FedEx
Express
J22102201050Zuv
SATURDAY 12:00P
PRIORITY OVERNIGHT
TRK#
0667
8165 7648 7090
XO LAAA
80002
CO-US
DEN


ORIGIN ID:BNOA
SHIP DATE
ACTWGT:
CAD: /SSF
DIMS: 22
TO SAMPLE RECEIVING
EUROPHINS TEST AMERICA
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
INV:
PO:
REF:
DEPT:
Eurofins | Environment Testing
TestAmerica
1984215
Part # 156267-435 REV. EXP 05/21
S)
Ex
press
SATURDAY 12:00P
TRK#
0667
8165 7648 7116
PRIORITY OVERNIGHT
XO LAAA
80002
CO-US
DEN

2.9

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-161446-1

Login Number: 161446

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Fall 2022

Compliance Groundwater

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Generated 1/9/2023 10:42:56 AM

JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Compliance Wells - Apr Oct

JOB NUMBER

280-169301-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

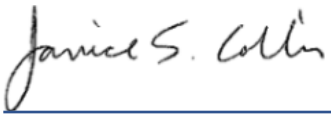
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Definitions/Glossary

Client: Waste Management
Job ID: 280-169301-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-169301-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-169301-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/17/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.4°C, 0.8°C and 1.7°C

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP11152201 (280-169301-6). 1L poly lists sample time 1230. COC lists 1030. Logged per COC.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples TRIP BLANK (280-169301-1), MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201 (280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/19/2022 and 11/20/2022.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-594149 exceeded the RPD limit for LCSD 280-594149/4 for Chloromethane (20%) at 22% and Dichlorodifluoromethane (21%) at 26%. The recoveries of these compounds in the LCS and LCSD were within limits and was non-detect in the associated samples.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

1,2-DIBROMOETHANE, 1,2-DIBROMO-3-CHLOROPROPANE, AND 1,2,3-TRICHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY

Samples TRIP BLANK (280-169301-1), MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201 (280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, and 1,2,3-trichloropropane by microextraction and gas chromatography in accordance with EPA SW-846 Method 8011. The samples were prepared and analyzed on 11/22/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS

Samples MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201

Job ID: 280-169301-1 (Continued)

Laboratory: Eurofins Denver (Continued)

(280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/01/2022 and analyzed on 12/02/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY
Samples MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201 (280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 11/21/2022 and 11/22/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS
Samples MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201 (280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 11/18/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)
Samples MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201 (280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for anions (28 days) in accordance with EPA Method 300.0 (28 Days). The samples were analyzed on 12/02/2022 and 12/06/2022.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AMMONIA
Samples MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201 (280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 12/06/2022 and 12/07/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN
Samples MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201 (280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 11/29/2022 and 12/01/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Samples MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201 (280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 12/02/2022 and 12/05/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE

Job ID: 280-169301-1 (Continued)

Laboratory: Eurofins Denver (Continued)

Samples MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201 (280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for Cation Anion Balance in accordance with epa methodologies. The samples were analyzed on 12/09/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE

Samples MW-16B (280-169301-2), FB11152201 (280-169301-3), MW-21A (280-169301-4), MW-15B (280-169301-5), DUP11152201 (280-169301-6), MW-14B (280-169301-7), MW-21B (280-169301-8), MW-12A (280-169301-9), MW-12B (280-169301-10), MW-16A (280-169301-11) and DUP11162201 (280-169301-12) were analyzed for Cation Anion Balance in accordance with Cation Anion Balance. The samples were analyzed on 12/09/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-169301-1

No Detections.

Client Sample ID: MW-16B — Lab Sample ID: 280-169301-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	96000		500		ug/L	1		6010B	Dissolved
Iron	430		30		ug/L	1		6010B	Dissolved
Magnesium	35000		200		ug/L	1		6010B	Dissolved
Manganese	2800		3.0		ug/L	1		6010B	Dissolved
Potassium	530		500		ug/L	1		6010B	Dissolved
Sodium	63000		1000		ug/L	1		6010B	Dissolved
Chloride	120		0.50		mg/L	1		300.0	Total/NA
Sulfate	4.0		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.25		0.030		mg/L	1		350.1	Total/NA
Nitrate/Nitrite	0.058		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.7		1.0		mg/L	1		9060	Total/NA
Total Anions	11				meq/L	1		SM 1030E	Total/NA
Total Cations	10				meq/L	1		SM 1030E	Total/NA
Percent Difference	-0.95				%	1		SM 1030E	Total/NA
Calcium	96				mg/L	1		SM 1030E	Total/NA
Magnesium	35				mg/L	1		SM 1030E	Total/NA
Potassium	0.53				mg/L	1		SM 1030E	Total/NA
Sodium	63				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.25				mg/L	1		SM 1030E	Total/NA
Chloride	120				mg/L	1		SM 1030E	Total/NA
Sulfate	4.0				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	360				mg/L	1		SM 1030E	Total/NA
Alkalinity	360				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.058				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-0.95				%	1		SM 1030E	Total/NA
Calculated TDS	530				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	530				mg/L	1		SM 1030E	Total/NA
Iron	0.43				mg/L	1		SM 1030E	Total/NA
Calcium	4.8				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	2.9				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.014				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	2.7				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.018				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	3.4				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.083				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	360				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	7.2				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.0041				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.023				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	360		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	530		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB11152201 — Lab Sample ID: 280-169301-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Total Anions	0.00				meq/L	1		SM 1030E	Total/NA
Total Cations	0.00				meq/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: FB11152201 (Continued)

Lab Sample ID: 280-169301-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Percent Difference	NC				%	1		SM 1030E	Total/NA
Calcium	0.00				mg/L	1		SM 1030E	Total/NA
Magnesium	0.00				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	0.00				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	0.00				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	NC				%	1		SM 1030E	Total/NA
Calculated TDS	0.00				mg/L	1		SM 1030E	Total/NA
TDS Ratio	NC				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	0.00				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA

Client Sample ID: MW-21A

Lab Sample ID: 280-169301-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	35000		500		ug/L	1		6010B	Dissolved
Magnesium	14000		200		ug/L	1		6010B	Dissolved
Sodium	15000		1000		ug/L	1		6010B	Dissolved
Chloride	8.4		0.50		mg/L	1		300.0	Total/NA
Sulfate	13		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.073		0.030		mg/L	1		350.1	Total/NA
Nitrate/Nitrite	1.3		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.9		1.0		mg/L	1		9060	Total/NA
Total Anions	3.6				meq/L	1		SM 1030E	Total/NA
Total Cations	3.6				meq/L	1		SM 1030E	Total/NA
Percent Difference	-0.58				%	1		SM 1030E	Total/NA
Calcium	35				mg/L	1		SM 1030E	Total/NA
Magnesium	14				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	15				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.073				mg/L	1		SM 1030E	Total/NA
Chloride	8.4				mg/L	1		SM 1030E	Total/NA
Sulfate	13				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	150				mg/L	1		SM 1030E	Total/NA
Alkalinity	150				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-21A (Continued)

Lab Sample ID: 280-169301-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Nitrate/Nitrite	1.3				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-0.58				%	1		SM 1030E	Total/NA
Calculated TDS	160				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	190				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	1.7				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.2				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.65				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.0052				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.24				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.27				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	150				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	3.0				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.093				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	150		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	190		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-15B

Lab Sample ID: 280-169301-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	81000		500		ug/L	1		6010B	Dissolved
Iron	250		30		ug/L	1		6010B	Dissolved
Magnesium	32000		200		ug/L	1		6010B	Dissolved
Manganese	1000		3.0		ug/L	1		6010B	Dissolved
Sodium	37000		1000		ug/L	1		6010B	Dissolved
Chloride	39		0.50		mg/L	1		300.0	Total/NA
Sulfate	1.4		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.19		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	1.4		1.0		mg/L	1		9060	Total/NA
Total Anions	8.1				meq/L	1		SM 1030E	Total/NA
Total Cations	8.3				meq/L	1		SM 1030E	Total/NA
Percent Difference	1.1				%	1		SM 1030E	Total/NA
Calcium	81				mg/L	1		SM 1030E	Total/NA
Magnesium	32				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	37				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.19				mg/L	1		SM 1030E	Total/NA
Chloride	39				mg/L	1		SM 1030E	Total/NA
Sulfate	1.4				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	350				mg/L	1		SM 1030E	Total/NA
Alkalinity	350				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	1.1				%	1		SM 1030E	Total/NA
Calculated TDS	400				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.93				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	370				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	4.0				meq/L	1		SM 1030E (meq)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-15B (Continued)

Lab Sample ID: 280-169301-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Magnesium	2.6				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.6				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.014				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	1.1				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.029				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	350				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	7.0				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	350		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	370		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP11152201

Lab Sample ID: 280-169301-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	81000		500		ug/L	1		6010B	Dissolved
Iron	250		30		ug/L	1		6010B	Dissolved
Magnesium	32000		200		ug/L	1		6010B	Dissolved
Manganese	1000		3.0		ug/L	1		6010B	Dissolved
Sodium	37000		1000		ug/L	1		6010B	Dissolved
Chloride	42		0.50		mg/L	1		300.0	Total/NA
Sulfate	1.3		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.072		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	1.2		1.0		mg/L	1		9060	Total/NA
Total Anions	8.2				meq/L	1		SM 1030E	Total/NA
Total Cations	8.3				meq/L	1		SM 1030E	Total/NA
Percent Difference	0.59				%	1		SM 1030E	Total/NA
Calcium	81				mg/L	1		SM 1030E	Total/NA
Magnesium	32				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	37				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.072				mg/L	1		SM 1030E	Total/NA
Chloride	42				mg/L	1		SM 1030E	Total/NA
Sulfate	1.3				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	350				mg/L	1		SM 1030E	Total/NA
Alkalinity	350				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	0.59				%	1		SM 1030E	Total/NA
Calculated TDS	400				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.97				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	390				mg/L	1		SM 1030E	Total/NA
Iron	0.25				mg/L	1		SM 1030E	Total/NA
Calcium	4.0				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	2.6				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.6				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.0051				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	1.2				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.027				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	350				mg/L	1		SM 1030E (meq)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP11152201 (Continued)

Lab Sample ID: 280-169301-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity	7.0				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.013				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	350		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	390		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-14B

Lab Sample ID: 280-169301-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	51000		500		ug/L	1		6010B	Dissolved
Iron	1000		30		ug/L	1		6010B	Dissolved
Magnesium	15000		200		ug/L	1		6010B	Dissolved
Manganese	1100		3.0		ug/L	1		6010B	Dissolved
Sodium	39000		1000		ug/L	1		6010B	Dissolved
Chloride	33		0.50		mg/L	1		300.0	Total/NA
Sulfate	4.3		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.22		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	1.5		1.0		mg/L	1		9060	Total/NA
Total Anions	5.6				meq/L	1		SM 1030E	Total/NA
Total Cations	5.5				meq/L	1		SM 1030E	Total/NA
Percent Difference	-0.64				%	1		SM 1030E	Total/NA
Calcium	51				mg/L	1		SM 1030E	Total/NA
Magnesium	15				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	39				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.22				mg/L	1		SM 1030E	Total/NA
Chloride	33				mg/L	1		SM 1030E	Total/NA
Sulfate	4.3				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	230				mg/L	1		SM 1030E	Total/NA
Alkalinity	230				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-0.64				%	1		SM 1030E	Total/NA
Calculated TDS	280				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	280				mg/L	1		SM 1030E	Total/NA
Iron	1.0				mg/L	1		SM 1030E	Total/NA
Calcium	2.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.2				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.7				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.016				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.93				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.090				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	230				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	4.6				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.054				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	230		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	280		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: MW-21B — Lab Sample ID: 280-169301-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	44000		500		ug/L	1		6010B	Dissolved
Iron	880		30		ug/L	1		6010B	Dissolved
Magnesium	18000		200		ug/L	1		6010B	Dissolved
Manganese	1600		3.0		ug/L	1		6010B	Dissolved
Potassium	620		500		ug/L	1		6010B	Dissolved
Sodium	32000		1000		ug/L	1		6010B	Dissolved
Chloride	15		0.50		mg/L	1		300.0	Total/NA
Ammonia as N	0.44		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	2.7		1.0		mg/L	1		9060	Total/NA
Total Anions	5.2				meq/L	1		SM 1030E	Total/NA
Total Cations	5.2				meq/L	1		SM 1030E	Total/NA
Percent Difference	-0.53				%	1		SM 1030E	Total/NA
Calcium	44				mg/L	1		SM 1030E	Total/NA
Magnesium	18				mg/L	1		SM 1030E	Total/NA
Potassium	0.62				mg/L	1		SM 1030E	Total/NA
Sodium	32				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.44				mg/L	1		SM 1030E	Total/NA
Chloride	15				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	240				mg/L	1		SM 1030E	Total/NA
Alkalinity	240				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-0.53				%	1		SM 1030E	Total/NA
Calculated TDS	250				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.98				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	250				mg/L	1		SM 1030E	Total/NA
Iron	0.88				mg/L	1		SM 1030E	Total/NA
Calcium	2.2				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.016				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.4				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.031				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.42				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	240				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	4.8				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.047				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	240		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	250		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-12A — Lab Sample ID: 280-169301-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	38000		500		ug/L	1		6010B	Dissolved
Magnesium	15000		200		ug/L	1		6010B	Dissolved
Potassium	740		500		ug/L	1		6010B	Dissolved
Sodium	33000		1000		ug/L	1		6010B	Dissolved
Chloride	79		0.50		mg/L	1		300.0	Total/NA
Sulfate	20		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	7.1		0.050		mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-12A (Continued) — Lab Sample ID: 280-169301-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Average	2.7		1.0		mg/L	1		9060	Total/NA
Total Anions	4.7				meq/L	1		SM 1030E	Total/NA
Total Cations	4.6				meq/L	1		SM 1030E	Total/NA
Percent Difference	-0.92				%	1		SM 1030E	Total/NA
Calcium	38				mg/L	1		SM 1030E	Total/NA
Magnesium	15				mg/L	1		SM 1030E	Total/NA
Potassium	0.74				mg/L	1		SM 1030E	Total/NA
Sodium	33				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	79				mg/L	1		SM 1030E	Total/NA
Sulfate	20				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	76				mg/L	1		SM 1030E	Total/NA
Alkalinity	76				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	7.1				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-0.92				%	1		SM 1030E	Total/NA
Calculated TDS	220				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	270				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	1.9				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.2				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.019				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.4				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	2.2				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.42				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	76				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.51				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	76		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	270		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-12B — Lab Sample ID: 280-169301-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	82000		500		ug/L	1		6010B	Dissolved
Iron	1000		30		ug/L	1		6010B	Dissolved
Magnesium	22000		200		ug/L	1		6010B	Dissolved
Manganese	1000		3.0		ug/L	1		6010B	Dissolved
Potassium	520		500		ug/L	1		6010B	Dissolved
Sodium	32000		1000		ug/L	1		6010B	Dissolved
Chloride	100		0.50		mg/L	1		300.0	Total/NA
Ammonia as N	0.26		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	1.7		1.0		mg/L	1		9060	Total/NA
Total Anions	7.2				meq/L	1		SM 1030E	Total/NA
Total Cations	7.4				meq/L	1		SM 1030E	Total/NA
Percent Difference	1.1				%	1		SM 1030E	Total/NA
Calcium	82				mg/L	1		SM 1030E	Total/NA
Magnesium	22				mg/L	1		SM 1030E	Total/NA
Potassium	0.52				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-12B (Continued)

Lab Sample ID: 280-169301-10

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Sodium	32				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.26				mg/L	1		SM 1030E	Total/NA
Chloride	100				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	220				mg/L	1		SM 1030E	Total/NA
Alkalinity	220				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	1.1				%	1		SM 1030E	Total/NA
Calculated TDS	370				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	400				mg/L	1		SM 1030E	Total/NA
Iron	1.0				mg/L	1		SM 1030E	Total/NA
Calcium	4.1				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.8				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.013				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.4				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.019				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	2.8				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	220				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	4.4				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.054				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	220		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	400		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16A

Lab Sample ID: 280-169301-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	30000		500		ug/L	1		6010B	Dissolved
Iron	44		30		ug/L	1		6010B	Dissolved
Magnesium	14000		200		ug/L	1		6010B	Dissolved
Manganese	460		3.0		ug/L	1		6010B	Dissolved
Sodium	31000		1000		ug/L	1		6010B	Dissolved
Chloride	12		0.50		mg/L	1		300.0	Total/NA
Sulfate	20		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.060		0.030		mg/L	1		350.1	Total/NA
Nitrate/Nitrite	0.11		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	2.1		1.0		mg/L	1		9060	Total/NA
Total Anions	4.4				meq/L	1		SM 1030E	Total/NA
Total Cations	4.0				meq/L	1		SM 1030E	Total/NA
Percent Difference	-4.2				%	1		SM 1030E	Total/NA
Calcium	30				mg/L	1		SM 1030E	Total/NA
Magnesium	14				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	31				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.060				mg/L	1		SM 1030E	Total/NA
Chloride	12				mg/L	1		SM 1030E	Total/NA
Sulfate	20				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	180				mg/L	1		SM 1030E	Total/NA
Alkalinity	180				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-16A (Continued) — Lab Sample ID: 280-169301-11

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Nitrate/Nitrite	0.11				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-4.2				%	1		SM 1030E	Total/NA
Calculated TDS	200				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	210				mg/L	1		SM 1030E	Total/NA
Iron	0.044				mg/L	1		SM 1030E	Total/NA
Calcium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.2				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.3				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.0043				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.34				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.42				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	180				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	3.6				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.0079				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.0024				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	180		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	210		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP11162201 — Lab Sample ID: 280-169301-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	29000		500		ug/L	1		6010B	Dissolved
Magnesium	13000		200		ug/L	1		6010B	Dissolved
Manganese	280		3.0		ug/L	1		6010B	Dissolved
Sodium	30000		1000		ug/L	1		6010B	Dissolved
Chloride	12		0.50		mg/L	1		300.0	Total/NA
Sulfate	20		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.066		0.030		mg/L	1		350.1	Total/NA
Nitrate/Nitrite	0.071		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.9		1.0		mg/L	1		9060	Total/NA
Total Anions	4.2				meq/L	1		SM 1030E	Total/NA
Total Cations	3.8				meq/L	1		SM 1030E	Total/NA
Percent Difference	-4.1				%	1		SM 1030E	Total/NA
Calcium	29				mg/L	1		SM 1030E	Total/NA
Magnesium	13				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	30				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.066				mg/L	1		SM 1030E	Total/NA
Chloride	12				mg/L	1		SM 1030E	Total/NA
Sulfate	20				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	170				mg/L	1		SM 1030E	Total/NA
Alkalinity	170				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.071				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-4.1				%	1		SM 1030E	Total/NA
Calculated TDS	190				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	210				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	1.4				meq/L	1		SM 1030E (meq)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP11162201 (Continued)

Lab Sample ID: 280-169301-12

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Magnesium	1.1				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.3				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.0047				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.34				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.42				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	170				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	3.4				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.0051				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	170		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	210		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-169301-1	TRIP BLANK	Water	11/15/22 07:00	11/17/22 10:30
280-169301-2	MW-16B	Water	11/15/22 09:10	11/17/22 10:30
280-169301-3	FB11152201	Water	11/15/22 09:20	11/17/22 10:30
280-169301-4	MW-21A	Water	11/15/22 13:20	11/17/22 10:30
280-169301-5	MW-15B	Water	11/15/22 10:25	11/17/22 10:30
280-169301-6	DUP11152201	Water	11/15/22 10:30	11/17/22 10:30
280-169301-7	MW-14B	Water	11/15/22 12:15	11/17/22 10:30
280-169301-8	MW-21B	Water	11/15/22 14:15	11/17/22 10:30
280-169301-9	MW-12A	Water	11/15/22 15:25	11/17/22 10:30
280-169301-10	MW-12B	Water	11/15/22 15:50	11/17/22 10:30
280-169301-11	MW-16A	Water	11/16/22 08:25	11/17/22 10:30
280-169301-12	DUP11162201	Water	11/16/22 08:30	11/17/22 10:30

Method Summary

Client: Waste Management
Job ID: 280-169301-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	MCAWW	EET BUF
350.1	Nitrogen, Ammonia	MCAWW	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: TRIP BLANK
Date Collected: 11/15/22 07:00
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 20:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/22 20:35	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 20:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/22 20:35	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/22 20:35	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/22 20:35	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/22 20:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/19/22 20:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/22 20:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/22 20:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/19/22 20:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/22 20:35	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/22 20:35	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/22 20:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/19/22 20:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/22 20:35	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/22 20:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/22 20:35	1
2,2-Dichloropropane	ND		5.0		ug/L			11/19/22 20:35	1
2-Butanone (MEK)	ND		6.0		ug/L			11/19/22 20:35	1
2-Chlorotoluene	ND		1.0		ug/L			11/19/22 20:35	1
2-Hexanone	ND		5.0		ug/L			11/19/22 20:35	1
4-Chlorotoluene	ND		1.0		ug/L			11/19/22 20:35	1
4-Isopropyltoluene	ND		1.0		ug/L			11/19/22 20:35	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/19/22 20:35	1
Acetone	ND		10		ug/L			11/19/22 20:35	1
Benzene	ND		1.0		ug/L			11/19/22 20:35	1
Bromobenzene	ND		1.0		ug/L			11/19/22 20:35	1
Bromochloromethane	ND		1.0		ug/L			11/19/22 20:35	1
Bromodichloromethane	ND		1.0		ug/L			11/19/22 20:35	1
Bromoform	ND		1.2		ug/L			11/19/22 20:35	1
Bromomethane	ND		2.4		ug/L			11/19/22 20:35	1
Carbon disulfide	ND		2.0		ug/L			11/19/22 20:35	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/22 20:35	1
Chlorobenzene	ND		1.0		ug/L			11/19/22 20:35	1
Chloroethane	ND		2.0		ug/L			11/19/22 20:35	1
Chloroform	ND		1.0		ug/L			11/19/22 20:35	1
Chloromethane	ND	*1	2.0		ug/L			11/19/22 20:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 20:35	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/22 20:35	1
Dibromochloromethane	ND		1.0		ug/L			11/19/22 20:35	1
Dibromomethane	ND		1.0		ug/L			11/19/22 20:35	1
Dichlorodifluoromethane	ND	*1	2.0		ug/L			11/19/22 20:35	1
Ethylbenzene	ND		1.0		ug/L			11/19/22 20:35	1
Hexachlorobutadiene	ND		1.2		ug/L			11/19/22 20:35	1
Isopropylbenzene	ND		1.0		ug/L			11/19/22 20:35	1
Methylene Chloride	ND		5.0		ug/L			11/19/22 20:35	1
Naphthalene	ND		1.0		ug/L			11/19/22 20:35	1
n-Butylbenzene	ND		1.0		ug/L			11/19/22 20:35	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-169301-1
Date Collected: 11/15/22 07:00
Matrix: Water
Date Received: 11/17/22 10:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			11/19/22 20:35	1
sec-Butylbenzene	ND		1.0		ug/L			11/19/22 20:35	1
Styrene	ND		1.0		ug/L			11/19/22 20:35	1
tert-Butylbenzene	ND		1.0		ug/L			11/19/22 20:35	1
Tetrachloroethene	ND		1.0		ug/L			11/19/22 20:35	1
Toluene	ND		1.0		ug/L			11/19/22 20:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 20:35	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/19/22 20:35	1
Trichloroethene	ND		1.0		ug/L			11/19/22 20:35	1
Trichlorofluoromethane	ND		2.0		ug/L			11/19/22 20:35	1
Vinyl chloride	ND		1.0		ug/L			11/19/22 20:35	1
Xylenes (total)	ND		2.0		ug/L			11/19/22 20:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/19/22 20:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*		*11/19/22 20:35*	*1*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*11/19/22 20:35*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*11/19/22 20:35*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*11/19/22 20:35*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 19:01	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*127*		*70 - 130*	*11/22/22 11:24*	*11/22/22 19:01*	*1*

Client Sample ID: MW-16B
Lab Sample ID: 280-169301-2
Date Collected: 11/15/22 09:10
Matrix: Water
Date Received: 11/17/22 10:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 23:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/22 23:49	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 23:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/22 23:49	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/22 23:49	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/22 23:49	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/22 23:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/19/22 23:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/22 23:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/22 23:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/19/22 23:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/22 23:49	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/22 23:49	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/22 23:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/19/22 23:49	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: MW-16B
Date Collected: 11/15/22 09:10
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/22 23:49	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/22 23:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/22 23:49	1
2,2-Dichloropropane	ND		5.0		ug/L			11/19/22 23:49	1
2-Butanone (MEK)	ND		6.0		ug/L			11/19/22 23:49	1
2-Chlorotoluene	ND		1.0		ug/L			11/19/22 23:49	1
2-Hexanone	ND		5.0		ug/L			11/19/22 23:49	1
4-Chlorotoluene	ND		1.0		ug/L			11/19/22 23:49	1
4-Isopropyltoluene	ND		1.0		ug/L			11/19/22 23:49	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/19/22 23:49	1
Acetone	ND		10		ug/L			11/19/22 23:49	1
Benzene	ND		1.0		ug/L			11/19/22 23:49	1
Bromobenzene	ND		1.0		ug/L			11/19/22 23:49	1
Bromochloromethane	ND		1.0		ug/L			11/19/22 23:49	1
Bromodichloromethane	ND		1.0		ug/L			11/19/22 23:49	1
Bromoform	ND		1.2		ug/L			11/19/22 23:49	1
Bromomethane	ND		2.4		ug/L			11/19/22 23:49	1
Carbon disulfide	ND		2.0		ug/L			11/19/22 23:49	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/22 23:49	1
Chlorobenzene	ND		1.0		ug/L			11/19/22 23:49	1
Chloroethane	ND		2.0		ug/L			11/19/22 23:49	1
Chloroform	ND		1.0		ug/L			11/19/22 23:49	1
Chloromethane	ND	*1	2.0		ug/L			11/19/22 23:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 23:49	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/22 23:49	1
Dibromochloromethane	ND		1.0		ug/L			11/19/22 23:49	1
Dibromomethane	ND		1.0		ug/L			11/19/22 23:49	1
Dichlorodifluoromethane	ND	*1	2.0		ug/L			11/19/22 23:49	1
Ethylbenzene	ND		1.0		ug/L			11/19/22 23:49	1
Hexachlorobutadiene	ND		1.2		ug/L			11/19/22 23:49	1
Isopropylbenzene	ND		1.0		ug/L			11/19/22 23:49	1
Methylene Chloride	ND		5.0		ug/L			11/19/22 23:49	1
Naphthalene	ND		1.0		ug/L			11/19/22 23:49	1
n-Butylbenzene	ND		1.0		ug/L			11/19/22 23:49	1
N-Propylbenzene	ND		1.0		ug/L			11/19/22 23:49	1
sec-Butylbenzene	ND		1.0		ug/L			11/19/22 23:49	1
Styrene	ND		1.0		ug/L			11/19/22 23:49	1
tert-Butylbenzene	ND		1.0		ug/L			11/19/22 23:49	1
Tetrachloroethene	ND		1.0		ug/L			11/19/22 23:49	1
Toluene	ND		1.0		ug/L			11/19/22 23:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 23:49	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/19/22 23:49	1
Trichloroethene	ND		1.0		ug/L			11/19/22 23:49	1
Trichlorofluoromethane	ND		2.0		ug/L			11/19/22 23:49	1
Vinyl chloride	ND		1.0		ug/L			11/19/22 23:49	1
Xylenes (total)	ND		2.0		ug/L			11/19/22 23:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/19/22 23:49*	*1*

Client Sample ID: MW-16B

Date Collected: 11/15/22 09:10
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*		*11/19/22 23:49*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/19/22 23:49*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*11/19/22 23:49*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*11/19/22 23:49*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 19:26	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*121*		*70 - 130*	*11/22/22 11:24*	*11/22/22 19:26*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**96000**		500		ug/L		12/01/22 09:30	12/02/22 06:54	1
Iron	**430**		30		ug/L		12/01/22 09:30	12/02/22 06:54	1
Magnesium	**35000**		200		ug/L		12/01/22 09:30	12/02/22 06:54	1
Manganese	**2800**		3.0		ug/L		12/01/22 09:30	12/02/22 06:54	1
Potassium	**530**		500		ug/L		12/01/22 09:30	12/02/22 06:54	1
Sodium	**63000**		1000		ug/L		12/01/22 09:30	12/02/22 06:54	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**11**				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	**10**				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	**-0.95**				%			12/09/22 13:24	1
Calcium (SM 1030E)	**96**				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	**35**				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	**0.53**				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	**63**				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	**0.25**				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	**120**				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	**4.0**				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E)	**360**				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	**360**				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	**0.058**				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	**-0.95**				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	**530**				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	**1.0**				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	**530**				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	**0.43**				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	**4.8**				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	**2.9**				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	**0.014**				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	**2.7**				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	**0.018**				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	**3.4**				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	**0.083**				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	**360**				mg/L			12/09/22 13:24	1

Client Sample ID: MW-16B

Lab Sample ID: 280-169301-2

Date Collected: 11/15/22 09:10

Matrix: Water

Date Received: 11/17/22 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E (meq))	7.2				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.0041				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.023				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	120		0.50		mg/L			12/02/22 18:39	1
Sulfate (MCAWW 300.0)	4.0		1.0		mg/L			12/02/22 18:39	1
Ammonia as N (MCAWW 350.1)	0.25		0.030		mg/L			12/06/22 16:01	1
Nitrate/Nitrite (MCAWW 353.2)	0.058		0.050		mg/L			12/01/22 13:33	1
Total Organic Carbon - Average (SW846 9060)	1.7		1.0		mg/L			12/02/22 15:39	1
Bicarbonate Alkalinity (SM 2320B)	360		10		mg/L			11/21/22 23:32	1
Total Dissolved Solids (SM 2540C)	530		10		mg/L			11/18/22 10:18	1

Client Sample ID: FB11152201

Lab Sample ID: 280-169301-3

Date Collected: 11/15/22 09:20

Matrix: Water

Date Received: 11/17/22 10:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 12:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/22 12:27	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 12:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/22 12:27	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/22 12:27	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/22 12:27	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/22 12:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/19/22 12:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/22 12:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/22 12:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/19/22 12:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/22 12:27	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/22 12:27	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/22 12:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/19/22 12:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/22 12:27	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/22 12:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/22 12:27	1
2,2-Dichloropropane	ND		5.0		ug/L			11/19/22 12:27	1
2-Butanone (MEK)	ND		6.0		ug/L			11/19/22 12:27	1
2-Chlorotoluene	ND		1.0		ug/L			11/19/22 12:27	1
2-Hexanone	ND		5.0		ug/L			11/19/22 12:27	1
4-Chlorotoluene	ND		1.0		ug/L			11/19/22 12:27	1
4-Isopropyltoluene	ND		1.0		ug/L			11/19/22 12:27	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/19/22 12:27	1
Acetone	ND		10		ug/L			11/19/22 12:27	1
Benzene	ND		1.0		ug/L			11/19/22 12:27	1
Bromobenzene	ND		1.0		ug/L			11/19/22 12:27	1
Bromochloromethane	ND		1.0		ug/L			11/19/22 12:27	1
Bromodichloromethane	ND		1.0		ug/L			11/19/22 12:27	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: FB11152201
Date Collected: 11/15/22 09:20
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.2		ug/L			11/19/22 12:27	1
Bromomethane	ND		2.4		ug/L			11/19/22 12:27	1
Carbon disulfide	ND		2.0		ug/L			11/19/22 12:27	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/22 12:27	1
Chlorobenzene	ND		1.0		ug/L			11/19/22 12:27	1
Chloroethane	ND		2.0		ug/L			11/19/22 12:27	1
Chloroform	ND		1.0		ug/L			11/19/22 12:27	1
Chloromethane	ND		2.0		ug/L			11/19/22 12:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 12:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/22 12:27	1
Dibromochloromethane	ND		1.0		ug/L			11/19/22 12:27	1
Dibromomethane	ND		1.0		ug/L			11/19/22 12:27	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/19/22 12:27	1
Ethylbenzene	ND		1.0		ug/L			11/19/22 12:27	1
Hexachlorobutadiene	ND		1.2		ug/L			11/19/22 12:27	1
Isopropylbenzene	ND		1.0		ug/L			11/19/22 12:27	1
Methylene Chloride	ND		5.0		ug/L			11/19/22 12:27	1
Naphthalene	ND		1.0		ug/L			11/19/22 12:27	1
n-Butylbenzene	ND		1.0		ug/L			11/19/22 12:27	1
N-Propylbenzene	ND		1.0		ug/L			11/19/22 12:27	1
sec-Butylbenzene	ND		1.0		ug/L			11/19/22 12:27	1
Styrene	ND		1.0		ug/L			11/19/22 12:27	1
tert-Butylbenzene	ND		1.0		ug/L			11/19/22 12:27	1
Tetrachloroethene	ND		1.0		ug/L			11/19/22 12:27	1
Toluene	ND		1.0		ug/L			11/19/22 12:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 12:27	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/19/22 12:27	1
Trichloroethene	ND		1.0		ug/L			11/19/22 12:27	1
Trichlorofluoromethane	ND		2.0		ug/L			11/19/22 12:27	1
Vinyl chloride	ND		1.0		ug/L			11/19/22 12:27	1
Xylenes (total)	ND		2.0		ug/L			11/19/22 12:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/19/22 12:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*11/19/22 12:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*11/19/22 12:27*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*11/19/22 12:27*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*11/19/22 12:27*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 19:50	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*123*		*70 - 130*	*11/22/22 11:24*	*11/22/22 19:50*	*1*

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: FB11152201

Date Collected: 11/15/22 09:20
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-3

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		12/01/22 09:30	12/02/22 07:15	1
Iron	ND		30		ug/L		12/01/22 09:30	12/02/22 07:15	1
Magnesium	ND		200		ug/L		12/01/22 09:30	12/02/22 07:15	1
Manganese	ND		3.0		ug/L		12/01/22 09:30	12/02/22 07:15	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 07:15	1
Sodium	ND		1000		ug/L		12/01/22 09:30	12/02/22 07:15	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**0.00**				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	**0.00**				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	**NC**				%			12/09/22 13:24	1
Calcium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	**NC**				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	**NC**				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	**0.00**				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	ND		0.50		mg/L			12/02/22 18:58	1
Sulfate (MCAWW 300.0)	ND		1.0		mg/L			12/02/22 18:58	1
Ammonia as N (MCAWW 350.1)	ND		0.030		mg/L			12/07/22 14:44	1
Nitrate/Nitrite (MCAWW 353.2)	ND		0.050		mg/L			11/29/22 11:41	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			12/02/22 16:23	1
Bicarbonate Alkalinity (SM 2320B)	ND		10		mg/L			11/22/22 00:05	1
Total Dissolved Solids (SM 2540C)	ND		10		mg/L			11/18/22 10:26	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: MW-21A
Date Collected: 11/15/22 13:20
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 15:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/22 15:20	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 15:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/22 15:20	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/22 15:20	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/22 15:20	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/22 15:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/19/22 15:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/22 15:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/22 15:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/19/22 15:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/22 15:20	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/22 15:20	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/22 15:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/19/22 15:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/22 15:20	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/22 15:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/22 15:20	1
2,2-Dichloropropane	ND		5.0		ug/L			11/19/22 15:20	1
2-Butanone (MEK)	ND		6.0		ug/L			11/19/22 15:20	1
2-Chlorotoluene	ND		1.0		ug/L			11/19/22 15:20	1
2-Hexanone	ND		5.0		ug/L			11/19/22 15:20	1
4-Chlorotoluene	ND		1.0		ug/L			11/19/22 15:20	1
4-Isopropyltoluene	ND		1.0		ug/L			11/19/22 15:20	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/19/22 15:20	1
Acetone	ND		10		ug/L			11/19/22 15:20	1
Benzene	ND		1.0		ug/L			11/19/22 15:20	1
Bromobenzene	ND		1.0		ug/L			11/19/22 15:20	1
Bromochloromethane	ND		1.0		ug/L			11/19/22 15:20	1
Bromodichloromethane	ND		1.0		ug/L			11/19/22 15:20	1
Bromoform	ND		1.2		ug/L			11/19/22 15:20	1
Bromomethane	ND		2.4		ug/L			11/19/22 15:20	1
Carbon disulfide	ND		2.0		ug/L			11/19/22 15:20	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/22 15:20	1
Chlorobenzene	ND		1.0		ug/L			11/19/22 15:20	1
Chloroethane	ND		2.0		ug/L			11/19/22 15:20	1
Chloroform	ND		1.0		ug/L			11/19/22 15:20	1
Chloromethane	ND		2.0		ug/L			11/19/22 15:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 15:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/22 15:20	1
Dibromochloromethane	ND		1.0		ug/L			11/19/22 15:20	1
Dibromomethane	ND		1.0		ug/L			11/19/22 15:20	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/19/22 15:20	1
Ethylbenzene	ND		1.0		ug/L			11/19/22 15:20	1
Hexachlorobutadiene	ND		1.2		ug/L			11/19/22 15:20	1
Isopropylbenzene	ND		1.0		ug/L			11/19/22 15:20	1
Methylene Chloride	ND		5.0		ug/L			11/19/22 15:20	1
Naphthalene	ND		1.0		ug/L			11/19/22 15:20	1
n-Butylbenzene	ND		1.0		ug/L			11/19/22 15:20	1

Client Sample ID: MW-21A

Date Collected: 11/15/22 13:20
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			11/19/22 15:20	1
sec-Butylbenzene	ND		1.0		ug/L			11/19/22 15:20	1
Styrene	ND		1.0		ug/L			11/19/22 15:20	1
tert-Butylbenzene	ND		1.0		ug/L			11/19/22 15:20	1
Tetrachloroethene	ND		1.0		ug/L			11/19/22 15:20	1
Toluene	ND		1.0		ug/L			11/19/22 15:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 15:20	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/19/22 15:20	1
Trichloroethene	ND		1.0		ug/L			11/19/22 15:20	1
Trichlorofluoromethane	ND		2.0		ug/L			11/19/22 15:20	1
Vinyl chloride	ND		1.0		ug/L			11/19/22 15:20	1
Xylenes (total)	ND		2.0		ug/L			11/19/22 15:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/19/22 15:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*11/19/22 15:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*11/19/22 15:20*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*11/19/22 15:20*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*11/19/22 15:20*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 20:39	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*118*		*70 - 130*	*11/22/22 11:24*	*11/22/22 20:39*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**35000**		500		ug/L		12/01/22 09:30	12/02/22 07:19	1
Iron	ND		30		ug/L		12/01/22 09:30	12/02/22 07:19	1
Magnesium	**14000**		200		ug/L		12/01/22 09:30	12/02/22 07:19	1
Manganese	ND		3.0		ug/L		12/01/22 09:30	12/02/22 07:19	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 07:19	1
Sodium	**15000**		1000		ug/L		12/01/22 09:30	12/02/22 07:19	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**3.6**				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	**3.6**				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	**-0.58**				%			12/09/22 13:24	1
Calcium (SM 1030E)	**35**				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	**14**				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	**15**				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	**0.073**				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	**8.4**				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	**13**				mg/L			12/09/22 13:24	1

Client Sample ID: MW-21A

Lab Sample ID: 280-169301-4

Date Collected: 11/15/22 13:20

Matrix: Water

Date Received: 11/17/22 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E)	150				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	150				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	1.3				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	-0.58				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	160				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	1.2				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	190				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	1.7				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	1.2				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	0.65				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	0.0052				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	0.24				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	0.27				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	150				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E (meq))	3.0				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.093				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	8.4		0.50		mg/L			12/06/22 17:12	1
Sulfate (MCAWW 300.0)	13		1.0		mg/L			12/06/22 17:12	1
Ammonia as N (MCAWW 350.1)	0.073		0.030		mg/L			12/07/22 14:47	1
Nitrate/Nitrite (MCAWW 353.2)	1.3		0.050		mg/L			11/29/22 11:55	1
Total Organic Carbon - Average (SW846 9060)	1.9		1.0		mg/L			12/02/22 16:37	1
Bicarbonate Alkalinity (SM 2320B)	150		10		mg/L			11/22/22 00:16	1
Total Dissolved Solids (SM 2540C)	190		10		mg/L			11/18/22 10:26	1

Client Sample ID: MW-15B

Lab Sample ID: 280-169301-5

Date Collected: 11/15/22 10:25

Matrix: Water

Date Received: 11/17/22 10:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 15:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/22 15:42	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 15:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/22 15:42	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/22 15:42	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/22 15:42	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/22 15:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/19/22 15:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/22 15:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/22 15:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/19/22 15:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/22 15:42	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/22 15:42	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/22 15:42	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: MW-15B
Date Collected: 11/15/22 10:25
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/19/22 15:42	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/22 15:42	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/22 15:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/22 15:42	1
2,2-Dichloropropane	ND		5.0		ug/L			11/19/22 15:42	1
2-Butanone (MEK)	ND		6.0		ug/L			11/19/22 15:42	1
2-Chlorotoluene	ND		1.0		ug/L			11/19/22 15:42	1
2-Hexanone	ND		5.0		ug/L			11/19/22 15:42	1
4-Chlorotoluene	ND		1.0		ug/L			11/19/22 15:42	1
4-Isopropyltoluene	ND		1.0		ug/L			11/19/22 15:42	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/19/22 15:42	1
Acetone	ND		10		ug/L			11/19/22 15:42	1
Benzene	ND		1.0		ug/L			11/19/22 15:42	1
Bromobenzene	ND		1.0		ug/L			11/19/22 15:42	1
Bromochloromethane	ND		1.0		ug/L			11/19/22 15:42	1
Bromodichloromethane	ND		1.0		ug/L			11/19/22 15:42	1
Bromoform	ND		1.2		ug/L			11/19/22 15:42	1
Bromomethane	ND		2.4		ug/L			11/19/22 15:42	1
Carbon disulfide	ND		2.0		ug/L			11/19/22 15:42	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/22 15:42	1
Chlorobenzene	ND		1.0		ug/L			11/19/22 15:42	1
Chloroethane	ND		2.0		ug/L			11/19/22 15:42	1
Chloroform	ND		1.0		ug/L			11/19/22 15:42	1
Chloromethane	ND		2.0		ug/L			11/19/22 15:42	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 15:42	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/22 15:42	1
Dibromochloromethane	ND		1.0		ug/L			11/19/22 15:42	1
Dibromomethane	ND		1.0		ug/L			11/19/22 15:42	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/19/22 15:42	1
Ethylbenzene	ND		1.0		ug/L			11/19/22 15:42	1
Hexachlorobutadiene	ND		1.2		ug/L			11/19/22 15:42	1
Isopropylbenzene	ND		1.0		ug/L			11/19/22 15:42	1
Methylene Chloride	ND		5.0		ug/L			11/19/22 15:42	1
Naphthalene	ND		1.0		ug/L			11/19/22 15:42	1
n-Butylbenzene	ND		1.0		ug/L			11/19/22 15:42	1
N-Propylbenzene	ND		1.0		ug/L			11/19/22 15:42	1
sec-Butylbenzene	ND		1.0		ug/L			11/19/22 15:42	1
Styrene	ND		1.0		ug/L			11/19/22 15:42	1
tert-Butylbenzene	ND		1.0		ug/L			11/19/22 15:42	1
Tetrachloroethene	ND		1.0		ug/L			11/19/22 15:42	1
Toluene	ND		1.0		ug/L			11/19/22 15:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 15:42	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/19/22 15:42	1
Trichloroethene	ND		1.0		ug/L			11/19/22 15:42	1
Trichlorofluoromethane	ND		2.0		ug/L			11/19/22 15:42	1
Vinyl chloride	ND		1.0		ug/L			11/19/22 15:42	1
Xylenes (total)	ND		2.0		ug/L			11/19/22 15:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/19/22 15:42*	*1*

Client Sample ID: MW-15B

Date Collected: 11/15/22 10:25
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*		*11/19/22 15:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*11/19/22 15:42*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*11/19/22 15:42*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*11/19/22 15:42*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 21:03	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*120*		*70 - 130*	*11/22/22 11:24*	*11/22/22 21:03*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**81000**		500		ug/L		12/01/22 09:30	12/02/22 07:23	1
Iron	**250**		30		ug/L		12/01/22 09:30	12/02/22 07:23	1
Magnesium	**32000**		200		ug/L		12/01/22 09:30	12/02/22 07:23	1
Manganese	**1000**		3.0		ug/L		12/01/22 09:30	12/02/22 07:23	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 07:23	1
Sodium	**37000**		1000		ug/L		12/01/22 09:30	12/02/22 07:23	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**8.1**				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	**8.3**				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	**1.1**				%			12/09/22 13:24	1
Calcium (SM 1030E)	**81**				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	**32**				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	**37**				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	**0.19**				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	**39**				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	**1.4**				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E)	**350**				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	**350**				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	**1.1**				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	**400**				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	**0.93**				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	**370**				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	**4.0**				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	**2.6**				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	**1.6**				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	**0.014**				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	**1.1**				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	**0.029**				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	**350**				mg/L			12/09/22 13:24	1

Client Sample ID: MW-15B

Date Collected: 11/15/22 10:25
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-5

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E (meq))	7.0				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	39		0.50		mg/L			12/02/22 20:56	1
Sulfate (MCAWW 300.0)	1.4		1.0		mg/L			12/02/22 20:56	1
Ammonia as N (MCAWW 350.1)	0.19		0.030		mg/L			12/07/22 14:50	1
Nitrate/Nitrite (MCAWW 353.2)	ND		0.050		mg/L			11/29/22 11:57	1
Total Organic Carbon - Average (SW846 9060)	1.4		1.0		mg/L			12/02/22 16:51	1
Bicarbonate Alkalinity (SM 2320B)	350		10		mg/L			11/22/22 00:24	1
Total Dissolved Solids (SM 2540C)	370		10		mg/L			11/18/22 10:26	1

Client Sample ID: DUP11152201

Date Collected: 11/15/22 10:30
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-6

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 00:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/22 00:11	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 00:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/22 00:11	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/22 00:11	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/22 00:11	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/22 00:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/22 00:11	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/20/22 00:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/22 00:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/22 00:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/22 00:11	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/22 00:11	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/22 00:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/22 00:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/22 00:11	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/22 00:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/22 00:11	1
2,2-Dichloropropane	ND		5.0		ug/L			11/20/22 00:11	1
2-Butanone (MEK)	ND		6.0		ug/L			11/20/22 00:11	1
2-Chlorotoluene	ND		1.0		ug/L			11/20/22 00:11	1
2-Hexanone	ND		5.0		ug/L			11/20/22 00:11	1
4-Chlorotoluene	ND		1.0		ug/L			11/20/22 00:11	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/22 00:11	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/20/22 00:11	1
Acetone	ND		10		ug/L			11/20/22 00:11	1
Benzene	ND		1.0		ug/L			11/20/22 00:11	1
Bromobenzene	ND		1.0		ug/L			11/20/22 00:11	1
Bromochloromethane	ND		1.0		ug/L			11/20/22 00:11	1
Bromodichloromethane	ND		1.0		ug/L			11/20/22 00:11	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: DUP11152201
Date Collected: 11/15/22 10:30
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.2		ug/L			11/20/22 00:11	1
Bromomethane	ND		2.4		ug/L			11/20/22 00:11	1
Carbon disulfide	ND		2.0		ug/L			11/20/22 00:11	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/22 00:11	1
Chlorobenzene	ND		1.0		ug/L			11/20/22 00:11	1
Chloroethane	ND		2.0		ug/L			11/20/22 00:11	1
Chloroform	ND		1.0		ug/L			11/20/22 00:11	1
Chloromethane	ND	*1	2.0		ug/L			11/20/22 00:11	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 00:11	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/22 00:11	1
Dibromochloromethane	ND		1.0		ug/L			11/20/22 00:11	1
Dibromomethane	ND		1.0		ug/L			11/20/22 00:11	1
Dichlorodifluoromethane	ND	*1	2.0		ug/L			11/20/22 00:11	1
Ethylbenzene	ND		1.0		ug/L			11/20/22 00:11	1
Hexachlorobutadiene	ND		1.2		ug/L			11/20/22 00:11	1
Isopropylbenzene	ND		1.0		ug/L			11/20/22 00:11	1
Methylene Chloride	ND		5.0		ug/L			11/20/22 00:11	1
Naphthalene	ND		1.0		ug/L			11/20/22 00:11	1
n-Butylbenzene	ND		1.0		ug/L			11/20/22 00:11	1
N-Propylbenzene	ND		1.0		ug/L			11/20/22 00:11	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/22 00:11	1
Styrene	ND		1.0		ug/L			11/20/22 00:11	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/22 00:11	1
Tetrachloroethene	ND		1.0		ug/L			11/20/22 00:11	1
Toluene	ND		1.0		ug/L			11/20/22 00:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 00:11	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/20/22 00:11	1
Trichloroethene	ND		1.0		ug/L			11/20/22 00:11	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/22 00:11	1
Vinyl chloride	ND		1.0		ug/L			11/20/22 00:11	1
Xylenes (total)	ND		2.0		ug/L			11/20/22 00:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/20/22 00:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*		*11/20/22 00:11*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/20/22 00:11*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*11/20/22 00:11*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*11/20/22 00:11*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 21:28	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*123*		*70 - 130*	*11/22/22 11:24*	*11/22/22 21:28*	*1*

Client Sample ID: DUP11152201

Date Collected: 11/15/22 10:30
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-6

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	81000		500		ug/L		12/01/22 09:30	12/02/22 07:27	1
Iron	250		30		ug/L		12/01/22 09:30	12/02/22 07:27	1
Magnesium	32000		200		ug/L		12/01/22 09:30	12/02/22 07:27	1
Manganese	1000		3.0		ug/L		12/01/22 09:30	12/02/22 07:27	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 07:27	1
Sodium	37000		1000		ug/L		12/01/22 09:30	12/02/22 07:27	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	8.2				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	8.3				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	0.59				%			12/09/22 13:24	1
Calcium (SM 1030E)	81				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	32				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	37				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	0.072				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	42				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	1.3				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E)	350				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	350				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	0.59				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	400				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	0.97				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	390				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	0.25				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	4.0				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	2.6				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	1.6				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	0.0051				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	1.2				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	0.027				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	350				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E (meq))	7.0				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.013				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	42		0.50		mg/L			12/06/22 17:31	1
Sulfate (MCAWW 300.0)	1.3		1.0		mg/L			12/06/22 17:31	1
Ammonia as N (MCAWW 350.1)	0.072		0.030		mg/L			12/06/22 16:12	1
Nitrate/Nitrite (MCAWW 353.2)	ND		0.050		mg/L			11/29/22 11:59	1
Total Organic Carbon - Average (SW846 9060)	1.2		1.0		mg/L			12/02/22 17:05	1
Bicarbonate Alkalinity (SM 2320B)	350		10		mg/L			11/22/22 19:05	1
Total Dissolved Solids (SM 2540C)	390		10		mg/L			11/18/22 10:26	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: MW-14B
Date Collected: 11/15/22 12:15
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 00:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/22 00:32	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 00:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/22 00:32	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/22 00:32	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/22 00:32	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/22 00:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/22 00:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/20/22 00:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/22 00:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/22 00:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/22 00:32	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/22 00:32	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/22 00:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/22 00:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/22 00:32	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/22 00:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/22 00:32	1
2,2-Dichloropropane	ND		5.0		ug/L			11/20/22 00:32	1
2-Butanone (MEK)	ND		6.0		ug/L			11/20/22 00:32	1
2-Chlorotoluene	ND		1.0		ug/L			11/20/22 00:32	1
2-Hexanone	ND		5.0		ug/L			11/20/22 00:32	1
4-Chlorotoluene	ND		1.0		ug/L			11/20/22 00:32	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/22 00:32	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/20/22 00:32	1
Acetone	ND		10		ug/L			11/20/22 00:32	1
Benzene	ND		1.0		ug/L			11/20/22 00:32	1
Bromobenzene	ND		1.0		ug/L			11/20/22 00:32	1
Bromochloromethane	ND		1.0		ug/L			11/20/22 00:32	1
Bromodichloromethane	ND		1.0		ug/L			11/20/22 00:32	1
Bromoform	ND		1.2		ug/L			11/20/22 00:32	1
Bromomethane	ND		2.4		ug/L			11/20/22 00:32	1
Carbon disulfide	ND		2.0		ug/L			11/20/22 00:32	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/22 00:32	1
Chlorobenzene	ND		1.0		ug/L			11/20/22 00:32	1
Chloroethane	ND		2.0		ug/L			11/20/22 00:32	1
Chloroform	ND		1.0		ug/L			11/20/22 00:32	1
Chloromethane	ND	*1	2.0		ug/L			11/20/22 00:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 00:32	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/22 00:32	1
Dibromochloromethane	ND		1.0		ug/L			11/20/22 00:32	1
Dibromomethane	ND		1.0		ug/L			11/20/22 00:32	1
Dichlorodifluoromethane	ND	*1	2.0		ug/L			11/20/22 00:32	1
Ethylbenzene	ND		1.0		ug/L			11/20/22 00:32	1
Hexachlorobutadiene	ND		1.2		ug/L			11/20/22 00:32	1
Isopropylbenzene	ND		1.0		ug/L			11/20/22 00:32	1
Methylene Chloride	ND		5.0		ug/L			11/20/22 00:32	1
Naphthalene	ND		1.0		ug/L			11/20/22 00:32	1
n-Butylbenzene	ND		1.0		ug/L			11/20/22 00:32	1

Client Sample ID: MW-14B

Date Collected: 11/15/22 12:15
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-7

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			11/20/22 00:32	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/22 00:32	1
Styrene	ND		1.0		ug/L			11/20/22 00:32	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/22 00:32	1
Tetrachloroethene	ND		1.0		ug/L			11/20/22 00:32	1
Toluene	ND		1.0		ug/L			11/20/22 00:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 00:32	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/20/22 00:32	1
Trichloroethene	ND		1.0		ug/L			11/20/22 00:32	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/22 00:32	1
Vinyl chloride	ND		1.0		ug/L			11/20/22 00:32	1
Xylenes (total)	ND		2.0		ug/L			11/20/22 00:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/20/22 00:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*		*11/20/22 00:32*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/20/22 00:32*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*11/20/22 00:32*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*11/20/22 00:32*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 21:52	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*121*		*70 - 130*	*11/22/22 11:24*	*11/22/22 21:52*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**51000**		500		ug/L		12/01/22 09:30	12/02/22 07:31	1
Iron	**1000**		30		ug/L		12/01/22 09:30	12/02/22 07:31	1
Magnesium	**15000**		200		ug/L		12/01/22 09:30	12/02/22 07:31	1
Manganese	**1100**		3.0		ug/L		12/01/22 09:30	12/02/22 07:31	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 07:31	1
Sodium	**39000**		1000		ug/L		12/01/22 09:30	12/02/22 07:31	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**5.6**				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	**5.5**				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	**-0.64**				%			12/09/22 13:24	1
Calcium (SM 1030E)	**51**				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	**15**				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	**39**				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	**0.22**				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	**33**				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	**4.3**				mg/L			12/09/22 13:24	1

Client Sample ID: MW-14B

Date Collected: 11/15/22 12:15
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-7

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E)	230				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	230				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	-0.64				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	280				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	1.0				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	280				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	1.0				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	2.5				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	1.2				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	1.7				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	0.016				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	0.93				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	0.090				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	230				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E (meq))	4.6				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.054				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	33		0.50		mg/L			12/02/22 21:35	1
Sulfate (MCAWW 300.0)	4.3		1.0		mg/L			12/02/22 21:35	1
Ammonia as N (MCAWW 350.1)	0.22		0.030		mg/L			12/06/22 16:14	1
Nitrate/Nitrite (MCAWW 353.2)	ND		0.050		mg/L			11/29/22 12:05	1
Total Organic Carbon - Average (SW846 9060)	1.5		1.0		mg/L			12/02/22 17:19	1
Bicarbonate Alkalinity (SM 2320B)	230		10		mg/L			11/22/22 00:38	1
Total Dissolved Solids (SM 2540C)	280		10		mg/L			11/18/22 10:26	1

Client Sample ID: MW-21B

Date Collected: 11/15/22 14:15
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-8

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 00:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/22 00:54	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 00:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/22 00:54	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/22 00:54	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/22 00:54	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/22 00:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/22 00:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/20/22 00:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/22 00:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/22 00:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/22 00:54	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/22 00:54	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/22 00:54	1

Client Sample ID: MW-21B
Date Collected: 11/15/22 14:15
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/22 00:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/22 00:54	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/22 00:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/22 00:54	1
2,2-Dichloropropane	ND		5.0		ug/L			11/20/22 00:54	1
2-Butanone (MEK)	ND		6.0		ug/L			11/20/22 00:54	1
2-Chlorotoluene	ND		1.0		ug/L			11/20/22 00:54	1
2-Hexanone	ND		5.0		ug/L			11/20/22 00:54	1
4-Chlorotoluene	ND		1.0		ug/L			11/20/22 00:54	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/22 00:54	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/20/22 00:54	1
Acetone	ND		10		ug/L			11/20/22 00:54	1
Benzene	ND		1.0		ug/L			11/20/22 00:54	1
Bromobenzene	ND		1.0		ug/L			11/20/22 00:54	1
Bromochloromethane	ND		1.0		ug/L			11/20/22 00:54	1
Bromodichloromethane	ND		1.0		ug/L			11/20/22 00:54	1
Bromoform	ND		1.2		ug/L			11/20/22 00:54	1
Bromomethane	ND		2.4		ug/L			11/20/22 00:54	1
Carbon disulfide	ND		2.0		ug/L			11/20/22 00:54	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/22 00:54	1
Chlorobenzene	ND		1.0		ug/L			11/20/22 00:54	1
Chloroethane	ND		2.0		ug/L			11/20/22 00:54	1
Chloroform	ND		1.0		ug/L			11/20/22 00:54	1
Chloromethane	ND	*1	2.0		ug/L			11/20/22 00:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 00:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/22 00:54	1
Dibromochloromethane	ND		1.0		ug/L			11/20/22 00:54	1
Dibromomethane	ND		1.0		ug/L			11/20/22 00:54	1
Dichlorodifluoromethane	ND	*1	2.0		ug/L			11/20/22 00:54	1
Ethylbenzene	ND		1.0		ug/L			11/20/22 00:54	1
Hexachlorobutadiene	ND		1.2		ug/L			11/20/22 00:54	1
Isopropylbenzene	ND		1.0		ug/L			11/20/22 00:54	1
Methylene Chloride	ND		5.0		ug/L			11/20/22 00:54	1
Naphthalene	ND		1.0		ug/L			11/20/22 00:54	1
n-Butylbenzene	ND		1.0		ug/L			11/20/22 00:54	1
N-Propylbenzene	ND		1.0		ug/L			11/20/22 00:54	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/22 00:54	1
Styrene	ND		1.0		ug/L			11/20/22 00:54	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/22 00:54	1
Tetrachloroethene	ND		1.0		ug/L			11/20/22 00:54	1
Toluene	ND		1.0		ug/L			11/20/22 00:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 00:54	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/20/22 00:54	1
Trichloroethene	ND		1.0		ug/L			11/20/22 00:54	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/22 00:54	1
Vinyl chloride	ND		1.0		ug/L			11/20/22 00:54	1
Xylenes (total)	ND		2.0		ug/L			11/20/22 00:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/20/22 00:54*	*1*

Client Sample ID: MW-21B

Date Collected: 11/15/22 14:15
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*		*11/20/22 00:54*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/20/22 00:54*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*11/20/22 00:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*11/20/22 00:54*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 22:17	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*121*		*70 - 130*	*11/22/22 11:24*	*11/22/22 22:17*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**44000**		500		ug/L		12/01/22 09:30	12/02/22 07:35	1
Iron	**880**		30		ug/L		12/01/22 09:30	12/02/22 07:35	1
Magnesium	**18000**		200		ug/L		12/01/22 09:30	12/02/22 07:35	1
Manganese	**1600**		3.0		ug/L		12/01/22 09:30	12/02/22 07:35	1
Potassium	**620**		500		ug/L		12/01/22 09:30	12/02/22 07:35	1
Sodium	**32000**		1000		ug/L		12/01/22 09:30	12/02/22 07:35	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**5.2**				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	**5.2**				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	**-0.53**				%			12/09/22 13:24	1
Calcium (SM 1030E)	**44**				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	**18**				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	**0.62**				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	**32**				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	**0.44**				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	**15**				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E)	**240**				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	**240**				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	**-0.53**				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	**250**				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	**0.98**				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	**250**				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	**0.88**				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	**2.2**				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	**1.5**				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	**0.016**				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	**1.4**				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	**0.031**				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	**0.42**				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	**240**				mg/L			12/09/22 13:24	1

Client Sample ID: MW-21B

Date Collected: 11/15/22 14:15
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-8

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E (meq))	4.8				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.047				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	15		0.50		mg/L			12/02/22 21:55	1
Sulfate (MCAWW 300.0)	ND		1.0		mg/L			12/02/22 21:55	1
Ammonia as N (MCAWW 350.1)	0.44		0.030		mg/L			12/06/22 16:17	1
Nitrate/Nitrite (MCAWW 353.2)	ND		0.050		mg/L			11/29/22 12:07	1
Total Organic Carbon - Average (SW846 9060)	2.7		1.0		mg/L			12/02/22 17:34	1
Bicarbonate Alkalinity (SM 2320B)	240		10		mg/L			11/22/22 00:45	1
Total Dissolved Solids (SM 2540C)	250		10		mg/L			11/18/22 10:26	1

Client Sample ID: MW-12A

Date Collected: 11/15/22 15:25
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-9

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 01:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/22 01:16	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 01:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/22 01:16	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/22 01:16	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/22 01:16	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/22 01:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/22 01:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/20/22 01:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/22 01:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/22 01:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/22 01:16	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/22 01:16	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/22 01:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/22 01:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/22 01:16	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/22 01:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/22 01:16	1
2,2-Dichloropropane	ND		5.0		ug/L			11/20/22 01:16	1
2-Butanone (MEK)	ND		6.0		ug/L			11/20/22 01:16	1
2-Chlorotoluene	ND		1.0		ug/L			11/20/22 01:16	1
2-Hexanone	ND		5.0		ug/L			11/20/22 01:16	1
4-Chlorotoluene	ND		1.0		ug/L			11/20/22 01:16	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/22 01:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/20/22 01:16	1
Acetone	ND		10		ug/L			11/20/22 01:16	1
Benzene	ND		1.0		ug/L			11/20/22 01:16	1
Bromobenzene	ND		1.0		ug/L			11/20/22 01:16	1
Bromochloromethane	ND		1.0		ug/L			11/20/22 01:16	1
Bromodichloromethane	ND		1.0		ug/L			11/20/22 01:16	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: MW-12A
Date Collected: 11/15/22 15:25
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.2		ug/L			11/20/22 01:16	1
Bromomethane	ND		2.4		ug/L			11/20/22 01:16	1
Carbon disulfide	ND		2.0		ug/L			11/20/22 01:16	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/22 01:16	1
Chlorobenzene	ND		1.0		ug/L			11/20/22 01:16	1
Chloroethane	ND		2.0		ug/L			11/20/22 01:16	1
Chloroform	ND		1.0		ug/L			11/20/22 01:16	1
Chloromethane	ND	*1	2.0		ug/L			11/20/22 01:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 01:16	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/22 01:16	1
Dibromochloromethane	ND		1.0		ug/L			11/20/22 01:16	1
Dibromomethane	ND		1.0		ug/L			11/20/22 01:16	1
Dichlorodifluoromethane	ND	*1	2.0		ug/L			11/20/22 01:16	1
Ethylbenzene	ND		1.0		ug/L			11/20/22 01:16	1
Hexachlorobutadiene	ND		1.2		ug/L			11/20/22 01:16	1
Isopropylbenzene	ND		1.0		ug/L			11/20/22 01:16	1
Methylene Chloride	ND		5.0		ug/L			11/20/22 01:16	1
Naphthalene	ND		1.0		ug/L			11/20/22 01:16	1
n-Butylbenzene	ND		1.0		ug/L			11/20/22 01:16	1
N-Propylbenzene	ND		1.0		ug/L			11/20/22 01:16	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/22 01:16	1
Styrene	ND		1.0		ug/L			11/20/22 01:16	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/22 01:16	1
Tetrachloroethene	ND		1.0		ug/L			11/20/22 01:16	1
Toluene	ND		1.0		ug/L			11/20/22 01:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 01:16	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/20/22 01:16	1
Trichloroethene	ND		1.0		ug/L			11/20/22 01:16	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/22 01:16	1
Vinyl chloride	ND		1.0		ug/L			11/20/22 01:16	1
Xylenes (total)	ND		2.0		ug/L			11/20/22 01:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/20/22 01:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*		*11/20/22 01:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/20/22 01:16*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*11/20/22 01:16*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*11/20/22 01:16*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 22:41	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*122*		*70 - 130*	*11/22/22 11:24*	*11/22/22 22:41*	*1*

Client Sample ID: MW-12A

Date Collected: 11/15/22 15:25
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-9

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	38000		500		ug/L		12/01/22 09:30	12/02/22 07:39	1
Iron	ND		30		ug/L		12/01/22 09:30	12/02/22 07:39	1
Magnesium	15000		200		ug/L		12/01/22 09:30	12/02/22 07:39	1
Manganese	ND		3.0		ug/L		12/01/22 09:30	12/02/22 07:39	1
Potassium	740		500		ug/L		12/01/22 09:30	12/02/22 07:39	1
Sodium	33000		1000		ug/L		12/01/22 09:30	12/02/22 07:39	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	4.7				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	4.6				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	-0.92				%			12/09/22 13:24	1
Calcium (SM 1030E)	38				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	15				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	0.74				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	33				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	79				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	20				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E)	76				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	76				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	7.1				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	-0.92				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	220				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	1.2				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	270				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	1.9				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	1.2				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	0.019				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	1.4				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	2.2				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	0.42				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	76				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E (meq))	1.5				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.51				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	79		0.50		mg/L			12/06/22 17:51	1
Sulfate (MCAWW 300.0)	20		1.0		mg/L			12/06/22 17:51	1
Ammonia as N (MCAWW 350.1)	ND		0.030		mg/L			12/07/22 10:39	1
Nitrate/Nitrite (MCAWW 353.2)	7.1		0.050		mg/L			12/01/22 13:35	1
Total Organic Carbon - Average (SW846 9060)	2.7		1.0		mg/L			12/02/22 18:18	1
Bicarbonate Alkalinity (SM 2320B)	76		10		mg/L			11/22/22 00:51	1
Total Dissolved Solids (SM 2540C)	270		10		mg/L			11/18/22 10:26	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: MW-12B
Date Collected: 11/15/22 15:50
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-10
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 01:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/22 01:37	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 01:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/22 01:37	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/22 01:37	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/22 01:37	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/22 01:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/22 01:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/20/22 01:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/22 01:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/22 01:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/22 01:37	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/22 01:37	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/22 01:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/22 01:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/22 01:37	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/22 01:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/22 01:37	1
2,2-Dichloropropane	ND		5.0		ug/L			11/20/22 01:37	1
2-Butanone (MEK)	ND		6.0		ug/L			11/20/22 01:37	1
2-Chlorotoluene	ND		1.0		ug/L			11/20/22 01:37	1
2-Hexanone	ND		5.0		ug/L			11/20/22 01:37	1
4-Chlorotoluene	ND		1.0		ug/L			11/20/22 01:37	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/22 01:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/20/22 01:37	1
Acetone	ND		10		ug/L			11/20/22 01:37	1
Benzene	ND		1.0		ug/L			11/20/22 01:37	1
Bromobenzene	ND		1.0		ug/L			11/20/22 01:37	1
Bromochloromethane	ND		1.0		ug/L			11/20/22 01:37	1
Bromodichloromethane	ND		1.0		ug/L			11/20/22 01:37	1
Bromoform	ND		1.2		ug/L			11/20/22 01:37	1
Bromomethane	ND		2.4		ug/L			11/20/22 01:37	1
Carbon disulfide	ND		2.0		ug/L			11/20/22 01:37	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/22 01:37	1
Chlorobenzene	ND		1.0		ug/L			11/20/22 01:37	1
Chloroethane	ND		2.0		ug/L			11/20/22 01:37	1
Chloroform	ND		1.0		ug/L			11/20/22 01:37	1
Chloromethane	ND	*1	2.0		ug/L			11/20/22 01:37	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 01:37	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/22 01:37	1
Dibromochloromethane	ND		1.0		ug/L			11/20/22 01:37	1
Dibromomethane	ND		1.0		ug/L			11/20/22 01:37	1
Dichlorodifluoromethane	ND	*1	2.0		ug/L			11/20/22 01:37	1
Ethylbenzene	ND		1.0		ug/L			11/20/22 01:37	1
Hexachlorobutadiene	ND		1.2		ug/L			11/20/22 01:37	1
Isopropylbenzene	ND		1.0		ug/L			11/20/22 01:37	1
Methylene Chloride	ND		5.0		ug/L			11/20/22 01:37	1
Naphthalene	ND		1.0		ug/L			11/20/22 01:37	1
n-Butylbenzene	ND		1.0		ug/L			11/20/22 01:37	1

Client Sample ID: MW-12B

Date Collected: 11/15/22 15:50
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-10

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			11/20/22 01:37	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/22 01:37	1
Styrene	ND		1.0		ug/L			11/20/22 01:37	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/22 01:37	1
Tetrachloroethene	ND		1.0		ug/L			11/20/22 01:37	1
Toluene	ND		1.0		ug/L			11/20/22 01:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 01:37	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/20/22 01:37	1
Trichloroethene	ND		1.0		ug/L			11/20/22 01:37	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/22 01:37	1
Vinyl chloride	ND		1.0		ug/L			11/20/22 01:37	1
Xylenes (total)	ND		2.0		ug/L			11/20/22 01:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/20/22 01:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*		*11/20/22 01:37*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*11/20/22 01:37*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*11/20/22 01:37*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*11/20/22 01:37*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 23:06	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*112*		*70 - 130*	*11/22/22 11:24*	*11/22/22 23:06*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**82000**		500		ug/L		12/01/22 09:30	12/02/22 07:43	1
Iron	**1000**		30		ug/L		12/01/22 09:30	12/02/22 07:43	1
Magnesium	**22000**		200		ug/L		12/01/22 09:30	12/02/22 07:43	1
Manganese	**1000**		3.0		ug/L		12/01/22 09:30	12/02/22 07:43	1
Potassium	**520**		500		ug/L		12/01/22 09:30	12/02/22 07:43	1
Sodium	**32000**		1000		ug/L		12/01/22 09:30	12/02/22 07:43	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**7.2**				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	**7.4**				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	**1.1**				%			12/09/22 13:24	1
Calcium (SM 1030E)	**82**				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	**22**				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	**0.52**				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	**32**				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	**0.26**				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	**100**				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1

Client Sample ID: MW-12B

Date Collected: 11/15/22 15:50
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-10

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E)	220				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	220				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	1.1				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	370				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	1.1				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	400				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	1.0				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	4.1				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	1.8				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	0.013				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	1.4				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	0.019				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	2.8				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	220				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E (meq))	4.4				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.054				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	100		0.50		mg/L			12/02/22 22:34	1
Sulfate (MCAWW 300.0)	ND		1.0		mg/L			12/02/22 22:34	1
Ammonia as N (MCAWW 350.1)	0.26		0.030		mg/L			12/07/22 10:41	1
Nitrate/Nitrite (MCAWW 353.2)	ND		0.050		mg/L			11/29/22 12:11	1
Total Organic Carbon - Average (SW846 9060)	1.7		1.0		mg/L			12/05/22 18:13	1
Bicarbonate Alkalinity (SM 2320B)	220		10		mg/L			11/22/22 00:57	1
Total Dissolved Solids (SM 2540C)	400		10		mg/L			11/18/22 10:26	1

Client Sample ID: MW-16A

Date Collected: 11/16/22 08:25
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-11

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 01:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/22 01:59	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 01:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/22 01:59	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/22 01:59	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/22 01:59	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/22 01:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/22 01:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/20/22 01:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/22 01:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/22 01:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/22 01:59	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/22 01:59	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/22 01:59	1

Client Sample ID: MW-16A
Date Collected: 11/16/22 08:25
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-11
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/22 01:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/22 01:59	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/22 01:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/22 01:59	1
2,2-Dichloropropane	ND		5.0		ug/L			11/20/22 01:59	1
2-Butanone (MEK)	ND		6.0		ug/L			11/20/22 01:59	1
2-Chlorotoluene	ND		1.0		ug/L			11/20/22 01:59	1
2-Hexanone	ND		5.0		ug/L			11/20/22 01:59	1
4-Chlorotoluene	ND		1.0		ug/L			11/20/22 01:59	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/22 01:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/20/22 01:59	1
Acetone	ND		10		ug/L			11/20/22 01:59	1
Benzene	ND		1.0		ug/L			11/20/22 01:59	1
Bromobenzene	ND		1.0		ug/L			11/20/22 01:59	1
Bromochloromethane	ND		1.0		ug/L			11/20/22 01:59	1
Bromodichloromethane	ND		1.0		ug/L			11/20/22 01:59	1
Bromoform	ND		1.2		ug/L			11/20/22 01:59	1
Bromomethane	ND		2.4		ug/L			11/20/22 01:59	1
Carbon disulfide	ND		2.0		ug/L			11/20/22 01:59	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/22 01:59	1
Chlorobenzene	ND		1.0		ug/L			11/20/22 01:59	1
Chloroethane	ND		2.0		ug/L			11/20/22 01:59	1
Chloroform	ND		1.0		ug/L			11/20/22 01:59	1
Chloromethane	ND	*1	2.0		ug/L			11/20/22 01:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 01:59	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/22 01:59	1
Dibromochloromethane	ND		1.0		ug/L			11/20/22 01:59	1
Dibromomethane	ND		1.0		ug/L			11/20/22 01:59	1
Dichlorodifluoromethane	ND	*1	2.0		ug/L			11/20/22 01:59	1
Ethylbenzene	ND		1.0		ug/L			11/20/22 01:59	1
Hexachlorobutadiene	ND		1.2		ug/L			11/20/22 01:59	1
Isopropylbenzene	ND		1.0		ug/L			11/20/22 01:59	1
Methylene Chloride	ND		5.0		ug/L			11/20/22 01:59	1
Naphthalene	ND		1.0		ug/L			11/20/22 01:59	1
n-Butylbenzene	ND		1.0		ug/L			11/20/22 01:59	1
N-Propylbenzene	ND		1.0		ug/L			11/20/22 01:59	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/22 01:59	1
Styrene	ND		1.0		ug/L			11/20/22 01:59	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/22 01:59	1
Tetrachloroethene	ND		1.0		ug/L			11/20/22 01:59	1
Toluene	ND		1.0		ug/L			11/20/22 01:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 01:59	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/20/22 01:59	1
Trichloroethene	ND		1.0		ug/L			11/20/22 01:59	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/22 01:59	1
Vinyl chloride	ND		1.0		ug/L			11/20/22 01:59	1
Xylenes (total)	ND		2.0		ug/L			11/20/22 01:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/20/22 01:59*	*1*

Client Sample ID: MW-16A

Date Collected: 11/16/22 08:25
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*		*11/20/22 01:59*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/20/22 01:59*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*11/20/22 01:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*11/20/22 01:59*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 23:30	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*125*		*70 - 130*	*11/22/22 11:24*	*11/22/22 23:30*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**30000**		500		ug/L		12/01/22 09:30	12/02/22 07:47	1
Iron	**44**		30		ug/L		12/01/22 09:30	12/02/22 07:47	1
Magnesium	**14000**		200		ug/L		12/01/22 09:30	12/02/22 07:47	1
Manganese	**460**		3.0		ug/L		12/01/22 09:30	12/02/22 07:47	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 07:47	1
Sodium	**31000**		1000		ug/L		12/01/22 09:30	12/02/22 07:47	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**4.4**				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	**4.0**				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	**-4.2**				%			12/09/22 13:24	1
Calcium (SM 1030E)	**30**				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	**14**				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	**31**				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	**0.060**				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	**12**				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	**20**				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E)	**180**				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	**180**				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	**0.11**				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	**-4.2**				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	**200**				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	**1.1**				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	**210**				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	**0.044**				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	**1.5**				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	**1.2**				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	**1.3**				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	**0.0043**				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	**0.34**				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	**0.42**				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	**180**				mg/L			12/09/22 13:24	1

Client Sample ID: MW-16A

Lab Sample ID: 280-169301-11

Date Collected: 11/16/22 08:25

Matrix: Water

Date Received: 11/17/22 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E (meq))	3.6				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.0079				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.0024				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	12		0.50		mg/L			12/02/22 22:54	1
Sulfate (MCAWW 300.0)	20		1.0		mg/L			12/02/22 22:54	1
Ammonia as N (MCAWW 350.1)	0.060		0.030		mg/L			12/07/22 11:12	1
Nitrate/Nitrite (MCAWW 353.2)	0.11		0.050		mg/L			12/01/22 14:55	1
Total Organic Carbon - Average (SW846 9060)	2.1		1.0		mg/L			12/05/22 18:27	1
Bicarbonate Alkalinity (SM 2320B)	180		10		mg/L			11/22/22 01:04	1
Total Dissolved Solids (SM 2540C)	210		10		mg/L			11/18/22 10:26	1

Client Sample ID: DUP11162201

Lab Sample ID: 280-169301-12

Date Collected: 11/16/22 08:30

Matrix: Water

Date Received: 11/17/22 10:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 02:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/22 02:20	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/22 02:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/22 02:20	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/22 02:20	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/22 02:20	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/22 02:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/22 02:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/20/22 02:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/22 02:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/22 02:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/22 02:20	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/22 02:20	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/22 02:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/22 02:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/22 02:20	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/22 02:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/22 02:20	1
2,2-Dichloropropane	ND		5.0		ug/L			11/20/22 02:20	1
2-Butanone (MEK)	ND		6.0		ug/L			11/20/22 02:20	1
2-Chlorotoluene	ND		1.0		ug/L			11/20/22 02:20	1
2-Hexanone	ND		5.0		ug/L			11/20/22 02:20	1
4-Chlorotoluene	ND		1.0		ug/L			11/20/22 02:20	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/22 02:20	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/20/22 02:20	1
Acetone	ND		10		ug/L			11/20/22 02:20	1
Benzene	ND		1.0		ug/L			11/20/22 02:20	1
Bromobenzene	ND		1.0		ug/L			11/20/22 02:20	1
Bromochloromethane	ND		1.0		ug/L			11/20/22 02:20	1
Bromodichloromethane	ND		1.0		ug/L			11/20/22 02:20	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Client Sample ID: DUP11162201
Date Collected: 11/16/22 08:30
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-12
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.2		ug/L			11/20/22 02:20	1
Bromomethane	ND		2.4		ug/L			11/20/22 02:20	1
Carbon disulfide	ND		2.0		ug/L			11/20/22 02:20	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/22 02:20	1
Chlorobenzene	ND		1.0		ug/L			11/20/22 02:20	1
Chloroethane	ND		2.0		ug/L			11/20/22 02:20	1
Chloroform	ND		1.0		ug/L			11/20/22 02:20	1
Chloromethane	ND	*1	2.0		ug/L			11/20/22 02:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 02:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/22 02:20	1
Dibromochloromethane	ND		1.0		ug/L			11/20/22 02:20	1
Dibromomethane	ND		1.0		ug/L			11/20/22 02:20	1
Dichlorodifluoromethane	ND	*1	2.0		ug/L			11/20/22 02:20	1
Ethylbenzene	ND		1.0		ug/L			11/20/22 02:20	1
Hexachlorobutadiene	ND		1.2		ug/L			11/20/22 02:20	1
Isopropylbenzene	ND		1.0		ug/L			11/20/22 02:20	1
Methylene Chloride	ND		5.0		ug/L			11/20/22 02:20	1
Naphthalene	ND		1.0		ug/L			11/20/22 02:20	1
n-Butylbenzene	ND		1.0		ug/L			11/20/22 02:20	1
N-Propylbenzene	ND		1.0		ug/L			11/20/22 02:20	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/22 02:20	1
Styrene	ND		1.0		ug/L			11/20/22 02:20	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/22 02:20	1
Tetrachloroethene	ND		1.0		ug/L			11/20/22 02:20	1
Toluene	ND		1.0		ug/L			11/20/22 02:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/22 02:20	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/20/22 02:20	1
Trichloroethene	ND		1.0		ug/L			11/20/22 02:20	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/22 02:20	1
Vinyl chloride	ND		1.0		ug/L			11/20/22 02:20	1
Xylenes (total)	ND		2.0		ug/L			11/20/22 02:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/20/22 02:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*		*11/20/22 02:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/20/22 02:20*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*11/20/22 02:20*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*11/20/22 02:20*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 23:55	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*123*		*70 - 130*	*11/22/22 11:24*	*11/22/22 23:55*	*1*

Client Sample ID: DUP11162201

Date Collected: 11/16/22 08:30
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169301-12

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	29000		500		ug/L		12/01/22 09:30	12/02/22 07:51	1
Iron	ND		30		ug/L		12/01/22 09:30	12/02/22 07:51	1
Magnesium	13000		200		ug/L		12/01/22 09:30	12/02/22 07:51	1
Manganese	280		3.0		ug/L		12/01/22 09:30	12/02/22 07:51	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 07:51	1
Sodium	30000		1000		ug/L		12/01/22 09:30	12/02/22 07:51	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	4.2				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	3.8				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	-4.1				%			12/09/22 13:24	1
Calcium (SM 1030E)	29				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	13				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	30				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	0.066				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	12				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	20				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E)	170				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	170				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	0.071				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	-4.1				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	190				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	1.1				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	210				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	1.4				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	1.1				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	1.3				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	0.0047				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	0.34				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	0.42				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	170				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E (meq))	3.4				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.0051				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	12		0.50		mg/L			12/02/22 23:13	1
Sulfate (MCAWW 300.0)	20		1.0		mg/L			12/02/22 23:13	1
Ammonia as N (MCAWW 350.1)	0.066		0.030		mg/L			12/07/22 11:13	1
Nitrate/Nitrite (MCAWW 353.2)	0.071		0.050		mg/L			12/01/22 14:57	1
Total Organic Carbon - Average (SW846 9060)	1.9		1.0		mg/L			12/05/22 18:42	1
Bicarbonate Alkalinity (SM 2320B)	170		10		mg/L			11/22/22 01:23	1
Total Dissolved Solids (SM 2540C)	210		10		mg/L			11/18/22 10:26	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-169301-1	TRIP BLANK	93	95	101	100
280-169301-2	MW-16B	89	96	100	100
280-169301-3	FB11152201	94	99	98	101
280-169301-4	MW-21A	94	100	97	100
280-169301-5	MW-15B	92	102	96	101
280-169301-6	DUP11152201	91	96	101	102
280-169301-7	MW-14B	90	96	101	99
280-169301-8	MW-21B	92	96	101	100
280-169301-9	MW-12A	91	96	100	101
280-169301-10	MW-12B	91	97	100	101
280-169301-11	MW-16A	91	96	102	100
280-169301-12	DUP11162201	93	96	101	99
LCS 280-594130/1002	Lab Control Sample	91	96	96	101
LCS 280-594149/1002	Lab Control Sample	88	94	99	99
LCSD 280-594130/4	Lab Control Sample Dup	91	97	98	101
LCSD 280-594149/4	Lab Control Sample Dup	91	92	103	99
MB 280-594130/7	Method Blank	93	99	98	102
MB 280-594149/7	Method Blank	90	94	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-169301-1	TRIP BLANK	127
280-169301-2	MW-16B	121
280-169301-3	FB11152201	123
280-169301-4	MW-21A	118
280-169301-5	MW-15B	120
280-169301-6	DUP11152201	123
280-169301-7	MW-14B	121
280-169301-8	MW-21B	121
280-169301-9	MW-12A	122
280-169301-10	MW-12B	112
280-169301-11	MW-16A	125
280-169301-12	DUP11162201	123
LCS 280-594402/2-A	Lab Control Sample	121
LCSD 280-594402/3-A	Lab Control Sample Dup	125
MB 280-594402/1-A	Method Blank	124

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-594130/7
Matrix: Water
Analysis Batch: 594130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 09:53	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/22 09:53	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 09:53	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/22 09:53	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/22 09:53	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/22 09:53	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/22 09:53	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/19/22 09:53	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/22 09:53	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/22 09:53	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/19/22 09:53	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/22 09:53	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/22 09:53	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/22 09:53	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/19/22 09:53	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/22 09:53	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/22 09:53	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/22 09:53	1
2,2-Dichloropropane	ND		5.0		ug/L			11/19/22 09:53	1
2-Butanone (MEK)	ND		6.0		ug/L			11/19/22 09:53	1
2-Chlorotoluene	ND		1.0		ug/L			11/19/22 09:53	1
2-Hexanone	ND		5.0		ug/L			11/19/22 09:53	1
4-Chlorotoluene	ND		1.0		ug/L			11/19/22 09:53	1
4-Isopropyltoluene	ND		1.0		ug/L			11/19/22 09:53	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/19/22 09:53	1
Acetone	ND		10		ug/L			11/19/22 09:53	1
Benzene	ND		1.0		ug/L			11/19/22 09:53	1
Bromobenzene	ND		1.0		ug/L			11/19/22 09:53	1
Bromochloromethane	ND		1.0		ug/L			11/19/22 09:53	1
Bromodichloromethane	ND		1.0		ug/L			11/19/22 09:53	1
Bromoform	ND		1.2		ug/L			11/19/22 09:53	1
Bromomethane	ND		2.4		ug/L			11/19/22 09:53	1
Carbon disulfide	ND		2.0		ug/L			11/19/22 09:53	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/22 09:53	1
Chlorobenzene	ND		1.0		ug/L			11/19/22 09:53	1
Chloroethane	ND		2.0		ug/L			11/19/22 09:53	1
Chloroform	ND		1.0		ug/L			11/19/22 09:53	1
Chloromethane	ND		2.0		ug/L			11/19/22 09:53	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 09:53	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/22 09:53	1
Dibromochloromethane	ND		1.0		ug/L			11/19/22 09:53	1
Dibromomethane	ND		1.0		ug/L			11/19/22 09:53	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/19/22 09:53	1
Ethylbenzene	ND		1.0		ug/L			11/19/22 09:53	1
Hexachlorobutadiene	ND		1.2		ug/L			11/19/22 09:53	1
Isopropylbenzene	ND		1.0		ug/L			11/19/22 09:53	1
Methylene Chloride	ND		5.0		ug/L			11/19/22 09:53	1
Naphthalene	ND		1.0		ug/L			11/19/22 09:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-594130/7
Matrix: Water
Analysis Batch: 594130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			11/19/22 09:53	1
N-Propylbenzene	ND		1.0		ug/L			11/19/22 09:53	1
sec-Butylbenzene	ND		1.0		ug/L			11/19/22 09:53	1
Styrene	ND		1.0		ug/L			11/19/22 09:53	1
tert-Butylbenzene	ND		1.0		ug/L			11/19/22 09:53	1
Tetrachloroethene	ND		1.0		ug/L			11/19/22 09:53	1
Toluene	ND		1.0		ug/L			11/19/22 09:53	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 09:53	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/19/22 09:53	1
Trichloroethene	ND		1.0		ug/L			11/19/22 09:53	1
Trichlorofluoromethane	ND		2.0		ug/L			11/19/22 09:53	1
Vinyl chloride	ND		1.0		ug/L			11/19/22 09:53	1
Xylenes (total)	ND		2.0		ug/L			11/19/22 09:53	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/19/22 09:53*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*		*11/19/22 09:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*11/19/22 09:53*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*11/19/22 09:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*11/19/22 09:53*	*1*

Lab Sample ID: LCS 280-594130/1002
Matrix: Water
Analysis Batch: 594130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	38.5		ug/L		77	74 - 121
1,1,1-Trichloroethane	50.0	39.0		ug/L		78	62 - 132
1,1,2,2-Tetrachloroethane	50.0	44.0		ug/L		88	72 - 122
1,1,2-Trichloroethane	50.0	44.5		ug/L		89	72 - 128
1,1-Dichloroethane	50.0	41.4		ug/L		83	66 - 130
1,1-Dichloroethene	50.0	41.0		ug/L		82	62 - 130
1,1-Dichloropropene	50.0	41.9		ug/L		84	64 - 133
1,2,3-Trichlorobenzene	50.0	48.5		ug/L		97	70 - 127
1,2,3-Trichloropropane	50.0	47.0		ug/L		94	74 - 123
1,2,4-Trichlorobenzene	50.0	47.8		ug/L		96	73 - 124
1,2,4-Trimethylbenzene	50.0	45.4		ug/L		91	74 - 124
1,2-Dichlorobenzene	50.0	45.1		ug/L		90	77 - 121
1,2-Dichloroethane	50.0	39.5		ug/L		79	61 - 130
1,2-Dichloropropane	50.0	42.9		ug/L		86	68 - 127
1,3,5-Trimethylbenzene	50.0	45.5		ug/L		91	73 - 127
1,3-Dichlorobenzene	50.0	45.3		ug/L		91	76 - 121
1,3-Dichloropropane	50.0	46.0		ug/L		92	80 - 118
1,4-Dichlorobenzene	50.0	45.2		ug/L		90	76 - 119
2,2-Dichloropropane	50.0	39.1		ug/L		78	57 - 140
2-Butanone (MEK)	200	140		ug/L		70	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-594130/1002
Matrix: Water
Analysis Batch: 594130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	50.0	45.6		ug/L		91	75 - 123
2-Hexanone	200	159		ug/L		79	58 - 134
4-Chlorotoluene	50.0	45.5		ug/L		91	74 - 124
4-Isopropyltoluene	50.0	46.0		ug/L		92	74 - 127
4-Methyl-2-pentanone	200	156		ug/L		78	56 - 135
Acetone	200	149		ug/L		74	50 - 137
Benzene	50.0	42.8		ug/L		86	69 - 126
Bromobenzene	50.0	43.4		ug/L		87	75 - 122
Bromochloromethane	50.0	45.5		ug/L		91	71 - 130
Bromodichloromethane	50.0	38.9		ug/L		78	67 - 126
Bromoform	50.0	31.9		ug/L		64	57 - 125
Bromomethane	50.0	32.1		ug/L		64	25 - 163
Carbon disulfide	50.0	39.4		ug/L		79	56 - 128
Carbon tetrachloride	50.0	35.2		ug/L		70	60 - 133
Chlorobenzene	50.0	46.3		ug/L		93	78 - 118
Chloroethane	50.0	44.6		ug/L		89	52 - 144
Chloroform	50.0	42.7		ug/L		85	68 - 128
Chloromethane	50.0	44.1		ug/L		88	43 - 142
cis-1,2-Dichloroethene	50.0	44.6		ug/L		89	69 - 126
cis-1,3-Dichloropropene	50.0	43.3		ug/L		87	75 - 120
Dibromochloromethane	50.0	38.7		ug/L		77	71 - 122
Dibromomethane	50.0	46.3		ug/L		93	68 - 129
Dichlorodifluoromethane	50.0	47.3		ug/L		95	26 - 152
Ethylbenzene	50.0	45.1		ug/L		90	76 - 121
Hexachlorobutadiene	50.0	47.2		ug/L		94	69 - 133
Isopropylbenzene	50.0	44.5		ug/L		89	70 - 127
Methylene Chloride	50.0	42.6		ug/L		85	64 - 128
Naphthalene	50.0	50.4		ug/L		101	63 - 129
n-Butylbenzene	50.0	47.9		ug/L		96	69 - 130
N-Propylbenzene	50.0	45.8		ug/L		92	73 - 127
sec-Butylbenzene	50.0	45.2		ug/L		90	72 - 127
Styrene	50.0	46.2		ug/L		92	79 - 120
tert-Butylbenzene	50.0	45.5		ug/L		91	72 - 126
Tetrachloroethene	50.0	41.6		ug/L		83	72 - 127
Toluene	50.0	44.2		ug/L		88	68 - 127
trans-1,2-Dichloroethene	50.0	43.0		ug/L		86	66 - 129
trans-1,3-Dichloropropene	50.0	40.8		ug/L		82	66 - 127
Trichloroethene	50.0	42.9		ug/L		86	70 - 125
Trichlorofluoromethane	50.0	50.2		ug/L		100	57 - 144
Vinyl chloride	50.0	51.4		ug/L		103	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-594130/4
Matrix: Water
Analysis Batch: 594130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	38.6		ug/L		77	74 - 121	0	20
1,1,1-Trichloroethane			50.0	39.2		ug/L		78	62 - 132	1	20
1,1,2,2-Tetrachloroethane			50.0	40.3		ug/L		81	72 - 122	9	20
1,1,2-Trichloroethane			50.0	42.8		ug/L		86	72 - 128	4	20
1,1-Dichloroethane			50.0	41.0		ug/L		82	66 - 130	1	20
1,1-Dichloroethene			50.0	41.2		ug/L		82	62 - 130	0	21
1,1-Dichloropropene			50.0	41.9		ug/L		84	64 - 133	0	20
1,2,3-Trichlorobenzene			50.0	44.6		ug/L		89	70 - 127	8	20
1,2,3-Trichloropropane			50.0	41.9		ug/L		84	74 - 123	11	20
1,2,4-Trichlorobenzene			50.0	44.2		ug/L		88	73 - 124	8	20
1,2,4-Trimethylbenzene			50.0	44.0		ug/L		88	74 - 124	3	20
1,2-Dichlorobenzene			50.0	43.9		ug/L		88	77 - 121	3	20
1,2-Dichloroethane			50.0	38.3		ug/L		77	61 - 130	3	20
1,2-Dichloropropane			50.0	41.4		ug/L		83	68 - 127	3	20
1,3,5-Trimethylbenzene			50.0	44.3		ug/L		89	73 - 127	3	20
1,3-Dichlorobenzene			50.0	44.3		ug/L		89	76 - 121	2	20
1,3-Dichloropropane			50.0	42.9		ug/L		86	80 - 118	7	20
1,4-Dichlorobenzene			50.0	43.7		ug/L		87	76 - 119	3	20
2,2-Dichloropropane			50.0	39.9		ug/L		80	57 - 140	2	22
2-Butanone (MEK)			200	119		ug/L		59	53 - 135	16	20
2-Chlorotoluene			50.0	44.9		ug/L		90	75 - 123	2	20
2-Hexanone			200	131		ug/L		66	58 - 134	19	21
4-Chlorotoluene			50.0	44.1		ug/L		88	74 - 124	3	20
4-Isopropyltoluene			50.0	45.9		ug/L		92	74 - 127	0	20
4-Methyl-2-pentanone			200	134		ug/L		67	56 - 135	15	20
Acetone			200	124		ug/L		62	50 - 137	18	21
Benzene			50.0	42.2		ug/L		84	69 - 126	1	20
Bromobenzene			50.0	42.4		ug/L		85	75 - 122	2	20
Bromochloromethane			50.0	44.7		ug/L		89	71 - 130	2	20
Bromodichloromethane			50.0	38.9		ug/L		78	67 - 126	0	20
Bromoform			50.0	31.5		ug/L		63	57 - 125	1	20
Bromomethane			50.0	43.0		ug/L		86	25 - 163	29	40
Carbon disulfide			50.0	40.1		ug/L		80	56 - 128	2	20
Carbon tetrachloride			50.0	35.8		ug/L		72	60 - 133	2	20
Chlorobenzene			50.0	44.5		ug/L		89	78 - 118	4	20
Chloroethane			50.0	43.9		ug/L		88	52 - 144	2	30
Chloroform			50.0	41.3		ug/L		83	68 - 128	3	20
Chloromethane			50.0	43.3		ug/L		87	43 - 142	2	20
cis-1,2-Dichloroethene			50.0	43.6		ug/L		87	69 - 126	2	20
cis-1,3-Dichloropropene			50.0	42.1		ug/L		84	75 - 120	3	20
Dibromochloromethane			50.0	37.8		ug/L		76	71 - 122	2	20
Dibromomethane			50.0	43.5		ug/L		87	68 - 129	6	20
Dichlorodifluoromethane			50.0	47.4		ug/L		95	26 - 152	0	21
Ethylbenzene			50.0	44.5		ug/L		89	76 - 121	1	20
Hexachlorobutadiene			50.0	46.5		ug/L		93	69 - 133	2	20
Isopropylbenzene			50.0	43.3		ug/L		87	70 - 127	3	20
Methylene Chloride			50.0	41.3		ug/L		83	64 - 128	3	20
Naphthalene			50.0	43.8		ug/L		88	63 - 129	14	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-594130/4
Matrix: Water
Analysis Batch: 594130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene			50.0	47.0		ug/L		94	69 - 130	2	20
N-Propylbenzene			50.0	45.0		ug/L		90	73 - 127	2	20
sec-Butylbenzene			50.0	45.4		ug/L		91	72 - 127	1	20
Styrene			50.0	44.7		ug/L		89	79 - 120	4	20
tert-Butylbenzene			50.0	44.6		ug/L		89	72 - 126	2	20
Tetrachloroethene			50.0	41.7		ug/L		83	72 - 127	0	20
Toluene			50.0	43.5		ug/L		87	68 - 127	2	20
trans-1,2-Dichloroethene			50.0	42.8		ug/L		86	66 - 129	1	20
trans-1,3-Dichloropropene			50.0	39.8		ug/L		80	66 - 127	2	20
Trichloroethene			50.0	42.5		ug/L		85	70 - 125	1	20
Trichlorofluoromethane			50.0	49.0		ug/L		98	57 - 144	3	28
Vinyl chloride			50.0	50.2		ug/L		100	53 - 141	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Lab Sample ID: MB 280-594149/7
Matrix: Water
Analysis Batch: 594149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 20:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/22 20:11	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/22 20:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/22 20:11	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/22 20:11	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/22 20:11	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/22 20:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/19/22 20:11	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/22 20:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/22 20:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/19/22 20:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/22 20:11	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/22 20:11	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/22 20:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/19/22 20:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/22 20:11	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/22 20:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/22 20:11	1
2,2-Dichloropropane	ND		5.0		ug/L			11/19/22 20:11	1
2-Butanone (MEK)	ND		6.0		ug/L			11/19/22 20:11	1
2-Chlorotoluene	ND		1.0		ug/L			11/19/22 20:11	1
2-Hexanone	ND		5.0		ug/L			11/19/22 20:11	1
4-Chlorotoluene	ND		1.0		ug/L			11/19/22 20:11	1
4-Isopropyltoluene	ND		1.0		ug/L			11/19/22 20:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-594149/7
Matrix: Water
Analysis Batch: 594149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		5.0		ug/L			11/19/22 20:11	1
Acetone	ND		10		ug/L			11/19/22 20:11	1
Benzene	ND		1.0		ug/L			11/19/22 20:11	1
Bromobenzene	ND		1.0		ug/L			11/19/22 20:11	1
Bromochloromethane	ND		1.0		ug/L			11/19/22 20:11	1
Bromodichloromethane	ND		1.0		ug/L			11/19/22 20:11	1
Bromoform	ND		1.2		ug/L			11/19/22 20:11	1
Bromomethane	ND		2.4		ug/L			11/19/22 20:11	1
Carbon disulfide	ND		2.0		ug/L			11/19/22 20:11	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/22 20:11	1
Chlorobenzene	ND		1.0		ug/L			11/19/22 20:11	1
Chloroethane	ND		2.0		ug/L			11/19/22 20:11	1
Chloroform	ND		1.0		ug/L			11/19/22 20:11	1
Chloromethane	ND		2.0		ug/L			11/19/22 20:11	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 20:11	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/22 20:11	1
Dibromochloromethane	ND		1.0		ug/L			11/19/22 20:11	1
Dibromomethane	ND		1.0		ug/L			11/19/22 20:11	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/19/22 20:11	1
Ethylbenzene	ND		1.0		ug/L			11/19/22 20:11	1
Hexachlorobutadiene	ND		1.2		ug/L			11/19/22 20:11	1
Isopropylbenzene	ND		1.0		ug/L			11/19/22 20:11	1
Methylene Chloride	ND		5.0		ug/L			11/19/22 20:11	1
Naphthalene	ND		1.0		ug/L			11/19/22 20:11	1
n-Butylbenzene	ND		1.0		ug/L			11/19/22 20:11	1
N-Propylbenzene	ND		1.0		ug/L			11/19/22 20:11	1
sec-Butylbenzene	ND		1.0		ug/L			11/19/22 20:11	1
Styrene	ND		1.0		ug/L			11/19/22 20:11	1
tert-Butylbenzene	ND		1.0		ug/L			11/19/22 20:11	1
Tetrachloroethene	ND		1.0		ug/L			11/19/22 20:11	1
Toluene	ND		1.0		ug/L			11/19/22 20:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/22 20:11	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/19/22 20:11	1
Trichloroethene	ND		1.0		ug/L			11/19/22 20:11	1
Trichlorofluoromethane	ND		2.0		ug/L			11/19/22 20:11	1
Vinyl chloride	ND		1.0		ug/L			11/19/22 20:11	1
Xylenes (total)	ND		2.0		ug/L			11/19/22 20:11	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/19/22 20:11*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*		*11/19/22 20:11*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*11/19/22 20:11*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*11/19/22 20:11*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*11/19/22 20:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-594149/1002
Matrix: Water
Analysis Batch: 594149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	22.1		ug/L		88	74 - 121
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	62 - 132
1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		92	72 - 122
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	72 - 128
1,1-Dichloroethane	25.0	24.7		ug/L		99	66 - 130
1,1-Dichloroethene	25.0	26.8		ug/L		107	62 - 130
1,1-Dichloropropene	25.0	26.7		ug/L		107	64 - 133
1,2,3-Trichlorobenzene	25.0	29.9		ug/L		120	70 - 127
1,2,3-Trichloropropane	25.0	26.2		ug/L		105	74 - 123
1,2,4-Trichlorobenzene	25.0	28.4		ug/L		114	73 - 124
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		102	74 - 124
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	77 - 121
1,2-Dichloroethane	25.0	22.4		ug/L		90	61 - 130
1,2-Dichloropropane	25.0	24.9		ug/L		100	68 - 127
1,3,5-Trimethylbenzene	25.0	26.3		ug/L		105	73 - 127
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	76 - 121
1,3-Dichloropropane	25.0	25.5		ug/L		102	80 - 118
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	76 - 119
2,2-Dichloropropane	25.0	21.0		ug/L		84	57 - 140
2-Butanone (MEK)	100	77.8		ug/L		78	53 - 135
2-Chlorotoluene	25.0	27.1		ug/L		108	75 - 123
2-Hexanone	100	83.6		ug/L		84	58 - 134
4-Chlorotoluene	25.0	26.6		ug/L		106	74 - 124
4-Isopropyltoluene	25.0	27.0		ug/L		108	74 - 127
4-Methyl-2-pentanone	100	85.0		ug/L		85	56 - 135
Acetone	100	81.7		ug/L		82	50 - 137
Benzene	25.0	26.0		ug/L		104	69 - 126
Bromobenzene	25.0	25.5		ug/L		102	75 - 122
Bromochloromethane	25.0	27.2		ug/L		109	71 - 130
Bromodichloromethane	25.0	23.0		ug/L		92	67 - 126
Bromoform	25.0	17.6		ug/L		70	57 - 125
Bromomethane	25.0	19.6		ug/L		78	25 - 163
Carbon disulfide	25.0	25.8		ug/L		103	56 - 128
Carbon tetrachloride	25.0	22.1		ug/L		88	60 - 133
Chlorobenzene	25.0	27.2		ug/L		109	78 - 118
Chloroethane	25.0	25.8		ug/L		103	52 - 144
Chloroform	25.0	25.2		ug/L		101	68 - 128
Chloromethane	25.0	25.6		ug/L		102	43 - 142
cis-1,2-Dichloroethene	25.0	25.9		ug/L		103	69 - 126
cis-1,3-Dichloropropene	25.0	23.2		ug/L		93	75 - 120
Dibromochloromethane	25.0	21.3		ug/L		85	71 - 122
Dibromomethane	25.0	26.9		ug/L		108	68 - 129
Dichlorodifluoromethane	25.0	28.2		ug/L		113	26 - 152
Ethylbenzene	25.0	26.7		ug/L		107	76 - 121
Hexachlorobutadiene	25.0	28.3		ug/L		113	69 - 133
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 127
Methylene Chloride	25.0	24.6		ug/L		98	64 - 128
Naphthalene	25.0	29.5		ug/L		118	63 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-594149/1002
Matrix: Water
Analysis Batch: 594149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
n-Butylbenzene			25.0	26.9		ug/L		108	69 - 130		
N-Propylbenzene			25.0	27.2		ug/L		109	73 - 127		
sec-Butylbenzene			25.0	27.5		ug/L		110	72 - 127		
Styrene			25.0	25.9		ug/L		104	79 - 120		
tert-Butylbenzene			25.0	26.8		ug/L		107	72 - 126		
Tetrachloroethene			25.0	26.7		ug/L		107	72 - 127		
Toluene			25.0	26.4		ug/L		105	68 - 127		
trans-1,2-Dichloroethene			25.0	26.7		ug/L		107	66 - 129		
trans-1,3-Dichloropropene			25.0	22.4		ug/L		90	66 - 127		
Trichloroethene			25.0	27.0		ug/L		108	70 - 125		
Trichlorofluoromethane			25.0	28.9		ug/L		115	57 - 144		
Vinyl chloride			25.0	30.4		ug/L		121	53 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: LCSD 280-594149/4
Matrix: Water
Analysis Batch: 594149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	21.9		ug/L		88	74 - 121	1	20
1,1,1-Trichloroethane			25.0	24.2		ug/L		97	62 - 132	1	20
1,1,2,2-Tetrachloroethane			25.0	22.5		ug/L		90	72 - 122	3	20
1,1,2-Trichloroethane			25.0	24.9		ug/L		100	72 - 128	1	20
1,1-Dichloroethane			25.0	24.7		ug/L		99	66 - 130	0	20
1,1-Dichloroethene			25.0	26.1		ug/L		104	62 - 130	3	21
1,1-Dichloropropene			25.0	26.0		ug/L		104	64 - 133	3	20
1,2,3-Trichlorobenzene			25.0	28.8		ug/L		115	70 - 127	4	20
1,2,3-Trichloropropane			25.0	24.2		ug/L		97	74 - 123	8	20
1,2,4-Trichlorobenzene			25.0	27.5		ug/L		110	73 - 124	3	20
1,2,4-Trimethylbenzene			25.0	24.1		ug/L		97	74 - 124	6	20
1,2-Dichlorobenzene			25.0	24.9		ug/L		100	77 - 121	5	20
1,2-Dichloroethane			25.0	21.6		ug/L		87	61 - 130	3	20
1,2-Dichloropropane			25.0	24.1		ug/L		96	68 - 127	3	20
1,3,5-Trimethylbenzene			25.0	24.5		ug/L		98	73 - 127	7	20
1,3-Dichlorobenzene			25.0	24.5		ug/L		98	76 - 121	7	20
1,3-Dichloropropane			25.0	24.8		ug/L		99	80 - 118	3	20
1,4-Dichlorobenzene			25.0	24.7		ug/L		99	76 - 119	5	20
2,2-Dichloropropane			25.0	20.7		ug/L		83	57 - 140	1	22
2-Butanone (MEK)			100	78.2		ug/L		78	53 - 135	0	20
2-Chlorotoluene			25.0	25.7		ug/L		103	75 - 123	5	20
2-Hexanone			100	82.9		ug/L		83	58 - 134	1	21
4-Chlorotoluene			25.0	25.5		ug/L		102	74 - 124	4	20
4-Isopropyltoluene			25.0	25.6		ug/L		102	74 - 127	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-594149/4
Matrix: Water
Analysis Batch: 594149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone			100	83.3		ug/L		83	56 - 135	2	20
Acetone			100	84.3		ug/L		84	50 - 137	3	21
Benzene			25.0	25.1		ug/L		101	69 - 126	3	20
Bromobenzene			25.0	23.9		ug/L		95	75 - 122	7	20
Bromochloromethane			25.0	27.4		ug/L		109	71 - 130	1	20
Bromodichloromethane			25.0	22.5		ug/L		90	67 - 126	2	20
Bromoform			25.0	18.4		ug/L		74	57 - 125	4	20
Bromomethane			25.0	21.9		ug/L		88	25 - 163	11	40
Carbon disulfide			25.0	25.2		ug/L		101	56 - 128	2	20
Carbon tetrachloride			25.0	22.7		ug/L		91	60 - 133	3	20
Chlorobenzene			25.0	26.3		ug/L		105	78 - 118	3	20
Chloroethane			25.0	20.5		ug/L		82	52 - 144	23	30
Chloroform			25.0	24.7		ug/L		99	68 - 128	2	20
Chloromethane			25.0	20.5	*1	ug/L		82	43 - 142	22	20
cis-1,2-Dichloroethene			25.0	26.0		ug/L		104	69 - 126	0	20
cis-1,3-Dichloropropene			25.0	22.9		ug/L		92	75 - 120	1	20
Dibromochloromethane			25.0	21.2		ug/L		85	71 - 122	0	20
Dibromomethane			25.0	26.3		ug/L		105	68 - 129	2	20
Dichlorodifluoromethane			25.0	21.8	*1	ug/L		87	26 - 152	26	21
Ethylbenzene			25.0	25.7		ug/L		103	76 - 121	4	20
Hexachlorobutadiene			25.0	27.6		ug/L		110	69 - 133	3	20
Isopropylbenzene			25.0	24.5		ug/L		98	70 - 127	4	20
Methylene Chloride			25.0	24.3		ug/L		97	64 - 128	1	20
Naphthalene			25.0	28.4		ug/L		114	63 - 129	4	21
n-Butylbenzene			25.0	24.9		ug/L		99	69 - 130	8	20
N-Propylbenzene			25.0	25.4		ug/L		101	73 - 127	7	20
sec-Butylbenzene			25.0	25.9		ug/L		104	72 - 127	6	20
Styrene			25.0	25.5		ug/L		102	79 - 120	2	20
tert-Butylbenzene			25.0	25.5		ug/L		102	72 - 126	5	20
Tetrachloroethene			25.0	25.4		ug/L		101	72 - 127	5	20
Toluene			25.0	25.6		ug/L		103	68 - 127	3	20
trans-1,2-Dichloroethene			25.0	26.5		ug/L		106	66 - 129	1	20
trans-1,3-Dichloropropene			25.0	22.2		ug/L		89	66 - 127	1	20
Trichloroethene			25.0	25.7		ug/L		103	70 - 125	5	20
Trichlorofluoromethane			25.0	22.8		ug/L		91	57 - 144	23	28
Vinyl chloride			25.0	23.8		ug/L		95	53 - 141	24	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-594402/1-A
Matrix: Water
Analysis Batch: 594425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 15:18	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*124*		*70 - 130*	*11/22/22 11:24*	*11/22/22 15:18*	*1*

Lab Sample ID: LCS 280-594402/2-A
Matrix: Water
Analysis Batch: 594425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594402

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromo-3-Chloropropane			0.250	0.257		ug/L		103	60 - 140		
1,2-Dibromoethane			0.250	0.229		ug/L		92	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*121*		*70 - 130*

Lab Sample ID: LCSD 280-594402/3-A
Matrix: Water
Analysis Batch: 594425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 594402

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.273		ug/L		109	60 - 140	6	10
1,2-Dibromoethane			0.250	0.239		ug/L		95	60 - 140	4	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*125*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-594870/1-A
Matrix: Water
Analysis Batch: 595413

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		12/01/22 09:30	12/02/22 05:46	1
Iron	ND		30		ug/L		12/01/22 09:30	12/02/22 05:46	1
Magnesium	ND		200		ug/L		12/01/22 09:30	12/02/22 05:46	1
Manganese	ND		3.0		ug/L		12/01/22 09:30	12/02/22 05:46	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 05:46	1
Sodium	ND		1000		ug/L		12/01/22 09:30	12/02/22 05:46	1

Lab Sample ID: LCS 280-594870/2-A
Matrix: Water
Analysis Batch: 595413

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594870

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50000	51000		ug/L		102	90 - 111		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-594870/2-A
Matrix: Water
Analysis Batch: 595413

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10500		ug/L		105	89 - 115
Magnesium	50000	51200		ug/L		102	90 - 113
Manganese	1000	1040		ug/L		104	90 - 110
Potassium	50000	49300		ug/L		99	89 - 114
Sodium	50000	48400		ug/L		97	90 - 115

Lab Sample ID: 280-169296-B-9-H MS
Matrix: Water
Analysis Batch: 595413

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 594870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	200000		50000	254000	4	ug/L		100	48 - 153
Iron	3800		10000	14200		ug/L		104	52 - 155
Magnesium	56000		50000	107000		ug/L		102	62 - 146
Manganese	230		1000	1260		ug/L		103	79 - 121
Potassium	4200		50000	56400		ug/L		104	76 - 132
Sodium	340000		50000	394000	4	ug/L		110	70 - 203

Lab Sample ID: 280-169296-B-9-I MSD
Matrix: Water
Analysis Batch: 595413

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 594870

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	200000		50000	248000	4	ug/L		90	48 - 153	2	20
Iron	3800		10000	14100		ug/L		102	52 - 155	1	20
Magnesium	56000		50000	105000		ug/L		98	62 - 146	2	20
Manganese	230		1000	1240		ug/L		101	79 - 121	1	20
Potassium	4200		50000	55700		ug/L		103	76 - 132	1	20
Sodium	340000		50000	386000	4	ug/L		93	70 - 203	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-651985/4
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/02/22 17:01	1
Sulfate	ND		1.0		mg/L			12/02/22 17:01	1

Lab Sample ID: LCS 480-651985/5
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.7		mg/L		99	90 - 110
Sulfate	50.0	50.3		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-169302-D-2 MS
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	170		50.1	215	E	mg/L		82	81 - 120
Sulfate	4.9		50.0	55.4		mg/L		101	80 - 120

Lab Sample ID: MB 480-652317/4
Matrix: Water
Analysis Batch: 652317

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/06/22 16:32	1
Sulfate	ND		1.0		mg/L			12/06/22 16:32	1

Lab Sample ID: LCS 480-652317/5
Matrix: Water
Analysis Batch: 652317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.8		mg/L		99	90 - 110
Sulfate	50.0	50.5		mg/L		101	90 - 110

Lab Sample ID: 480-204086-G-2 MSD
Matrix: Water
Analysis Batch: 652317

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	200		251	430		mg/L		91	81 - 120	7	15
Sulfate	31		250	271		mg/L		96	80 - 120	13	15

Lab Sample ID: 480-204259-L-6 MS
Matrix: Water
Analysis Batch: 652317

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.4		50.1	48.3		mg/L		93	81 - 120
Sulfate	15		50.0	62.4		mg/L		94	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-595775/140
Matrix: Water
Analysis Batch: 595775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			12/06/22 15:24	1

Lab Sample ID: LCS 280-595775/139
Matrix: Water
Analysis Batch: 595775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.54		mg/L		102	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 280-169495-B-8 MS
Matrix: Water
Analysis Batch: 595775

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	ND		1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: 280-169495-B-8 MSD
Matrix: Water
Analysis Batch: 595775

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.08		mg/L		108	90 - 110	0	10

Lab Sample ID: MB 280-596038/19
Matrix: Water
Analysis Batch: 596038

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			12/07/22 09:56	1

Lab Sample ID: MB 280-596038/98
Matrix: Water
Analysis Batch: 596038

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			12/07/22 13:27	1

Lab Sample ID: LCS 280-596038/17
Matrix: Water
Analysis Batch: 596038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.53		mg/L		101	90 - 110

Lab Sample ID: LCS 280-596038/97
Matrix: Water
Analysis Batch: 596038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.59		mg/L		104	90 - 110

Lab Sample ID: LCSD 280-596038/18
Matrix: Water
Analysis Batch: 596038

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	2.50	2.52		mg/L		101	90 - 110	0	10

Lab Sample ID: 280-169301-10 MS
Matrix: Water
Analysis Batch: 596038

Client Sample ID: MW-12B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	0.26		1.00	1.31		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 280-169301-10 MSD
Matrix: Water
Analysis Batch: 596038

Client Sample ID: MW-12B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	0.26		1.00	1.32		mg/L		105	90 - 110	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-594952/22
Matrix: Water
Analysis Batch: 594952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			11/29/22 11:21	1

Lab Sample ID: LCS 280-594952/21
Matrix: Water
Analysis Batch: 594952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	5.00	5.12		mg/L		102	90 - 110

Lab Sample ID: 280-169301-6 MS
Matrix: Water
Analysis Batch: 594952

Client Sample ID: DUP11152201
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	ND		4.00	3.95		mg/L		99	90 - 110

Lab Sample ID: 280-169301-6 MSD
Matrix: Water
Analysis Batch: 594952

Client Sample ID: DUP11152201
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	ND		4.00	3.84		mg/L		96	90 - 110	3	10

Lab Sample ID: MB 280-595276/23
Matrix: Water
Analysis Batch: 595276

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			12/01/22 13:17	1

Lab Sample ID: LCS 280-595276/21
Matrix: Water
Analysis Batch: 595276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	5.00	5.10		mg/L		102	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCSD 280-595276/22
Matrix: Water
Analysis Batch: 595276

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite			5.00	5.27		mg/L		105	90 - 110	3	10

Lab Sample ID: 280-169310-A-3 MS
Matrix: Water
Analysis Batch: 595276

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite	ND		4.00	4.05		mg/L		101	90 - 110		

Lab Sample ID: 280-169310-A-3 MSD
Matrix: Water
Analysis Batch: 595276

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	ND		4.00	3.81		mg/L		95	90 - 110	6	10

Lab Sample ID: 580-120347-I-2 MS
Matrix: Water
Analysis Batch: 595276

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite	ND		4.00	3.91		mg/L		98	90 - 110		

Lab Sample ID: 580-120347-I-2 MSD
Matrix: Water
Analysis Batch: 595276

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	ND		4.00	3.93		mg/L		98	90 - 110	1	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-595506/4
Matrix: Water
Analysis Batch: 595506

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/02/22 15:11	1

Lab Sample ID: LCS 280-595506/3
Matrix: Water
Analysis Batch: 595506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	26.9		mg/L		107	88 - 112		

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCSD 280-595506/48
Matrix: Water
Analysis Batch: 595506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average			25.0	26.2		mg/L		105	88 - 112	1	15

Lab Sample ID: 280-169301-2 MS
Matrix: Water
Analysis Batch: 595506

Client Sample ID: MW-16B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	1.7		25.0	29.0		mg/L		109	88 - 112

Lab Sample ID: 280-169301-2 MSD
Matrix: Water
Analysis Batch: 595506

Client Sample ID: MW-16B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.7		25.0	28.9		mg/L		109	88 - 112	0	15

Lab Sample ID: MB 280-595659/4
Matrix: Water
Analysis Batch: 595659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/05/22 16:31	1

Lab Sample ID: LCS 280-595659/3
Matrix: Water
Analysis Batch: 595659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average			25.0	26.6		mg/L		106	88 - 112

Lab Sample ID: LCSD 280-595659/37
Matrix: Water
Analysis Batch: 595659

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average			25.0	25.6		mg/L		103	88 - 112	0	15

Lab Sample ID: 280-168993-B-4 MS
Matrix: Water
Analysis Batch: 595659

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	3.0		25.0	30.1		mg/L		108	88 - 112

Lab Sample ID: 280-168993-B-4 MSD
Matrix: Water
Analysis Batch: 595659

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	3.0		25.0	30.2		mg/L		109	88 - 112	0	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-596205/1
Matrix: Water
Analysis Batch: 596205

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			12/09/22 13:24	1
Magnesium	0.000				meq/L			12/09/22 13:24	1
Potassium	0.000				meq/L			12/09/22 13:24	1
Sodium	0.000				meq/L			12/09/22 13:24	1
Ammonia as N	0.000				meq/L			12/09/22 13:24	1
Chloride	0.000				meq/L			12/09/22 13:24	1
Sulfate	0.000				meq/L			12/09/22 13:24	1
Alkalinity	0.000				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity	0.000				meq/L			12/09/22 13:24	1
Nitrate/Nitrite	0.000				meq/L			12/09/22 13:24	1
Iron	0.000				meq/L			12/09/22 13:24	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-594347/110
Matrix: Water
Analysis Batch: 594347

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			11/21/22 23:59	1

Lab Sample ID: MB 280-594347/84
Matrix: Water
Analysis Batch: 594347

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			11/21/22 21:15	1

Lab Sample ID: 280-169301-3 DU
Matrix: Water
Analysis Batch: 594347

Client Sample ID: FB11152201
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	ND			ND		mg/L				NC	20

Lab Sample ID: MB 280-594522/58
Matrix: Water
Analysis Batch: 594522

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			11/22/22 18:58	1

Lab Sample ID: 280-169301-6 DU
Matrix: Water
Analysis Batch: 594522

Client Sample ID: DUP11152201
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	350			351		mg/L				0.1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-594006/1
Matrix: Water
Analysis Batch: 594006

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			11/18/22 10:17	1

Lab Sample ID: LCS 280-594006/2
Matrix: Water
Analysis Batch: 594006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	467		mg/L		93	88 - 114		

Lab Sample ID: LCSD 280-594006/3
Matrix: Water
Analysis Batch: 594006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			502	472		mg/L		94	88 - 114	1	20

Lab Sample ID: 280-169317-A-5 DU
Matrix: Water
Analysis Batch: 594006

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	620			626		mg/L				0.3	10

Lab Sample ID: MB 280-594012/1
Matrix: Water
Analysis Batch: 594012

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			11/18/22 10:26	1

Lab Sample ID: LCS 280-594012/2
Matrix: Water
Analysis Batch: 594012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	476		mg/L		95	88 - 114		

Lab Sample ID: 280-169301-3 DU
Matrix: Water
Analysis Batch: 594012

Client Sample ID: FB11152201
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	ND			ND		mg/L				NC	10

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

GC/MS VOA

Analysis Batch: 594130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-3	FB11152201	Total/NA	Water	8260B	
280-169301-4	MW-21A	Total/NA	Water	8260B	
280-169301-5	MW-15B	Total/NA	Water	8260B	
MB 280-594130/7	Method Blank	Total/NA	Water	8260B	
LCS 280-594130/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-594130/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 594149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-1	TRIP BLANK	Total/NA	Water	8260B	
280-169301-2	MW-16B	Total/NA	Water	8260B	
280-169301-6	DUP11152201	Total/NA	Water	8260B	
280-169301-7	MW-14B	Total/NA	Water	8260B	
280-169301-8	MW-21B	Total/NA	Water	8260B	
280-169301-9	MW-12A	Total/NA	Water	8260B	
280-169301-10	MW-12B	Total/NA	Water	8260B	
280-169301-11	MW-16A	Total/NA	Water	8260B	
280-169301-12	DUP11162201	Total/NA	Water	8260B	
MB 280-594149/7	Method Blank	Total/NA	Water	8260B	
LCS 280-594149/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-594149/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 594402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-1	TRIP BLANK	Total/NA	Water	8011	
280-169301-2	MW-16B	Total/NA	Water	8011	
280-169301-3	FB11152201	Total/NA	Water	8011	
280-169301-4	MW-21A	Total/NA	Water	8011	
280-169301-5	MW-15B	Total/NA	Water	8011	
280-169301-6	DUP11152201	Total/NA	Water	8011	
280-169301-7	MW-14B	Total/NA	Water	8011	
280-169301-8	MW-21B	Total/NA	Water	8011	
280-169301-9	MW-12A	Total/NA	Water	8011	
280-169301-10	MW-12B	Total/NA	Water	8011	
280-169301-11	MW-16A	Total/NA	Water	8011	
280-169301-12	DUP11162201	Total/NA	Water	8011	
MB 280-594402/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-594402/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-594402/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 594425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-1	TRIP BLANK	Total/NA	Water	8011	594402
280-169301-2	MW-16B	Total/NA	Water	8011	594402
280-169301-3	FB11152201	Total/NA	Water	8011	594402
280-169301-4	MW-21A	Total/NA	Water	8011	594402
280-169301-5	MW-15B	Total/NA	Water	8011	594402
280-169301-6	DUP11152201	Total/NA	Water	8011	594402
280-169301-7	MW-14B	Total/NA	Water	8011	594402

GC Semi VOA (Continued)

Analysis Batch: 594425 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-8	MW-21B	Total/NA	Water	8011	594402
280-169301-9	MW-12A	Total/NA	Water	8011	594402
280-169301-10	MW-12B	Total/NA	Water	8011	594402
280-169301-11	MW-16A	Total/NA	Water	8011	594402
280-169301-12	DUP11162201	Total/NA	Water	8011	594402
MB 280-594402/1-A	Method Blank	Total/NA	Water	8011	594402
LCS 280-594402/2-A	Lab Control Sample	Total/NA	Water	8011	594402
LCSD 280-594402/3-A	Lab Control Sample Dup	Total/NA	Water	8011	594402

Metals

Prep Batch: 594870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-2	MW-16B	Dissolved	Water	3005A	
280-169301-3	FB11152201	Dissolved	Water	3005A	
280-169301-4	MW-21A	Dissolved	Water	3005A	
280-169301-5	MW-15B	Dissolved	Water	3005A	
280-169301-6	DUP11152201	Dissolved	Water	3005A	
280-169301-7	MW-14B	Dissolved	Water	3005A	
280-169301-8	MW-21B	Dissolved	Water	3005A	
280-169301-9	MW-12A	Dissolved	Water	3005A	
280-169301-10	MW-12B	Dissolved	Water	3005A	
280-169301-11	MW-16A	Dissolved	Water	3005A	
280-169301-12	DUP11162201	Dissolved	Water	3005A	
MB 280-594870/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-594870/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-169296-B-9-H MS	Matrix Spike	Total Recoverable	Water	3005A	
280-169296-B-9-I MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 595413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-2	MW-16B	Dissolved	Water	6010B	594870
280-169301-3	FB11152201	Dissolved	Water	6010B	594870
280-169301-4	MW-21A	Dissolved	Water	6010B	594870
280-169301-5	MW-15B	Dissolved	Water	6010B	594870
280-169301-6	DUP11152201	Dissolved	Water	6010B	594870
280-169301-7	MW-14B	Dissolved	Water	6010B	594870
280-169301-8	MW-21B	Dissolved	Water	6010B	594870
280-169301-9	MW-12A	Dissolved	Water	6010B	594870
280-169301-10	MW-12B	Dissolved	Water	6010B	594870
280-169301-11	MW-16A	Dissolved	Water	6010B	594870
280-169301-12	DUP11162201	Dissolved	Water	6010B	594870
MB 280-594870/1-A	Method Blank	Total Recoverable	Water	6010B	594870
LCS 280-594870/2-A	Lab Control Sample	Total Recoverable	Water	6010B	594870
280-169296-B-9-H MS	Matrix Spike	Total Recoverable	Water	6010B	594870
280-169296-B-9-I MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	594870

General Chemistry

Analysis Batch: 594006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-2	MW-16B	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 594006 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-594006/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-594006/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-594006/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-169317-A-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 594012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-3	FB11152201	Total/NA	Water	SM 2540C	
280-169301-4	MW-21A	Total/NA	Water	SM 2540C	
280-169301-5	MW-15B	Total/NA	Water	SM 2540C	
280-169301-6	DUP11152201	Total/NA	Water	SM 2540C	
280-169301-7	MW-14B	Total/NA	Water	SM 2540C	
280-169301-8	MW-21B	Total/NA	Water	SM 2540C	
280-169301-9	MW-12A	Total/NA	Water	SM 2540C	
280-169301-10	MW-12B	Total/NA	Water	SM 2540C	
280-169301-11	MW-16A	Total/NA	Water	SM 2540C	
280-169301-12	DUP11162201	Total/NA	Water	SM 2540C	
MB 280-594012/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-594012/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-169301-3 DU	FB11152201	Total/NA	Water	SM 2540C	

Analysis Batch: 594347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-2	MW-16B	Total/NA	Water	SM 2320B	
280-169301-3	FB11152201	Total/NA	Water	SM 2320B	
280-169301-4	MW-21A	Total/NA	Water	SM 2320B	
280-169301-5	MW-15B	Total/NA	Water	SM 2320B	
280-169301-7	MW-14B	Total/NA	Water	SM 2320B	
280-169301-8	MW-21B	Total/NA	Water	SM 2320B	
280-169301-9	MW-12A	Total/NA	Water	SM 2320B	
280-169301-10	MW-12B	Total/NA	Water	SM 2320B	
280-169301-11	MW-16A	Total/NA	Water	SM 2320B	
280-169301-12	DUP11162201	Total/NA	Water	SM 2320B	
MB 280-594347/110	Method Blank	Total/NA	Water	SM 2320B	
MB 280-594347/84	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-594347/109	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-594347/83	Lab Control Sample	Total/NA	Water	SM 2320B	
280-169301-3 DU	FB11152201	Total/NA	Water	SM 2320B	

Analysis Batch: 594522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-6	DUP11152201	Total/NA	Water	SM 2320B	
MB 280-594522/58	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-594522/57	Lab Control Sample	Total/NA	Water	SM 2320B	
280-169301-6 DU	DUP11152201	Total/NA	Water	SM 2320B	

Analysis Batch: 594952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-3	FB11152201	Total/NA	Water	353.2	
280-169301-4	MW-21A	Total/NA	Water	353.2	
280-169301-5	MW-15B	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 594952 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-6	DUP11152201	Total/NA	Water	353.2	
280-169301-7	MW-14B	Total/NA	Water	353.2	
280-169301-8	MW-21B	Total/NA	Water	353.2	
280-169301-10	MW-12B	Total/NA	Water	353.2	
MB 280-594952/22	Method Blank	Total/NA	Water	353.2	
LCS 280-594952/21	Lab Control Sample	Total/NA	Water	353.2	
280-169301-6 MS	DUP11152201	Total/NA	Water	353.2	
280-169301-6 MSD	DUP11152201	Total/NA	Water	353.2	

Analysis Batch: 595276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-2	MW-16B	Total/NA	Water	353.2	
280-169301-9	MW-12A	Total/NA	Water	353.2	
280-169301-11	MW-16A	Total/NA	Water	353.2	
280-169301-12	DUP11162201	Total/NA	Water	353.2	
MB 280-595276/23	Method Blank	Total/NA	Water	353.2	
LCS 280-595276/21	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-595276/22	Lab Control Sample Dup	Total/NA	Water	353.2	
280-169310-A-3 MS	Matrix Spike	Total/NA	Water	353.2	
280-169310-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
580-120347-I-2 MS	Matrix Spike	Total/NA	Water	353.2	
580-120347-I-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 595506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-2	MW-16B	Total/NA	Water	9060	
280-169301-3	FB11152201	Total/NA	Water	9060	
280-169301-4	MW-21A	Total/NA	Water	9060	
280-169301-5	MW-15B	Total/NA	Water	9060	
280-169301-6	DUP11152201	Total/NA	Water	9060	
280-169301-7	MW-14B	Total/NA	Water	9060	
280-169301-8	MW-21B	Total/NA	Water	9060	
280-169301-9	MW-12A	Total/NA	Water	9060	
MB 280-595506/4	Method Blank	Total/NA	Water	9060	
LCS 280-595506/3	Lab Control Sample	Total/NA	Water	9060	
LCSD 280-595506/48	Lab Control Sample Dup	Total/NA	Water	9060	
280-169301-2 MS	MW-16B	Total/NA	Water	9060	
280-169301-2 MSD	MW-16B	Total/NA	Water	9060	

Analysis Batch: 595659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-10	MW-12B	Total/NA	Water	9060	
280-169301-11	MW-16A	Total/NA	Water	9060	
280-169301-12	DUP11162201	Total/NA	Water	9060	
MB 280-595659/4	Method Blank	Total/NA	Water	9060	
LCS 280-595659/3	Lab Control Sample	Total/NA	Water	9060	
LCSD 280-595659/37	Lab Control Sample Dup	Total/NA	Water	9060	
280-168993-B-4 MS	Matrix Spike	Total/NA	Water	9060	
280-168993-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

General Chemistry

Analysis Batch: 595775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-2	MW-16B	Total/NA	Water	350.1	
280-169301-6	DUP11152201	Total/NA	Water	350.1	
280-169301-7	MW-14B	Total/NA	Water	350.1	
280-169301-8	MW-21B	Total/NA	Water	350.1	
MB 280-595775/140	Method Blank	Total/NA	Water	350.1	
LCS 280-595775/139	Lab Control Sample	Total/NA	Water	350.1	
280-169495-B-8 MS	Matrix Spike	Total/NA	Water	350.1	
280-169495-B-8 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 596038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-3	FB11152201	Total/NA	Water	350.1	
280-169301-4	MW-21A	Total/NA	Water	350.1	
280-169301-5	MW-15B	Total/NA	Water	350.1	
280-169301-9	MW-12A	Total/NA	Water	350.1	
280-169301-10	MW-12B	Total/NA	Water	350.1	
280-169301-11	MW-16A	Total/NA	Water	350.1	
280-169301-12	DUP11162201	Total/NA	Water	350.1	
MB 280-596038/19	Method Blank	Total/NA	Water	350.1	
MB 280-596038/98	Method Blank	Total/NA	Water	350.1	
LCS 280-596038/17	Lab Control Sample	Total/NA	Water	350.1	
LCS 280-596038/97	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-596038/18	Lab Control Sample Dup	Total/NA	Water	350.1	
280-169301-10 MS	MW-12B	Total/NA	Water	350.1	
280-169301-10 MSD	MW-12B	Total/NA	Water	350.1	

Analysis Batch: 596205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-2	MW-16B	Total/NA	Water	SM 1030E	
280-169301-2	MW-16B	Total/NA	Water	SM 1030E (meq)	
280-169301-3	FB11152201	Total/NA	Water	SM 1030E	
280-169301-3	FB11152201	Total/NA	Water	SM 1030E (meq)	
280-169301-4	MW-21A	Total/NA	Water	SM 1030E	
280-169301-4	MW-21A	Total/NA	Water	SM 1030E (meq)	
280-169301-5	MW-15B	Total/NA	Water	SM 1030E	
280-169301-5	MW-15B	Total/NA	Water	SM 1030E (meq)	
280-169301-6	DUP11152201	Total/NA	Water	SM 1030E	
280-169301-6	DUP11152201	Total/NA	Water	SM 1030E (meq)	
280-169301-7	MW-14B	Total/NA	Water	SM 1030E	
280-169301-7	MW-14B	Total/NA	Water	SM 1030E (meq)	
280-169301-8	MW-21B	Total/NA	Water	SM 1030E	
280-169301-8	MW-21B	Total/NA	Water	SM 1030E (meq)	
280-169301-9	MW-12A	Total/NA	Water	SM 1030E	
280-169301-9	MW-12A	Total/NA	Water	SM 1030E (meq)	
280-169301-10	MW-12B	Total/NA	Water	SM 1030E	
280-169301-10	MW-12B	Total/NA	Water	SM 1030E (meq)	
280-169301-11	MW-16A	Total/NA	Water	SM 1030E	
280-169301-11	MW-16A	Total/NA	Water	SM 1030E (meq)	
280-169301-12	DUP11162201	Total/NA	Water	SM 1030E	
280-169301-12	DUP11162201	Total/NA	Water	SM 1030E (meq)	
MB 280-596205/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169301-1

General Chemistry

Analysis Batch: 651985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-2	MW-16B	Total/NA	Water	300.0	
280-169301-3	FB11152201	Total/NA	Water	300.0	
280-169301-5	MW-15B	Total/NA	Water	300.0	
280-169301-7	MW-14B	Total/NA	Water	300.0	
280-169301-8	MW-21B	Total/NA	Water	300.0	
280-169301-10	MW-12B	Total/NA	Water	300.0	
280-169301-11	MW-16A	Total/NA	Water	300.0	
280-169301-12	DUP11162201	Total/NA	Water	300.0	
MB 480-651985/4	Method Blank	Total/NA	Water	300.0	
LCS 480-651985/5	Lab Control Sample	Total/NA	Water	300.0	
280-169302-D-2 MS	Matrix Spike	Total/NA	Water	300.0	

Analysis Batch: 652317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169301-4	MW-21A	Total/NA	Water	300.0	
280-169301-6	DUP11152201	Total/NA	Water	300.0	
280-169301-9	MW-12A	Total/NA	Water	300.0	
MB 480-652317/4	Method Blank	Total/NA	Water	300.0	
LCS 480-652317/5	Lab Control Sample	Total/NA	Water	300.0	
480-204086-G-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
480-204259-L-6 MS	Matrix Spike	Total/NA	Water	300.0	

Lab Chronicle

Client: Waste Management
Job ID: 280-169301-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-169301-1
Date Collected: 11/15/22 07:00
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594149	11/19/22 20:35	MD	EET DEN
Total/NA	Prep	8011			35.2 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 19:01	ECM	EET DEN

Client Sample ID: MW-16B
Lab Sample ID: 280-169301-2
Date Collected: 11/15/22 09:10
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594149	11/19/22 23:49	MD	EET DEN
Total/NA	Prep	8011			35.5 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 19:26	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 06:54	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/02/22 18:39	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	595775	12/06/22 16:01	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	595276	12/01/22 13:33	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595506	12/02/22 15:39	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/21/22 23:32	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594006	11/18/22 10:18	ASP	EET DEN

Client Sample ID: FB11152201
Lab Sample ID: 280-169301-3
Date Collected: 11/15/22 09:20
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594130	11/19/22 12:27	CKL	EET DEN
Total/NA	Prep	8011			35.2 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 19:50	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 07:15	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/02/22 18:58	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596038	12/07/22 14:44	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	594952	11/29/22 11:41	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595506	12/02/22 16:23	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/22/22 00:05	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594012	11/18/22 10:26	ASP	EET DEN

Client Sample ID: MW-21A

Lab Sample ID: 280-169301-4

Date Collected: 11/15/22 13:20

Matrix: Water

Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594130	11/19/22 15:20	CKL	EET DEN
Total/NA	Prep	8011			35.5 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 20:39	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 07:19	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	652317	12/06/22 17:12	RJS	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596038	12/07/22 14:47	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	594952	11/29/22 11:55	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595506	12/02/22 16:37	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/22/22 00:16	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594012	11/18/22 10:26	ASP	EET DEN

Client Sample ID: MW-15B

Lab Sample ID: 280-169301-5

Date Collected: 11/15/22 10:25

Matrix: Water

Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594130	11/19/22 15:42	CKL	EET DEN
Total/NA	Prep	8011			35.7 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 21:03	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 07:23	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/02/22 20:56	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596038	12/07/22 14:50	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	594952	11/29/22 11:57	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595506	12/02/22 16:51	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/22/22 00:24	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594012	11/18/22 10:26	ASP	EET DEN

Client Sample ID: DUP11152201

Lab Sample ID: 280-169301-6

Date Collected: 11/15/22 10:30

Matrix: Water

Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594149	11/20/22 00:11	MD	EET DEN
Total/NA	Prep	8011			35.3 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 21:28	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 07:27	KRP	EET DEN

Client Sample ID: DUP11152201
Lab Sample ID: 280-169301-6

Date Collected: 11/15/22 10:30
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL	1 mL	652317	12/06/22 17:31	RJS	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	595775	12/06/22 16:12	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	594952	11/29/22 11:59	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595506	12/02/22 17:05	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594522	11/22/22 19:05	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594012	11/18/22 10:26	ASP	EET DEN

Client Sample ID: MW-14B
Lab Sample ID: 280-169301-7

Date Collected: 11/15/22 12:15
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594149	11/20/22 00:32	MD	EET DEN
Total/NA	Prep	8011			35.5 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 21:52	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 07:31	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/02/22 21:35	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	595775	12/06/22 16:14	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	594952	11/29/22 12:05	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595506	12/02/22 17:19	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/22/22 00:38	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594012	11/18/22 10:26	ASP	EET DEN

Client Sample ID: MW-21B
Lab Sample ID: 280-169301-8

Date Collected: 11/15/22 14:15
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594149	11/20/22 00:54	MD	EET DEN
Total/NA	Prep	8011			35.5 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 22:17	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 07:35	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/02/22 21:55	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	595775	12/06/22 16:17	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	594952	11/29/22 12:07	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595506	12/02/22 17:34	ABW	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-169301-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: MW-21B
Lab Sample ID: 280-169301-8
Date Collected: 11/15/22 14:15
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/22/22 00:45	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594012	11/18/22 10:26	ASP	EET DEN

Client Sample ID: MW-12A
Lab Sample ID: 280-169301-9
Date Collected: 11/15/22 15:25
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594149	11/20/22 01:16	MD	EET DEN
Total/NA	Prep	8011			35.8 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 22:41	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 07:39	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	652317	12/06/22 17:51	RJS	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596038	12/07/22 10:39	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	595276	12/01/22 13:35	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595506	12/02/22 18:18	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/22/22 00:51	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594012	11/18/22 10:26	ASP	EET DEN

Client Sample ID: MW-12B
Lab Sample ID: 280-169301-10
Date Collected: 11/15/22 15:50
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594149	11/20/22 01:37	MD	EET DEN
Total/NA	Prep	8011			35.7 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 23:06	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 07:43	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/02/22 22:34	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596038	12/07/22 10:41	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	594952	11/29/22 12:11	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595659	12/05/22 18:13	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/22/22 00:57	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594012	11/18/22 10:26	ASP	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-169301-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: MW-16A
Lab Sample ID: 280-169301-11
Date Collected: 11/16/22 08:25
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594149	11/20/22 01:59	MD	EET DEN
Total/NA	Prep	8011			35.4 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 23:30	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 07:47	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/02/22 22:54	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596038	12/07/22 11:12	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	595276	12/01/22 14:55	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595659	12/05/22 18:27	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/22/22 01:04	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594012	11/18/22 10:26	ASP	EET DEN

Client Sample ID: DUP11162201
Lab Sample ID: 280-169301-12
Date Collected: 11/16/22 08:30
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594149	11/20/22 02:20	MD	EET DEN
Total/NA	Prep	8011			35.2 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 23:55	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594870	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 07:51	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/02/22 23:13	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596038	12/07/22 11:13	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	595276	12/01/22 14:57	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595659	12/05/22 18:42	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/22/22 01:23	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594012	11/18/22 10:26	ASP	EET DEN

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: E. TAYlor	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-124177-865.1
Client Contact:	Phone: 503 502 7627	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 1 of 2
Company: Waste Management	PWSID:			Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786- Semiannual Compliance Wells - Apr Oct			
Site: Oregon	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540/350.1- TDS/Alk	6010B- Dissolved Metals (FF)	Ammonia/TOC/NO3+NO2	8260B- VOCs	8011- EDB/DBCP	Cation/Anion Balance	300.0- Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	R		N		
TB01	11/15/22	0700	G	W						X	X			4	
MW-16B	11/15/22	0910	G	W	X		X	X	X	X	X	X	X	3	
FB 11152201	11/15/22	0720	G	W	X		X	X	X	X	X	X	X	3	
MW-21A	11/15/22	1320	G	W	X		X	X	X	X	X	X	X	3	
MW-15B	11/15/22	1025	G	W	X		X	X	X	X	X	X	X	3	
DUP 11152201	11/15/22	1030	G	W	X		X	X	X	X	X	X	X	3	
MW-14B	11/15/22	1215	G	W	X		X	X	X	X	X	X	X	3	
MW-21B	11/15/22	1415	G	W	X		X	X	X	X	X	X	X	3	
MW-12A	11/15/22	1525	G	W	X		X	X	X	X	X	X	X	3	
MW-12B	11/15/22	1550	G	W	X		X	X	X	X	X	X	X	3	

280-169301 Chain of Custody

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/16/2022 1630	SCS	Jacob Scott	11/17/22 1030	ETA DEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.8, 1.7, 0.4 CF 0.0 IR12

Ver: 01/16/2019

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: E. TAYLOR	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-124177-865.1
Client Contact:	Phone: 503 502 7622	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 2 of 2
Company: Waste Management	PWSID:	Analysis Requested		Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786- Semiannual Compliance Wells - Apr Oct			
Site: Oregon	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540/350.1- TDS/Alk	6010B- Dissolved Metals (FF)	Ammonia/TOC/NO3+NO2	8260B- VOCs	8011- EDB/DBCP	Cation/Anion Balance	300.0- Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	R		N		
MW-16A	11/16/22	0829	G	W	X		X	X	X	X	X	X	X	11	
Dup 11162201	11/16/22	1230	G	W	X		X	X	X	X	X	X	X	11	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		11/16/22 @ 1630			11/17/22 1030	ETA DEN
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

1/9/2023

FedEx Express
Expanded Billable Stamp
Use only for shipments within the U.S. Saturday delivery available.

1 From See optional release signature below.
ORDER: 00863049

DECLARED VALUE $100
PACKAGE WEIGHT
(__) ___-_____

2 To Shipment will not be accepted if address below is altered.
SAMPLE RECEIVING
EUROFINS TESTAMERICA
4955 YARROW ST
ARVADA, CO 80002
(303) 736-0100

8172 4918 8932

REF:

Release Signature
For nonresidential deliveries.
Sign within this area. Please do not remove.
By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

There is an artificial watermark on this document. Hold at an angle to view.

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FedEx Priority Overnight®
Next business morning by 10:30 a.m. Not available to all locations. Please consult the current FedEx Service Guide for specific commitments.
NONREDEEMABLE
Please see back for declared value information and important terms and conditions.
1229964
Shipments tendered on Friday are delivered on Saturday to most locations.

280-169301 Waybill

FedEx Express
Expanded Billable Stamp
Use only for shipments within the U.S. Saturday delivery available.

1 From See optional release signature below.
ORDER: 00863049

DECLARED VALUE $100
PACKAGE WEIGHT
(__) ___-_____

2 To Shipment will not be accepted if address below is altered.
SAMPLE RECEIVING
EUROFINS TESTAMERICA
4955 YARROW ST
ARVADA, CO 80002
(303) 736-0100

8172 4918 8900

REF:

Release Signature
For nonresidential deliveries.
Sign within this area. Please do not remove.
By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

For FedEx Use Only
Employee Number | Base Charges
Other | Total Charges

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FedEx Priority Overnight®
1476941
current
for specific commitments.
NONREDEEMABLE
Please see back for declared value information and important terms and conditions.
SATURDAY DELIVERY
Shipments tendered on Friday are delivered on Saturday to most locations.

00009410
ORDER: 00863049
EUROFINS TESTAMERICA
ARVADA,CO

Peel here and attach label to package.

FedEx Express

Expanded Billable Stamp

Use only for shipments within the U.S. Saturday delivery available.

FedEx Priority Overnight®

Next business morning by 10:30

1229965

1 From See optional release signature below.

ORDER: 00863049

DECLARED VALUE $100

PACKAGE WEIGHT

( ) ___._____

NONREDEEMABLE

Please see back for declared value information and important terms and conditions.

2 To Shipment will not be accepted if address below is altered.

SAMPLE RECEIVING
EUROFINS TESTAMERICA
4955 YARROW ST
ARVADA, CO 80002
(303) 736-0100

0 4

SATURDAY DELIVERY

Shipments tendered on Friday are delivered on Saturday to most locations.

8172 4918 8921

REF:

Release Signature

For nonresidential deliveries.

Sign within this area. Please do not remove.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

For FedEx Use Only

Base Charges

Total Charges

Employee Number

Other

There is an artificial watermark on this document. Hold at an angle to view.

fedex.com 1.800.GoFedEx 1.800.463.3339

M-10091 Rev. 12/17

Form ID 0667

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-637048.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-169301-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/12/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-16B (280-169301-2)	11/15/22	09:10 Pacific		Water			X	1	
FB11152201 (280-169301-3)	11/15/22	09:20 Pacific		Water			X	1	
MW-21A (280-169301-4)	11/15/22	13:20 Pacific		Water			X	1	
MW-15B (280-169301-5)	11/15/22	10:25 Pacific		Water			X	1	
DUP11152201 (280-169301-6)	11/15/22	10:30 Pacific		Water			X	1	
MW-14B (280-169301-7)	11/15/22	12:15 Pacific		Water			X	1	
MW-21B (280-169301-8)	11/15/22	14:15 Pacific		Water			X	1	
MW-12A (280-169301-9)	11/15/22	15:25 Pacific		Water			X	1	
MW-12B (280-169301-10)	11/15/22	15:50 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 11/21/22 13:40	Company EAGEN	Received by:	Date/Time: 11/23/22 1000	Company TA		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.7 # 1 ICE				

Ver: 06/08/2021

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-637048.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-169301-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/12/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-16A (280-169301-11)	11/16/22	08:25 Pacific		Water			X	1	
DUP11162201 (280-169301-12)	11/16/22	08:30 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/21/22 13:40	ETADEN	See pg 1		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-169301-1

Login Number: 169301
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-169301-1

Login Number: 169301
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 11/23/22 11:35 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7 ir gun #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Generated 3/3/2023 3:49:18 PM

JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Compliance Wells - Apr Oct

JOB NUMBER

280-171058-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

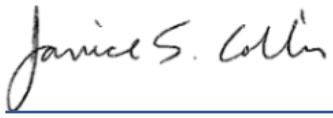
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Definitions/Glossary

Client: Waste Management
Job ID: 280-171058-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-171058-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-171058-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

RECEIPT
The samples were received on 01/06/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.1 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples TB01 (280-171058-1), MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/10/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

1,2-DIBROMOETHANE, 1,2-DIBROMO-3-CHLOROPROPANE, AND 1,2,3-TRICHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY
Samples TB01 (280-171058-1), MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, and 1,2,3-trichloropropane by microextraction and gas chromatography in accordance with EPA SW-846 Method 8011. The samples were prepared on 01/09/2023 and 01/12/2023 and analyzed on 01/10/2023 and 01/12/2023.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 280-598842 and analytical batch 280-598473 recovered outside control limits for the following analytes: 1,2-Dibromoethane on the back column. Both LCS/LCSD recovered within control.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS
Samples MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 01/18/2023 and 01/23/2023 and analyzed on 01/19/2023 and 01/23/2023.

The method blank for analytical batch 280-599852 contained Iron greater than the reporting limit (RL), and were not reanalyzed because all associated samples were 10x the concentration in the MB. The data have been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY

Job ID: 280-171058-1 (Continued)

Laboratory: Eurofins Denver (Continued)

Samples MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 01/10/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS
Samples MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 01/11/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)
Samples MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for anions (28 days) in accordance with EPA Method 300.0 (28 Days). The samples were analyzed on 01/11/2023 and 01/16/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AMMONIA
Samples MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 01/20/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN
Samples MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 01/19/2023 and 01/20/2023.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-599911 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Samples MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 01/23/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE
Samples MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for Cation Anion Balance in accordance with epa methodologies. The samples were analyzed on 01/24/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE
Samples MW-14A (280-171058-2), DUP105231 (280-171058-3), MW-15A (280-171058-4) and FB1052301 (280-171058-5) were analyzed for Cation Anion Balance in accordance with Cation Anion Balance. The samples were analyzed on 01/24/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FIELD SAMPLING
Samples MW-14A (280-171058-2), DUP105231 (280-171058-3) and MW-15A (280-171058-4) were analyzed for Field Sampling in accordance with NA. The samples were analyzed on 01/05/2023.

Job ID: 280-171058-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GENERAL COMMENTS

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-171058-1

Client Sample ID: TB01 — Lab Sample ID: 280-171058-1

No Detections.

Client Sample ID: MW-14A — Lab Sample ID: 280-171058-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	33000		500		ug/L	1		6010B	Dissolved
Magnesium	13000		200		ug/L	1		6010B	Dissolved
Sodium	9900		1000		ug/L	1		6010B	Dissolved
Chloride	6.0		0.50		mg/L	1		300.0	Total/NA
Sulfate	14		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	2.3		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.1		1.0		mg/L	1		9060	Total/NA
Total Anions	3.0				meq/L	1		SM 1030E	Total/NA
Total Cations	3.1				meq/L	1		SM 1030E	Total/NA
Percent Difference	2.0				%	1		SM 1030E	Total/NA
Calcium	33				mg/L	1		SM 1030E	Total/NA
Magnesium	13				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	9.9				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	6.0				mg/L	1		SM 1030E	Total/NA
Sulfate	14				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	120				mg/L	1		SM 1030E	Total/NA
Alkalinity	120				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	2.3				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	2.0				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	180				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	1.6				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.1				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.43				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.17				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.29				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	120				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	2.4				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.16				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	120		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	180		10		mg/L	1		SM 2540C	Total/NA
Field pH	5.90				SU	1		Field Sampling	Total/NA
Field Conductivity	308.6				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.5				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	4.83				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	260.9				millivolts	1		Field Sampling	Total/NA

Client Sample ID: DUP105231 — Lab Sample ID: 280-171058-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	33000		500		ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP105231 (Continued)

Lab Sample ID: 280-171058-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	13000		200		ug/L	1		6010B	Dissolved
Sodium	9800		1000		ug/L	1		6010B	Dissolved
Chloride	6.0		0.50		mg/L	1		300.0	Total/NA
Sulfate	14		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	2.4		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.1		1.0		mg/L	1		9060	Total/NA
Total Anions	3.2				meq/L	1		SM 1030E	Total/NA
Total Cations	3.1				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.4				%	1		SM 1030E	Total/NA
Calcium	33				mg/L	1		SM 1030E	Total/NA
Magnesium	13				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	9.8				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	6.0				mg/L	1		SM 1030E	Total/NA
Sulfate	14				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Alkalinity	130				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	2.4				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.4				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	180				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	1.6				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	1.1				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.43				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.17				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.29				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	130				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	2.6				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.17				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	180		10		mg/L	1		SM 2540C	Total/NA
Field pH	5.90				SU	1		Field Sampling	Total/NA
Field Conductivity	308.6				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.5				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	4.83				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	260.9				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-15A

Lab Sample ID: 280-171058-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	11000		500		ug/L	1		6010B	Dissolved
Iron	8900	B	30		ug/L	1		6010B	Dissolved
Magnesium	4800		200		ug/L	1		6010B	Dissolved
Manganese	54		3.0		ug/L	1		6010B	Dissolved
Potassium	760		500		ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-15A (Continued)

Lab Sample ID: 280-171058-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	19000		1000		ug/L	1		6010B	Dissolved
Chloride	3.8		0.50		mg/L	1		300.0	Total/NA
Sulfate	27		1.0		mg/L	1		300.0	Total/NA
Nitrate/Nitrite	0.18		0.050		mg/L	1		353.2	Total/NA
Total Organic Carbon - Average	1.8		1.0		mg/L	1		9060	Total/NA
Total Anions	1.5				meq/L	1		SM 1030E	Total/NA
Total Cations	2.3				meq/L	1		SM 1030E	Total/NA
Percent Difference	22				%	1		SM 1030E	Total/NA
Calcium	11				mg/L	1		SM 1030E	Total/NA
Magnesium	4.8				mg/L	1		SM 1030E	Total/NA
Potassium	0.76				mg/L	1		SM 1030E	Total/NA
Sodium	19				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	3.8				mg/L	1		SM 1030E	Total/NA
Sulfate	27				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	39				mg/L	1		SM 1030E	Total/NA
Alkalinity	39				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.18				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	22				%	1		SM 1030E	Total/NA
Calculated TDS	72				mg/L	1		SM 1030E	Total/NA
TDS Ratio	5.3				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	380				mg/L	1		SM 1030E	Total/NA
Iron	8.9				mg/L	1		SM 1030E	Total/NA
Calcium	0.55				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.39				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.019				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.83				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.11				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.56				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	39				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.78				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.013				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.48				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	39		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	380		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.07				SU	1		Field Sampling	Total/NA
Field Conductivity	167.1				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.4				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	8.08				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	262.5				millivolts	1		Field Sampling	Total/NA

Client Sample ID: FB1052301

Lab Sample ID: 280-171058-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Total Anions	0.00				meq/L	1		SM 1030E	Total/NA
Total Cations	0.00				meq/L	1		SM 1030E	Total/NA
Percent Difference	NC				%	1		SM 1030E	Total/NA
Calcium	0.00				mg/L	1		SM 1030E	Total/NA
Magnesium	0.00				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB1052301 (Continued)

Lab Sample ID: 280-171058-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Sodium	0.00				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	0.00				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	NC				%	1		SM 1030E	Total/NA
Calculated TDS	0.00				mg/L	1		SM 1030E	Total/NA
TDS Ratio	NC				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	0.00				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-171058-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-171058-1	TB01	Water	01/05/23 08:00	01/06/23 09:20
280-171058-2	MW-14A	Water	01/05/23 11:50	01/06/23 09:20
280-171058-3	DUP105231	Water	01/05/23 11:55	01/06/23 09:20
280-171058-4	MW-15A	Water	01/05/23 13:20	01/06/23 09:20
280-171058-5	FB1052301	Water	01/05/23 13:25	01/06/23 09:20

Method Summary

Client: Waste Management
Job ID: 280-171058-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-171058-1

Client Sample ID: TB01
Date Collected: 01/05/23 08:00
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 11:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/10/23 11:08	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 11:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/10/23 11:08	1
1,1-Dichloroethane	ND		1.0		ug/L			01/10/23 11:08	1
1,1-Dichloroethene	ND		1.0		ug/L			01/10/23 11:08	1
1,1-Dichloropropene	ND		1.0		ug/L			01/10/23 11:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/10/23 11:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/10/23 11:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/10/23 11:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/10/23 11:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/10/23 11:08	1
1,2-Dichloroethane	ND		1.0		ug/L			01/10/23 11:08	1
1,2-Dichloropropane	ND		1.0		ug/L			01/10/23 11:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/10/23 11:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/10/23 11:08	1
1,3-Dichloropropane	ND		1.0		ug/L			01/10/23 11:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/10/23 11:08	1
2,2-Dichloropropane	ND		5.0		ug/L			01/10/23 11:08	1
2-Butanone (MEK)	ND		6.0		ug/L			01/10/23 11:08	1
2-Chlorotoluene	ND		1.0		ug/L			01/10/23 11:08	1
2-Hexanone	ND		5.0		ug/L			01/10/23 11:08	1
4-Chlorotoluene	ND		1.0		ug/L			01/10/23 11:08	1
4-Isopropyltoluene	ND		1.0		ug/L			01/10/23 11:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			01/10/23 11:08	1
Acetone	ND		10		ug/L			01/10/23 11:08	1
Benzene	ND		1.0		ug/L			01/10/23 11:08	1
Bromobenzene	ND		1.0		ug/L			01/10/23 11:08	1
Bromochloromethane	ND		1.0		ug/L			01/10/23 11:08	1
Bromodichloromethane	ND		1.0		ug/L			01/10/23 11:08	1
Bromoform	ND		1.2		ug/L			01/10/23 11:08	1
Bromomethane	ND		2.4		ug/L			01/10/23 11:08	1
Carbon disulfide	ND		2.0		ug/L			01/10/23 11:08	1
Carbon tetrachloride	ND		1.0		ug/L			01/10/23 11:08	1
Chlorobenzene	ND		1.0		ug/L			01/10/23 11:08	1
Chloroethane	ND		2.0		ug/L			01/10/23 11:08	1
Chloroform	ND		1.0		ug/L			01/10/23 11:08	1
Chloromethane	ND		2.0		ug/L			01/10/23 11:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 11:08	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/10/23 11:08	1
Dibromochloromethane	ND		1.0		ug/L			01/10/23 11:08	1
Dibromomethane	ND		1.0		ug/L			01/10/23 11:08	1
Dichlorodifluoromethane	ND		2.0		ug/L			01/10/23 11:08	1
Ethylbenzene	ND		1.0		ug/L			01/10/23 11:08	1
Hexachlorobutadiene	ND		1.2		ug/L			01/10/23 11:08	1
Isopropylbenzene	ND		1.0		ug/L			01/10/23 11:08	1
Methylene Chloride	ND		5.0		ug/L			01/10/23 11:08	1
Naphthalene	ND		1.0		ug/L			01/10/23 11:08	1
n-Butylbenzene	ND		1.0		ug/L			01/10/23 11:08	1

Client Sample ID: TB01

Date Collected: 01/05/23 08:00
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			01/10/23 11:08	1
sec-Butylbenzene	ND		1.0		ug/L			01/10/23 11:08	1
Styrene	ND		1.0		ug/L			01/10/23 11:08	1
tert-Butylbenzene	ND		1.0		ug/L			01/10/23 11:08	1
Tetrachloroethene	ND		1.0		ug/L			01/10/23 11:08	1
Toluene	ND		1.0		ug/L			01/10/23 11:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 11:08	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			01/10/23 11:08	1
Trichloroethene	ND		1.0		ug/L			01/10/23 11:08	1
Trichlorofluoromethane	ND		2.0		ug/L			01/10/23 11:08	1
Vinyl chloride	ND		1.0		ug/L			01/10/23 11:08	1
Xylenes (total)	ND		2.0		ug/L			01/10/23 11:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*15*	*T J*	*ug/L*		*1.59*	*N/A*		*01/10/23 11:08*	*1*
Unknown	*5.8*	*T J*	*ug/L*		*2.40*	*N/A*		*01/10/23 11:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*01/10/23 11:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*01/10/23 11:08*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*01/10/23 11:08*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*01/10/23 11:08*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		01/09/23 10:23	01/10/23 03:42	1
1,2-Dibromoethane	ND		0.050		ug/L		01/09/23 10:23	01/10/23 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*112*		*70 - 130*	*01/09/23 10:23*	*01/10/23 03:42*	*1*

Client Sample ID: MW-14A

Date Collected: 01/05/23 11:50
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 11:52	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/10/23 11:52	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 11:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/10/23 11:52	1
1,1-Dichloroethane	ND		1.0		ug/L			01/10/23 11:52	1
1,1-Dichloroethene	ND		1.0		ug/L			01/10/23 11:52	1
1,1-Dichloropropene	ND		1.0		ug/L			01/10/23 11:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/10/23 11:52	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/10/23 11:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/10/23 11:52	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/10/23 11:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/10/23 11:52	1
1,2-Dichloroethane	ND		1.0		ug/L			01/10/23 11:52	1
1,2-Dichloropropane	ND		1.0		ug/L			01/10/23 11:52	1

Client Sample ID: MW-14A
Date Collected: 01/05/23 11:50
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/10/23 11:52	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/10/23 11:52	1
1,3-Dichloropropane	ND		1.0		ug/L			01/10/23 11:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/10/23 11:52	1
2,2-Dichloropropane	ND		5.0		ug/L			01/10/23 11:52	1
2-Butanone (MEK)	ND		6.0		ug/L			01/10/23 11:52	1
2-Chlorotoluene	ND		1.0		ug/L			01/10/23 11:52	1
2-Hexanone	ND		5.0		ug/L			01/10/23 11:52	1
4-Chlorotoluene	ND		1.0		ug/L			01/10/23 11:52	1
4-Isopropyltoluene	ND		1.0		ug/L			01/10/23 11:52	1
4-Methyl-2-pentanone	ND		5.0		ug/L			01/10/23 11:52	1
Acetone	ND		10		ug/L			01/10/23 11:52	1
Benzene	ND		1.0		ug/L			01/10/23 11:52	1
Bromobenzene	ND		1.0		ug/L			01/10/23 11:52	1
Bromochloromethane	ND		1.0		ug/L			01/10/23 11:52	1
Bromodichloromethane	ND		1.0		ug/L			01/10/23 11:52	1
Bromoform	ND		1.2		ug/L			01/10/23 11:52	1
Bromomethane	ND		2.4		ug/L			01/10/23 11:52	1
Carbon disulfide	ND		2.0		ug/L			01/10/23 11:52	1
Carbon tetrachloride	ND		1.0		ug/L			01/10/23 11:52	1
Chlorobenzene	ND		1.0		ug/L			01/10/23 11:52	1
Chloroethane	ND		2.0		ug/L			01/10/23 11:52	1
Chloroform	ND		1.0		ug/L			01/10/23 11:52	1
Chloromethane	ND		2.0		ug/L			01/10/23 11:52	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 11:52	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/10/23 11:52	1
Dibromochloromethane	ND		1.0		ug/L			01/10/23 11:52	1
Dibromomethane	ND		1.0		ug/L			01/10/23 11:52	1
Dichlorodifluoromethane	ND		2.0		ug/L			01/10/23 11:52	1
Ethylbenzene	ND		1.0		ug/L			01/10/23 11:52	1
Hexachlorobutadiene	ND		1.2		ug/L			01/10/23 11:52	1
Isopropylbenzene	ND		1.0		ug/L			01/10/23 11:52	1
Methylene Chloride	ND		5.0		ug/L			01/10/23 11:52	1
Naphthalene	ND		1.0		ug/L			01/10/23 11:52	1
n-Butylbenzene	ND		1.0		ug/L			01/10/23 11:52	1
N-Propylbenzene	ND		1.0		ug/L			01/10/23 11:52	1
sec-Butylbenzene	ND		1.0		ug/L			01/10/23 11:52	1
Styrene	ND		1.0		ug/L			01/10/23 11:52	1
tert-Butylbenzene	ND		1.0		ug/L			01/10/23 11:52	1
Tetrachloroethene	ND		1.0		ug/L			01/10/23 11:52	1
Toluene	ND		1.0		ug/L			01/10/23 11:52	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 11:52	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			01/10/23 11:52	1
Trichloroethene	ND		1.0		ug/L			01/10/23 11:52	1
Trichlorofluoromethane	ND		2.0		ug/L			01/10/23 11:52	1
Vinyl chloride	ND		1.0		ug/L			01/10/23 11:52	1
Xylenes (total)	ND		2.0		ug/L			01/10/23 11:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*31*	*T J*	*ug/L*		*1.62*	*N/A*		*01/10/23 11:52*	*1*

Client Sample ID: MW-14A

Date Collected: 01/05/23 11:50
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	*5.1*	*T J*	*ug/L*		*2.40*	*N/A*		*01/10/23 11:52*	*1*

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*01/10/23 11:52*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*01/10/23 11:52*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*01/10/23 11:52*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*01/10/23 11:52*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		01/09/23 10:23	01/10/23 04:07	1
1,2-Dibromoethane	ND		0.050		ug/L		01/09/23 10:23	01/10/23 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	*114*		*70 - 130*	*01/09/23 10:23*	*01/10/23 04:07*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**33000**		500		ug/L		01/18/23 08:28	01/19/23 01:34	1
Iron	ND		30		ug/L		01/18/23 08:28	01/19/23 01:34	1
Magnesium	**13000**		200		ug/L		01/18/23 08:28	01/19/23 01:34	1
Manganese	ND		3.0		ug/L		01/18/23 08:28	01/19/23 01:34	1
Potassium	ND		500		ug/L		01/18/23 08:28	01/19/23 01:34	1
Sodium	**9900**		1000		ug/L		01/18/23 08:28	01/19/23 01:34	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**3.0**				meq/L			01/24/23 15:30	1
Total Cations (SM 1030E)	**3.1**				meq/L			01/24/23 15:30	1
Percent Difference (SM 1030E)	**2.0**				%			01/24/23 15:30	1
Calcium (SM 1030E)	**33**				mg/L			01/24/23 15:30	1
Magnesium (SM 1030E)	**13**				mg/L			01/24/23 15:30	1
Potassium (SM 1030E)	**0.00**				mg/L			01/24/23 15:30	1
Sodium (SM 1030E)	**9.9**				mg/L			01/24/23 15:30	1
Ammonia as N (SM 1030E)	**0.00**				mg/L			01/24/23 15:30	1
Chloride (SM 1030E)	**6.0**				mg/L			01/24/23 15:30	1
Sulfate (SM 1030E)	**14**				mg/L			01/24/23 15:30	1
Bicarbonate Alkalinity (SM 1030E)	**120**				mg/L			01/24/23 15:30	1
Alkalinity (SM 1030E)	**120**				mg/L			01/24/23 15:30	1
Nitrate/Nitrite (SM 1030E)	**2.3**				mg/L			01/24/23 15:30	1
Anion/Cation Balance (SM 1030E)	**2.0**				%			01/24/23 15:30	1
Calculated TDS (SM 1030E)	**140**				mg/L			01/24/23 15:30	1
TDS Ratio (SM 1030E)	**1.3**				NONE			01/24/23 15:30	1
Total Dissolved Solids (SM 1030E)	**180**				mg/L			01/24/23 15:30	1
Iron (SM 1030E)	**0.00**				mg/L			01/24/23 15:30	1
Calcium (SM 1030E (meq))	**1.6**				meq/L			01/24/23 15:30	1
Magnesium (SM 1030E (meq))	**1.1**				meq/L			01/24/23 15:30	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			01/24/23 15:30	1
Sodium (SM 1030E (meq))	**0.43**				meq/L			01/24/23 15:30	1
Ammonia as N (SM 1030E (meq))	**0.00**				meq/L			01/24/23 15:30	1

Client Sample ID: MW-14A

Date Collected: 01/05/23 11:50
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SM 1030E (meq))	0.17				meq/L			01/24/23 15:30	1
Sulfate (SM 1030E (meq))	0.29				meq/L			01/24/23 15:30	1
Alkalinity (SM 1030E (meq))	120				mg/L			01/24/23 15:30	1
Bicarbonate Alkalinity (SM 1030E (meq))	2.4				meq/L			01/24/23 15:30	1
Nitrate/Nitrite (SM 1030E (meq))	0.16				meq/L			01/24/23 15:30	1
Iron (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	6.0		0.50		mg/L			01/11/23 18:23	1
Sulfate (EPA 300.0)	14		1.0		mg/L			01/11/23 18:23	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			01/20/23 12:08	1
Nitrate/Nitrite (EPA 353.2)	2.3		0.050		mg/L			01/19/23 13:57	1
Total Organic Carbon - Average (SW846 9060)	1.1		1.0		mg/L			01/23/23 18:33	1
Bicarbonate Alkalinity (SM 2320B)	120		10		mg/L			01/10/23 15:38	1
Total Dissolved Solids (SM 2540C)	180		10		mg/L			01/11/23 14:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.90				SU			01/05/23 12:50	1
Field Conductivity	308.6				umhos/cm			01/05/23 12:50	1
Field Temperature	10.5				Degrees C			01/05/23 12:50	1
Field Dissolved Oxygen	4.83				mg/L			01/05/23 12:50	1
Field EH/ORP	260.9				millivolts			01/05/23 12:50	1

Client Sample ID: DUP105231

Date Collected: 01/05/23 11:55
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 12:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/10/23 12:14	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 12:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/10/23 12:14	1
1,1-Dichloroethane	ND		1.0		ug/L			01/10/23 12:14	1
1,1-Dichloroethene	ND		1.0		ug/L			01/10/23 12:14	1
1,1-Dichloropropene	ND		1.0		ug/L			01/10/23 12:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/10/23 12:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/10/23 12:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/10/23 12:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/10/23 12:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/10/23 12:14	1
1,2-Dichloroethane	ND		1.0		ug/L			01/10/23 12:14	1
1,2-Dichloropropane	ND		1.0		ug/L			01/10/23 12:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/10/23 12:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/10/23 12:14	1
1,3-Dichloropropane	ND		1.0		ug/L			01/10/23 12:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/10/23 12:14	1
2,2-Dichloropropane	ND		5.0		ug/L			01/10/23 12:14	1

Client Sample ID: DUP105231
Date Collected: 01/05/23 11:55
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		6.0		ug/L			01/10/23 12:14	1
2-Chlorotoluene	ND		1.0		ug/L			01/10/23 12:14	1
2-Hexanone	ND		5.0		ug/L			01/10/23 12:14	1
4-Chlorotoluene	ND		1.0		ug/L			01/10/23 12:14	1
4-Isopropyltoluene	ND		1.0		ug/L			01/10/23 12:14	1
4-Methyl-2-pentanone	ND		5.0		ug/L			01/10/23 12:14	1
Acetone	ND		10		ug/L			01/10/23 12:14	1
Benzene	ND		1.0		ug/L			01/10/23 12:14	1
Bromobenzene	ND		1.0		ug/L			01/10/23 12:14	1
Bromochloromethane	ND		1.0		ug/L			01/10/23 12:14	1
Bromodichloromethane	ND		1.0		ug/L			01/10/23 12:14	1
Bromoform	ND		1.2		ug/L			01/10/23 12:14	1
Bromomethane	ND		2.4		ug/L			01/10/23 12:14	1
Carbon disulfide	ND		2.0		ug/L			01/10/23 12:14	1
Carbon tetrachloride	ND		1.0		ug/L			01/10/23 12:14	1
Chlorobenzene	ND		1.0		ug/L			01/10/23 12:14	1
Chloroethane	ND		2.0		ug/L			01/10/23 12:14	1
Chloroform	ND		1.0		ug/L			01/10/23 12:14	1
Chloromethane	ND		2.0		ug/L			01/10/23 12:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 12:14	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/10/23 12:14	1
Dibromochloromethane	ND		1.0		ug/L			01/10/23 12:14	1
Dibromomethane	ND		1.0		ug/L			01/10/23 12:14	1
Dichlorodifluoromethane	ND		2.0		ug/L			01/10/23 12:14	1
Ethylbenzene	ND		1.0		ug/L			01/10/23 12:14	1
Hexachlorobutadiene	ND		1.2		ug/L			01/10/23 12:14	1
Isopropylbenzene	ND		1.0		ug/L			01/10/23 12:14	1
Methylene Chloride	ND		5.0		ug/L			01/10/23 12:14	1
Naphthalene	ND		1.0		ug/L			01/10/23 12:14	1
n-Butylbenzene	ND		1.0		ug/L			01/10/23 12:14	1
N-Propylbenzene	ND		1.0		ug/L			01/10/23 12:14	1
sec-Butylbenzene	ND		1.0		ug/L			01/10/23 12:14	1
Styrene	ND		1.0		ug/L			01/10/23 12:14	1
tert-Butylbenzene	ND		1.0		ug/L			01/10/23 12:14	1
Tetrachloroethene	ND		1.0		ug/L			01/10/23 12:14	1
Toluene	ND		1.0		ug/L			01/10/23 12:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 12:14	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			01/10/23 12:14	1
Trichloroethene	ND		1.0		ug/L			01/10/23 12:14	1
Trichlorofluoromethane	ND		2.0		ug/L			01/10/23 12:14	1
Vinyl chloride	ND		1.0		ug/L			01/10/23 12:14	1
Xylenes (total)	ND		2.0		ug/L			01/10/23 12:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*31*	*T J*	*ug/L*		*1.62*	*N/A*		*01/10/23 12:14*	*1*
Unknown	*6.2*	*T J*	*ug/L*		*2.40*	*N/A*		*01/10/23 12:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*01/10/23 12:14*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*01/10/23 12:14*	*1*

Client Sample ID: DUP105231

Date Collected: 01/05/23 11:55
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*01/10/23 12:14*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*01/10/23 12:14*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		01/09/23 10:23	01/10/23 04:31	1
1,2-Dibromoethane	ND		0.050		ug/L		01/09/23 10:23	01/10/23 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*118*		*70 - 130*	*01/09/23 10:23*	*01/10/23 04:31*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**33000**		500		ug/L		01/18/23 08:28	01/19/23 01:39	1
Iron	ND		30		ug/L		01/18/23 08:28	01/19/23 01:39	1
Magnesium	**13000**		200		ug/L		01/18/23 08:28	01/19/23 01:39	1
Manganese	ND		3.0		ug/L		01/18/23 08:28	01/19/23 01:39	1
Potassium	ND		500		ug/L		01/18/23 08:28	01/19/23 01:39	1
Sodium	**9800**		1000		ug/L		01/18/23 08:28	01/19/23 01:39	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**3.2**				meq/L			01/24/23 15:30	1
Total Cations (SM 1030E)	**3.1**				meq/L			01/24/23 15:30	1
Percent Difference (SM 1030E)	**-1.4**				%			01/24/23 15:30	1
Calcium (SM 1030E)	**33**				mg/L			01/24/23 15:30	1
Magnesium (SM 1030E)	**13**				mg/L			01/24/23 15:30	1
Potassium (SM 1030E)	**0.00**				mg/L			01/24/23 15:30	1
Sodium (SM 1030E)	**9.8**				mg/L			01/24/23 15:30	1
Ammonia as N (SM 1030E)	**0.00**				mg/L			01/24/23 15:30	1
Chloride (SM 1030E)	**6.0**				mg/L			01/24/23 15:30	1
Sulfate (SM 1030E)	**14**				mg/L			01/24/23 15:30	1
Bicarbonate Alkalinity (SM 1030E)	**130**				mg/L			01/24/23 15:30	1
Alkalinity (SM 1030E)	**130**				mg/L			01/24/23 15:30	1
Nitrate/Nitrite (SM 1030E)	**2.4**				mg/L			01/24/23 15:30	1
Anion/Cation Balance (SM 1030E)	**-1.4**				%			01/24/23 15:30	1
Calculated TDS (SM 1030E)	**140**				mg/L			01/24/23 15:30	1
TDS Ratio (SM 1030E)	**1.3**				NONE			01/24/23 15:30	1
Total Dissolved Solids (SM 1030E)	**180**				mg/L			01/24/23 15:30	1
Iron (SM 1030E)	**0.00**				mg/L			01/24/23 15:30	1
Calcium (SM 1030E (meq))	**1.6**				meq/L			01/24/23 15:30	1
Magnesium (SM 1030E (meq))	**1.1**				meq/L			01/24/23 15:30	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			01/24/23 15:30	1
Sodium (SM 1030E (meq))	**0.43**				meq/L			01/24/23 15:30	1
Ammonia as N (SM 1030E (meq))	**0.00**				meq/L			01/24/23 15:30	1
Chloride (SM 1030E (meq))	**0.17**				meq/L			01/24/23 15:30	1
Sulfate (SM 1030E (meq))	**0.29**				meq/L			01/24/23 15:30	1
Alkalinity (SM 1030E (meq))	**130**				mg/L			01/24/23 15:30	1
Bicarbonate Alkalinity (SM 1030E (meq))	**2.6**				meq/L			01/24/23 15:30	1

Client Sample ID: DUP105231
Lab Sample ID: 280-171058-3

Date Collected: 01/05/23 11:55
Matrix: Water
Date Received: 01/06/23 09:20

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite (SM 1030E (meq))	0.17				meq/L			01/24/23 15:30	1
Iron (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	6.0		0.50		mg/L			01/11/23 18:43	1
Sulfate (EPA 300.0)	14		1.0		mg/L			01/11/23 18:43	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			01/20/23 13:39	1
Nitrate/Nitrite (EPA 353.2)	2.4		0.050		mg/L			01/20/23 14:46	1
Total Organic Carbon - Average (SW846 9060)	1.1		1.0		mg/L			01/23/23 18:48	1
Bicarbonate Alkalinity (SM 2320B)	130		10		mg/L			01/10/23 15:50	1
Total Dissolved Solids (SM 2540C)	180		10		mg/L			01/11/23 14:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.90				SU			01/05/23 12:55	1
Field Conductivity	308.6				umhos/cm			01/05/23 12:55	1
Field Temperature	10.5				Degrees C			01/05/23 12:55	1
Field Dissolved Oxygen	4.83				mg/L			01/05/23 12:55	1
Field EH/ORP	260.9				millivolts			01/05/23 12:55	1

Client Sample ID: MW-15A
Lab Sample ID: 280-171058-4

Date Collected: 01/05/23 13:20
Matrix: Water
Date Received: 01/06/23 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 12:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/10/23 12:36	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 12:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/10/23 12:36	1
1,1-Dichloroethane	ND		1.0		ug/L			01/10/23 12:36	1
1,1-Dichloroethene	ND		1.0		ug/L			01/10/23 12:36	1
1,1-Dichloropropene	ND		1.0		ug/L			01/10/23 12:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/10/23 12:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/10/23 12:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/10/23 12:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/10/23 12:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/10/23 12:36	1
1,2-Dichloroethane	ND		1.0		ug/L			01/10/23 12:36	1
1,2-Dichloropropane	ND		1.0		ug/L			01/10/23 12:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/10/23 12:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/10/23 12:36	1
1,3-Dichloropropane	ND		1.0		ug/L			01/10/23 12:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/10/23 12:36	1
2,2-Dichloropropane	ND		5.0		ug/L			01/10/23 12:36	1
2-Butanone (MEK)	ND		6.0		ug/L			01/10/23 12:36	1
2-Chlorotoluene	ND		1.0		ug/L			01/10/23 12:36	1
2-Hexanone	ND		5.0		ug/L			01/10/23 12:36	1
4-Chlorotoluene	ND		1.0		ug/L			01/10/23 12:36	1
4-Isopropyltoluene	ND		1.0		ug/L			01/10/23 12:36	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-171058-1

Client Sample ID: MW-15A
Date Collected: 01/05/23 13:20
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		5.0		ug/L			01/10/23 12:36	1
Acetone	ND		10		ug/L			01/10/23 12:36	1
Benzene	ND		1.0		ug/L			01/10/23 12:36	1
Bromobenzene	ND		1.0		ug/L			01/10/23 12:36	1
Bromochloromethane	ND		1.0		ug/L			01/10/23 12:36	1
Bromodichloromethane	ND		1.0		ug/L			01/10/23 12:36	1
Bromoform	ND		1.2		ug/L			01/10/23 12:36	1
Bromomethane	ND		2.4		ug/L			01/10/23 12:36	1
Carbon disulfide	ND		2.0		ug/L			01/10/23 12:36	1
Carbon tetrachloride	ND		1.0		ug/L			01/10/23 12:36	1
Chlorobenzene	ND		1.0		ug/L			01/10/23 12:36	1
Chloroethane	ND		2.0		ug/L			01/10/23 12:36	1
Chloroform	ND		1.0		ug/L			01/10/23 12:36	1
Chloromethane	ND		2.0		ug/L			01/10/23 12:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 12:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/10/23 12:36	1
Dibromochloromethane	ND		1.0		ug/L			01/10/23 12:36	1
Dibromomethane	ND		1.0		ug/L			01/10/23 12:36	1
Dichlorodifluoromethane	ND		2.0		ug/L			01/10/23 12:36	1
Ethylbenzene	ND		1.0		ug/L			01/10/23 12:36	1
Hexachlorobutadiene	ND		1.2		ug/L			01/10/23 12:36	1
Isopropylbenzene	ND		1.0		ug/L			01/10/23 12:36	1
Methylene Chloride	ND		5.0		ug/L			01/10/23 12:36	1
Naphthalene	ND		1.0		ug/L			01/10/23 12:36	1
n-Butylbenzene	ND		1.0		ug/L			01/10/23 12:36	1
N-Propylbenzene	ND		1.0		ug/L			01/10/23 12:36	1
sec-Butylbenzene	ND		1.0		ug/L			01/10/23 12:36	1
Styrene	ND		1.0		ug/L			01/10/23 12:36	1
tert-Butylbenzene	ND		1.0		ug/L			01/10/23 12:36	1
Tetrachloroethene	ND		1.0		ug/L			01/10/23 12:36	1
Toluene	ND		1.0		ug/L			01/10/23 12:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 12:36	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			01/10/23 12:36	1
Trichloroethene	ND		1.0		ug/L			01/10/23 12:36	1
Trichlorofluoromethane	ND		2.0		ug/L			01/10/23 12:36	1
Vinyl chloride	ND		1.0		ug/L			01/10/23 12:36	1
Xylenes (total)	ND		2.0		ug/L			01/10/23 12:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*21*	*T J*	*ug/L*		*1.62*	*N/A*		*01/10/23 12:36*	*1*
Unknown	*6.2*	*T J*	*ug/L*		*2.40*	*N/A*		*01/10/23 12:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*01/10/23 12:36*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*01/10/23 12:36*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*01/10/23 12:36*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*01/10/23 12:36*	*1*

Client Sample ID: MW-15A

Date Collected: 01/05/23 13:20
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-4

Matrix: Water

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		01/12/23 12:56	01/12/23 18:03	1
1,2-Dibromoethane	ND		0.050		ug/L		01/12/23 12:56	01/12/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*103*		*70 - 130*	*01/12/23 12:56*	*01/12/23 18:03*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	11000		500		ug/L		01/18/23 08:28	01/19/23 02:57	1
Iron	8900	B	30		ug/L		01/18/23 08:28	01/19/23 02:57	1
Magnesium	4800		200		ug/L		01/18/23 08:28	01/19/23 02:57	1
Manganese	54		3.0		ug/L		01/18/23 08:28	01/19/23 02:57	1
Potassium	760		500		ug/L		01/18/23 08:28	01/19/23 02:57	1
Sodium	19000		1000		ug/L		01/18/23 08:28	01/19/23 02:57	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	1.5				meq/L			01/24/23 15:30	1
Total Cations (SM 1030E)	2.3				meq/L			01/24/23 15:30	1
Percent Difference (SM 1030E)	22				%			01/24/23 15:30	1
Calcium (SM 1030E)	11				mg/L			01/24/23 15:30	1
Magnesium (SM 1030E)	4.8				mg/L			01/24/23 15:30	1
Potassium (SM 1030E)	0.76				mg/L			01/24/23 15:30	1
Sodium (SM 1030E)	19				mg/L			01/24/23 15:30	1
Ammonia as N (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Chloride (SM 1030E)	3.8				mg/L			01/24/23 15:30	1
Sulfate (SM 1030E)	27				mg/L			01/24/23 15:30	1
Bicarbonate Alkalinity (SM 1030E)	39				mg/L			01/24/23 15:30	1
Alkalinity (SM 1030E)	39				mg/L			01/24/23 15:30	1
Nitrate/Nitrite (SM 1030E)	0.18				mg/L			01/24/23 15:30	1
Anion/Cation Balance (SM 1030E)	22				%			01/24/23 15:30	1
Calculated TDS (SM 1030E)	72				mg/L			01/24/23 15:30	1
TDS Ratio (SM 1030E)	5.3				NONE			01/24/23 15:30	1
Total Dissolved Solids (SM 1030E)	380				mg/L			01/24/23 15:30	1
Iron (SM 1030E)	8.9				mg/L			01/24/23 15:30	1
Calcium (SM 1030E (meq))	0.55				meq/L			01/24/23 15:30	1
Magnesium (SM 1030E (meq))	0.39				meq/L			01/24/23 15:30	1
Potassium (SM 1030E (meq))	0.019				meq/L			01/24/23 15:30	1
Sodium (SM 1030E (meq))	0.83				meq/L			01/24/23 15:30	1
Ammonia as N (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1
Chloride (SM 1030E (meq))	0.11				meq/L			01/24/23 15:30	1
Sulfate (SM 1030E (meq))	0.56				meq/L			01/24/23 15:30	1
Alkalinity (SM 1030E (meq))	39				mg/L			01/24/23 15:30	1
Bicarbonate Alkalinity (SM 1030E (meq))	0.78				meq/L			01/24/23 15:30	1
Nitrate/Nitrite (SM 1030E (meq))	0.013				meq/L			01/24/23 15:30	1
Iron (SM 1030E (meq))	0.48				meq/L			01/24/23 15:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.8		0.50		mg/L			01/16/23 20:11	1
Sulfate (EPA 300.0)	27		1.0		mg/L			01/11/23 19:03	1

Client Sample ID: MW-15A
Lab Sample ID: 280-171058-4
Date Collected: 01/05/23 13:20
Matrix: Water
Date Received: 01/06/23 09:20

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			01/20/23 14:36	1
Nitrate/Nitrite (EPA 353.2)	**0.18**		0.050		mg/L			01/19/23 14:01	1
Total Organic Carbon - Average (SW846 9060)	**1.8**		1.0		mg/L			01/23/23 19:32	1
Bicarbonate Alkalinity (SM 2320B)	**39**		10		mg/L			01/10/23 15:55	1
Total Dissolved Solids (SM 2540C)	**380**		10		mg/L			01/11/23 14:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.07**				SU			01/05/23 14:20	1
Field Conductivity	**167.1**				umhos/cm			01/05/23 14:20	1
Field Temperature	**13.4**				Degrees C			01/05/23 14:20	1
Field Dissolved Oxygen	**8.08**				mg/L			01/05/23 14:20	1
Field EH/ORP	**262.5**				millivolts			01/05/23 14:20	1

Client Sample ID: FB1052301
Lab Sample ID: 280-171058-5
Date Collected: 01/05/23 13:25
Matrix: Water
Date Received: 01/06/23 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 11:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/10/23 11:30	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 11:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/10/23 11:30	1
1,1-Dichloroethane	ND		1.0		ug/L			01/10/23 11:30	1
1,1-Dichloroethene	ND		1.0		ug/L			01/10/23 11:30	1
1,1-Dichloropropene	ND		1.0		ug/L			01/10/23 11:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/10/23 11:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/10/23 11:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/10/23 11:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/10/23 11:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/10/23 11:30	1
1,2-Dichloroethane	ND		1.0		ug/L			01/10/23 11:30	1
1,2-Dichloropropane	ND		1.0		ug/L			01/10/23 11:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/10/23 11:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/10/23 11:30	1
1,3-Dichloropropane	ND		1.0		ug/L			01/10/23 11:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/10/23 11:30	1
2,2-Dichloropropane	ND		5.0		ug/L			01/10/23 11:30	1
2-Butanone (MEK)	ND		6.0		ug/L			01/10/23 11:30	1
2-Chlorotoluene	ND		1.0		ug/L			01/10/23 11:30	1
2-Hexanone	ND		5.0		ug/L			01/10/23 11:30	1
4-Chlorotoluene	ND		1.0		ug/L			01/10/23 11:30	1
4-Isopropyltoluene	ND		1.0		ug/L			01/10/23 11:30	1
4-Methyl-2-pentanone	ND		5.0		ug/L			01/10/23 11:30	1
Acetone	ND		10		ug/L			01/10/23 11:30	1
Benzene	ND		1.0		ug/L			01/10/23 11:30	1
Bromobenzene	ND		1.0		ug/L			01/10/23 11:30	1
Bromochloromethane	ND		1.0		ug/L			01/10/23 11:30	1

Client Sample ID: FB1052301
Date Collected: 01/05/23 13:25
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0		ug/L			01/10/23 11:30	1
Bromoform	ND		1.2		ug/L			01/10/23 11:30	1
Bromomethane	ND		2.4		ug/L			01/10/23 11:30	1
Carbon disulfide	ND		2.0		ug/L			01/10/23 11:30	1
Carbon tetrachloride	ND		1.0		ug/L			01/10/23 11:30	1
Chlorobenzene	ND		1.0		ug/L			01/10/23 11:30	1
Chloroethane	ND		2.0		ug/L			01/10/23 11:30	1
Chloroform	ND		1.0		ug/L			01/10/23 11:30	1
Chloromethane	ND		2.0		ug/L			01/10/23 11:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 11:30	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/10/23 11:30	1
Dibromochloromethane	ND		1.0		ug/L			01/10/23 11:30	1
Dibromomethane	ND		1.0		ug/L			01/10/23 11:30	1
Dichlorodifluoromethane	ND		2.0		ug/L			01/10/23 11:30	1
Ethylbenzene	ND		1.0		ug/L			01/10/23 11:30	1
Hexachlorobutadiene	ND		1.2		ug/L			01/10/23 11:30	1
Isopropylbenzene	ND		1.0		ug/L			01/10/23 11:30	1
Methylene Chloride	ND		5.0		ug/L			01/10/23 11:30	1
Naphthalene	ND		1.0		ug/L			01/10/23 11:30	1
n-Butylbenzene	ND		1.0		ug/L			01/10/23 11:30	1
N-Propylbenzene	ND		1.0		ug/L			01/10/23 11:30	1
sec-Butylbenzene	ND		1.0		ug/L			01/10/23 11:30	1
Styrene	ND		1.0		ug/L			01/10/23 11:30	1
tert-Butylbenzene	ND		1.0		ug/L			01/10/23 11:30	1
Tetrachloroethene	ND		1.0		ug/L			01/10/23 11:30	1
Toluene	ND		1.0		ug/L			01/10/23 11:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 11:30	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			01/10/23 11:30	1
Trichloroethene	ND		1.0		ug/L			01/10/23 11:30	1
Trichlorofluoromethane	ND		2.0		ug/L			01/10/23 11:30	1
Vinyl chloride	ND		1.0		ug/L			01/10/23 11:30	1
Xylenes (total)	ND		2.0		ug/L			01/10/23 11:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14*	*T J*	*ug/L*		*1.59*	*N/A*		*01/10/23 11:30*	*1*
Unknown	*6.1*	*T J*	*ug/L*		*2.40*	*N/A*		*01/10/23 11:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*01/10/23 11:30*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*01/10/23 11:30*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*01/10/23 11:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*01/10/23 11:30*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		01/12/23 12:56	01/12/23 18:28	1
1,2-Dibromoethane	ND		0.050		ug/L		01/12/23 12:56	01/12/23 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*121*		*70 - 130*	*01/12/23 12:56*	*01/12/23 18:28*	*1*

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-171058-1

Client Sample ID: FB1052301

Date Collected: 01/05/23 13:25
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-5

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		01/18/23 08:28	01/19/23 01:43	1
Iron	ND		30		ug/L		01/23/23 08:50	01/23/23 18:03	1
Magnesium	ND		200		ug/L		01/18/23 08:28	01/19/23 01:43	1
Manganese	ND		3.0		ug/L		01/18/23 08:28	01/19/23 01:43	1
Potassium	ND		500		ug/L		01/18/23 08:28	01/19/23 01:43	1
Sodium	ND		1000		ug/L		01/18/23 08:28	01/19/23 01:43	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	0.00				meq/L			01/24/23 15:30	1
Total Cations (SM 1030E)	0.00				meq/L			01/24/23 15:30	1
Percent Difference (SM 1030E)	NC				%			01/24/23 15:30	1
Calcium (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Magnesium (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Potassium (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Sodium (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Ammonia as N (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Chloride (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Sulfate (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Bicarbonate Alkalinity (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Alkalinity (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Anion/Cation Balance (SM 1030E)	NC				%			01/24/23 15:30	1
Calculated TDS (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
TDS Ratio (SM 1030E)	NC				NONE			01/24/23 15:30	1
Total Dissolved Solids (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Iron (SM 1030E)	0.00				mg/L			01/24/23 15:30	1
Calcium (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1
Magnesium (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1
Potassium (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1
Sodium (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1
Ammonia as N (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1
Chloride (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1
Sulfate (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1
Alkalinity (SM 1030E (meq))	0.00				mg/L			01/24/23 15:30	1
Bicarbonate Alkalinity (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1
Iron (SM 1030E (meq))	0.00				meq/L			01/24/23 15:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		0.50		mg/L			01/11/23 21:00	1
Sulfate (EPA 300.0)	ND		1.0		mg/L			01/11/23 21:00	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			01/20/23 15:26	1
Nitrate/Nitrite (EPA 353.2)	ND		0.050		mg/L			01/19/23 14:03	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			01/23/23 17:46	1
Bicarbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/10/23 16:00	1
Total Dissolved Solids (SM 2540C)	ND		10		mg/L			01/11/23 14:13	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-171058-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-171058-1	TB01	100	99	100	99
280-171058-2	MW-14A	99	101	98	97
280-171058-3	DUP105231	98	99	98	99
280-171058-4	MW-15A	100	100	99	97
280-171058-5	FB1052301	100	99	99	99
LCS 280-598935/13	Lab Control Sample	97	100	99	100
LCSD 280-598935/4	Lab Control Sample Dup	97	99	99	98
MB 280-598935/7	Method Blank	98	98	99	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-171058-1	TB01	112
280-171058-2	MW-14A	114
280-171058-3	DUP105231	118
280-171058-4	MW-15A	103
280-171058-5	FB1052301	121
LCS 280-598842/2-A	Lab Control Sample	112
LCS 280-599266/2-A	Lab Control Sample	105
LCSD 280-598842/3-A	Lab Control Sample Dup	112
LCSD 280-599266/3-A	Lab Control Sample Dup	116
MB 280-598842/1-A	Method Blank	109
MB 280-599266/1-A	Method Blank	108

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-598935/7
Matrix: Water
Analysis Batch: 598935

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 10:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/10/23 10:29	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/10/23 10:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/10/23 10:29	1
1,1-Dichloroethane	ND		1.0		ug/L			01/10/23 10:29	1
1,1-Dichloroethene	ND		1.0		ug/L			01/10/23 10:29	1
1,1-Dichloropropene	ND		1.0		ug/L			01/10/23 10:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/10/23 10:29	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/10/23 10:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/10/23 10:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/10/23 10:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/10/23 10:29	1
1,2-Dichloroethane	ND		1.0		ug/L			01/10/23 10:29	1
1,2-Dichloropropane	ND		1.0		ug/L			01/10/23 10:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/10/23 10:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/10/23 10:29	1
1,3-Dichloropropane	ND		1.0		ug/L			01/10/23 10:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/10/23 10:29	1
2,2-Dichloropropane	ND		5.0		ug/L			01/10/23 10:29	1
2-Butanone (MEK)	ND		6.0		ug/L			01/10/23 10:29	1
2-Chlorotoluene	ND		1.0		ug/L			01/10/23 10:29	1
2-Hexanone	ND		5.0		ug/L			01/10/23 10:29	1
4-Chlorotoluene	ND		1.0		ug/L			01/10/23 10:29	1
4-Isopropyltoluene	ND		1.0		ug/L			01/10/23 10:29	1
4-Methyl-2-pentanone	ND		5.0		ug/L			01/10/23 10:29	1
Acetone	ND		10		ug/L			01/10/23 10:29	1
Benzene	ND		1.0		ug/L			01/10/23 10:29	1
Bromobenzene	ND		1.0		ug/L			01/10/23 10:29	1
Bromochloromethane	ND		1.0		ug/L			01/10/23 10:29	1
Bromodichloromethane	ND		1.0		ug/L			01/10/23 10:29	1
Bromoform	ND		1.2		ug/L			01/10/23 10:29	1
Bromomethane	ND		2.4		ug/L			01/10/23 10:29	1
Carbon disulfide	ND		2.0		ug/L			01/10/23 10:29	1
Carbon tetrachloride	ND		1.0		ug/L			01/10/23 10:29	1
Chlorobenzene	ND		1.0		ug/L			01/10/23 10:29	1
Chloroethane	ND		2.0		ug/L			01/10/23 10:29	1
Chloroform	ND		1.0		ug/L			01/10/23 10:29	1
Chloromethane	ND		2.0		ug/L			01/10/23 10:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 10:29	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/10/23 10:29	1
Dibromochloromethane	ND		1.0		ug/L			01/10/23 10:29	1
Dibromomethane	ND		1.0		ug/L			01/10/23 10:29	1
Dichlorodifluoromethane	ND		2.0		ug/L			01/10/23 10:29	1
Ethylbenzene	ND		1.0		ug/L			01/10/23 10:29	1
Hexachlorobutadiene	ND		1.2		ug/L			01/10/23 10:29	1
Isopropylbenzene	ND		1.0		ug/L			01/10/23 10:29	1
Methylene Chloride	ND		5.0		ug/L			01/10/23 10:29	1
Naphthalene	ND		1.0		ug/L			01/10/23 10:29	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-598935/7
Matrix: Water
Analysis Batch: 598935

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			01/10/23 10:29	1
N-Propylbenzene	ND		1.0		ug/L			01/10/23 10:29	1
sec-Butylbenzene	ND		1.0		ug/L			01/10/23 10:29	1
Styrene	ND		1.0		ug/L			01/10/23 10:29	1
tert-Butylbenzene	ND		1.0		ug/L			01/10/23 10:29	1
Tetrachloroethene	ND		1.0		ug/L			01/10/23 10:29	1
Toluene	ND		1.0		ug/L			01/10/23 10:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/10/23 10:29	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			01/10/23 10:29	1
Trichloroethene	ND		1.0		ug/L			01/10/23 10:29	1
Trichlorofluoromethane	ND		2.0		ug/L			01/10/23 10:29	1
Vinyl chloride	ND		1.0		ug/L			01/10/23 10:29	1
Xylenes (total)	ND		2.0		ug/L			01/10/23 10:29	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14.4*	*T J*	*ug/L*		*1.59*	*N/A*		*01/10/23 10:29*	*1*
Unknown	*6.30*	*T J*	*ug/L*		*2.40*	*N/A*		*01/10/23 10:29*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*01/10/23 10:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*01/10/23 10:29*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*01/10/23 10:29*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*01/10/23 10:29*	*1*

Lab Sample ID: LCS 280-598935/13
Matrix: Water
Analysis Batch: 598935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	50.0		ug/L		100	74 - 121
1,1,1-Trichloroethane	50.0	46.3		ug/L		93	62 - 132
1,1,2,2-Tetrachloroethane	50.0	43.4		ug/L		87	72 - 122
1,1,2-Trichloroethane	50.0	45.9		ug/L		92	72 - 128
1,1-Dichloroethane	50.0	46.2		ug/L		92	66 - 130
1,1-Dichloroethene	50.0	46.7		ug/L		93	62 - 130
1,1-Dichloropropene	50.0	48.5		ug/L		97	64 - 133
1,2,3-Trichlorobenzene	50.0	53.0		ug/L		106	70 - 127
1,2,3-Trichloropropane	50.0	42.3		ug/L		85	74 - 123
1,2,4-Trichlorobenzene	50.0	51.7		ug/L		103	73 - 124
1,2,4-Trimethylbenzene	50.0	42.9		ug/L		86	74 - 124
1,2-Dichlorobenzene	50.0	45.6		ug/L		91	77 - 121
1,2-Dichloroethane	50.0	43.7		ug/L		87	61 - 130
1,2-Dichloropropane	50.0	48.0		ug/L		96	68 - 127
1,3,5-Trimethylbenzene	50.0	43.3		ug/L		87	73 - 127
1,3-Dichlorobenzene	50.0	46.5		ug/L		93	76 - 121
1,3-Dichloropropane	50.0	45.1		ug/L		90	80 - 118
1,4-Dichlorobenzene	50.0	45.8		ug/L		92	76 - 119
2,2-Dichloropropane	50.0	50.0		ug/L		100	57 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-598935/13
Matrix: Water
Analysis Batch: 598935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	200	190		ug/L		95	53 - 135
2-Chlorotoluene	50.0	45.9		ug/L		92	75 - 123
2-Hexanone	200	178		ug/L		89	58 - 134
4-Chlorotoluene	50.0	45.9		ug/L		92	74 - 124
4-Isopropyltoluene	50.0	46.3		ug/L		93	74 - 127
4-Methyl-2-pentanone	200	180		ug/L		90	56 - 135
Acetone	200	187		ug/L		94	50 - 137
Benzene	50.0	45.6		ug/L		91	69 - 126
Bromobenzene	50.0	47.1		ug/L		94	75 - 122
Bromochloromethane	50.0	44.1		ug/L		88	71 - 130
Bromodichloromethane	50.0	47.8		ug/L		96	67 - 126
Bromoform	50.0	47.7		ug/L		95	57 - 125
Bromomethane	50.0	58.8		ug/L		118	25 - 163
Carbon disulfide	50.0	46.6		ug/L		93	56 - 128
Carbon tetrachloride	50.0	53.9		ug/L		108	60 - 133
Chlorobenzene	50.0	46.4		ug/L		93	78 - 118
Chloroethane	50.0	48.3		ug/L		97	52 - 144
Chloroform	50.0	46.1		ug/L		92	68 - 128
Chloromethane	50.0	59.6		ug/L		119	43 - 142
cis-1,2-Dichloroethene	50.0	47.4		ug/L		95	69 - 126
cis-1,3-Dichloropropene	50.0	44.5		ug/L		89	75 - 120
Dibromochloromethane	50.0	47.5		ug/L		95	71 - 122
Dibromomethane	50.0	44.7		ug/L		89	68 - 129
Dichlorodifluoromethane	50.0	55.4		ug/L		111	26 - 152
Ethylbenzene	50.0	44.3		ug/L		89	76 - 121
Hexachlorobutadiene	50.0	52.8		ug/L		106	69 - 133
Isopropylbenzene	50.0	43.2		ug/L		86	70 - 127
Methylene Chloride	50.0	44.8		ug/L		90	64 - 128
Naphthalene	50.0	46.4		ug/L		93	63 - 129
n-Butylbenzene	50.0	44.2		ug/L		88	69 - 130
N-Propylbenzene	50.0	45.8		ug/L		92	73 - 127
sec-Butylbenzene	50.0	49.4		ug/L		99	72 - 127
Styrene	50.0	45.4		ug/L		91	79 - 120
tert-Butylbenzene	50.0	45.5		ug/L		91	72 - 126
Tetrachloroethene	50.0	51.9		ug/L		104	72 - 127
Toluene	50.0	46.1		ug/L		92	68 - 127
trans-1,2-Dichloroethene	50.0	46.9		ug/L		94	66 - 129
trans-1,3-Dichloropropene	50.0	47.1		ug/L		94	66 - 127
Trichloroethene	50.0	43.9		ug/L		88	70 - 125
Trichlorofluoromethane	50.0	54.9		ug/L		110	57 - 144
Vinyl chloride	50.0	50.5		ug/L		101	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-598935/4
Matrix: Water
Analysis Batch: 598935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	49.6		ug/L		99	74 - 121	1	20
1,1,1-Trichloroethane			50.0	45.8		ug/L		92	62 - 132	1	20
1,1,2,2-Tetrachloroethane			50.0	44.1		ug/L		88	72 - 122	2	20
1,1,2-Trichloroethane			50.0	46.9		ug/L		94	72 - 128	2	20
1,1-Dichloroethane			50.0	46.5		ug/L		93	66 - 130	1	20
1,1-Dichloroethene			50.0	46.1		ug/L		92	62 - 130	1	21
1,1-Dichloropropene			50.0	46.4		ug/L		93	64 - 133	4	20
1,2,3-Trichlorobenzene			50.0	55.4		ug/L		111	70 - 127	5	20
1,2,3-Trichloropropane			50.0	41.7		ug/L		83	74 - 123	1	20
1,2,4-Trichlorobenzene			50.0	52.6		ug/L		105	73 - 124	2	20
1,2,4-Trimethylbenzene			50.0	43.7		ug/L		87	74 - 124	2	20
1,2-Dichlorobenzene			50.0	45.6		ug/L		91	77 - 121	0	20
1,2-Dichloroethane			50.0	44.8		ug/L		90	61 - 130	2	20
1,2-Dichloropropane			50.0	47.7		ug/L		95	68 - 127	1	20
1,3,5-Trimethylbenzene			50.0	43.7		ug/L		87	73 - 127	1	20
1,3-Dichlorobenzene			50.0	46.9		ug/L		94	76 - 121	1	20
1,3-Dichloropropane			50.0	44.9		ug/L		90	80 - 118	0	20
1,4-Dichlorobenzene			50.0	45.8		ug/L		92	76 - 119	0	20
2,2-Dichloropropane			50.0	48.9		ug/L		98	57 - 140	2	22
2-Butanone (MEK)			200	190		ug/L		95	53 - 135	0	20
2-Chlorotoluene			50.0	46.1		ug/L		92	75 - 123	1	20
2-Hexanone			200	176		ug/L		88	58 - 134	1	21
4-Chlorotoluene			50.0	45.8		ug/L		92	74 - 124	0	20
4-Isopropyltoluene			50.0	46.1		ug/L		92	74 - 127	1	20
4-Methyl-2-pentanone			200	183		ug/L		92	56 - 135	2	20
Acetone			200	186		ug/L		93	50 - 137	1	21
Benzene			50.0	45.6		ug/L		91	69 - 126	0	20
Bromobenzene			50.0	47.6		ug/L		95	75 - 122	1	20
Bromochloromethane			50.0	45.9		ug/L		92	71 - 130	4	20
Bromodichloromethane			50.0	47.6		ug/L		95	67 - 126	1	20
Bromoform			50.0	47.3		ug/L		95	57 - 125	1	20
Bromomethane			50.0	61.5		ug/L		123	25 - 163	5	40
Carbon disulfide			50.0	45.0		ug/L		90	56 - 128	3	20
Carbon tetrachloride			50.0	53.5		ug/L		107	60 - 133	1	20
Chlorobenzene			50.0	45.6		ug/L		91	78 - 118	2	20
Chloroethane			50.0	49.2		ug/L		98	52 - 144	2	30
Chloroform			50.0	45.6		ug/L		91	68 - 128	1	20
Chloromethane			50.0	58.7		ug/L		117	43 - 142	1	20
cis-1,2-Dichloroethene			50.0	46.3		ug/L		93	69 - 126	2	20
cis-1,3-Dichloropropene			50.0	44.5		ug/L		89	75 - 120	0	20
Dibromochloromethane			50.0	46.7		ug/L		93	71 - 122	2	20
Dibromomethane			50.0	45.7		ug/L		91	68 - 129	2	20
Dichlorodifluoromethane			50.0	53.2		ug/L		106	26 - 152	4	21
Ethylbenzene			50.0	42.9		ug/L		86	76 - 121	3	20
Hexachlorobutadiene			50.0	54.3		ug/L		109	69 - 133	3	20
Isopropylbenzene			50.0	42.5		ug/L		85	70 - 127	2	20
Methylene Chloride			50.0	44.7		ug/L		89	64 - 128	0	20
Naphthalene			50.0	47.8		ug/L		96	63 - 129	3	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-598935/4
Matrix: Water
Analysis Batch: 598935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene			50.0	44.6		ug/L		89	69 - 130	1	20
N-Propylbenzene			50.0	46.2		ug/L		92	73 - 127	1	20
sec-Butylbenzene			50.0	49.7		ug/L		99	72 - 127	1	20
Styrene			50.0	44.9		ug/L		90	79 - 120	1	20
tert-Butylbenzene			50.0	45.0		ug/L		90	72 - 126	1	20
Tetrachloroethene			50.0	48.3		ug/L		97	72 - 127	7	20
Toluene			50.0	45.7		ug/L		91	68 - 127	1	20
trans-1,2-Dichloroethene			50.0	46.1		ug/L		92	66 - 129	2	20
trans-1,3-Dichloropropene			50.0	47.6		ug/L		95	66 - 127	1	20
Trichloroethene			50.0	42.0		ug/L		84	70 - 125	4	20
Trichlorofluoromethane			50.0	51.6		ug/L		103	57 - 144	6	28
Vinyl chloride			50.0	49.8		ug/L		100	53 - 141	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-598842/1-A
Matrix: Water
Analysis Batch: 598473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		01/09/23 10:23	01/10/23 00:04	1
1,2-Dibromoethane	ND		0.050		ug/L		01/09/23 10:23	01/10/23 00:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*109*		*70 - 130*	*01/09/23 10:23*	*01/10/23 00:04*	*1*

Lab Sample ID: LCS 280-598842/2-A
Matrix: Water
Analysis Batch: 598473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598842

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane			0.250	0.246		ug/L		99	60 - 140
1,2-Dibromoethane			0.250	0.264		ug/L		105	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*112*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 280-598842/3-A
Matrix: Water
Analysis Batch: 598473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 598842

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.256		ug/L		102	60 - 140	4	10
1,2-Dibromoethane			0.250	0.270		ug/L		108	60 - 140	2	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*112*		*70 - 130*

Lab Sample ID: MB 280-599266/1-A
Matrix: Water
Analysis Batch: 599275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		01/12/23 12:56	01/12/23 16:49	1
1,2-Dibromoethane	ND		0.050		ug/L		01/12/23 12:56	01/12/23 16:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*108*		*70 - 130*	*01/12/23 12:56*	*01/12/23 16:49*	*1*

Lab Sample ID: LCS 280-599266/2-A
Matrix: Water
Analysis Batch: 599275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599266

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane			0.250	0.239		ug/L		95	60 - 140
1,2-Dibromoethane			0.250	0.259		ug/L		104	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*105*		*70 - 130*

Lab Sample ID: LCSD 280-599266/3-A
Matrix: Water
Analysis Batch: 599275

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 599266

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.252		ug/L		101	60 - 140	5	10
1,2-Dibromoethane			0.250	0.257		ug/L		103	60 - 140	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*116*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-599610/1-A
Matrix: Water
Analysis Batch: 599852

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 599610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		01/18/23 08:28	01/19/23 00:37	1
Iron	123		30		ug/L		01/18/23 08:28	01/19/23 00:37	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 280-599610/1-A
Matrix: Water
Analysis Batch: 599852

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 599610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		200		ug/L		01/18/23 08:28	01/19/23 00:37	1
Manganese	ND		3.0		ug/L		01/18/23 08:28	01/19/23 00:37	1
Potassium	ND		500		ug/L		01/18/23 08:28	01/19/23 00:37	1
Sodium	ND		1000		ug/L		01/18/23 08:28	01/19/23 00:37	1

Lab Sample ID: LCS 280-599610/2-A
Matrix: Water
Analysis Batch: 599852

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 599610

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50000	51700		ug/L		103	90 - 111		
Iron			10000	10500		ug/L		105	89 - 115		
Magnesium			50000	51900		ug/L		104	90 - 113		
Manganese			1000	1010		ug/L		101	90 - 110		
Potassium			50000	49500		ug/L		99	89 - 114		
Sodium			50000	48300		ug/L		97	90 - 115		

Lab Sample ID: MB 280-600011/1-A
Matrix: Water
Analysis Batch: 600205

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 600011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		30		ug/L		01/23/23 08:50	01/23/23 16:32	1

Lab Sample ID: LCS 280-600011/2-A
Matrix: Water
Analysis Batch: 600205

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 600011

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			10000	10400		ug/L		104	89 - 115		

Lab Sample ID: LCSD 280-600011/3-A
Matrix: Water
Analysis Batch: 600205

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 600011

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron			10000	10200		ug/L		102	89 - 115	2	20

Lab Sample ID: 280-171266-A-3-B MS
Matrix: Water
Analysis Batch: 599852

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 599610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	170000		50000	209000		ug/L		85	48 - 153		
Iron	3200	B	10000	13300		ug/L		101	52 - 155		
Magnesium	26000		50000	74700		ug/L		98	62 - 146		
Manganese	63		1000	1030		ug/L		97	79 - 121		
Potassium	7600		50000	56700		ug/L		98	76 - 132		
Sodium	220000		50000	268000	4	ug/L		87	70 - 203		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-171266-A-3-C MSD
Matrix: Water
Analysis Batch: 599852

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 599610

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	170000		50000	217000		ug/L		100	48 - 153	3	20
Iron	3200	B	10000	13700		ug/L		105	52 - 155	3	20
Magnesium	26000		50000	77200		ug/L		103	62 - 146	3	20
Manganese	63		1000	1060		ug/L		100	79 - 121	3	20
Potassium	7600		50000	58100		ug/L		101	76 - 132	2	20
Sodium	220000		50000	278000	4	ug/L		107	70 - 203	4	20

Lab Sample ID: 280-170988-A-1-F MS
Matrix: Water
Analysis Batch: 600205

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 600011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	ND		10000	10200		ug/L		102	52 - 155

Lab Sample ID: 280-170988-A-1-G MSD
Matrix: Water
Analysis Batch: 600205

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 600011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	ND		10000	10000		ug/L		100	52 - 155	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-655693/4
Matrix: Water
Analysis Batch: 655693

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			01/11/23 17:05	1
Sulfate	ND		1.0		mg/L			01/11/23 17:05	1

Lab Sample ID: LCS 480-655693/5
Matrix: Water
Analysis Batch: 655693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	50.4		mg/L		101	90 - 110
Sulfate	50.0	51.0		mg/L		102	90 - 110

Lab Sample ID: 480-205184-J-2 MS
Matrix: Water
Analysis Batch: 655693

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	52		251	293		mg/L		96	81 - 120
Sulfate	680		250	888		mg/L		85	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-205184-J-2 MSD
Matrix: Water
Analysis Batch: 655693

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	52		251	293		mg/L		97	81 - 120	0	15
Sulfate	680		250	889		mg/L		85	80 - 120	0	15

Lab Sample ID: MB 480-656128/4
Matrix: Water
Analysis Batch: 656128

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			01/16/23 19:32	1
Sulfate	ND		1.0		mg/L			01/16/23 19:32	1

Lab Sample ID: LCS 480-656128/5
Matrix: Water
Analysis Batch: 656128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	50.7		mg/L		101	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

Lab Sample ID: 480-205442-C-3 MS
Matrix: Water
Analysis Batch: 656128

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.0		100	97.0		mg/L		94	81 - 120
Sulfate	32		100	125		mg/L		94	80 - 120

Lab Sample ID: 480-205442-C-3 MSD
Matrix: Water
Analysis Batch: 656128

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.0		100	99.3		mg/L		96	81 - 120	2	15
Sulfate	32		100	128		mg/L		96	80 - 120	2	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-600049/18
Matrix: Water
Analysis Batch: 600049

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			01/20/23 12:06	1

Lab Sample ID: MB 280-600049/52
Matrix: Water
Analysis Batch: 600049

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			01/20/23 13:36	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 280-600049/92
Matrix: Water
Analysis Batch: 600049

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			01/20/23 15:23	1

Lab Sample ID: LCS 280-600049/17
Matrix: Water
Analysis Batch: 600049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.50		mg/L		100	90 - 110

Lab Sample ID: LCS 280-600049/51
Matrix: Water
Analysis Batch: 600049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.54		mg/L		101	90 - 110

Lab Sample ID: LCS 280-600049/91
Matrix: Water
Analysis Batch: 600049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.54		mg/L		102	90 - 110

Lab Sample ID: 280-171058-2 MS
Matrix: Water
Analysis Batch: 600049

Client Sample ID: MW-14A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	ND		1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: 280-171058-2 MSD
Matrix: Water
Analysis Batch: 600049

Client Sample ID: MW-14A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.03		mg/L		103	90 - 110	0	10

Lab Sample ID: 280-171058-3 MS
Matrix: Water
Analysis Batch: 600049

Client Sample ID: DUP105231
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	ND		1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 280-171058-3 MSD
Matrix: Water
Analysis Batch: 600049

Client Sample ID: DUP105231
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.07		mg/L		107	90 - 110	2	10

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 280-171058-4 MS
Matrix: Water
Analysis Batch: 600049

Client Sample ID: MW-15A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	ND		1.00	1.08		mg/L		108	90 - 110		

Lab Sample ID: 280-171058-4 MSD
Matrix: Water
Analysis Batch: 600049

Client Sample ID: MW-15A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.09		mg/L		109	90 - 110	0	10

Lab Sample ID: 280-171058-5 MS
Matrix: Water
Analysis Batch: 600049

Client Sample ID: FB1052301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	ND		1.00	1.09		mg/L		109	90 - 110		

Lab Sample ID: 280-171058-5 MSD
Matrix: Water
Analysis Batch: 600049

Client Sample ID: FB1052301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.07		mg/L		107	90 - 110	1	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-599911/60
Matrix: Water
Analysis Batch: 599911

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			01/19/23 12:59	1

Lab Sample ID: LCS 280-599911/59
Matrix: Water
Analysis Batch: 599911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite			5.00	4.89		mg/L		98	90 - 110		

Lab Sample ID: 280-171287-A-9 MS
Matrix: Water
Analysis Batch: 599911

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite	0.34	F1	4.00	0.734	F1	mg/L		10	90 - 110		

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 280-171287-A-9 MSD
Matrix: Water
Analysis Batch: 599911

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	0.34	F1	4.00	0.770	F1	mg/L		11	90 - 110	5	10

Lab Sample ID: MB 280-600046/22
Matrix: Water
Analysis Batch: 600046

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			01/20/23 14:38	1

Lab Sample ID: LCS 280-600046/21
Matrix: Water
Analysis Batch: 600046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	5.00	5.02		mg/L		100	90 - 110

Lab Sample ID: 280-171197-C-1 MS
Matrix: Water
Analysis Batch: 600046

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	ND		4.00	3.95		mg/L		99	90 - 110

Lab Sample ID: 280-171197-C-1 MSD
Matrix: Water
Analysis Batch: 600046

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	ND		4.00	3.96		mg/L		99	90 - 110	0	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-600262/4
Matrix: Water
Analysis Batch: 600262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			01/23/23 17:17	1

Lab Sample ID: LCS 280-600262/3
Matrix: Water
Analysis Batch: 600262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	25.1		mg/L		100	88 - 112

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 280-171058-5 MS
Matrix: Water
Analysis Batch: 600262

Client Sample ID: FB1052301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	ND		25.0	26.0		mg/L		104	88 - 112		

Lab Sample ID: 280-171058-5 MSD
Matrix: Water
Analysis Batch: 600262

Client Sample ID: FB1052301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	ND		25.0	26.2		mg/L		105	88 - 112	1	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-600277/1
Matrix: Water
Analysis Batch: 600277

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			01/24/23 15:30	1
Magnesium	0.000				meq/L			01/24/23 15:30	1
Potassium	0.000				meq/L			01/24/23 15:30	1
Sodium	0.000				meq/L			01/24/23 15:30	1
Ammonia as N	0.000				meq/L			01/24/23 15:30	1
Chloride	0.000				meq/L			01/24/23 15:30	1
Sulfate	0.000				meq/L			01/24/23 15:30	1
Alkalinity	0.000				mg/L			01/24/23 15:30	1
Bicarbonate Alkalinity	0.000				meq/L			01/24/23 15:30	1
Nitrate/Nitrite	0.000				meq/L			01/24/23 15:30	1
Iron	0.000				meq/L			01/24/23 15:30	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-599059/32
Matrix: Water
Analysis Batch: 599059

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			01/10/23 15:32	1

Lab Sample ID: 280-171058-2 DU
Matrix: Water
Analysis Batch: 599059

Client Sample ID: MW-14A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	120			123		mg/L				3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-599151/1
Matrix: Water
Analysis Batch: 599151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			01/11/23 14:12	1

Lab Sample ID: LCS 280-599151/2
Matrix: Water
Analysis Batch: 599151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			501	477		mg/L		95	88 - 114		

Lab Sample ID: LCSD 280-599151/3
Matrix: Water
Analysis Batch: 599151

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			501	494		mg/L		99	88 - 114	4	20

Lab Sample ID: 160-48484-B-2 DU
Matrix: Water
Analysis Batch: 599151

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	200			209		mg/L				3	10

GC/MS VOA

Analysis Batch: 598935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-1	TB01	Total/NA	Water	8260B	
280-171058-2	MW-14A	Total/NA	Water	8260B	
280-171058-3	DUP105231	Total/NA	Water	8260B	
280-171058-4	MW-15A	Total/NA	Water	8260B	
280-171058-5	FB1052301	Total/NA	Water	8260B	
MB 280-598935/7	Method Blank	Total/NA	Water	8260B	
LCS 280-598935/13	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-598935/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC Semi VOA

Analysis Batch: 598473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-1	TB01	Total/NA	Water	8011	598842
280-171058-2	MW-14A	Total/NA	Water	8011	598842
280-171058-3	DUP105231	Total/NA	Water	8011	598842
MB 280-598842/1-A	Method Blank	Total/NA	Water	8011	598842
LCS 280-598842/2-A	Lab Control Sample	Total/NA	Water	8011	598842
LCSD 280-598842/3-A	Lab Control Sample Dup	Total/NA	Water	8011	598842

Prep Batch: 598842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-1	TB01	Total/NA	Water	8011	
280-171058-2	MW-14A	Total/NA	Water	8011	
280-171058-3	DUP105231	Total/NA	Water	8011	
MB 280-598842/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-598842/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-598842/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 599266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-4	MW-15A	Total/NA	Water	8011	
280-171058-5	FB1052301	Total/NA	Water	8011	
MB 280-599266/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-599266/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-599266/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 599275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-4	MW-15A	Total/NA	Water	8011	599266
280-171058-5	FB1052301	Total/NA	Water	8011	599266
MB 280-599266/1-A	Method Blank	Total/NA	Water	8011	599266
LCS 280-599266/2-A	Lab Control Sample	Total/NA	Water	8011	599266
LCSD 280-599266/3-A	Lab Control Sample Dup	Total/NA	Water	8011	599266

Metals

Prep Batch: 599610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-2	MW-14A	Dissolved	Water	3005A	
280-171058-3	DUP105231	Dissolved	Water	3005A	
280-171058-4	MW-15A	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 599610 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-5	FB1052301	Dissolved	Water	3005A	
MB 280-599610/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-599610/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-171266-A-3-B MS	Matrix Spike	Dissolved	Water	3005A	
280-171266-A-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 599852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-2	MW-14A	Dissolved	Water	6010B	599610
280-171058-3	DUP105231	Dissolved	Water	6010B	599610
280-171058-4	MW-15A	Dissolved	Water	6010B	599610
280-171058-5	FB1052301	Dissolved	Water	6010B	599610
MB 280-599610/1-A	Method Blank	Total Recoverable	Water	6010B	599610
LCS 280-599610/2-A	Lab Control Sample	Total Recoverable	Water	6010B	599610
280-171266-A-3-B MS	Matrix Spike	Dissolved	Water	6010B	599610
280-171266-A-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	599610

Prep Batch: 600011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-5	FB1052301	Dissolved	Water	3005A	
MB 280-600011/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-600011/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 280-600011/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
280-170988-A-1-F MS	Matrix Spike	Dissolved	Water	3005A	
280-170988-A-1-G MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 600205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-5	FB1052301	Dissolved	Water	6010B	600011
MB 280-600011/1-A	Method Blank	Total Recoverable	Water	6010B	600011
LCS 280-600011/2-A	Lab Control Sample	Total Recoverable	Water	6010B	600011
LCSD 280-600011/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	600011
280-170988-A-1-F MS	Matrix Spike	Dissolved	Water	6010B	600011
280-170988-A-1-G MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	600011

General Chemistry

Analysis Batch: 599059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-2	MW-14A	Total/NA	Water	SM 2320B	
280-171058-3	DUP105231	Total/NA	Water	SM 2320B	
280-171058-4	MW-15A	Total/NA	Water	SM 2320B	
280-171058-5	FB1052301	Total/NA	Water	SM 2320B	
MB 280-599059/32	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-599059/31	Lab Control Sample	Total/NA	Water	SM 2320B	
280-171058-2 DU	MW-14A	Total/NA	Water	SM 2320B	

Analysis Batch: 599151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-2	MW-14A	Total/NA	Water	SM 2540C	
280-171058-3	DUP105231	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 599151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-4	MW-15A	Total/NA	Water	SM 2540C	
280-171058-5	FB1052301	Total/NA	Water	SM 2540C	
MB 280-599151/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-599151/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-599151/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
160-48484-B-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 599911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-2	MW-14A	Total/NA	Water	353.2	
280-171058-4	MW-15A	Total/NA	Water	353.2	
280-171058-5	FB1052301	Total/NA	Water	353.2	
MB 280-599911/60	Method Blank	Total/NA	Water	353.2	
LCS 280-599911/59	Lab Control Sample	Total/NA	Water	353.2	
280-171287-A-9 MS	Matrix Spike	Total/NA	Water	353.2	
280-171287-A-9 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 600046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-3	DUP105231	Total/NA	Water	353.2	
MB 280-600046/22	Method Blank	Total/NA	Water	353.2	
LCS 280-600046/21	Lab Control Sample	Total/NA	Water	353.2	
280-171197-C-1 MS	Matrix Spike	Total/NA	Water	353.2	
280-171197-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 600049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-2	MW-14A	Total/NA	Water	350.1	
280-171058-3	DUP105231	Total/NA	Water	350.1	
280-171058-4	MW-15A	Total/NA	Water	350.1	
280-171058-5	FB1052301	Total/NA	Water	350.1	
MB 280-600049/18	Method Blank	Total/NA	Water	350.1	
MB 280-600049/52	Method Blank	Total/NA	Water	350.1	
MB 280-600049/92	Method Blank	Total/NA	Water	350.1	
LCS 280-600049/17	Lab Control Sample	Total/NA	Water	350.1	
LCS 280-600049/51	Lab Control Sample	Total/NA	Water	350.1	
LCS 280-600049/91	Lab Control Sample	Total/NA	Water	350.1	
280-171058-2 MS	MW-14A	Total/NA	Water	350.1	
280-171058-2 MSD	MW-14A	Total/NA	Water	350.1	
280-171058-3 MS	DUP105231	Total/NA	Water	350.1	
280-171058-3 MSD	DUP105231	Total/NA	Water	350.1	
280-171058-4 MS	MW-15A	Total/NA	Water	350.1	
280-171058-4 MSD	MW-15A	Total/NA	Water	350.1	
280-171058-5 MS	FB1052301	Total/NA	Water	350.1	
280-171058-5 MSD	FB1052301	Total/NA	Water	350.1	

Analysis Batch: 600262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-2	MW-14A	Total/NA	Water	9060	
280-171058-3	DUP105231	Total/NA	Water	9060	
280-171058-4	MW-15A	Total/NA	Water	9060	

General Chemistry (Continued)

Analysis Batch: 600262 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-5	FB1052301	Total/NA	Water	9060	
MB 280-600262/4	Method Blank	Total/NA	Water	9060	
LCS 280-600262/3	Lab Control Sample	Total/NA	Water	9060	
280-171058-5 MS	FB1052301	Total/NA	Water	9060	
280-171058-5 MSD	FB1052301	Total/NA	Water	9060	

Analysis Batch: 600277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-2	MW-14A	Total/NA	Water	SM 1030E	
280-171058-2	MW-14A	Total/NA	Water	SM 1030E (meq)	
280-171058-3	DUP105231	Total/NA	Water	SM 1030E	
280-171058-3	DUP105231	Total/NA	Water	SM 1030E (meq)	
280-171058-4	MW-15A	Total/NA	Water	SM 1030E	
280-171058-4	MW-15A	Total/NA	Water	SM 1030E (meq)	
280-171058-5	FB1052301	Total/NA	Water	SM 1030E	
280-171058-5	FB1052301	Total/NA	Water	SM 1030E (meq)	
MB 280-600277/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 655693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-2	MW-14A	Total/NA	Water	300.0	
280-171058-3	DUP105231	Total/NA	Water	300.0	
280-171058-4	MW-15A	Total/NA	Water	300.0	
280-171058-5	FB1052301	Total/NA	Water	300.0	
MB 480-655693/4	Method Blank	Total/NA	Water	300.0	
LCS 480-655693/5	Lab Control Sample	Total/NA	Water	300.0	
480-205184-J-2 MS	Matrix Spike	Total/NA	Water	300.0	
480-205184-J-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 656128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-4	MW-15A	Total/NA	Water	300.0	
MB 480-656128/4	Method Blank	Total/NA	Water	300.0	
LCS 480-656128/5	Lab Control Sample	Total/NA	Water	300.0	
480-205442-C-3 MS	Matrix Spike	Total/NA	Water	300.0	
480-205442-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 599943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171058-2	MW-14A	Total/NA	Water	Field Sampling	
280-171058-3	DUP105231	Total/NA	Water	Field Sampling	
280-171058-4	MW-15A	Total/NA	Water	Field Sampling	

Client Sample ID: TB01
Date Collected: 01/05/23 08:00
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	598935	01/10/23 11:08	CKL	EET DEN
Total/NA	Prep	8011			34.8 mL	35 mL	598842	01/09/23 10:23	ECM	EET DEN
Total/NA	Analysis	8011		1			598473	01/10/23 03:42	ECM	EET DEN

Client Sample ID: MW-14A
Date Collected: 01/05/23 11:50
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	598935	01/10/23 11:52	CKL	EET DEN
Total/NA	Prep	8011			35.3 mL	35 mL	598842	01/09/23 10:23	ECM	EET DEN
Total/NA	Analysis	8011		1			598473	01/10/23 04:07	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	599610	01/18/23 08:28	KMS	EET DEN
Dissolved	Analysis	6010B		1			599852	01/19/23 01:34	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	655693	01/11/23 18:23	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	600049	01/20/23 12:08	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	599911	01/19/23 13:57	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	600262	01/23/23 18:33	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			600277	01/24/23 15:30	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			600277	01/24/23 15:30	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			599059	01/10/23 15:38	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	599151	01/11/23 14:13	MCR	EET DEN
Total/NA	Analysis	Field Sampling		1			599943	01/05/23 12:50	TJ	EET DEN

Client Sample ID: DUP105231
Date Collected: 01/05/23 11:55
Date Received: 01/06/23 09:20

Lab Sample ID: 280-171058-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	598935	01/10/23 12:14	CKL	EET DEN
Total/NA	Prep	8011			35.6 mL	35 mL	598842	01/09/23 10:23	ECM	EET DEN
Total/NA	Analysis	8011		1			598473	01/10/23 04:31	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	599610	01/18/23 08:28	KMS	EET DEN
Dissolved	Analysis	6010B		1			599852	01/19/23 01:39	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	655693	01/11/23 18:43	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	600049	01/20/23 13:39	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	600046	01/20/23 14:46	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	600262	01/23/23 18:48	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			600277	01/24/23 15:30	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			600277	01/24/23 15:30	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			599059	01/10/23 15:50	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	599151	01/11/23 14:13	MCR	EET DEN
Total/NA	Analysis	Field Sampling		1			599943	01/05/23 12:55	TJ	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-171058-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: MW-15A
Lab Sample ID: 280-171058-4
Date Collected: 01/05/23 13:20
Matrix: Water
Date Received: 01/06/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	598935	01/10/23 12:36	CKL	EET DEN
Total/NA	Prep	8011			34.8 mL	35 mL	599266	01/12/23 12:56	SMQ	EET DEN
Total/NA	Analysis	8011		1			599275	01/12/23 18:03	SMQ	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	599610	01/18/23 08:28	KMS	EET DEN
Dissolved	Analysis	6010B		1			599852	01/19/23 02:57	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	655693	01/11/23 19:03	IMZ	EET BUF
Total/NA	Analysis	300.0		1	1 mL	1 mL	656128	01/16/23 20:11	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	600049	01/20/23 14:36	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	599911	01/19/23 14:01	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	600262	01/23/23 19:32	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			600277	01/24/23 15:30	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			600277	01/24/23 15:30	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			599059	01/10/23 15:55	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	599151	01/11/23 14:13	MCR	EET DEN
Total/NA	Analysis	Field Sampling		1			599943	01/05/23 14:20	TJ	EET DEN

Client Sample ID: FB1052301
Lab Sample ID: 280-171058-5
Date Collected: 01/05/23 13:25
Matrix: Water
Date Received: 01/06/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	598935	01/10/23 11:30	CKL	EET DEN
Total/NA	Prep	8011			35.2 mL	35 mL	599266	01/12/23 12:56	SMQ	EET DEN
Total/NA	Analysis	8011		1			599275	01/12/23 18:28	SMQ	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	599610	01/18/23 08:28	KMS	EET DEN
Dissolved	Analysis	6010B		1			599852	01/19/23 01:43	KRP	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	600011	01/23/23 08:50	MSM	EET DEN
Dissolved	Analysis	6010B		1			600205	01/23/23 18:03	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	655693	01/11/23 21:00	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	600049	01/20/23 15:26	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	599911	01/19/23 14:03	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	600262	01/23/23 17:46	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			600277	01/24/23 15:30	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			600277	01/24/23 15:30	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			599059	01/10/23 16:00	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	599151	01/11/23 14:13	MCR	EET DEN

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: EDAN TAYLOR	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-124177-865.1
Client Contact:	Phone: (503) 502 7027	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 1 of 1
Company: Waste Management	PWSID:			Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786- Semiannual Compliance Wells - Apr Oct			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540/350.1- TDS/Alk	6010B- Dissolved Metals (FF)	Ammonia/TOC/NO3+NO2	8260B- VOCs	8011- EDB/DBCP	Cation/Anion Balance	300.0- Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	R		N		
TB01	1/5/23	0800	G	W						X	X			2	4
MW-14A	1/5/23	1150	G	W	X		X	X	X	X	X	X	X	11	
Dup 125231	1/5/23	1155	G	W	X		X	X	X	X	X	X	X	11	
MW-15A	1/5/23	1320	G	W	X		X	X	X	X	X	X	X	11	
FB10523 01	1/5/23	1325	G	W	X		X	X	X	X	X	X	X	11	

280-171058 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
EDAN TAYLOR	1/5/23 @ 1600	S&S		1/6/23 0900	ET/EDEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.1 | 1.1 | CF0.0

Ver: 01/16/2019

3/3/2023

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-14A

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		(RAIN)		?		**TEMPERATURE:**	(°F) 53.	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
1/5/23	11:06	23.60	.	7.55	.	16.05	X 1	2.61
/ /	:	.	.	.	.		X 3	7.83

Gal/ft = (dia./2)^2 x 0.163	1" =	0.041	(2") =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) **Sample Depth:** [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	1/5/23	11:50	F	3	40 ml	HCl	YES	NO		
VOA Glass	1/5/23	11:50	F	3	40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	1/5/23	11:50	F	2	(250), 500, (1L)	None	YES	NO	NA	
Yellow Glass	1/5/23	11:50	F	2	(250), 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	1/5/23	11:50	F	1	250, (500), 1L	HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: 11:06 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	FC(1110)	0.00	5.77	257.3	317.7	10.4	7.55	4.86	clear / colorless
1	FC(1171)	2.65	5.84	257.6	318.1	10.4	7.49	5.13	C/C
2	FC(1133)	5.30	5.90	260.8	316.7	10.5	7.51	4.79	C/C
3	FC(1147)	7.85	5.90	260.9	310.4	10.5	7.51	4.82	C/C
4	FC(1149)	7.90	5.90	260.9	308.6	10.5	7.51	4.83	C/C
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

C/C: clear / colorless TSS Standard Purge (11/9/20 psi) w 600 mL/min

SAMPLER: EDAN TAYLOR
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** Dup 105231

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?				

TEMPERATURE: (053) . °F / °C [Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
1/5/23	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	1/5/23	11 : 55	F	3	40 ml HCl	YES	NO		
VOA Glass	1/5/23	11 : 55	F	3	40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	1/5/23	11 : 55	F	2	(250) 500, (1L) None	YES	NO	NA	
Yellow Glass	1/5/23	11 : 55	F	2	(250), 500, 1L H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	1/5/23	11 : 55	F	1	(250), 500, 1L HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260) (8011) OR [X] WA [ ]
	AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
	YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
	RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
	WHITE - Poly	(Orthophosphate)
	Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0		0.00	.			.	.	.	
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected at MW-14A

SAMPLER: Eden Taylor (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-15A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	LIGHT	(MEDIUM)	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)			?	**TEMPERATURE:**	°F 52.	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
1/5/23	12:40	24.00	.	8.17	.	15.83	X 1	2.58
/ /	:	.	.	.	.		X 3	7.74

Gal/ft = (dia /2)² x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	1/5/23	13:20	F	3	40 ml	HCl	YES	NO		
VOA Glass	1/5/23	13:20	F	3	40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	1/5/23	13:20	F	2	(250), 500, (1L)	None	YES	NO	NA	
Yellow Glass	1/5/23	13:20	F	2	(250), 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	1/5/23	13:20	F	1	(250) 500, 1L	HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (C)	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1240)	0.00	6.13	263.3	179.6	13.6	8.16	9.39	Cl/B Cloudy
1	F(1251)	2.60	6.12	265.2	174.5	13.2	14.93	9.05	cloudy / tan
2	F(1302)	5.30	6.07	263.1	171.2	13.4	15.41	8.01	slight cloudy / tan
3	F(1314)	7.80	6.07	262.9	167.8	13.4	16.48	8.05	(cloudy / tan)
4	F(1316)	8.10	6.07	262.6	167.4	13.4	16.71	8.06	Cloudy / tan
5	F(1318)	8.35	6.07	262.4	167.1	13.4	17.32	8.08	Cloudy / tan
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Standard Purge Method (11/4/25 psi) ~1L/min

SAMPLER: E. Taylor (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** FB 105230

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	LIGHT	(MEDIUM)	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	(°F) 52 .	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW [Product Thickness]	DTB-DTW [Water Column]		Volume (gal) [Water Column x Gal/ft]
1/5/23	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth:

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	[√ if used] √
VOA Glass	1/5/23	13:25	F	3	40 ml HCl	YES	NO		
VOA Glass	1/5/23	13:25	F	3	40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	1/5/23	13:25	F	2	(250) 500 (1L) None	YES	NO	NA	
Yellow Glass	1/5/23	13:25	F	2	250 (500) 1L H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	1/5/23	13:25	F	1	(250) 500, 1L HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO$_4$) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0		0.00	.			.	.	.	
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Taken near MW-15A using lab-supplied DI water

SAMPLER: E. TAYLOR (PRINTED NAME) (SIGNATURE)

503-
eurofins
Environment Test
TestAmerica
2061919
ACTWGT: 57.00 LB
CAD: SSFE2341
DIMS: 27x13x12 IN
TO SAMPLE RECEIVING
EUROFINS DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
(US)
REF:
INV:
PO:
DEPT:
FedEx
Express
FRI - 06 JAN 10:30A
PRIORITY OVERNIGHT
TRK# 0667 8172 5305 0413
XA LAAA
80002
CO-US DEN

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-14A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	(°F) 53.	° C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
1/5/23	11:06	23.60	.	7.55	.	16.05	X 1	2.41
/ /	:	.	.	.	.		X 3	7.83

Gal/ft = (dia./2)² x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	1/5/23	11:50	F	3	40 ml HCl	YES	NO		
VOA Glass	1/5/23	11:50	F	3	40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	1/5/23	11:50	F	2	(250), 500, (1L) None	YES	NO	NA	
Yellow Glass	1/5/23	11:50	F	2	(250), 500, 1L H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	1/5/23	11:50	F	1	250, (500), 1L HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 | 11 | Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: 11:06 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1110)	0.00	5.77	257.3	317.7	10.4	7.55	4.86	clear / colorless
1	F(1121)	2.65	5.84	257.6	318.1	10.4	7.49	5.13	C/C
2	F(1133)	5.30	5.90	260.2	316.7	10.5	7.51	4.79	C/C
3	F(1147)	7.85	5.90	260.9	310.4	10.5	7.51	4.82	C/C
4	F(1149)	7.90	5.90	260.9	308.6	10.5	7.51	4.83	C/C
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

C/C: clear / colorless Standard Purge (11/4/20 psi) w 600 mL/min

SAMPLER: EDAN TAYLOR
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** Dup 105231
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	(°F) 63 .	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
1/5/23	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	1/5/23	11 : 55	F	3	40 ml HCl	YES	NO		
VOA Glass	1/5/23	11 : 55	F	3	40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	1/5/23	11 : 55	F	2	(250), 500, (1L) None	YES	NO	NA	
Yellow Glass	1/5/23	11 : 55	F	2	(250), 500, 1L H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	1/5/23	11 : 55	F	1	(250), 500, 1L HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0		0.00	.			.	.	.	
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected at MW-14A

SAMPLER: Eden Taylor (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-15A
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	LIGHT	(MEDIUM)	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	°F 52.	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
1/5/23	12:40	24.00	.	8.17	.	15.83	X 1	2.58
/ /	:	.	.	.	.		X 3	7.74

Gal/ft = (dia./2)² x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	1/5/23	13:20	F	3	40 ml	HCl	YES	NO		
VOA Glass	1/5/23	13:20	F	3	40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	1/5/23	13:20	F	2	(250), 500, 1L	None	YES	NO	NA	
Yellow Glass	1/5/23	13:20	F	2	(250), 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	1/5/23	13:20	F	1	(250) 500, 1L	HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1240)	0.00	6.13	263.3	179.0	13.6	8.16	9.39	Clr Cloudy
1	F(1251)	2.60	6.12	265.2	174.5	13.2	14.93	9.05	cloudy / tan
2	F(1302)	5.30	6.09	263.1	171.2	13.4	15.41	8.91	Slt Cloudy / tan
3	F(1314)	7.80	6.07	262.9	167.8	13.4	16.48	8.95	cloudy tan
4	F(1316)	8.10	6.07	262.9	167.4	13.4	16.71	8.96	Cloudy / tan
5	F(1318)	8.35	6.07	262.4	167.1	13.4	17.32	8.98	Cloudy / tan
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Standard Purge Method (11/9/25 psi) ~1L/min

SAMPLER: E. Taylor (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** FB 105230

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	(NE)	E	SE	S	SW	W	NW	LIGHT	(MEDIUM)	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		**TEMPERATURE:**	(°F) 52 .	° C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
1/5/23	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume		Preservative	Ice	Filter	pH	√
VOA Glass	1/5/23	13:25	F	3	40 ml	HCl	YES	NO		
VOA Glass	1/5/23	13:25	F	3	40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
White Poly	1/5/23	13:25	F	2	(250), 500, (1L)	None	YES	NO	NA	
Yellow Glass	1/5/23	13:25	F	2	250, (500), 1L	H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	1/5/23	13:25	F	1	(250), 500, 1L	HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 11 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [X] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0		0.00	.			.	.	.	
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Taken near MW-16A using lab-supplied DI water

SAMPLER: E. TAYLOR (PRINTED NAME) (SIGNATURE)

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-641889.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-171058-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 1/26/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-14A (280-171058-2)	1/5/23	11:50 Pacific		Water			X	1	
DUP105231 (280-171058-3)	1/5/23	11:55 Pacific		Water			X	1	
MW-15A (280-171058-4)	1/5/23	13:20 Pacific		Water			X	1	
FB1052301 (280-171058-5)	1/5/23	13:25 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 1-9-23 15:[illegible]	Company: ETNE	Received by: [signature] Date/Time: 1/10/23 1000 Company: TA
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4# ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-171058-1

Login Number: 171058
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-171058-1

Login Number: 171058
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 01/10/23 01:07 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4 IR GUN #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

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JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Compliance Wells - Apr Oct

JOB NUMBER

280-171441-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

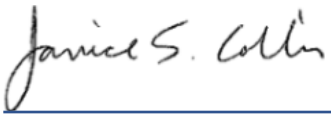
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-171441-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-171441-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-171441-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

RECEIPT
The samples were received on 01/17/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.2 C.

DISSOLVED METALS
Samples FB0113231 (280-171441-1), MW-12A (280-171441-2) and DUP0113231 (280-171441-3) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 01/23/2023 and analyzed on 01/23/2023 and 01/26/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS
Samples FB0113231 (280-171441-1), MW-12A (280-171441-2) and DUP0113231 (280-171441-3) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 01/19/2023.

Total Dissolved Solids exceeded the RPD limit for the duplicate of sample 280-171270-6.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)
Samples FB0113231 (280-171441-1), MW-12A (280-171441-2) and DUP0113231 (280-171441-3) were analyzed for anions (28 days) in accordance with EPA Method 300.0 (28 Days). The samples were analyzed on 02/01/2023 and 02/06/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FIELD SAMPLING
Samples MW-12A (280-171441-2) and DUP0113231 (280-171441-3) were analyzed for Field Sampling in accordance with NA. The samples were analyzed on 01/13/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GENERAL COMMENTS

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the

Job ID: 280-171441-1 (Continued)

Laboratory: Eurofins Denver (Continued)

PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-171441-1

Client Sample ID: FB0113231 — Lab Sample ID: 280-171441-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	1300		1000		ug/L	1		6010B	Dissolved

Client Sample ID: MW-12A — Lab Sample ID: 280-171441-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	11000		200		ug/L	1		6010B	Dissolved
Sodium	29000		1000		ug/L	1		6010B	Dissolved
Chloride	50		0.50		mg/L	1		300.0	Total/NA
Total Dissolved Solids	220		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.17				SU	1		Field Sampling	Total/NA
Field Conductivity	374.4				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.1				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	4.25				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	182.8				millivolts	1		Field Sampling	Total/NA

Client Sample ID: DUP0113231 — Lab Sample ID: 280-171441-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	10000		200		ug/L	1		6010B	Dissolved
Sodium	29000		1000		ug/L	1		6010B	Dissolved
Chloride	52		0.50		mg/L	1		300.0	Total/NA
Total Dissolved Solids	220		10		mg/L	1		SM 2540C	Total/NA
Field pH	6.17				SU	1		Field Sampling	Total/NA
Field Conductivity	374.4				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.1				Degrees C	1		Field Sampling	Total/NA
Field Dissolved Oxygen	4.25				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	182.8				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-171441-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-171441-1	FB0113231	Water	01/13/23 12:50	01/17/23 09:15
280-171441-2	MW-12A	Water	01/13/23 13:45	01/17/23 09:15
280-171441-3	DUP0113231	Water	01/13/23 13:50	01/17/23 09:15

Method Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-171441-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client Sample ID: FB0113231

Lab Sample ID: 280-171441-1

Date Collected: 01/13/23 12:50

Matrix: Water

Date Received: 01/17/23 09:15

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		200		ug/L		01/23/23 08:50	01/23/23 18:24	1
Sodium	**1300**		1000		ug/L		01/23/23 08:50	01/26/23 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		0.50		mg/L			02/01/23 17:57	1
Total Dissolved Solids (SM 2540C)	ND		10		mg/L			01/19/23 14:30	1

Client Sample ID: MW-12A

Lab Sample ID: 280-171441-2

Date Collected: 01/13/23 13:45

Matrix: Water

Date Received: 01/17/23 09:15

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**11000**		200		ug/L		01/23/23 08:50	01/26/23 19:09	1
Sodium	**29000**		1000		ug/L		01/23/23 08:50	01/26/23 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**50**		0.50		mg/L			02/06/23 18:03	1
Total Dissolved Solids (SM 2540C)	**220**		10		mg/L			01/19/23 14:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.17**				SU			01/13/23 14:45	1
Field Conductivity	**374.4**				umhos/cm			01/13/23 14:45	1
Field Temperature	**11.1**				Degrees C			01/13/23 14:45	1
Field Dissolved Oxygen	**4.25**				mg/L			01/13/23 14:45	1
Field EH/ORP	**182.8**				millivolts			01/13/23 14:45	1

Client Sample ID: DUP0113231

Lab Sample ID: 280-171441-3

Date Collected: 01/13/23 13:50

Matrix: Water

Date Received: 01/17/23 09:15

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**10000**		200		ug/L		01/23/23 08:50	01/23/23 18:32	1
Sodium	**29000**		1000		ug/L		01/23/23 08:50	01/26/23 19:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**52**		0.50		mg/L			02/01/23 19:22	1
Total Dissolved Solids (SM 2540C)	**220**		10		mg/L			01/19/23 14:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.17**				SU			01/13/23 14:50	1
Field Conductivity	**374.4**				umhos/cm			01/13/23 14:50	1
Field Temperature	**11.1**				Degrees C			01/13/23 14:50	1
Field Dissolved Oxygen	**4.25**				mg/L			01/13/23 14:50	1
Field EH/ORP	**182.8**				millivolts			01/13/23 14:50	1

Method: 6010B - Metals (ICP)

Lab Sample ID: 160-48458-A-3-H MS
Matrix: Water
Analysis Batch: 600205

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 600011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	25000		50000	76900		ug/L		103	62 - 146

Lab Sample ID: 160-48458-A-3-H MS
Matrix: Water
Analysis Batch: 600367

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 600011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	6300		50000	56700		ug/L		101	70 - 203

Lab Sample ID: 160-48458-A-3-I MSD
Matrix: Water
Analysis Batch: 600205

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 600011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	25000		50000	75800		ug/L		101	62 - 146	2	20

Lab Sample ID: 160-48458-A-3-I MSD
Matrix: Water
Analysis Batch: 600367

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 600011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	6300		50000	55500		ug/L		98	70 - 203	2	20

Lab Sample ID: MB 280-600011/1-A
Matrix: Water
Analysis Batch: 600205

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 600011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		200		ug/L		01/23/23 08:50	01/23/23 16:32	1

Lab Sample ID: MB 280-600011/1-A
Matrix: Water
Analysis Batch: 600367

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 600011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1000		ug/L		01/23/23 08:50	01/24/23 20:27	1

Lab Sample ID: LCS 280-600011/2-A
Matrix: Water
Analysis Batch: 600205

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 600011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	50000	50600		ug/L		101	90 - 113

Lab Sample ID: LCS 280-600011/2-A
Matrix: Water
Analysis Batch: 600367

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 600011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	50000	49400		ug/L		99	90 - 115

Method: 6010B - Metals (ICP)

Lab Sample ID: LCSD 280-600011/3-A
Matrix: Water
Analysis Batch: 600205

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 600011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	50000	51100		ug/L		102	90 - 113	1	20

Lab Sample ID: LCSD 280-600011/3-A
Matrix: Water
Analysis Batch: 600367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 600011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	50000	49800		ug/L		100	90 - 115	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-657590/4
Matrix: Water
Analysis Batch: 657590

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			02/01/23 16:32	1

Lab Sample ID: LCS 480-657590/5
Matrix: Water
Analysis Batch: 657590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.1		mg/L		98	90 - 110

Lab Sample ID: 480-205701-N-1 MS
Matrix: Water
Analysis Batch: 657590

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.2		50.1	49.4		mg/L		96	81 - 120

Lab Sample ID: MB 480-657973/4
Matrix: Water
Analysis Batch: 657973

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			02/06/23 17:25	1

Lab Sample ID: LCS 480-657973/5
Matrix: Water
Analysis Batch: 657973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	48.8		mg/L		97	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-205798-J-2 MS
Matrix: Water
Analysis Batch: 657973

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	56		251	290		mg/L		94	81 - 120		

Lab Sample ID: 480-205798-J-2 MSD
Matrix: Water
Analysis Batch: 657973

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	56		251	290		mg/L		93	81 - 120	0	15

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-599908/1
Matrix: Water
Analysis Batch: 599908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			01/19/23 14:30	1

Lab Sample ID: LCS 280-599908/2
Matrix: Water
Analysis Batch: 599908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			501	482		mg/L		96	88 - 114		

Lab Sample ID: 280-171270-F-6 DU
Matrix: Water
Analysis Batch: 599908

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	34000	E		4970	E F3	mg/L				149	10

Metals

Prep Batch: 600011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171441-1	FB0113231	Dissolved	Water	3005A	
280-171441-2	MW-12A	Dissolved	Water	3005A	
280-171441-3	DUP0113231	Dissolved	Water	3005A	
MB 280-600011/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-600011/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 280-600011/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
160-48458-A-3-H MS	Matrix Spike	Total/NA	Water	3005A	
160-48458-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Analysis Batch: 600205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171441-1	FB0113231	Dissolved	Water	6010B	600011
280-171441-3	DUP0113231	Dissolved	Water	6010B	600011
MB 280-600011/1-A	Method Blank	Total Recoverable	Water	6010B	600011
LCS 280-600011/2-A	Lab Control Sample	Total Recoverable	Water	6010B	600011
LCSD 280-600011/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	600011
160-48458-A-3-H MS	Matrix Spike	Total/NA	Water	6010B	600011
160-48458-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	600011

Analysis Batch: 600367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-600011/1-A	Method Blank	Total Recoverable	Water	6010B	600011
LCS 280-600011/2-A	Lab Control Sample	Total Recoverable	Water	6010B	600011
LCSD 280-600011/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	600011
160-48458-A-3-H MS	Matrix Spike	Total/NA	Water	6010B	600011
160-48458-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	600011

Analysis Batch: 600586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171441-1	FB0113231	Dissolved	Water	6010B	600011
280-171441-2	MW-12A	Dissolved	Water	6010B	600011
280-171441-3	DUP0113231	Dissolved	Water	6010B	600011

General Chemistry

Analysis Batch: 599908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171441-1	FB0113231	Total/NA	Water	SM 2540C	
280-171441-2	MW-12A	Total/NA	Water	SM 2540C	
280-171441-3	DUP0113231	Total/NA	Water	SM 2540C	
MB 280-599908/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-599908/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-171270-F-6 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 657590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171441-1	FB0113231	Total/NA	Water	300.0	
280-171441-3	DUP0113231	Total/NA	Water	300.0	
MB 480-657590/4	Method Blank	Total/NA	Water	300.0	
LCS 480-657590/5	Lab Control Sample	Total/NA	Water	300.0	
480-205701-N-1 MS	Matrix Spike	Total/NA	Water	300.0	

QC Association Summary

Client: Waste Management
Job ID: 280-171441-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

General Chemistry

Analysis Batch: 657973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171441-2	MW-12A	Total/NA	Water	300.0	
MB 480-657973/4	Method Blank	Total/NA	Water	300.0	
LCS 480-657973/5	Lab Control Sample	Total/NA	Water	300.0	
480-205798-J-2 MS	Matrix Spike	Total/NA	Water	300.0	
480-205798-J-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 599703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-171441-2	MW-12A	Total/NA	Water	Field Sampling	
280-171441-3	DUP0113231	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 280-171441-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: FB0113231
Lab Sample ID: 280-171441-1
Date Collected: 01/13/23 12:50
Matrix: Water
Date Received: 01/17/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	600011	01/23/23 08:50	MSM	EET DEN
Dissolved	Analysis	6010B		1			600586	01/26/23 18:49	KRP	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	600011	01/23/23 08:50	MSM	EET DEN
Dissolved	Analysis	6010B		1			600205	01/23/23 18:24	KRP	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	657590	02/01/23 17:57	IMZ	EET BUF
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	599908	01/19/23 14:30	MCR	EET DEN

Client Sample ID: MW-12A
Lab Sample ID: 280-171441-2
Date Collected: 01/13/23 13:45
Matrix: Water
Date Received: 01/17/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	600011	01/23/23 08:50	MSM	EET DEN
Dissolved	Analysis	6010B		1			600586	01/26/23 19:09	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	657973	02/06/23 18:03	IMZ	EET BUF
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	599908	01/19/23 14:30	MCR	EET DEN
Total/NA	Analysis	Field Sampling		1			599703	01/13/23 14:45	TJ	EET DEN

Client Sample ID: DUP0113231
Lab Sample ID: 280-171441-3
Date Collected: 01/13/23 13:50
Matrix: Water
Date Received: 01/17/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	600011	01/23/23 08:50	MSM	EET DEN
Dissolved	Analysis	6010B		1			600586	01/26/23 19:14	KRP	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	600011	01/23/23 08:50	MSM	EET DEN
Dissolved	Analysis	6010B		1			600205	01/23/23 18:32	KRP	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	657590	02/01/23 19:22	IMZ	EET BUF
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	599908	01/19/23 14:30	MCR	EET DEN
Total/NA	Analysis	Field Sampling		1			599703	01/13/23 14:50	TJ	EET DEN

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: B. Rupuzo	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-124177-865.1
Client Contact:	Phone: (503) 718-4568	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page:
Company: Waste Management	PWSID:	Analysis Requested		Job #:
Address: 13469 SW Highway 18	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128	Compliance Project: Δ Yes Δ No			Other:
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786- Semiannual Compliance Wells - Apr Oct			
Site: Oregon	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B - Dissolved Metals (FF)	Ammonia/TOC/NO3+NO2	8260B - VOCs	8011 - EDB/DBCP	Cation/Anion Balance	300.0 - Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	D	S	A	R	N		
FB0113231	1/13/23	1250	G	W	Y		1	X				X	2	
MW-12A	1/13/23	1345	G	W	Y		1	X				X	2	
DUP0113231	1/13/23	1350	G	W	Y		1	X				X	2	
														1L unpreserved poly provided for TDS/chloride
														Dissolved metals analyzed for Mg, Na

TDS-2540 (See Instructions)

280-171441 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/16/2023 1630	SCS		1/17/23 0915	ETADEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2 IR12 CF0.0

Ver: 01/16/2019

2/15/2023

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** MW-12A

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	NE	E	SE	(S)	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY	(CLOUDY)	RAIN	?					**TEMPERATURE:**	(F) 54 .	°C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness] [Water Column] [Circle appropriate units] X5 - Water Column x Gal/ft

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
1/13/23	11:30	27.60	.	5.70	.	21.90	X 1	3.56
/ /	:	.	.	.	.		X 3	10.70

Gal/ft = (dia./2)^2 x 0.163 | 1" = 0.041 | (2") = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	/ /	:		40 ml	HCl	YES	NO		
VOA Glass	/ /	:		40 ml	$Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
White Poly	1/13/23	13:45	F	1	250, 500, (1L)	(None)	YES	(NO)	NA	
Yellow Glass	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	1/13/23	13:45	F	1	250, (500), 1L	HNO_3	(YES)	(YES)		
White Poly	/ /	:			250, 500, 1L	None	YES	YES		
Clear Poly	/ /	:			100, 250, 500	$Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA

Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1141)	0.00	5.37	140.0	465.7	10.7	6.10	6.16	clear/colorless
1	F(1204)	3.56	6.09	146.0	387.0	10.9	6.42	5.54	c/c
2	F(1226)	7.10	6.13	157.5	383.1	11.0	6.50	4.99	c/c
3	F(1247)	10.70	6.15	167.5	374.3	11.0	6.50	4.96	c/c
4	F(1310)	14.30	6.16	173.6	377.4	11.0	6.52	4.97	c/c
5	F(1350)	17.80	6.18	181.0	379.8	11.1	6.52	4.96	c/c
6	F(1532)	18.00	6.17	182.8	~~394.4~~ 374.4	11.1	6.52	4.95	c/c

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

20/10/20 psi ~ 500 mV/mi

SAMPLER: B. Rapoza (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS
15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** DUP0113231
SITE ADDRESS: McMinnville , Oregon **BLIND ID:**
DUP ID: NA

WIND FROM:	N	NE	E	SE	(S)	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	(CLOUDY)	RAIN	?					**TEMPERATURE:**	(°F) 54 .	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	(2") = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	/ /	:			40 ml HCl	YES	NO		
VOA Glass	/ /	:			40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	1/13/23	13:50	F	1	250, 500, (1L) None	(YES)	(NO)	NA	
Yellow Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	1/13/23	13:50	F	1	250, 500, 1L HNO_3	(YES)	(YES)		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 2 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica T.) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E. Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	F(1350)	0.00	.				.	.	
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected @ MW-12A

SAMPLER: B. Rogers (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

15490 SW 72nd Avenue
Portland, OR 97224
Office: 503.639.9201 Fax: 503.684.6948

PROJECT NAME: Riverbend Landfill **WELL ID:** FB0113231

SITE ADDRESS: McMinnville , Oregon **BLIND ID:**

DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN		?				**TEMPERATURE:**	52 .	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)^2 x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = BR

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume	Preservative	Ice	Filter	pH	√
VOA Glass	/ /	:			40 ml HCl	YES	NO		
VOA Glass	/ /	:			40 ml $Na_2S_2O_3$	YES	NO		
Amber Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
White Poly	1/13/23	12 : 50	6	1	250, 500, 1L None	YES	NO	NA	
Yellow Glass	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	1/13/23	12 : 50	6	1	250, 500, 1L HNO_3	YES	YES		
White Poly	/ /	:			250, 500, 1L None	YES	YES		
Clear Poly	/ /	:			100, 250, 500 $Na_2S_2O_3$	YES	NO		

White no acid, Yellow H2SO4, Red HNO3 — 7 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T) (NO3) (BOD)
YELLOW - Glass	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin) (TKN) (Total Phos) (TOX)
RED TOTAL - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na) (Si) (As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
WHITE - Poly	(Orthophosphate)
Clear - Poly	(E Coli) (Coliform) (Fecal Coliform)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	6 (1250)	0.00							
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected near MW-12A

SAMPLER: B. Rapp 20 (PRINTED NAME) (SIGNATURE)

280-171441 Waybill

ORIGIN ID:BNOA

SHIP DATE: 16JAN23
ACTWGT: 41.25 LB
CAD: /SSFE2341
DIMS: 21x14x14 IN

TO SAMPLE RECEIVING
EUROFINS DENVER
4955 YARROW ST

urofins
Environment Testing
TestAmerica

ARVADA CO 80002
(303) 736-0100

1583531

(US)

INV:
PO:

REF:

DEPT:

Part # 156299-[illegible] REV [illegible] EXP 11/23

FedEx
Express

TRK# 0667 8172 4920 5755

TUE - 17 JAN 10:30A
PRIORITY OVERNIGHT

XA LAAA

80002
CO-US DEN

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-642763.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-171441-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 2/6/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ (MOD) 300.0, Sulfate and Chloride (TA Bu	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FB0113231 (280-171441-1)	1/13/23	12:50 Pacific		Water			X	1	
MW-12A (280-171441-2)	1/13/23	13:45 Pacific		Water			X	1	
DUP0113231 (280-171441-3)	1/13/23	13:50 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 1-19-23 16:35	Company ETAREN	Received by: Date/Time: 1-20-23 1060 Company TAB
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.2 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-171441-1

Login Number: 171441
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-171441-1

Login Number: 171441
List Number: 2
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 01/20/23 10:29 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Fall 2022

Detection Groundwater

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Generated 1/9/2023 11:04:59 AM

JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Detection Wells - Apr Oct

JOB NUMBER

280-169302-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

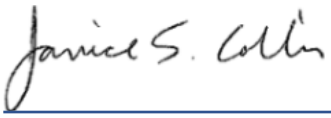
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169302-1

Qualifiers

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-169302-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-169302-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

RECEIPT

The samples were received on 11/17/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 0.4°C, 0.8°C and 1.7°C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples TRIP BLANK (280-169302-1), MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/29/2022.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-594854 were outside control limits for 1,1,2,2-Tetrachloroethane. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

1,2-DIBROMOETHANE, 1,2-DIBROMO-3-CHLOROPROPANE, AND 1,2,3-TRICHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY

Samples TRIP BLANK (280-169302-1), MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, and 1,2,3-trichloropropane by microextraction and gas chromatography in accordance with EPA SW-846 Method 8011. The samples were prepared and analyzed on 11/18/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS

Samples MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/01/2022 and analyzed on 12/02/2022.

Iron was detected in method blank MB 280-594876/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY

Samples MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 11/21/2022.

Job ID: 280-169302-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS
Samples MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 11/21/2022 and 11/22/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)
Samples MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for anions (28 days) in accordance with EPA Method 300.0 (28 Days). The samples were analyzed on 12/02/2022 and 12/03/2022.

Chloride failed the recovery criteria low for the MS/MSD of sample 480-204056-2 in batch 480-651985.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AMMONIA
Samples MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 12/07/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN
Samples MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 12/01/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Samples MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 12/05/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE
Samples MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for Cation Anion Balance in accordance with epa methodologies. The samples were analyzed on 12/09/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE
Samples MW-20A (280-169302-2) and FB11162201 (280-169302-3) were analyzed for Cation Anion Balance in accordance with Cation Anion Balance. The samples were analyzed on 12/09/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GENERAL COMMENTS

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169302-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-169302-1

No Detections.

Client Sample ID: MW-20A — Lab Sample ID: 280-169302-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	91000		500		ug/L	1		6010B	Dissolved
Iron	2100	B	30		ug/L	1		6010B	Dissolved
Magnesium	34000		200		ug/L	1		6010B	Dissolved
Manganese	2400		3.0		ug/L	1		6010B	Dissolved
Sodium	30000		1000		ug/L	1		6010B	Dissolved
Chloride	170		0.50		mg/L	1		300.0	Total/NA
Sulfate	4.9		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.19		0.030		mg/L	1		350.1	Total/NA
Total Organic Carbon - Average	1.5		1.0		mg/L	1		9060	Total/NA
Total Anions	8.9				meq/L	1		SM 1030E	Total/NA
Total Cations	8.8				meq/L	1		SM 1030E	Total/NA
Percent Difference	-0.70				%	1		SM 1030E	Total/NA
Calcium	91				mg/L	1		SM 1030E	Total/NA
Magnesium	34				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	30				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.19				mg/L	1		SM 1030E	Total/NA
Chloride	170				mg/L	1		SM 1030E	Total/NA
Sulfate	4.9				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	200				mg/L	1		SM 1030E	Total/NA
Alkalinity	200				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-0.70				%	1		SM 1030E	Total/NA
Calculated TDS	450				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	520				mg/L	1		SM 1030E	Total/NA
Iron	2.1				mg/L	1		SM 1030E	Total/NA
Calcium	4.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	2.8				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	1.3				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.014				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	4.8				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.10				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	200				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	4.0				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.11				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	200		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	520		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB11162201 — Lab Sample ID: 280-169302-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Total Anions	0.00				meq/L	1		SM 1030E	Total/NA
Total Cations	0.00				meq/L	1		SM 1030E	Total/NA
Percent Difference	NC				%	1		SM 1030E	Total/NA
Calcium	0.00				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169302-1

Client Sample ID: FB11162201 (Continued)

Lab Sample ID: 280-169302-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Magnesium	0.00				mg/L	1		SM 1030E	Total/NA
Potassium	0.00				mg/L	1		SM 1030E	Total/NA
Sodium	0.00				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.00				mg/L	1		SM 1030E	Total/NA
Chloride	0.00				mg/L	1		SM 1030E	Total/NA
Sulfate	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	NC				%	1		SM 1030E	Total/NA
Calculated TDS	0.00				mg/L	1		SM 1030E	Total/NA
TDS Ratio	NC				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	0.00				mg/L	1		SM 1030E	Total/NA
Iron	0.00				mg/L	1		SM 1030E	Total/NA
Calcium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	0.00				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.00				meq/L	1		SM 1030E (meq)	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-169302-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-169302-1	TRIP BLANK	Water	11/16/22 07:00	11/17/22 10:30
280-169302-2	MW-20A	Water	11/16/22 10:40	11/17/22 10:30
280-169302-3	FB11162201	Water	11/16/22 10:50	11/17/22 10:30

Method Summary

Client: Waste Management
Job ID: 280-169302-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	MCAWW	EET BUF
350.1	Nitrogen, Ammonia	MCAWW	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169302-1

Client Sample ID: TRIP BLANK
Date Collected: 11/16/22 07:00
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169302-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/29/22 11:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/29/22 11:01	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/29/22 11:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/29/22 11:01	1
1,1-Dichloroethane	ND		1.0		ug/L			11/29/22 11:01	1
1,1-Dichloroethene	ND		1.0		ug/L			11/29/22 11:01	1
1,1-Dichloropropene	ND		1.0		ug/L			11/29/22 11:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/29/22 11:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/29/22 11:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/29/22 11:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/29/22 11:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/29/22 11:01	1
1,2-Dichloroethane	ND		1.0		ug/L			11/29/22 11:01	1
1,2-Dichloropropane	ND		1.0		ug/L			11/29/22 11:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/29/22 11:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/29/22 11:01	1
1,3-Dichloropropane	ND		1.0		ug/L			11/29/22 11:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/29/22 11:01	1
2,2-Dichloropropane	ND		5.0		ug/L			11/29/22 11:01	1
2-Butanone (MEK)	ND		6.0		ug/L			11/29/22 11:01	1
2-Chlorotoluene	ND		1.0		ug/L			11/29/22 11:01	1
2-Hexanone	ND		5.0		ug/L			11/29/22 11:01	1
4-Chlorotoluene	ND		1.0		ug/L			11/29/22 11:01	1
4-Isopropyltoluene	ND		1.0		ug/L			11/29/22 11:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/29/22 11:01	1
Acetone	ND		10		ug/L			11/29/22 11:01	1
Benzene	ND		1.0		ug/L			11/29/22 11:01	1
Bromobenzene	ND		1.0		ug/L			11/29/22 11:01	1
Bromochloromethane	ND		1.0		ug/L			11/29/22 11:01	1
Bromodichloromethane	ND		1.0		ug/L			11/29/22 11:01	1
Bromoform	ND		1.2		ug/L			11/29/22 11:01	1
Bromomethane	ND		2.4		ug/L			11/29/22 11:01	1
Carbon disulfide	ND		2.0		ug/L			11/29/22 11:01	1
Carbon tetrachloride	ND		1.0		ug/L			11/29/22 11:01	1
Chlorobenzene	ND		1.0		ug/L			11/29/22 11:01	1
Chloroethane	ND		2.0		ug/L			11/29/22 11:01	1
Chloroform	ND		1.0		ug/L			11/29/22 11:01	1
Chloromethane	ND		2.0		ug/L			11/29/22 11:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/29/22 11:01	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/29/22 11:01	1
Dibromochloromethane	ND		1.0		ug/L			11/29/22 11:01	1
Dibromomethane	ND		1.0		ug/L			11/29/22 11:01	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/29/22 11:01	1
Ethylbenzene	ND		1.0		ug/L			11/29/22 11:01	1
Hexachlorobutadiene	ND		1.2		ug/L			11/29/22 11:01	1
Isopropylbenzene	ND		1.0		ug/L			11/29/22 11:01	1
Methylene Chloride	ND		5.0		ug/L			11/29/22 11:01	1
Naphthalene	ND		1.0		ug/L			11/29/22 11:01	1
n-Butylbenzene	ND		1.0		ug/L			11/29/22 11:01	1

Client Sample ID: TRIP BLANK

Date Collected: 11/16/22 07:00
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169302-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			11/29/22 11:01	1
sec-Butylbenzene	ND		1.0		ug/L			11/29/22 11:01	1
Styrene	ND		1.0		ug/L			11/29/22 11:01	1
tert-Butylbenzene	ND		1.0		ug/L			11/29/22 11:01	1
Tetrachloroethene	ND		1.0		ug/L			11/29/22 11:01	1
Toluene	ND		1.0		ug/L			11/29/22 11:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/29/22 11:01	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/29/22 11:01	1
Trichloroethene	ND		1.0		ug/L			11/29/22 11:01	1
Trichlorofluoromethane	ND		2.0		ug/L			11/29/22 11:01	1
Vinyl chloride	ND		1.0		ug/L			11/29/22 11:01	1
Xylenes (total)	ND		2.0		ug/L			11/29/22 11:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*25*	*T J*	*ug/L*		*1.59*			*11/29/22 11:01*	*1*
Unknown	*7.0*	*T J*	*ug/L*		*2.26*			*11/29/22 11:01*	*1*
Unknown	*7.6*	*T J*	*ug/L*		*2.40*			*11/29/22 11:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 127*		*11/29/22 11:01*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*11/29/22 11:01*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*11/29/22 11:01*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*11/29/22 11:01*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/18/22 11:37	11/18/22 22:25	1
1,2-Dibromoethane	ND		0.050		ug/L		11/18/22 11:37	11/18/22 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*115*		*70 - 130*	*11/18/22 11:37*	*11/18/22 22:25*	*1*

Client Sample ID: MW-20A

Date Collected: 11/16/22 10:40
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169302-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/29/22 12:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/29/22 12:07	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/29/22 12:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/29/22 12:07	1
1,1-Dichloroethane	ND		1.0		ug/L			11/29/22 12:07	1
1,1-Dichloroethene	ND		1.0		ug/L			11/29/22 12:07	1
1,1-Dichloropropene	ND		1.0		ug/L			11/29/22 12:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/29/22 12:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/29/22 12:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/29/22 12:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/29/22 12:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/29/22 12:07	1
1,2-Dichloroethane	ND		1.0		ug/L			11/29/22 12:07	1

Client Sample ID: MW-20A
Date Collected: 11/16/22 10:40
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169302-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0		ug/L			11/29/22 12:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/29/22 12:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/29/22 12:07	1
1,3-Dichloropropane	ND		1.0		ug/L			11/29/22 12:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/29/22 12:07	1
2,2-Dichloropropane	ND		5.0		ug/L			11/29/22 12:07	1
2-Butanone (MEK)	ND		6.0		ug/L			11/29/22 12:07	1
2-Chlorotoluene	ND		1.0		ug/L			11/29/22 12:07	1
2-Hexanone	ND		5.0		ug/L			11/29/22 12:07	1
4-Chlorotoluene	ND		1.0		ug/L			11/29/22 12:07	1
4-Isopropyltoluene	ND		1.0		ug/L			11/29/22 12:07	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/29/22 12:07	1
Acetone	ND		10		ug/L			11/29/22 12:07	1
Benzene	ND		1.0		ug/L			11/29/22 12:07	1
Bromobenzene	ND		1.0		ug/L			11/29/22 12:07	1
Bromochloromethane	ND		1.0		ug/L			11/29/22 12:07	1
Bromodichloromethane	ND		1.0		ug/L			11/29/22 12:07	1
Bromoform	ND		1.2		ug/L			11/29/22 12:07	1
Bromomethane	ND		2.4		ug/L			11/29/22 12:07	1
Carbon disulfide	ND		2.0		ug/L			11/29/22 12:07	1
Carbon tetrachloride	ND		1.0		ug/L			11/29/22 12:07	1
Chlorobenzene	ND		1.0		ug/L			11/29/22 12:07	1
Chloroethane	ND		2.0		ug/L			11/29/22 12:07	1
Chloroform	ND		1.0		ug/L			11/29/22 12:07	1
Chloromethane	ND		2.0		ug/L			11/29/22 12:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/29/22 12:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/29/22 12:07	1
Dibromochloromethane	ND		1.0		ug/L			11/29/22 12:07	1
Dibromomethane	ND		1.0		ug/L			11/29/22 12:07	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/29/22 12:07	1
Ethylbenzene	ND		1.0		ug/L			11/29/22 12:07	1
Hexachlorobutadiene	ND		1.2		ug/L			11/29/22 12:07	1
Isopropylbenzene	ND		1.0		ug/L			11/29/22 12:07	1
Methylene Chloride	ND		5.0		ug/L			11/29/22 12:07	1
Naphthalene	ND		1.0		ug/L			11/29/22 12:07	1
n-Butylbenzene	ND		1.0		ug/L			11/29/22 12:07	1
N-Propylbenzene	ND		1.0		ug/L			11/29/22 12:07	1
sec-Butylbenzene	ND		1.0		ug/L			11/29/22 12:07	1
Styrene	ND		1.0		ug/L			11/29/22 12:07	1
tert-Butylbenzene	ND		1.0		ug/L			11/29/22 12:07	1
Tetrachloroethene	ND		1.0		ug/L			11/29/22 12:07	1
Toluene	ND		1.0		ug/L			11/29/22 12:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/29/22 12:07	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/29/22 12:07	1
Trichloroethene	ND		1.0		ug/L			11/29/22 12:07	1
Trichlorofluoromethane	ND		2.0		ug/L			11/29/22 12:07	1
Vinyl chloride	ND		1.0		ug/L			11/29/22 12:07	1
Xylenes (total)	ND		2.0		ug/L			11/29/22 12:07	1

Client Sample ID: MW-20A

Date Collected: 11/16/22 10:40
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169302-2

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	38	T J	ug/L		1.59			11/29/22 12:07	1
Unknown	7.3	T J	ug/L		2.29			11/29/22 12:07	1
Unknown	8.2	T J	ug/L		2.40			11/29/22 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 127		11/29/22 12:07	1
4-Bromofluorobenzene (Surr)	101		78 - 120		11/29/22 12:07	1
Dibromofluoromethane (Surr)	99		77 - 120		11/29/22 12:07	1
Toluene-d8 (Surr)	99		80 - 125		11/29/22 12:07	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/18/22 11:37	11/18/22 22:49	1
1,2-Dibromoethane	ND		0.050		ug/L		11/18/22 11:37	11/18/22 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	119		70 - 130	11/18/22 11:37	11/18/22 22:49	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	91000		500		ug/L		12/01/22 09:30	12/02/22 03:37	1
Iron	2100	B	30		ug/L		12/01/22 09:30	12/02/22 03:37	1
Magnesium	34000		200		ug/L		12/01/22 09:30	12/02/22 03:37	1
Manganese	2400		3.0		ug/L		12/01/22 09:30	12/02/22 03:37	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 03:37	1
Sodium	30000		1000		ug/L		12/01/22 09:30	12/02/22 03:37	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	8.9				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	8.8				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	-0.70				%			12/09/22 13:24	1
Calcium (SM 1030E)	91				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	34				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	30				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	0.19				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	170				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	4.9				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E)	200				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	200				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	-0.70				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	450				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	1.2				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	520				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	2.1				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	4.5				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	2.8				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	1.3				meq/L			12/09/22 13:24	1

Client Sample ID: MW-20A

Date Collected: 11/16/22 10:40
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169302-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (SM 1030E (meq))	0.014				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	4.8				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	0.10				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	200				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E (meq))	4.0				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	0.11				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	170		0.50		mg/L			12/02/22 23:33	1
Sulfate (MCAWW 300.0)	4.9		1.0		mg/L			12/02/22 23:33	1
Ammonia as N (MCAWW 350.1)	0.19		0.030		mg/L			12/07/22 12:04	1
Nitrate/Nitrite (MCAWW 353.2)	ND		0.050		mg/L			12/01/22 14:59	1
Total Organic Carbon - Average (SW846 9060)	1.5		1.0		mg/L			12/05/22 20:09	1
Bicarbonate Alkalinity (SM 2320B)	200		10		mg/L			11/21/22 21:33	1
Total Dissolved Solids (SM 2540C)	520		10		mg/L			11/21/22 12:27	1

Client Sample ID: FB11162201

Date Collected: 11/16/22 10:50
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169302-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/29/22 11:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/29/22 11:23	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/29/22 11:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/29/22 11:23	1
1,1-Dichloroethane	ND		1.0		ug/L			11/29/22 11:23	1
1,1-Dichloroethene	ND		1.0		ug/L			11/29/22 11:23	1
1,1-Dichloropropene	ND		1.0		ug/L			11/29/22 11:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/29/22 11:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/29/22 11:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/29/22 11:23	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/29/22 11:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/29/22 11:23	1
1,2-Dichloroethane	ND		1.0		ug/L			11/29/22 11:23	1
1,2-Dichloropropane	ND		1.0		ug/L			11/29/22 11:23	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/29/22 11:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/29/22 11:23	1
1,3-Dichloropropane	ND		1.0		ug/L			11/29/22 11:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/29/22 11:23	1
2,2-Dichloropropane	ND		5.0		ug/L			11/29/22 11:23	1
2-Butanone (MEK)	ND		6.0		ug/L			11/29/22 11:23	1
2-Chlorotoluene	ND		1.0		ug/L			11/29/22 11:23	1
2-Hexanone	ND		5.0		ug/L			11/29/22 11:23	1
4-Chlorotoluene	ND		1.0		ug/L			11/29/22 11:23	1
4-Isopropyltoluene	ND		1.0		ug/L			11/29/22 11:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/29/22 11:23	1
Acetone	ND		10		ug/L			11/29/22 11:23	1

Client Sample ID: FB11162201
Date Collected: 11/16/22 10:50
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169302-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			11/29/22 11:23	1
Bromobenzene	ND		1.0		ug/L			11/29/22 11:23	1
Bromochloromethane	ND		1.0		ug/L			11/29/22 11:23	1
Bromodichloromethane	ND		1.0		ug/L			11/29/22 11:23	1
Bromoform	ND		1.2		ug/L			11/29/22 11:23	1
Bromomethane	ND		2.4		ug/L			11/29/22 11:23	1
Carbon disulfide	ND		2.0		ug/L			11/29/22 11:23	1
Carbon tetrachloride	ND		1.0		ug/L			11/29/22 11:23	1
Chlorobenzene	ND		1.0		ug/L			11/29/22 11:23	1
Chloroethane	ND		2.0		ug/L			11/29/22 11:23	1
Chloroform	ND		1.0		ug/L			11/29/22 11:23	1
Chloromethane	ND		2.0		ug/L			11/29/22 11:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/29/22 11:23	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/29/22 11:23	1
Dibromochloromethane	ND		1.0		ug/L			11/29/22 11:23	1
Dibromomethane	ND		1.0		ug/L			11/29/22 11:23	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/29/22 11:23	1
Ethylbenzene	ND		1.0		ug/L			11/29/22 11:23	1
Hexachlorobutadiene	ND		1.2		ug/L			11/29/22 11:23	1
Isopropylbenzene	ND		1.0		ug/L			11/29/22 11:23	1
Methylene Chloride	ND		5.0		ug/L			11/29/22 11:23	1
Naphthalene	ND		1.0		ug/L			11/29/22 11:23	1
n-Butylbenzene	ND		1.0		ug/L			11/29/22 11:23	1
N-Propylbenzene	ND		1.0		ug/L			11/29/22 11:23	1
sec-Butylbenzene	ND		1.0		ug/L			11/29/22 11:23	1
Styrene	ND		1.0		ug/L			11/29/22 11:23	1
tert-Butylbenzene	ND		1.0		ug/L			11/29/22 11:23	1
Tetrachloroethene	ND		1.0		ug/L			11/29/22 11:23	1
Toluene	ND		1.0		ug/L			11/29/22 11:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/29/22 11:23	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/29/22 11:23	1
Trichloroethene	ND		1.0		ug/L			11/29/22 11:23	1
Trichlorofluoromethane	ND		2.0		ug/L			11/29/22 11:23	1
Vinyl chloride	ND		1.0		ug/L			11/29/22 11:23	1
Xylenes (total)	ND		2.0		ug/L			11/29/22 11:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*24*	*T J*	*ug/L*		*1.59*			*11/29/22 11:23*	*1*
Unknown	*5.9*	*T J*	*ug/L*		*2.26*			*11/29/22 11:23*	*1*
Unknown	*7.8*	*T J*	*ug/L*		*2.40*			*11/29/22 11:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 127*		*11/29/22 11:23*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*11/29/22 11:23*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*11/29/22 11:23*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*11/29/22 11:23*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/18/22 11:37	11/18/22 23:13	1

Client Sample ID: FB11162201

Date Collected: 11/16/22 10:50
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169302-3

Matrix: Water

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/L		11/18/22 11:37	11/18/22 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*117*		*70 - 130*	*11/18/22 11:37*	*11/18/22 23:13*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		12/01/22 09:30	12/02/22 03:57	1
Iron	ND		30		ug/L		12/01/22 09:30	12/02/22 03:57	1
Magnesium	ND		200		ug/L		12/01/22 09:30	12/02/22 03:57	1
Manganese	ND		3.0		ug/L		12/01/22 09:30	12/02/22 03:57	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 03:57	1
Sodium	ND		1000		ug/L		12/01/22 09:30	12/02/22 03:57	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**0.00**				meq/L			12/09/22 13:24	1
Total Cations (SM 1030E)	**0.00**				meq/L			12/09/22 13:24	1
Percent Difference (SM 1030E)	**NC**				%			12/09/22 13:24	1
Calcium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Magnesium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Potassium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Sodium (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Ammonia as N (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Chloride (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Sulfate (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Alkalinity (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Anion/Cation Balance (SM 1030E)	**NC**				%			12/09/22 13:24	1
Calculated TDS (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
TDS Ratio (SM 1030E)	**NC**				NONE			12/09/22 13:24	1
Total Dissolved Solids (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Iron (SM 1030E)	**0.00**				mg/L			12/09/22 13:24	1
Calcium (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Magnesium (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Potassium (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Sodium (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Ammonia as N (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Chloride (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Sulfate (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Alkalinity (SM 1030E (meq))	**0.00**				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Nitrate/Nitrite (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1
Iron (SM 1030E (meq))	**0.00**				meq/L			12/09/22 13:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	ND		0.50		mg/L			12/03/22 01:30	1
Sulfate (MCAWW 300.0)	ND		1.0		mg/L			12/03/22 01:30	1
Ammonia as N (MCAWW 350.1)	ND		0.030		mg/L			12/07/22 12:07	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169302-1

Client Sample ID: FB11162201
Date Collected: 11/16/22 10:50
Date Received: 11/17/22 10:30

Lab Sample ID: 280-169302-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite (MCAWW 353.2)	ND		0.050		mg/L			12/01/22 15:01	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			12/05/22 20:23	1
Bicarbonate Alkalinity (SM 2320B)	ND		10		mg/L			11/21/22 21:39	1
Total Dissolved Solids (SM 2540C)	ND		10		mg/L			11/22/22 11:19	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169302-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-169302-1	TRIP BLANK	108	101	96	99
280-169302-2	MW-20A	111	101	99	99
280-169302-3	FB11162201	110	102	96	96
LCS 280-594854/1002	Lab Control Sample	105	100	96	98
LCSD 280-594854/4	Lab Control Sample Dup	104	101	90	96
MB 280-594854/7	Method Blank	110	97	98	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-169302-1	TRIP BLANK	115
280-169302-2	MW-20A	119
280-169302-3	FB11162201	117
LCS 280-594044/2-A	Lab Control Sample	121
LCSD 280-594044/3-A	Lab Control Sample Dup	121
MB 280-594044/1-A	Method Blank	123

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-594854/7
Matrix: Water
Analysis Batch: 594854

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/29/22 10:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/29/22 10:36	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/29/22 10:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/29/22 10:36	1
1,1-Dichloroethane	ND		1.0		ug/L			11/29/22 10:36	1
1,1-Dichloroethene	ND		1.0		ug/L			11/29/22 10:36	1
1,1-Dichloropropene	ND		1.0		ug/L			11/29/22 10:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/29/22 10:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/29/22 10:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/29/22 10:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/29/22 10:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/29/22 10:36	1
1,2-Dichloroethane	ND		1.0		ug/L			11/29/22 10:36	1
1,2-Dichloropropane	ND		1.0		ug/L			11/29/22 10:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/29/22 10:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/29/22 10:36	1
1,3-Dichloropropane	ND		1.0		ug/L			11/29/22 10:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/29/22 10:36	1
2,2-Dichloropropane	ND		5.0		ug/L			11/29/22 10:36	1
2-Butanone (MEK)	ND		6.0		ug/L			11/29/22 10:36	1
2-Chlorotoluene	ND		1.0		ug/L			11/29/22 10:36	1
2-Hexanone	ND		5.0		ug/L			11/29/22 10:36	1
4-Chlorotoluene	ND		1.0		ug/L			11/29/22 10:36	1
4-Isopropyltoluene	ND		1.0		ug/L			11/29/22 10:36	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/29/22 10:36	1
Acetone	ND		10		ug/L			11/29/22 10:36	1
Benzene	ND		1.0		ug/L			11/29/22 10:36	1
Bromobenzene	ND		1.0		ug/L			11/29/22 10:36	1
Bromochloromethane	ND		1.0		ug/L			11/29/22 10:36	1
Bromodichloromethane	ND		1.0		ug/L			11/29/22 10:36	1
Bromoform	ND		1.2		ug/L			11/29/22 10:36	1
Bromomethane	ND		2.4		ug/L			11/29/22 10:36	1
Carbon disulfide	ND		2.0		ug/L			11/29/22 10:36	1
Carbon tetrachloride	ND		1.0		ug/L			11/29/22 10:36	1
Chlorobenzene	ND		1.0		ug/L			11/29/22 10:36	1
Chloroethane	ND		2.0		ug/L			11/29/22 10:36	1
Chloroform	ND		1.0		ug/L			11/29/22 10:36	1
Chloromethane	ND		2.0		ug/L			11/29/22 10:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/29/22 10:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/29/22 10:36	1
Dibromochloromethane	ND		1.0		ug/L			11/29/22 10:36	1
Dibromomethane	ND		1.0		ug/L			11/29/22 10:36	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/29/22 10:36	1
Ethylbenzene	ND		1.0		ug/L			11/29/22 10:36	1
Hexachlorobutadiene	ND		1.2		ug/L			11/29/22 10:36	1
Isopropylbenzene	ND		1.0		ug/L			11/29/22 10:36	1
Methylene Chloride	ND		5.0		ug/L			11/29/22 10:36	1
Naphthalene	ND		1.0		ug/L			11/29/22 10:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-594854/7
Matrix: Water
Analysis Batch: 594854

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			11/29/22 10:36	1
N-Propylbenzene	ND		1.0		ug/L			11/29/22 10:36	1
sec-Butylbenzene	ND		1.0		ug/L			11/29/22 10:36	1
Styrene	ND		1.0		ug/L			11/29/22 10:36	1
tert-Butylbenzene	ND		1.0		ug/L			11/29/22 10:36	1
Tetrachloroethene	ND		1.0		ug/L			11/29/22 10:36	1
Toluene	ND		1.0		ug/L			11/29/22 10:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/29/22 10:36	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/29/22 10:36	1
Trichloroethene	ND		1.0		ug/L			11/29/22 10:36	1
Trichlorofluoromethane	ND		2.0		ug/L			11/29/22 10:36	1
Vinyl chloride	ND		1.0		ug/L			11/29/22 10:36	1
Xylenes (total)	ND		2.0		ug/L			11/29/22 10:36	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/29/22 10:36*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 127*		*11/29/22 10:36*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*11/29/22 10:36*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*11/29/22 10:36*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*11/29/22 10:36*	*1*

Lab Sample ID: LCS 280-594854/1002
Matrix: Water
Analysis Batch: 594854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	52.5		ug/L		105	74 - 121
1,1,1-Trichloroethane	50.0	47.4		ug/L		95	62 - 132
1,1,2,2-Tetrachloroethane	50.0	58.3		ug/L		117	72 - 122
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	72 - 128
1,1-Dichloroethane	50.0	52.3		ug/L		105	66 - 130
1,1-Dichloroethene	50.0	43.4		ug/L		87	62 - 130
1,1-Dichloropropene	50.0	46.5		ug/L		93	64 - 133
1,2,3-Trichlorobenzene	50.0	44.7		ug/L		89	70 - 127
1,2,3-Trichloropropane	50.0	55.7		ug/L		111	74 - 123
1,2,4-Trichlorobenzene	50.0	43.4		ug/L		87	73 - 124
1,2,4-Trimethylbenzene	50.0	48.7		ug/L		97	74 - 124
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	77 - 121
1,2-Dichloroethane	50.0	56.4		ug/L		113	61 - 130
1,2-Dichloropropane	50.0	50.1		ug/L		100	68 - 127
1,3,5-Trimethylbenzene	50.0	47.9		ug/L		96	73 - 127
1,3-Dichlorobenzene	50.0	49.5		ug/L		99	76 - 121
1,3-Dichloropropane	50.0	52.6		ug/L		105	80 - 118
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	76 - 119
2,2-Dichloropropane	50.0	49.4		ug/L		99	57 - 140
2-Butanone (MEK)	200	241		ug/L		120	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-594854/1002
Matrix: Water
Analysis Batch: 594854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	50.0	45.4		ug/L		91	75 - 123
2-Hexanone	200	241		ug/L		121	58 - 134
4-Chlorotoluene	50.0	47.8		ug/L		96	74 - 124
4-Isopropyltoluene	50.0	45.3		ug/L		91	74 - 127
4-Methyl-2-pentanone	200	238		ug/L		119	56 - 135
Acetone	200	251		ug/L		126	50 - 137
Benzene	50.0	47.7		ug/L		95	69 - 126
Bromobenzene	50.0	48.0		ug/L		96	75 - 122
Bromochloromethane	50.0	51.7		ug/L		103	71 - 130
Bromodichloromethane	50.0	49.5		ug/L		99	67 - 126
Bromoform	50.0	54.8		ug/L		110	57 - 125
Bromomethane	50.0	57.3		ug/L		115	25 - 163
Carbon disulfide	50.0	46.3		ug/L		93	56 - 128
Carbon tetrachloride	50.0	47.4		ug/L		95	60 - 133
Chlorobenzene	50.0	46.5		ug/L		93	78 - 118
Chloroethane	50.0	57.5		ug/L		115	52 - 144
Chloroform	50.0	48.1		ug/L		96	68 - 128
Chloromethane	50.0	44.0		ug/L		88	43 - 142
cis-1,2-Dichloroethene	50.0	45.8		ug/L		92	69 - 126
cis-1,3-Dichloropropene	50.0	52.8		ug/L		106	75 - 120
Dibromochloromethane	50.0	55.8		ug/L		112	71 - 122
Dibromomethane	50.0	51.0		ug/L		102	68 - 129
Dichlorodifluoromethane	50.0	47.8		ug/L		96	26 - 152
Ethylbenzene	50.0	44.9		ug/L		90	76 - 121
Hexachlorobutadiene	50.0	40.7		ug/L		81	69 - 133
Isopropylbenzene	50.0	47.0		ug/L		94	70 - 127
Methylene Chloride	50.0	52.9		ug/L		106	64 - 128
Naphthalene	50.0	46.5		ug/L		93	63 - 129
n-Butylbenzene	50.0	46.4		ug/L		93	69 - 130
N-Propylbenzene	50.0	46.5		ug/L		93	73 - 127
sec-Butylbenzene	50.0	44.3		ug/L		89	72 - 127
Styrene	50.0	46.7		ug/L		93	79 - 120
tert-Butylbenzene	50.0	47.1		ug/L		94	72 - 126
Tetrachloroethene	50.0	44.1		ug/L		88	72 - 127
Toluene	50.0	44.2		ug/L		88	68 - 127
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	66 - 129
trans-1,3-Dichloropropene	50.0	55.1		ug/L		110	66 - 127
Trichloroethene	50.0	47.1		ug/L		94	70 - 125
Trichlorofluoromethane	50.0	55.3		ug/L		111	57 - 144
Vinyl chloride	50.0	50.1		ug/L		100	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Dibromofluoromethane (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-594854/4
Matrix: Water
Analysis Batch: 594854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	56.1		ug/L		112	74 - 121	7	20
1,1,1-Trichloroethane			50.0	47.8		ug/L		96	62 - 132	1	20
1,1,2,2-Tetrachloroethane			50.0	60.7		ug/L		121	72 - 122	4	20
1,1,2-Trichloroethane			50.0	53.9		ug/L		108	72 - 128	4	20
1,1-Dichloroethane			50.0	51.0		ug/L		102	66 - 130	3	20
1,1-Dichloroethene			50.0	44.1		ug/L		88	62 - 130	2	21
1,1-Dichloropropene			50.0	48.3		ug/L		97	64 - 133	4	20
1,2,3-Trichlorobenzene			50.0	49.8		ug/L		100	70 - 127	11	20
1,2,3-Trichloropropane			50.0	58.4		ug/L		117	74 - 123	5	20
1,2,4-Trichlorobenzene			50.0	47.2		ug/L		94	73 - 124	8	20
1,2,4-Trimethylbenzene			50.0	51.3		ug/L		103	74 - 124	5	20
1,2-Dichlorobenzene			50.0	49.6		ug/L		99	77 - 121	3	20
1,2-Dichloroethane			50.0	54.6		ug/L		109	61 - 130	3	20
1,2-Dichloropropane			50.0	49.4		ug/L		99	68 - 127	1	20
1,3,5-Trimethylbenzene			50.0	51.7		ug/L		103	73 - 127	8	20
1,3-Dichlorobenzene			50.0	50.6		ug/L		101	76 - 121	2	20
1,3-Dichloropropane			50.0	52.3		ug/L		105	80 - 118	1	20
1,4-Dichlorobenzene			50.0	51.5		ug/L		103	76 - 119	4	20
2,2-Dichloropropane			50.0	53.0		ug/L		106	57 - 140	7	22
2-Butanone (MEK)			200	264		ug/L		132	53 - 135	9	20
2-Chlorotoluene			50.0	50.2		ug/L		100	75 - 123	10	20
2-Hexanone			200	266		ug/L		133	58 - 134	10	21
4-Chlorotoluene			50.0	52.1		ug/L		104	74 - 124	9	20
4-Isopropyltoluene			50.0	49.5		ug/L		99	74 - 127	9	20
4-Methyl-2-pentanone			200	265		ug/L		133	56 - 135	11	20
Acetone			200	244		ug/L		122	50 - 137	3	21
Benzene			50.0	48.7		ug/L		97	69 - 126	2	20
Bromobenzene			50.0	48.7		ug/L		97	75 - 122	1	20
Bromochloromethane			50.0	52.8		ug/L		106	71 - 130	2	20
Bromodichloromethane			50.0	49.2		ug/L		98	67 - 126	0	20
Bromoform			50.0	53.6		ug/L		107	57 - 125	2	20
Bromomethane			50.0	53.9		ug/L		108	25 - 163	6	40
Carbon disulfide			50.0	47.5		ug/L		95	56 - 128	3	20
Carbon tetrachloride			50.0	49.3		ug/L		99	60 - 133	4	20
Chlorobenzene			50.0	48.4		ug/L		97	78 - 118	4	20
Chloroethane			50.0	52.8		ug/L		106	52 - 144	9	30
Chloroform			50.0	46.0		ug/L		92	68 - 128	4	20
Chloromethane			50.0	40.1		ug/L		80	43 - 142	9	20
cis-1,2-Dichloroethene			50.0	44.6		ug/L		89	69 - 126	3	20
cis-1,3-Dichloropropene			50.0	53.1		ug/L		106	75 - 120	1	20
Dibromochloromethane			50.0	52.8		ug/L		106	71 - 122	6	20
Dibromomethane			50.0	48.5		ug/L		97	68 - 129	5	20
Dichlorodifluoromethane			50.0	42.9		ug/L		86	26 - 152	11	21
Ethylbenzene			50.0	48.0		ug/L		96	76 - 121	7	20
Hexachlorobutadiene			50.0	45.4		ug/L		91	69 - 133	11	20
Isopropylbenzene			50.0	51.0		ug/L		102	70 - 127	8	20
Methylene Chloride			50.0	49.5		ug/L		99	64 - 128	7	20
Naphthalene			50.0	49.5		ug/L		99	63 - 129	6	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-594854/4
Matrix: Water
Analysis Batch: 594854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene			50.0	49.6		ug/L		99	69 - 130	7	20
N-Propylbenzene			50.0	50.9		ug/L		102	73 - 127	9	20
sec-Butylbenzene			50.0	49.1		ug/L		98	72 - 127	10	20
Styrene			50.0	47.8		ug/L		96	79 - 120	2	20
tert-Butylbenzene			50.0	49.8		ug/L		100	72 - 126	6	20
Tetrachloroethene			50.0	48.7		ug/L		97	72 - 127	10	20
Toluene			50.0	46.4		ug/L		93	68 - 127	5	20
trans-1,2-Dichloroethene			50.0	50.0		ug/L		100	66 - 129	4	20
trans-1,3-Dichloropropene			50.0	54.9		ug/L		110	66 - 127	0	20
Trichloroethene			50.0	48.8		ug/L		98	70 - 125	4	20
Trichlorofluoromethane			50.0	51.2		ug/L		102	57 - 144	8	28
Vinyl chloride			50.0	45.2		ug/L		90	53 - 141	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*
Dibromofluoromethane (Surr)	*90*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-594044/1-A
Matrix: Water
Analysis Batch: 594074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/18/22 11:37	11/18/22 15:58	1
1,2-Dibromoethane	ND		0.050		ug/L		11/18/22 11:37	11/18/22 15:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*123*		*70 - 130*	*11/18/22 11:37*	*11/18/22 15:58*	*1*

Lab Sample ID: LCS 280-594044/2-A
Matrix: Water
Analysis Batch: 594074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594044

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane			0.250	0.246		ug/L		98	60 - 140
1,2-Dibromoethane			0.250	0.235		ug/L		94	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*121*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 280-594044/3-A
Matrix: Water
Analysis Batch: 594074

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 594044

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.257		ug/L		103	60 - 140	4	10
1,2-Dibromoethane			0.250	0.244		ug/L		97	60 - 140	4	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*121*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-594876/1-A
Matrix: Water
Analysis Batch: 595413

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		12/01/22 09:30	12/02/22 03:29	1
Iron	41.6		30		ug/L		12/01/22 09:30	12/02/22 03:29	1
Magnesium	ND		200		ug/L		12/01/22 09:30	12/02/22 03:29	1
Manganese	ND		3.0		ug/L		12/01/22 09:30	12/02/22 03:29	1
Potassium	ND		500		ug/L		12/01/22 09:30	12/02/22 03:29	1
Sodium	ND		1000		ug/L		12/01/22 09:30	12/02/22 03:29	1

Lab Sample ID: LCS 280-594876/2-A
Matrix: Water
Analysis Batch: 595413

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594876

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50000	51000		ug/L		102	90 - 111		
Iron			10000	10500		ug/L		105	89 - 115		
Magnesium			50000	51300		ug/L		103	90 - 113		
Manganese			1000	1040		ug/L		104	90 - 110		
Potassium			50000	49100		ug/L		98	89 - 114		
Sodium			50000	48100		ug/L		96	90 - 115		

Lab Sample ID: 280-169302-2 MS
Matrix: Water
Analysis Batch: 595413

Client Sample ID: MW-20A
Prep Type: Dissolved
Prep Batch: 594876

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	91000		50000	142000		ug/L		103	48 - 153		
Iron	2100	B	10000	12400		ug/L		102	52 - 155		
Magnesium	34000		50000	86000		ug/L		104	62 - 146		
Manganese	2400		1000	3380		ug/L		100	79 - 121		
Potassium	ND		50000	49900		ug/L		99	76 - 132		
Sodium	30000		50000	80900		ug/L		101	70 - 203		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-169302-2 MSD
Matrix: Water
Analysis Batch: 595413

Client Sample ID: MW-20A
Prep Type: Dissolved
Prep Batch: 594876

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	91000		50000	141000		ug/L		100	48 - 153	1	20
Iron	2100	B	10000	12400		ug/L		102	52 - 155	0	20
Magnesium	34000		50000	85500		ug/L		103	62 - 146	1	20
Manganese	2400		1000	3350		ug/L		96	79 - 121	1	20
Potassium	ND		50000	49900		ug/L		99	76 - 132	0	20
Sodium	30000		50000	80600		ug/L		101	70 - 203	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-651985/28
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/03/22 00:51	1
Sulfate	ND		1.0		mg/L			12/03/22 00:51	1

Lab Sample ID: MB 480-651985/4
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/02/22 17:01	1
Sulfate	ND		1.0		mg/L			12/02/22 17:01	1

Lab Sample ID: LCS 480-651985/29
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.1	49.6		mg/L		99	90 - 110		
Sulfate			50.0	50.2		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-651985/5
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.1	49.7		mg/L		99	90 - 110		
Sulfate			50.0	50.3		mg/L		101	90 - 110		

Lab Sample ID: 280-169302-2 MS
Matrix: Water
Analysis Batch: 651985

Client Sample ID: MW-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	170		50.1	215	E	mg/L		82	81 - 120		
Sulfate	4.9		50.0	55.4		mg/L		101	80 - 120		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-596038/62
Matrix: Water
Analysis Batch: 596038

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			12/07/22 11:51	1

Lab Sample ID: LCS 280-596038/61
Matrix: Water
Analysis Batch: 596038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.57		mg/L		103	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-595276/23
Matrix: Water
Analysis Batch: 595276

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			12/01/22 13:17	1

Lab Sample ID: LCS 280-595276/21
Matrix: Water
Analysis Batch: 595276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	5.00	5.10		mg/L		102	90 - 110

Lab Sample ID: LCSD 280-595276/22
Matrix: Water
Analysis Batch: 595276

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	5.00	5.27		mg/L		105	90 - 110	3	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-595659/4
Matrix: Water
Analysis Batch: 595659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/05/22 16:31	1

Lab Sample ID: LCS 280-595659/3
Matrix: Water
Analysis Batch: 595659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	26.6		mg/L		106	88 - 112

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCSD 280-595659/37
Matrix: Water
Analysis Batch: 595659

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average			25.0	25.6		mg/L		103	88 - 112	0	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-596205/1
Matrix: Water
Analysis Batch: 596205

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			12/09/22 13:24	1
Magnesium	0.000				meq/L			12/09/22 13:24	1
Potassium	0.000				meq/L			12/09/22 13:24	1
Sodium	0.000				meq/L			12/09/22 13:24	1
Ammonia as N	0.000				meq/L			12/09/22 13:24	1
Chloride	0.000				meq/L			12/09/22 13:24	1
Sulfate	0.000				meq/L			12/09/22 13:24	1
Alkalinity	0.000				mg/L			12/09/22 13:24	1
Bicarbonate Alkalinity	0.000				meq/L			12/09/22 13:24	1
Nitrate/Nitrite	0.000				meq/L			12/09/22 13:24	1
Iron	0.000				meq/L			12/09/22 13:24	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-594347/84
Matrix: Water
Analysis Batch: 594347

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			11/21/22 21:15	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-594254/1
Matrix: Water
Analysis Batch: 594254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			11/21/22 12:27	1

Lab Sample ID: LCS 280-594254/2
Matrix: Water
Analysis Batch: 594254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			501	479		mg/L		96	88 - 114		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 280-594399/1
Matrix: Water
Analysis Batch: 594399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			11/22/22 11:19	1

Lab Sample ID: LCS 280-594399/2
Matrix: Water
Analysis Batch: 594399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			501	480		mg/L		96	88 - 114		

Lab Sample ID: LCSD 280-594399/3
Matrix: Water
Analysis Batch: 594399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			501	476		mg/L		95	88 - 114	1	20

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169302-1

GC/MS VOA

Analysis Batch: 594854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-1	TRIP BLANK	Total/NA	Water	8260B	
280-169302-2	MW-20A	Total/NA	Water	8260B	
280-169302-3	FB11162201	Total/NA	Water	8260B	
MB 280-594854/7	Method Blank	Total/NA	Water	8260B	
LCS 280-594854/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-594854/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 594044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-1	TRIP BLANK	Total/NA	Water	8011	
280-169302-2	MW-20A	Total/NA	Water	8011	
280-169302-3	FB11162201	Total/NA	Water	8011	
MB 280-594044/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-594044/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-594044/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 594074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-1	TRIP BLANK	Total/NA	Water	8011	594044
280-169302-2	MW-20A	Total/NA	Water	8011	594044
280-169302-3	FB11162201	Total/NA	Water	8011	594044
MB 280-594044/1-A	Method Blank	Total/NA	Water	8011	594044
LCS 280-594044/2-A	Lab Control Sample	Total/NA	Water	8011	594044
LCSD 280-594044/3-A	Lab Control Sample Dup	Total/NA	Water	8011	594044

Metals

Prep Batch: 594876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-2	MW-20A	Dissolved	Water	3005A	
280-169302-3	FB11162201	Dissolved	Water	3005A	
MB 280-594876/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-594876/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-169302-2 MS	MW-20A	Dissolved	Water	3005A	
280-169302-2 MSD	MW-20A	Dissolved	Water	3005A	

Analysis Batch: 595413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-2	MW-20A	Dissolved	Water	6010B	594876
280-169302-3	FB11162201	Dissolved	Water	6010B	594876
MB 280-594876/1-A	Method Blank	Total Recoverable	Water	6010B	594876
LCS 280-594876/2-A	Lab Control Sample	Total Recoverable	Water	6010B	594876
280-169302-2 MS	MW-20A	Dissolved	Water	6010B	594876
280-169302-2 MSD	MW-20A	Dissolved	Water	6010B	594876

General Chemistry

Analysis Batch: 594254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-2	MW-20A	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 594254 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-594254/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-594254/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 594347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-2	MW-20A	Total/NA	Water	SM 2320B	
280-169302-3	FB11162201	Total/NA	Water	SM 2320B	
MB 280-594347/84	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-594347/83	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 594399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-3	FB11162201	Total/NA	Water	SM 2540C	
MB 280-594399/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-594399/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-594399/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 595276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-2	MW-20A	Total/NA	Water	353.2	
280-169302-3	FB11162201	Total/NA	Water	353.2	
MB 280-595276/23	Method Blank	Total/NA	Water	353.2	
LCS 280-595276/21	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-595276/22	Lab Control Sample Dup	Total/NA	Water	353.2	

Analysis Batch: 595659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-2	MW-20A	Total/NA	Water	9060	
280-169302-3	FB11162201	Total/NA	Water	9060	
MB 280-595659/4	Method Blank	Total/NA	Water	9060	
LCS 280-595659/3	Lab Control Sample	Total/NA	Water	9060	
LCSD 280-595659/37	Lab Control Sample Dup	Total/NA	Water	9060	

Analysis Batch: 596038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-2	MW-20A	Total/NA	Water	350.1	
280-169302-3	FB11162201	Total/NA	Water	350.1	
MB 280-596038/62	Method Blank	Total/NA	Water	350.1	
LCS 280-596038/61	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 596205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-2	MW-20A	Total/NA	Water	SM 1030E	
280-169302-2	MW-20A	Total/NA	Water	SM 1030E (meq)	
280-169302-3	FB11162201	Total/NA	Water	SM 1030E	
280-169302-3	FB11162201	Total/NA	Water	SM 1030E (meq)	
MB 280-596205/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 651985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-2	MW-20A	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 651985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169302-3	FB11162201	Total/NA	Water	300.0	
MB 480-651985/28	Method Blank	Total/NA	Water	300.0	
MB 480-651985/4	Method Blank	Total/NA	Water	300.0	
LCS 480-651985/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-651985/5	Lab Control Sample	Total/NA	Water	300.0	
280-169302-2 MS	MW-20A	Total/NA	Water	300.0	

Lab Chronicle

Client: Waste Management
Job ID: 280-169302-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-169302-1
Date Collected: 11/16/22 07:00
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594854	11/29/22 11:01	CKL	EET DEN
Total/NA	Prep	8011			35.6 mL	35 mL	594044	11/18/22 11:37	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594074	11/18/22 22:25	ECM	EET DEN

Client Sample ID: MW-20A
Lab Sample ID: 280-169302-2
Date Collected: 11/16/22 10:40
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594854	11/29/22 12:07	CKL	EET DEN
Total/NA	Prep	8011			35.4 mL	35 mL	594044	11/18/22 11:37	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594074	11/18/22 22:49	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594876	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 03:37	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/02/22 23:33	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596038	12/07/22 12:04	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	595276	12/01/22 14:59	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595659	12/05/22 20:09	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/21/22 21:33	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594254	11/21/22 12:27	ASP	EET DEN

Client Sample ID: FB11162201
Lab Sample ID: 280-169302-3
Date Collected: 11/16/22 10:50
Matrix: Water
Date Received: 11/17/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	594854	11/29/22 11:23	CKL	EET DEN
Total/NA	Prep	8011			35.2 mL	35 mL	594044	11/18/22 11:37	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594074	11/18/22 23:13	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	594876	12/01/22 09:30	PFM	EET DEN
Dissolved	Analysis	6010B		1			595413	12/02/22 03:57	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/03/22 01:30	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596038	12/07/22 12:07	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	595276	12/01/22 15:01	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595659	12/05/22 20:23	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596205	12/09/22 13:24	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594347	11/21/22 21:39	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594399	11/22/22 11:19	ASP	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169302-1

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: E. TAYlor	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-124177-865.1
Client Contact:	Phone: 503 507 7027	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 1 of 1
Company: Waste Management	PWSID:			Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786- Semiannual Detection Wells - Apr Oct			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540/350.1- TDS/Alk	6010B- Dissolved Metals (FF)	Ammonia/TOC/NO3+NO2	8260B- VOCs	8011- EDB/DBCP	Cation/Anion Balance	300.0- Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	R		N		
TB02	11/16/22	0730	C	W						X	X			4	
MW-20A	11/16/22	1040	C	W	Y		X	X	X	X	X	X	X	10	
FB111622201	11/16/22	1050	G	W	X		X	X	X	X	X	X	X	10	

280-169302 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

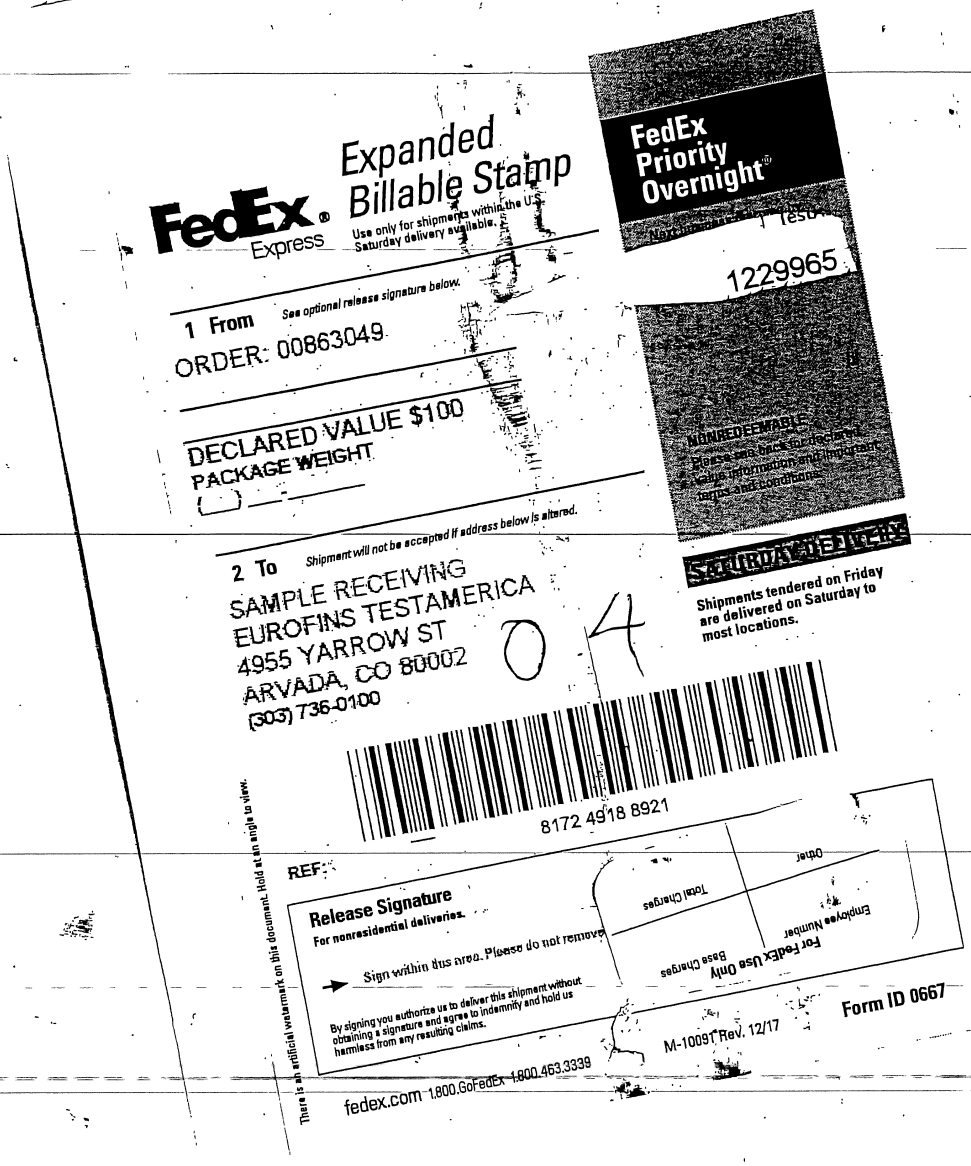
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/16/22 1630	SCS	Jordan Sc1002	11/17/22 1030	ETADEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

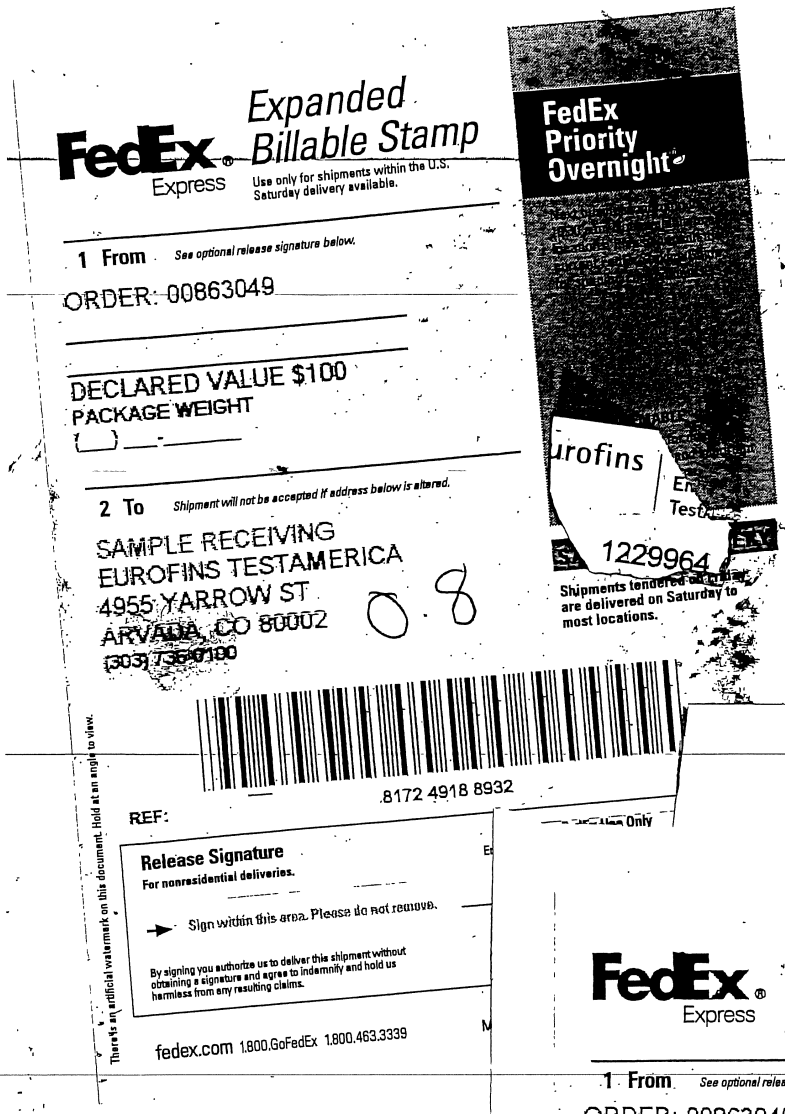
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.8, 1.7, 0.4 +0.0 IR12

Ver: 01/16/2019

1/9/2023



280-169302 Waybill



FedEx Express

Expanded Billable Stamp

Use only for shipments within the U.S. Saturday delivery available.

1 From See optional release signature below.

ORDER: 00863049

DECLARED VALUE $100

PACKAGE WEIGHT

( ) ___-_____

2 To Shipment will not be accepted if address below is altered.

SAMPLE RECEIVING
EUROFINS TESTAMERICA
4955 YARROW ST
ARVADA, CO 80002
(303) 736-0100

08

FedEx Priority Overnight

urofins | Test

1229964

Shipments tendered on Friday are delivered on Saturday to most locations.

8172 4918 8932

REF:

For FedEx Use Only

Release Signature

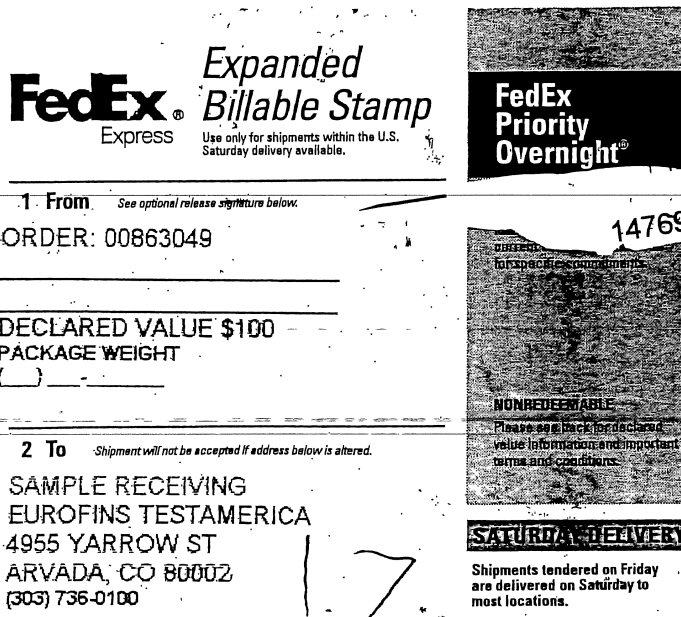
For nonresidential deliveries.

Sign within this area. Please do not remove.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

There is an artificial watermark on this document. Hold at an angle to view.

fedex.com 1.800.GoFedEx 1.800.463.3339



FedEx Express

Expanded Billable Stamp

Use only for shipments within the U.S. Saturday delivery available.

1 From See optional release signature below.

ORDER: 00863049

DECLARED VALUE $100

PACKAGE WEIGHT

( ) ___-_____

2 To Shipment will not be accepted if address below is altered.

SAMPLE RECEIVING
EUROFINS TESTAMERICA
4955 YARROW ST
ARVADA, CO 80002
(303) 736-0100

17

FedEx Priority Overnight

1476941

NONREDEEMABLE

Please see back for declared value information and important terms and conditions.

SATURDAY DELIVERY

Shipments tendered on Friday are delivered on Saturday to most locations.

00009410 ORDER: 00863049

EUROFINS TESTAMERICA
ARVADA,CO

8172 4918 8900

REF:

For FedEx Use Only

Release Signature

For nonresidential deliveries.

Employee Number | Base Charges

Sign within this area. Please do not remove.

Other | Total Charges

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

There is an artificial watermark on this document. Hold at an angle to view.

fedex.com 1.800.GoFedEx 1.800.463.3339

M-10091 Rev. 12/17

Form ID 0667

Peel here and attach label to package.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-637049.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-169302-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/12/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-20A (280-169302-2)	11/16/22	10:40 Pacific		Water			X	1	
FB11162201 (280-169302-3)	11/16/22	10:50 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:		
Relinquished by:	Date/Time: 11/21/22 13:40	Company ETDEN	Received by:	Date/Time: 11/23/22 1000	Company TA	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.7 # 1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-169302-1

Login Number: 169302

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-169302-1

Login Number: 169302
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 11/23/22 11:36 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7 ir gun #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Generated 1/9/2023 11:03:45 AM

JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Downgradient Det. Wells - Oct

JOB NUMBER

280-169429-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

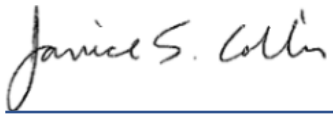
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
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Definitions/Glossary

Client: Waste Management
Job ID: 280-169429-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-169429-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-169429-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

RECEIPT

The samples were received on 11/19/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-5A (280-169429-1), FB11172201 (280-169429-2) and TB03 (280-169429-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/30/2022.

For Method 8260, the following analyte(s) recovered outside control limits for the LCS associated with analytical batch 280-595025: 1,3-Dichloropropane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported. The results were non-detect for this compound.

For Method 8260, the RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-595025 recovered outside control limits (20%) for the following analytes: Bromoform, n-Butylbenzene, and Styrene. The associated samples were non-detect for the affected analytes and within recovery limits in the LCS and LCSD.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

1,2-DIBROMOETHANE, 1,2-DIBROMO-3-CHLOROPROPANE, AND 1,2,3-TRICHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY

Samples MW-5A (280-169429-1), FB11172201 (280-169429-2) and TB03 (280-169429-3) were analyzed for 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, and 1,2,3-trichloropropane by microextraction and gas chromatography in accordance with EPA SW-846 Method 8011. The samples were prepared and analyzed on 11/22/2022.

TestAmerica Denver's practice for the reporting of dual column data in packages requiring forms and/or raw data is to report the surrogates from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred results for target analytes and surrogates are reported as PRIMARY on the Sample Datasheets.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GENERAL COMMENTS

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the

Job ID: 280-169429-1 (Continued)

Laboratory: Eurofins Denver (Continued)

PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Job ID: 280-169429-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: MW-5A
Lab Sample ID: 280-169429-1

No Detections.

Client Sample ID: FB11172201
Lab Sample ID: 280-169429-2

No Detections.

Client Sample ID: TB03
Lab Sample ID: 280-169429-3

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-169429-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-169429-1	MW-5A	Water	11/17/22 12:25	11/19/22 09:20
280-169429-2	FB11172201	Water	11/17/22 12:30	11/19/22 09:20
280-169429-3	TB03	Water	11/17/22 07:00	11/19/22 09:20

Method Summary

Client: Waste Management
Job ID: 280-169429-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169429-1

Client Sample ID: MW-5A
Date Collected: 11/17/22 12:25
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169429-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 13:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/30/22 13:58	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 13:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/30/22 13:58	1
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 13:58	1
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 13:58	1
1,1-Dichloropropene	ND		1.0		ug/L			11/30/22 13:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/30/22 13:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/30/22 13:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/30/22 13:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 13:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/30/22 13:58	1
1,2-Dichloroethane	ND		1.0		ug/L			11/30/22 13:58	1
1,2-Dichloropropane	ND		1.0		ug/L			11/30/22 13:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/30/22 13:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/30/22 13:58	1
1,3-Dichloropropane	ND	*-	1.0		ug/L			11/30/22 13:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/30/22 13:58	1
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 13:58	1
2-Butanone (MEK)	ND		6.0		ug/L			11/30/22 13:58	1
2-Chlorotoluene	ND		1.0		ug/L			11/30/22 13:58	1
2-Hexanone	ND		5.0		ug/L			11/30/22 13:58	1
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 13:58	1
4-Isopropyltoluene	ND		1.0		ug/L			11/30/22 13:58	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 13:58	1
Acetone	ND		10		ug/L			11/30/22 13:58	1
Benzene	ND		1.0		ug/L			11/30/22 13:58	1
Bromobenzene	ND		1.0		ug/L			11/30/22 13:58	1
Bromochloromethane	ND		1.0		ug/L			11/30/22 13:58	1
Bromodichloromethane	ND		1.0		ug/L			11/30/22 13:58	1
Bromoform	ND	*1	1.2		ug/L			11/30/22 13:58	1
Bromomethane	ND		2.4		ug/L			11/30/22 13:58	1
Carbon disulfide	ND		2.0		ug/L			11/30/22 13:58	1
Carbon tetrachloride	ND		1.0		ug/L			11/30/22 13:58	1
Chlorobenzene	ND		1.0		ug/L			11/30/22 13:58	1
Chloroethane	ND		2.0		ug/L			11/30/22 13:58	1
Chloroform	ND		1.0		ug/L			11/30/22 13:58	1
Chloromethane	ND		2.0		ug/L			11/30/22 13:58	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 13:58	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/30/22 13:58	1
Dibromochloromethane	ND		1.0		ug/L			11/30/22 13:58	1
Dibromomethane	ND		1.0		ug/L			11/30/22 13:58	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/30/22 13:58	1
Ethylbenzene	ND		1.0		ug/L			11/30/22 13:58	1
Hexachlorobutadiene	ND		1.2		ug/L			11/30/22 13:58	1
Isopropylbenzene	ND		1.0		ug/L			11/30/22 13:58	1
Methylene Chloride	ND		5.0		ug/L			11/30/22 13:58	1
Naphthalene	ND		1.0		ug/L			11/30/22 13:58	1
n-Butylbenzene	ND	*1	1.0		ug/L			11/30/22 13:58	1

Client Sample ID: MW-5A

Date Collected: 11/17/22 12:25
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169429-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			11/30/22 13:58	1
sec-Butylbenzene	ND		1.0		ug/L			11/30/22 13:58	1
Styrene	ND	*1	1.0		ug/L			11/30/22 13:58	1
tert-Butylbenzene	ND		1.0		ug/L			11/30/22 13:58	1
Tetrachloroethene	ND		1.0		ug/L			11/30/22 13:58	1
Toluene	ND		1.0		ug/L			11/30/22 13:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 13:58	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 13:58	1
Trichloroethene	ND		1.0		ug/L			11/30/22 13:58	1
Trichlorofluoromethane	ND		2.0		ug/L			11/30/22 13:58	1
Vinyl chloride	ND		1.0		ug/L			11/30/22 13:58	1
Xylenes (total)	ND		2.0		ug/L			11/30/22 13:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 13:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*11/30/22 13:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*11/30/22 13:58*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 120*		*11/30/22 13:58*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*11/30/22 13:58*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 16:33	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*124*		*70 - 130*	*11/22/22 11:24*	*11/22/22 16:33*	*1*

Client Sample ID: FB11172201

Date Collected: 11/17/22 12:30
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169429-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 11:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/30/22 11:31	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 11:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/30/22 11:31	1
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 11:31	1
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 11:31	1
1,1-Dichloropropene	ND		1.0		ug/L			11/30/22 11:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/30/22 11:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/30/22 11:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/30/22 11:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 11:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/30/22 11:31	1
1,2-Dichloroethane	ND		1.0		ug/L			11/30/22 11:31	1
1,2-Dichloropropane	ND		1.0		ug/L			11/30/22 11:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/30/22 11:31	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169429-1

Client Sample ID: FB11172201
Date Collected: 11/17/22 12:30
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169429-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			11/30/22 11:31	1
1,3-Dichloropropane	ND	*-	1.0		ug/L			11/30/22 11:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/30/22 11:31	1
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 11:31	1
2-Butanone (MEK)	ND		6.0		ug/L			11/30/22 11:31	1
2-Chlorotoluene	ND		1.0		ug/L			11/30/22 11:31	1
2-Hexanone	ND		5.0		ug/L			11/30/22 11:31	1
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 11:31	1
4-Isopropyltoluene	ND		1.0		ug/L			11/30/22 11:31	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 11:31	1
Acetone	ND		10		ug/L			11/30/22 11:31	1
Benzene	ND		1.0		ug/L			11/30/22 11:31	1
Bromobenzene	ND		1.0		ug/L			11/30/22 11:31	1
Bromochloromethane	ND		1.0		ug/L			11/30/22 11:31	1
Bromodichloromethane	ND		1.0		ug/L			11/30/22 11:31	1
Bromoform	ND	*1	1.2		ug/L			11/30/22 11:31	1
Bromomethane	ND		2.4		ug/L			11/30/22 11:31	1
Carbon disulfide	ND		2.0		ug/L			11/30/22 11:31	1
Carbon tetrachloride	ND		1.0		ug/L			11/30/22 11:31	1
Chlorobenzene	ND		1.0		ug/L			11/30/22 11:31	1
Chloroethane	ND		2.0		ug/L			11/30/22 11:31	1
Chloroform	ND		1.0		ug/L			11/30/22 11:31	1
Chloromethane	ND		2.0		ug/L			11/30/22 11:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 11:31	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/30/22 11:31	1
Dibromochloromethane	ND		1.0		ug/L			11/30/22 11:31	1
Dibromomethane	ND		1.0		ug/L			11/30/22 11:31	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/30/22 11:31	1
Ethylbenzene	ND		1.0		ug/L			11/30/22 11:31	1
Hexachlorobutadiene	ND		1.2		ug/L			11/30/22 11:31	1
Isopropylbenzene	ND		1.0		ug/L			11/30/22 11:31	1
Methylene Chloride	ND		5.0		ug/L			11/30/22 11:31	1
Naphthalene	ND		1.0		ug/L			11/30/22 11:31	1
n-Butylbenzene	ND	*1	1.0		ug/L			11/30/22 11:31	1
N-Propylbenzene	ND		1.0		ug/L			11/30/22 11:31	1
sec-Butylbenzene	ND		1.0		ug/L			11/30/22 11:31	1
Styrene	ND	*1	1.0		ug/L			11/30/22 11:31	1
tert-Butylbenzene	ND		1.0		ug/L			11/30/22 11:31	1
Tetrachloroethene	ND		1.0		ug/L			11/30/22 11:31	1
Toluene	ND		1.0		ug/L			11/30/22 11:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 11:31	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 11:31	1
Trichloroethene	ND		1.0		ug/L			11/30/22 11:31	1
Trichlorofluoromethane	ND		2.0		ug/L			11/30/22 11:31	1
Vinyl chloride	ND		1.0		ug/L			11/30/22 11:31	1
Xylenes (total)	ND		2.0		ug/L			11/30/22 11:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 11:31*	*1*

Client Sample ID: FB11172201

Lab Sample ID: 280-169429-2

Date Collected: 11/17/22 12:30

Matrix: Water

Date Received: 11/19/22 09:20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*11/30/22 11:31*	*1*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*11/30/22 11:31*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*11/30/22 11:31*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*11/30/22 11:31*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 16:58	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*125*		*70 - 130*	*11/22/22 11:24*	*11/22/22 16:58*	*1*

Client Sample ID: TB03

Lab Sample ID: 280-169429-3

Date Collected: 11/17/22 07:00

Matrix: Water

Date Received: 11/19/22 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 10:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/30/22 10:49	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 10:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/30/22 10:49	1
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 10:49	1
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 10:49	1
1,1-Dichloropropene	ND		1.0		ug/L			11/30/22 10:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/30/22 10:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/30/22 10:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/30/22 10:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 10:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/30/22 10:49	1
1,2-Dichloroethane	ND		1.0		ug/L			11/30/22 10:49	1
1,2-Dichloropropane	ND		1.0		ug/L			11/30/22 10:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/30/22 10:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/30/22 10:49	1
1,3-Dichloropropane	ND	*-	1.0		ug/L			11/30/22 10:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/30/22 10:49	1
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 10:49	1
2-Butanone (MEK)	ND		6.0		ug/L			11/30/22 10:49	1
2-Chlorotoluene	ND		1.0		ug/L			11/30/22 10:49	1
2-Hexanone	ND		5.0		ug/L			11/30/22 10:49	1
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 10:49	1
4-Isopropyltoluene	ND		1.0		ug/L			11/30/22 10:49	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 10:49	1
Acetone	ND		10		ug/L			11/30/22 10:49	1
Benzene	ND		1.0		ug/L			11/30/22 10:49	1
Bromobenzene	ND		1.0		ug/L			11/30/22 10:49	1
Bromochloromethane	ND		1.0		ug/L			11/30/22 10:49	1
Bromodichloromethane	ND		1.0		ug/L			11/30/22 10:49	1
Bromoform	ND	*1	1.2		ug/L			11/30/22 10:49	1
Bromomethane	ND		2.4		ug/L			11/30/22 10:49	1

Client Sample ID: TB03

Date Collected: 11/17/22 07:00
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169429-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0		ug/L			11/30/22 10:49	1
Carbon tetrachloride	ND		1.0		ug/L			11/30/22 10:49	1
Chlorobenzene	ND		1.0		ug/L			11/30/22 10:49	1
Chloroethane	ND		2.0		ug/L			11/30/22 10:49	1
Chloroform	ND		1.0		ug/L			11/30/22 10:49	1
Chloromethane	ND		2.0		ug/L			11/30/22 10:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 10:49	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/30/22 10:49	1
Dibromochloromethane	ND		1.0		ug/L			11/30/22 10:49	1
Dibromomethane	ND		1.0		ug/L			11/30/22 10:49	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/30/22 10:49	1
Ethylbenzene	ND		1.0		ug/L			11/30/22 10:49	1
Hexachlorobutadiene	ND		1.2		ug/L			11/30/22 10:49	1
Isopropylbenzene	ND		1.0		ug/L			11/30/22 10:49	1
Methylene Chloride	ND		5.0		ug/L			11/30/22 10:49	1
Naphthalene	ND		1.0		ug/L			11/30/22 10:49	1
n-Butylbenzene	ND	*1	1.0		ug/L			11/30/22 10:49	1
N-Propylbenzene	ND		1.0		ug/L			11/30/22 10:49	1
sec-Butylbenzene	ND		1.0		ug/L			11/30/22 10:49	1
Styrene	ND	*1	1.0		ug/L			11/30/22 10:49	1
tert-Butylbenzene	ND		1.0		ug/L			11/30/22 10:49	1
Tetrachloroethene	ND		1.0		ug/L			11/30/22 10:49	1
Toluene	ND		1.0		ug/L			11/30/22 10:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 10:49	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 10:49	1
Trichloroethene	ND		1.0		ug/L			11/30/22 10:49	1
Trichlorofluoromethane	ND		2.0		ug/L			11/30/22 10:49	1
Vinyl chloride	ND		1.0		ug/L			11/30/22 10:49	1
Xylenes (total)	ND		2.0		ug/L			11/30/22 10:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 10:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*		*11/30/22 10:49*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*11/30/22 10:49*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 120*		*11/30/22 10:49*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*11/30/22 10:49*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 17:23	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*120*		*70 - 130*	*11/22/22 11:24*	*11/22/22 17:23*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169429-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-169429-1	MW-5A	100	101	103	97
280-169429-2	FB11172201	98	95	102	105
280-169429-3	TB03	95	101	104	99
LCS 280-595025/1002	Lab Control Sample	78	92	93	98
LCSD 280-595025/4	Lab Control Sample Dup	88	89	100	97
MB 280-595025/8	Method Blank	81	91	97	86

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-169429-1	MW-5A	124
280-169429-2	FB11172201	125
280-169429-3	TB03	120
LCS 280-594402/2-A	Lab Control Sample	121
LCSD 280-594402/3-A	Lab Control Sample Dup	125
MB 280-594402/1-A	Method Blank	124

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-595025/8
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
1,1-Dichloropropene	ND		1.0		ug/L			11/30/22 09:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/30/22 09:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2-Dichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,2-Dichloropropane	ND		1.0		ug/L			11/30/22 09:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,3-Dichloropropane	ND		1.0		ug/L			11/30/22 09:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 09:26	1
2-Butanone (MEK)	ND		6.0		ug/L			11/30/22 09:26	1
2-Chlorotoluene	ND		1.0		ug/L			11/30/22 09:26	1
2-Hexanone	ND		5.0		ug/L			11/30/22 09:26	1
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 09:26	1
4-Isopropyltoluene	ND		1.0		ug/L			11/30/22 09:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 09:26	1
Acetone	ND		10		ug/L			11/30/22 09:26	1
Benzene	ND		1.0		ug/L			11/30/22 09:26	1
Bromobenzene	ND		1.0		ug/L			11/30/22 09:26	1
Bromochloromethane	ND		1.0		ug/L			11/30/22 09:26	1
Bromodichloromethane	ND		1.0		ug/L			11/30/22 09:26	1
Bromoform	ND		1.2		ug/L			11/30/22 09:26	1
Bromomethane	ND		2.4		ug/L			11/30/22 09:26	1
Carbon disulfide	ND		2.0		ug/L			11/30/22 09:26	1
Carbon tetrachloride	ND		1.0		ug/L			11/30/22 09:26	1
Chlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
Chloroethane	ND		2.0		ug/L			11/30/22 09:26	1
Chloroform	ND		1.0		ug/L			11/30/22 09:26	1
Chloromethane	ND		2.0		ug/L			11/30/22 09:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/30/22 09:26	1
Dibromochloromethane	ND		1.0		ug/L			11/30/22 09:26	1
Dibromomethane	ND		1.0		ug/L			11/30/22 09:26	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/30/22 09:26	1
Ethylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Hexachlorobutadiene	ND		1.2		ug/L			11/30/22 09:26	1
Isopropylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Methylene Chloride	ND		5.0		ug/L			11/30/22 09:26	1
Naphthalene	ND		1.0		ug/L			11/30/22 09:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-595025/8
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
N-Propylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
sec-Butylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Styrene	ND		1.0		ug/L			11/30/22 09:26	1
tert-Butylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Tetrachloroethene	ND		1.0		ug/L			11/30/22 09:26	1
Toluene	ND		1.0		ug/L			11/30/22 09:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 09:26	1
Trichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
Trichlorofluoromethane	ND		2.0		ug/L			11/30/22 09:26	1
Vinyl chloride	ND		1.0		ug/L			11/30/22 09:26	1
Xylenes (total)	ND		2.0		ug/L			11/30/22 09:26	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 09:26*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 127*		*11/30/22 09:26*	*1*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*11/30/22 09:26*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*11/30/22 09:26*	*1*
Toluene-d8 (Surr)	*86*		*80 - 125*		*11/30/22 09:26*	*1*

Lab Sample ID: LCS 280-595025/1002
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	74 - 121
1,1,1-Trichloroethane	25.0	20.9		ug/L		83	62 - 132
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	72 - 122
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	72 - 128
1,1-Dichloroethane	25.0	22.8		ug/L		91	66 - 130
1,1-Dichloroethene	25.0	23.7		ug/L		95	62 - 130
1,1-Dichloropropene	25.0	21.3		ug/L		85	64 - 133
1,2,3-Trichlorobenzene	25.0	30.4		ug/L		122	70 - 127
1,2,3-Trichloropropane	25.0	27.2		ug/L		109	74 - 123
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		105	73 - 124
1,2,4-Trimethylbenzene	25.0	21.5		ug/L		86	74 - 124
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	77 - 121
1,2-Dichloroethane	25.0	20.7		ug/L		83	61 - 130
1,2-Dichloropropane	25.0	22.1		ug/L		89	68 - 127
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	73 - 127
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	76 - 121
1,3-Dichloropropane	25.0	19.7	*-	ug/L		79	80 - 118
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	76 - 119
2,2-Dichloropropane	25.0	22.4		ug/L		90	57 - 140
2-Butanone (MEK)	100	83.0		ug/L		83	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-595025/1002
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	25.0	24.8		ug/L		99	75 - 123
2-Hexanone	100	82.6		ug/L		83	58 - 134
4-Chlorotoluene	25.0	21.9		ug/L		88	74 - 124
4-Isopropyltoluene	25.0	23.8		ug/L		95	74 - 127
4-Methyl-2-pentanone	100	90.8		ug/L		91	56 - 135
Acetone	100	82.2		ug/L		82	50 - 137
Benzene	25.0	23.4		ug/L		93	69 - 126
Bromobenzene	25.0	24.6		ug/L		98	75 - 122
Bromochloromethane	25.0	25.7		ug/L		103	71 - 130
Bromodichloromethane	25.0	23.3		ug/L		93	67 - 126
Bromoform	25.0	28.7		ug/L		115	57 - 125
Bromomethane	25.0	21.9		ug/L		87	25 - 163
Carbon disulfide	25.0	24.8		ug/L		99	56 - 128
Carbon tetrachloride	25.0	22.6		ug/L		90	60 - 133
Chlorobenzene	25.0	24.2		ug/L		97	78 - 118
Chloroethane	25.0	21.4		ug/L		86	52 - 144
Chloroform	25.0	21.9		ug/L		88	68 - 128
Chloromethane	25.0	25.3		ug/L		101	43 - 142
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	69 - 126
cis-1,3-Dichloropropene	25.0	21.9		ug/L		88	75 - 120
Dibromochloromethane	25.0	22.4		ug/L		89	71 - 122
Dibromomethane	25.0	23.9		ug/L		96	68 - 129
Dichlorodifluoromethane	25.0	26.8		ug/L		107	26 - 152
Ethylbenzene	25.0	24.9		ug/L		100	76 - 121
Hexachlorobutadiene	25.0	22.0		ug/L		88	69 - 133
Isopropylbenzene	25.0	22.6		ug/L		90	70 - 127
Methylene Chloride	25.0	26.7		ug/L		107	64 - 128
Naphthalene	25.0	27.9		ug/L		111	63 - 129
n-Butylbenzene	25.0	25.8		ug/L		103	69 - 130
N-Propylbenzene	25.0	23.9		ug/L		96	73 - 127
sec-Butylbenzene	25.0	24.7		ug/L		99	72 - 127
Styrene	25.0	25.8		ug/L		103	79 - 120
tert-Butylbenzene	25.0	22.2		ug/L		89	72 - 126
Tetrachloroethene	25.0	23.8		ug/L		95	72 - 127
Toluene	25.0	23.3		ug/L		93	68 - 127
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	66 - 129
trans-1,3-Dichloropropene	25.0	22.2		ug/L		89	66 - 127
Trichloroethene	25.0	23.4		ug/L		94	70 - 125
Trichlorofluoromethane	25.0	17.7		ug/L		71	57 - 144
Vinyl chloride	25.0	23.5		ug/L		94	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*70 - 127*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-595025/4
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	21.5		ug/L		86	74 - 121	16	20
1,1,1-Trichloroethane			25.0	21.4		ug/L		85	62 - 132	2	20
1,1,2,2-Tetrachloroethane			25.0	27.2		ug/L		109	72 - 122	5	20
1,1,2-Trichloroethane			25.0	23.4		ug/L		94	72 - 128	1	20
1,1-Dichloroethane			25.0	22.0		ug/L		88	66 - 130	4	20
1,1-Dichloroethene			25.0	23.8		ug/L		95	62 - 130	1	21
1,1-Dichloropropene			25.0	21.7		ug/L		87	64 - 133	2	20
1,2,3-Trichlorobenzene			25.0	31.7		ug/L		127	70 - 127	4	20
1,2,3-Trichloropropane			25.0	26.2		ug/L		105	74 - 123	4	20
1,2,4-Trichlorobenzene			25.0	25.4		ug/L		102	73 - 124	3	20
1,2,4-Trimethylbenzene			25.0	20.4		ug/L		82	74 - 124	5	20
1,2-Dichlorobenzene			25.0	22.8		ug/L		91	77 - 121	15	20
1,2-Dichloroethane			25.0	19.9		ug/L		80	61 - 130	4	20
1,2-Dichloropropane			25.0	21.3		ug/L		85	68 - 127	4	20
1,3,5-Trimethylbenzene			25.0	20.3		ug/L		81	73 - 127	18	20
1,3-Dichlorobenzene			25.0	22.0		ug/L		88	76 - 121	5	20
1,3-Dichloropropane			25.0	20.9		ug/L		84	80 - 118	6	20
1,4-Dichlorobenzene			25.0	21.5		ug/L		86	76 - 119	9	20
2,2-Dichloropropane			25.0	21.5		ug/L		86	57 - 140	4	22
2-Butanone (MEK)			100	80.8		ug/L		81	53 - 135	3	20
2-Chlorotoluene			25.0	25.0		ug/L		100	75 - 123	1	20
2-Hexanone			100	87.3		ug/L		87	58 - 134	6	21
4-Chlorotoluene			25.0	21.5		ug/L		86	74 - 124	2	20
4-Isopropyltoluene			25.0	21.5		ug/L		86	74 - 127	10	20
4-Methyl-2-pentanone			100	91.8		ug/L		92	56 - 135	1	20
Acetone			100	84.6		ug/L		85	50 - 137	3	21
Benzene			25.0	22.3		ug/L		89	69 - 126	5	20
Bromobenzene			25.0	24.5		ug/L		98	75 - 122	0	20
Bromochloromethane			25.0	24.9		ug/L		100	71 - 130	3	20
Bromodichloromethane			25.0	22.3		ug/L		89	67 - 126	4	20
Bromoform			25.0	23.0	*1	ug/L		92	57 - 125	22	20
Bromomethane			25.0	20.6		ug/L		82	25 - 163	6	40
Carbon disulfide			25.0	23.3		ug/L		93	56 - 128	6	20
Carbon tetrachloride			25.0	23.1		ug/L		93	60 - 133	3	20
Chlorobenzene			25.0	21.3		ug/L		85	78 - 118	13	20
Chloroethane			25.0	21.0		ug/L		84	52 - 144	2	30
Chloroform			25.0	21.9		ug/L		87	68 - 128	0	20
Chloromethane			25.0	20.7		ug/L		83	43 - 142	20	20
cis-1,2-Dichloroethene			25.0	23.4		ug/L		94	69 - 126	5	20
cis-1,3-Dichloropropene			25.0	20.9		ug/L		83	75 - 120	5	20
Dibromochloromethane			25.0	22.8		ug/L		91	71 - 122	2	20
Dibromomethane			25.0	22.5		ug/L		90	68 - 129	6	20
Dichlorodifluoromethane			25.0	24.9		ug/L		100	26 - 152	7	21
Ethylbenzene			25.0	20.8		ug/L		83	76 - 121	18	20
Hexachlorobutadiene			25.0	20.4		ug/L		82	69 - 133	7	20
Isopropylbenzene			25.0	23.4		ug/L		94	70 - 127	4	20
Methylene Chloride			25.0	25.2		ug/L		101	64 - 128	6	20
Naphthalene			25.0	26.8		ug/L		107	63 - 129	4	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-595025/4
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene			25.0	20.7	*1	ug/L		83	69 - 130	22	20
N-Propylbenzene			25.0	23.2		ug/L		93	73 - 127	3	20
sec-Butylbenzene			25.0	22.3		ug/L		89	72 - 127	10	20
Styrene			25.0	20.8	*1	ug/L		83	79 - 120	22	20
tert-Butylbenzene			25.0	24.3		ug/L		97	72 - 126	9	20
Tetrachloroethene			25.0	21.0		ug/L		84	72 - 127	13	20
Toluene			25.0	23.4		ug/L		94	68 - 127	0	20
trans-1,2-Dichloroethene			25.0	24.0		ug/L		96	66 - 129	6	20
trans-1,3-Dichloropropene			25.0	22.2		ug/L		89	66 - 127	0	20
Trichloroethene			25.0	22.2		ug/L		89	70 - 125	5	20
Trichlorofluoromethane			25.0	17.8		ug/L		71	57 - 144	0	28
Vinyl chloride			25.0	20.3		ug/L		81	53 - 141	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*
4-Bromofluorobenzene (Surr)	*89*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-594402/1-A
Matrix: Water
Analysis Batch: 594425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 15:18	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*124*		*70 - 130*	*11/22/22 11:24*	*11/22/22 15:18*	*1*

Lab Sample ID: LCS 280-594402/2-A
Matrix: Water
Analysis Batch: 594425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594402

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane			0.250	0.257		ug/L		103	60 - 140
1,2-Dibromoethane			0.250	0.229		ug/L		92	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*121*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 280-594402/3-A
Matrix: Water
Analysis Batch: 594425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 594402

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.273		ug/L		109	60 - 140	6	10
1,2-Dibromoethane			0.250	0.239		ug/L		95	60 - 140	4	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*125*		*70 - 130*

QC Association Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169429-1

GC/MS VOA

Analysis Batch: 595025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169429-1	MW-5A	Total/NA	Water	8260B	
280-169429-2	FB11172201	Total/NA	Water	8260B	
280-169429-3	TB03	Total/NA	Water	8260B	
MB 280-595025/8	Method Blank	Total/NA	Water	8260B	
LCS 280-595025/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-595025/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 594402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169429-1	MW-5A	Total/NA	Water	8011	
280-169429-2	FB11172201	Total/NA	Water	8011	
280-169429-3	TB03	Total/NA	Water	8011	
MB 280-594402/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-594402/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-594402/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 594425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169429-1	MW-5A	Total/NA	Water	8011	594402
280-169429-2	FB11172201	Total/NA	Water	8011	594402
280-169429-3	TB03	Total/NA	Water	8011	594402
MB 280-594402/1-A	Method Blank	Total/NA	Water	8011	594402
LCS 280-594402/2-A	Lab Control Sample	Total/NA	Water	8011	594402
LCSD 280-594402/3-A	Lab Control Sample Dup	Total/NA	Water	8011	594402

Lab Chronicle

Client: Waste Management
Job ID: 280-169429-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: MW-5A
Lab Sample ID: 280-169429-1
Date Collected: 11/17/22 12:25
Matrix: Water
Date Received: 11/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	595025	11/30/22 13:58	MD	EET DEN
Total/NA	Prep	8011			35.4 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 16:33	ECM	EET DEN

Client Sample ID: FB11172201
Lab Sample ID: 280-169429-2
Date Collected: 11/17/22 12:30
Matrix: Water
Date Received: 11/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	595025	11/30/22 11:31	MD	EET DEN
Total/NA	Prep	8011			35.5 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 16:58	ECM	EET DEN

Client Sample ID: TB03
Lab Sample ID: 280-169429-3
Date Collected: 11/17/22 07:00
Matrix: Water
Date Received: 11/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	595025	11/30/22 10:49	MD	EET DEN
Total/NA	Prep	8011			35.2 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 17:23	ECM	EET DEN

Laboratory References:
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

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Client Information	Sampler: Eden Taylor	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-124177-865.1
Client Contact:	Phone: 503 502 7627	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 1 of 1
Company: Waste Management	PWSID:			Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786- Downgradient Det. Wells - Oct			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alk/Cl/SO4	6010B- Dissolved Metals (FF)	Ammonia/TOC/NO3+NO2	8260B- VOCs	8011- EDB/DBCP	Cation/Anion Balance	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	D	S	A	R			
MW-05A	11/17/22	1225	G	W	X		X	X	X	X	X	X	6	
FB 11172201	11/17/22	1230	G	W	X		X	X	X	X	X	X	6	
TB03	11/17/22	0700	G	W						X	X		4	

280-169429 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/18/22 @ 1630	SCS		11-19-22 0920	ETA DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 1073454 | Cooler Temperature(s) °C and Other Remarks: 0.6C IR12 CF0.0

Ver: 01/16/2019

Do Not Lift Using This Tag

8172 5305 3489 8172 5305 3489

FedEx Express

Expanded Billable Stamp

Use only for shipments within the U.S. Saturday delivery available.

1 From *See optional release signature below.*

ORDER: 00863049

DECLARED VALUE $100
PACKAGE WEIGHT
(__) ___.____

2 To *Shipment will not be accepted if address below is altered.*

SAMPLE RECEIVING
EUROFINS TESTAMERICA. 0.6C
4955 YARROW ST
ARVADA, CO 80002
(303) 736-0100

1073454

FedEx Priority Overnight

Next business morning by 10:30 a.m. Not available to all locations. Please consult the current FedEx Service Guide for specific commitments.

NONREDEEMABLE

Please see back for declared value information and important terms and conditions.

SATURDAY DELIVERY

Shipments tendered on Friday are delivered on Saturday to most locations.

REF:

8172 5305 3489

Keep this liner for your records.

this document. Hold at an angle to view.

Release Signature
For nonresidential deliveries

For FedEx Use Only

ORIGIN ID:BNOA

SHIP DATE: 18NOV22
ACTWGT: 44.50 LB
CAD: /SSFE2341
DIMS: 27x13x12 IN

Part # 156297-[illegible] REV# 05/23

TO EUROFINS DENVER
EUROFINS DENVER
4955 YARROW ST

ARVADA CO 80002 (US)

(303) 736-0100 REF:

INV: DEPT:
PO:

FedEx Express

J2242221018020v

SATURDAY 12:00P

TRK# 8172 5305 [illegible]

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-169429-1

Login Number: 169429

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Generated 1/9/2023 11:02:36 AM

JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Detection Wells - Apr Oct

JOB NUMBER

280-169431-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

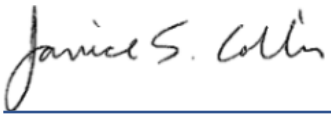
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Definitions/Glossary

Client: Waste Management
Job ID: 280-169431-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-169431-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-169431-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

RECEIPT

The samples were received on 11/19/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.6 C.

One of three HCL VOA containers for the following sample was received broken: DUP11172201 (280-169431-3). Sufficient volume remained for the analysis.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples TB03 (280-169431-1), MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/30/2022.

For Method 8260, the following analyte(s) recovered outside control limits for the LCS associated with analytical batch 280-595025: 1,3-Dichloropropane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported. The results were non-detect for this compound.

For Method 8260, the RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-595025 recovered outside control limits for the following analytes: Bromoform, n-Butylbenzene, and Styrene. The associated samples were non-detect for the affected analytes and within recovery limits in the LCS and LCSD.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

1,2-DIBROMOETHANE, 1,2-DIBROMO-3-CHLOROPROPANE, AND 1,2,3-TRICHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY

Samples TB03 (280-169431-1), MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, and 1,2,3-trichloropropane by microextraction and gas chromatography in accordance with EPA SW-846 Method 8011. The samples were prepared and analyzed on 11/22/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS

Samples MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/02/2022 and analyzed on 12/06/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 280-169431-1 (Continued)

Laboratory: Eurofins Denver (Continued)

ALKALINITY
Samples MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 11/22/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS
Samples MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 11/22/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)
Samples MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for anions (28 days) in accordance with EPA Method 300.0 (28 Days). The samples were analyzed on 12/03/2022.

Chloride failed the recovery criteria low for the MS/MSD of sample 480-204056-2 in batch 480-651985.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AMMONIA
Samples MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 12/08/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN
Samples MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 12/09/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Samples MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 12/06/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE
Samples MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for Cation Anion Balance in accordance with epa methodologies. The samples were analyzed on 12/12/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE
Samples MW-19A (280-169431-2) and DUP11172201 (280-169431-3) were analyzed for Cation Anion Balance in accordance with Cation Anion Balance. The samples were analyzed on 12/12/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GENERAL COMMENTS

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169431-1

Client Sample ID: TB03 — Lab Sample ID: 280-169431-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	13		6.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-19A — Lab Sample ID: 280-169431-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	31000		500		ug/L	1		6010B	Dissolved
Iron	180		30		ug/L	1		6010B	Dissolved
Magnesium	10000		200		ug/L	1		6010B	Dissolved
Manganese	220		3.0		ug/L	1		6010B	Dissolved
Potassium	1200		500		ug/L	1		6010B	Dissolved
Sodium	11000		1000		ug/L	1		6010B	Dissolved
Chloride	18		0.50		mg/L	1		300.0	Total/NA
Sulfate	3.8		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.11		0.030		mg/L	1		350.1	Total/NA
Total Anions	3.0				meq/L	1		SM 1030E	Total/NA
Total Cations	2.9				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.5				%	1		SM 1030E	Total/NA
Calcium	31				mg/L	1		SM 1030E	Total/NA
Magnesium	10				mg/L	1		SM 1030E	Total/NA
Potassium	1.2				mg/L	1		SM 1030E	Total/NA
Sodium	11				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.11				mg/L	1		SM 1030E	Total/NA
Chloride	18				mg/L	1		SM 1030E	Total/NA
Sulfate	3.8				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	120				mg/L	1		SM 1030E	Total/NA
Alkalinity	120				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.5				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	160				mg/L	1		SM 1030E	Total/NA
Iron	0.18				mg/L	1		SM 1030E	Total/NA
Calcium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.82				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.031				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.48				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.0079				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.51				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.079				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	120				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	2.4				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.0097				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	120		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	160		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP11172201 — Lab Sample ID: 280-169431-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	31000		500		ug/L	1		6010B	Dissolved
Iron	180		30		ug/L	1		6010B	Dissolved
Magnesium	10000		200		ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: DUP11172201 (Continued)

Lab Sample ID: 280-169431-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	220		3.0		ug/L	1		6010B	Dissolved
Potassium	1200		500		ug/L	1		6010B	Dissolved
Sodium	11000		1000		ug/L	1		6010B	Dissolved
Chloride	18		0.50		mg/L	1		300.0	Total/NA
Sulfate	3.8		1.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.11		0.030		mg/L	1		350.1	Total/NA
Total Anions	3.0				meq/L	1		SM 1030E	Total/NA
Total Cations	2.9				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.5				%	1		SM 1030E	Total/NA
Calcium	31				mg/L	1		SM 1030E	Total/NA
Magnesium	10				mg/L	1		SM 1030E	Total/NA
Potassium	1.2				mg/L	1		SM 1030E	Total/NA
Sodium	11				mg/L	1		SM 1030E	Total/NA
Ammonia as N	0.11				mg/L	1		SM 1030E	Total/NA
Chloride	18				mg/L	1		SM 1030E	Total/NA
Sulfate	3.8				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	120				mg/L	1		SM 1030E	Total/NA
Alkalinity	120				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	0.00				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.5				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	160				mg/L	1		SM 1030E	Total/NA
Iron	0.18				mg/L	1		SM 1030E	Total/NA
Calcium	1.5				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	0.82				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	0.031				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	0.48				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia as N	0.0079				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	0.51				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	0.079				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	120				mg/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	2.4				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate/Nitrite	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.0097				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity	120		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	160		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-169431-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-169431-1	TB03	Water	11/17/22 07:00	11/19/22 09:20
280-169431-2	MW-19A	Water	11/17/22 10:25	11/19/22 09:20
280-169431-3	DUP11172201	Water	11/17/22 10:30	11/19/22 09:20

Method Summary

Client: Waste Management
Job ID: 280-169431-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	MCAWW	EET BUF
350.1	Nitrogen, Ammonia	MCAWW	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8011	Microextraction	SW846	EET DEN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169431-1

Client Sample ID: TB03
Date Collected: 11/17/22 07:00
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169431-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 11:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/30/22 11:11	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 11:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/30/22 11:11	1
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 11:11	1
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 11:11	1
1,1-Dichloropropene	ND		1.0		ug/L			11/30/22 11:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/30/22 11:11	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/30/22 11:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/30/22 11:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 11:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/30/22 11:11	1
1,2-Dichloroethane	ND		1.0		ug/L			11/30/22 11:11	1
1,2-Dichloropropane	ND		1.0		ug/L			11/30/22 11:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/30/22 11:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/30/22 11:11	1
1,3-Dichloropropane	ND	*-	1.0		ug/L			11/30/22 11:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/30/22 11:11	1
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 11:11	1
2-Butanone (MEK)	**13**		6.0		ug/L			11/30/22 11:11	1
2-Chlorotoluene	ND		1.0		ug/L			11/30/22 11:11	1
2-Hexanone	ND		5.0		ug/L			11/30/22 11:11	1
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 11:11	1
4-Isopropyltoluene	ND		1.0		ug/L			11/30/22 11:11	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 11:11	1
Acetone	ND		10		ug/L			11/30/22 11:11	1
Benzene	ND		1.0		ug/L			11/30/22 11:11	1
Bromobenzene	ND		1.0		ug/L			11/30/22 11:11	1
Bromochloromethane	ND		1.0		ug/L			11/30/22 11:11	1
Bromodichloromethane	ND		1.0		ug/L			11/30/22 11:11	1
Bromoform	ND	*1	1.2		ug/L			11/30/22 11:11	1
Bromomethane	ND		2.4		ug/L			11/30/22 11:11	1
Carbon disulfide	ND		2.0		ug/L			11/30/22 11:11	1
Carbon tetrachloride	ND		1.0		ug/L			11/30/22 11:11	1
Chlorobenzene	ND		1.0		ug/L			11/30/22 11:11	1
Chloroethane	ND		2.0		ug/L			11/30/22 11:11	1
Chloroform	ND		1.0		ug/L			11/30/22 11:11	1
Chloromethane	ND		2.0		ug/L			11/30/22 11:11	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 11:11	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/30/22 11:11	1
Dibromochloromethane	ND		1.0		ug/L			11/30/22 11:11	1
Dibromomethane	ND		1.0		ug/L			11/30/22 11:11	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/30/22 11:11	1
Ethylbenzene	ND		1.0		ug/L			11/30/22 11:11	1
Hexachlorobutadiene	ND		1.2		ug/L			11/30/22 11:11	1
Isopropylbenzene	ND		1.0		ug/L			11/30/22 11:11	1
Methylene Chloride	ND		5.0		ug/L			11/30/22 11:11	1
Naphthalene	ND		1.0		ug/L			11/30/22 11:11	1
n-Butylbenzene	ND	*1	1.0		ug/L			11/30/22 11:11	1

Client Sample ID: TB03

Date Collected: 11/17/22 07:00
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169431-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			11/30/22 11:11	1
sec-Butylbenzene	ND		1.0		ug/L			11/30/22 11:11	1
Styrene	ND	*1	1.0		ug/L			11/30/22 11:11	1
tert-Butylbenzene	ND		1.0		ug/L			11/30/22 11:11	1
Tetrachloroethene	ND		1.0		ug/L			11/30/22 11:11	1
Toluene	ND		1.0		ug/L			11/30/22 11:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 11:11	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 11:11	1
Trichloroethene	ND		1.0		ug/L			11/30/22 11:11	1
Trichlorofluoromethane	ND		2.0		ug/L			11/30/22 11:11	1
Vinyl chloride	ND		1.0		ug/L			11/30/22 11:11	1
Xylenes (total)	ND		2.0		ug/L			11/30/22 11:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 11:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*11/30/22 11:11*	*1*
4-Bromofluorobenzene (Surr)	*87*		*78 - 120*		*11/30/22 11:11*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*11/30/22 11:11*	*1*
Toluene-d8 (Surr)	*108*		*80 - 125*		*11/30/22 11:11*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 17:47	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*125*		*70 - 130*	*11/22/22 11:24*	*11/22/22 17:47*	*1*

Client Sample ID: MW-19A

Date Collected: 11/17/22 10:25
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169431-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 14:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/30/22 14:19	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 14:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/30/22 14:19	1
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 14:19	1
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 14:19	1
1,1-Dichloropropene	ND		1.0		ug/L			11/30/22 14:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/30/22 14:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/30/22 14:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/30/22 14:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 14:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/30/22 14:19	1
1,2-Dichloroethane	ND		1.0		ug/L			11/30/22 14:19	1
1,2-Dichloropropane	ND		1.0		ug/L			11/30/22 14:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/30/22 14:19	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169431-1

Client Sample ID: MW-19A
Date Collected: 11/17/22 10:25
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169431-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			11/30/22 14:19	1
1,3-Dichloropropane	ND	*-	1.0		ug/L			11/30/22 14:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/30/22 14:19	1
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 14:19	1
2-Butanone (MEK)	ND		6.0		ug/L			11/30/22 14:19	1
2-Chlorotoluene	ND		1.0		ug/L			11/30/22 14:19	1
2-Hexanone	ND		5.0		ug/L			11/30/22 14:19	1
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 14:19	1
4-Isopropyltoluene	ND		1.0		ug/L			11/30/22 14:19	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 14:19	1
Acetone	ND		10		ug/L			11/30/22 14:19	1
Benzene	ND		1.0		ug/L			11/30/22 14:19	1
Bromobenzene	ND		1.0		ug/L			11/30/22 14:19	1
Bromochloromethane	ND		1.0		ug/L			11/30/22 14:19	1
Bromodichloromethane	ND		1.0		ug/L			11/30/22 14:19	1
Bromoform	ND	*1	1.2		ug/L			11/30/22 14:19	1
Bromomethane	ND		2.4		ug/L			11/30/22 14:19	1
Carbon disulfide	ND		2.0		ug/L			11/30/22 14:19	1
Carbon tetrachloride	ND		1.0		ug/L			11/30/22 14:19	1
Chlorobenzene	ND		1.0		ug/L			11/30/22 14:19	1
Chloroethane	ND		2.0		ug/L			11/30/22 14:19	1
Chloroform	ND		1.0		ug/L			11/30/22 14:19	1
Chloromethane	ND		2.0		ug/L			11/30/22 14:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 14:19	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/30/22 14:19	1
Dibromochloromethane	ND		1.0		ug/L			11/30/22 14:19	1
Dibromomethane	ND		1.0		ug/L			11/30/22 14:19	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/30/22 14:19	1
Ethylbenzene	ND		1.0		ug/L			11/30/22 14:19	1
Hexachlorobutadiene	ND		1.2		ug/L			11/30/22 14:19	1
Isopropylbenzene	ND		1.0		ug/L			11/30/22 14:19	1
Methylene Chloride	ND		5.0		ug/L			11/30/22 14:19	1
Naphthalene	ND		1.0		ug/L			11/30/22 14:19	1
n-Butylbenzene	ND	*1	1.0		ug/L			11/30/22 14:19	1
N-Propylbenzene	ND		1.0		ug/L			11/30/22 14:19	1
sec-Butylbenzene	ND		1.0		ug/L			11/30/22 14:19	1
Styrene	ND	*1	1.0		ug/L			11/30/22 14:19	1
tert-Butylbenzene	ND		1.0		ug/L			11/30/22 14:19	1
Tetrachloroethene	ND		1.0		ug/L			11/30/22 14:19	1
Toluene	ND		1.0		ug/L			11/30/22 14:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 14:19	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 14:19	1
Trichloroethene	ND		1.0		ug/L			11/30/22 14:19	1
Trichlorofluoromethane	ND		2.0		ug/L			11/30/22 14:19	1
Vinyl chloride	ND		1.0		ug/L			11/30/22 14:19	1
Xylenes (total)	ND		2.0		ug/L			11/30/22 14:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 14:19*	*1*

Client Sample ID: MW-19A

Date Collected: 11/17/22 10:25
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169431-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*11/30/22 14:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*11/30/22 14:19*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*11/30/22 14:19*	*1*
Toluene-d8 (Surr)	*111*		*80 - 125*		*11/30/22 14:19*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 18:12	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*126*		*70 - 130*	*11/22/22 11:24*	*11/22/22 18:12*	*1*

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**31000**		500		ug/L		12/02/22 19:28	12/06/22 05:02	1
Iron	**180**		30		ug/L		12/02/22 19:28	12/06/22 05:02	1
Magnesium	**10000**		200		ug/L		12/02/22 19:28	12/06/22 05:02	1
Manganese	**220**		3.0		ug/L		12/02/22 19:28	12/06/22 05:02	1
Potassium	**1200**		500		ug/L		12/02/22 19:28	12/06/22 05:02	1
Sodium	**11000**		1000		ug/L		12/02/22 19:28	12/06/22 05:02	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**3.0**				meq/L			12/12/22 10:02	1
Total Cations (SM 1030E)	**2.9**				meq/L			12/12/22 10:02	1
Percent Difference (SM 1030E)	**-1.5**				%			12/12/22 10:02	1
Calcium (SM 1030E)	**31**				mg/L			12/12/22 10:02	1
Magnesium (SM 1030E)	**10**				mg/L			12/12/22 10:02	1
Potassium (SM 1030E)	**1.2**				mg/L			12/12/22 10:02	1
Sodium (SM 1030E)	**11**				mg/L			12/12/22 10:02	1
Ammonia as N (SM 1030E)	**0.11**				mg/L			12/12/22 10:02	1
Chloride (SM 1030E)	**18**				mg/L			12/12/22 10:02	1
Sulfate (SM 1030E)	**3.8**				mg/L			12/12/22 10:02	1
Bicarbonate Alkalinity (SM 1030E)	**120**				mg/L			12/12/22 10:02	1
Alkalinity (SM 1030E)	**120**				mg/L			12/12/22 10:02	1
Nitrate/Nitrite (SM 1030E)	**0.00**				mg/L			12/12/22 10:02	1
Anion/Cation Balance (SM 1030E)	**-1.5**				%			12/12/22 10:02	1
Calculated TDS (SM 1030E)	**140**				mg/L			12/12/22 10:02	1
TDS Ratio (SM 1030E)	**1.1**				NONE			12/12/22 10:02	1
Total Dissolved Solids (SM 1030E)	**160**				mg/L			12/12/22 10:02	1
Iron (SM 1030E)	**0.18**				mg/L			12/12/22 10:02	1
Calcium (SM 1030E (meq))	**1.5**				meq/L			12/12/22 10:02	1
Magnesium (SM 1030E (meq))	**0.82**				meq/L			12/12/22 10:02	1
Potassium (SM 1030E (meq))	**0.031**				meq/L			12/12/22 10:02	1
Sodium (SM 1030E (meq))	**0.48**				meq/L			12/12/22 10:02	1
Ammonia as N (SM 1030E (meq))	**0.0079**				meq/L			12/12/22 10:02	1
Chloride (SM 1030E (meq))	**0.51**				meq/L			12/12/22 10:02	1
Sulfate (SM 1030E (meq))	**0.079**				meq/L			12/12/22 10:02	1
Alkalinity (SM 1030E (meq))	**120**				mg/L			12/12/22 10:02	1

Client Sample ID: MW-19A

Date Collected: 11/17/22 10:25
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169431-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 1030E (meq))	2.4				meq/L			12/12/22 10:02	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			12/12/22 10:02	1
Iron (SM 1030E (meq))	0.0097				meq/L			12/12/22 10:02	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	18		0.50		mg/L			12/03/22 01:50	1
Sulfate (MCAWW 300.0)	3.8		1.0		mg/L			12/03/22 01:50	1
Ammonia as N (MCAWW 350.1)	0.11		0.030		mg/L			12/08/22 11:56	1
Nitrate/Nitrite (MCAWW 353.2)	ND		0.050		mg/L			12/09/22 15:32	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			12/06/22 19:59	1
Bicarbonate Alkalinity (SM 2320B)	120		10		mg/L			11/22/22 23:24	1
Total Dissolved Solids (SM 2540C)	160		10		mg/L			11/22/22 13:15	1

Client Sample ID: DUP11172201

Date Collected: 11/17/22 10:30
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169431-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 14:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/30/22 14:40	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 14:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/30/22 14:40	1
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 14:40	1
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 14:40	1
1,1-Dichloropropene	ND		1.0		ug/L			11/30/22 14:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/30/22 14:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/30/22 14:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/30/22 14:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 14:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/30/22 14:40	1
1,2-Dichloroethane	ND		1.0		ug/L			11/30/22 14:40	1
1,2-Dichloropropane	ND		1.0		ug/L			11/30/22 14:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/30/22 14:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/30/22 14:40	1
1,3-Dichloropropane	ND	*-	1.0		ug/L			11/30/22 14:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/30/22 14:40	1
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 14:40	1
2-Butanone (MEK)	ND		6.0		ug/L			11/30/22 14:40	1
2-Chlorotoluene	ND		1.0		ug/L			11/30/22 14:40	1
2-Hexanone	ND		5.0		ug/L			11/30/22 14:40	1
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 14:40	1
4-Isopropyltoluene	ND		1.0		ug/L			11/30/22 14:40	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 14:40	1
Acetone	ND		10		ug/L			11/30/22 14:40	1
Benzene	ND		1.0		ug/L			11/30/22 14:40	1
Bromobenzene	ND		1.0		ug/L			11/30/22 14:40	1
Bromochloromethane	ND		1.0		ug/L			11/30/22 14:40	1
Bromodichloromethane	ND		1.0		ug/L			11/30/22 14:40	1

Client Sample ID: DUP11172201

Date Collected: 11/17/22 10:30
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169431-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND	*1	1.2		ug/L			11/30/22 14:40	1
Bromomethane	ND		2.4		ug/L			11/30/22 14:40	1
Carbon disulfide	ND		2.0		ug/L			11/30/22 14:40	1
Carbon tetrachloride	ND		1.0		ug/L			11/30/22 14:40	1
Chlorobenzene	ND		1.0		ug/L			11/30/22 14:40	1
Chloroethane	ND		2.0		ug/L			11/30/22 14:40	1
Chloroform	ND		1.0		ug/L			11/30/22 14:40	1
Chloromethane	ND		2.0		ug/L			11/30/22 14:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 14:40	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/30/22 14:40	1
Dibromochloromethane	ND		1.0		ug/L			11/30/22 14:40	1
Dibromomethane	ND		1.0		ug/L			11/30/22 14:40	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/30/22 14:40	1
Ethylbenzene	ND		1.0		ug/L			11/30/22 14:40	1
Hexachlorobutadiene	ND		1.2		ug/L			11/30/22 14:40	1
Isopropylbenzene	ND		1.0		ug/L			11/30/22 14:40	1
Methylene Chloride	ND		5.0		ug/L			11/30/22 14:40	1
Naphthalene	ND		1.0		ug/L			11/30/22 14:40	1
n-Butylbenzene	ND	*1	1.0		ug/L			11/30/22 14:40	1
N-Propylbenzene	ND		1.0		ug/L			11/30/22 14:40	1
sec-Butylbenzene	ND		1.0		ug/L			11/30/22 14:40	1
Styrene	ND	*1	1.0		ug/L			11/30/22 14:40	1
tert-Butylbenzene	ND		1.0		ug/L			11/30/22 14:40	1
Tetrachloroethene	ND		1.0		ug/L			11/30/22 14:40	1
Toluene	ND		1.0		ug/L			11/30/22 14:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 14:40	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 14:40	1
Trichloroethene	ND		1.0		ug/L			11/30/22 14:40	1
Trichlorofluoromethane	ND		2.0		ug/L			11/30/22 14:40	1
Vinyl chloride	ND		1.0		ug/L			11/30/22 14:40	1
Xylenes (total)	ND		2.0		ug/L			11/30/22 14:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 14:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*11/30/22 14:40*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*11/30/22 14:40*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 120*		*11/30/22 14:40*	*1*
Toluene-d8 (Surr)	*113*		*80 - 125*		*11/30/22 14:40*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 18:37	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*119*		*70 - 130*	*11/22/22 11:24*	*11/22/22 18:37*	*1*

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169431-1

Client Sample ID: DUP11172201

Date Collected: 11/17/22 10:30
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169431-3

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	31000		500		ug/L		12/02/22 19:28	12/06/22 05:06	1
Iron	180		30		ug/L		12/02/22 19:28	12/06/22 05:06	1
Magnesium	10000		200		ug/L		12/02/22 19:28	12/06/22 05:06	1
Manganese	220		3.0		ug/L		12/02/22 19:28	12/06/22 05:06	1
Potassium	1200		500		ug/L		12/02/22 19:28	12/06/22 05:06	1
Sodium	11000		1000		ug/L		12/02/22 19:28	12/06/22 05:06	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	3.0				meq/L			12/12/22 10:02	1
Total Cations (SM 1030E)	2.9				meq/L			12/12/22 10:02	1
Percent Difference (SM 1030E)	-1.5				%			12/12/22 10:02	1
Calcium (SM 1030E)	31				mg/L			12/12/22 10:02	1
Magnesium (SM 1030E)	10				mg/L			12/12/22 10:02	1
Potassium (SM 1030E)	1.2				mg/L			12/12/22 10:02	1
Sodium (SM 1030E)	11				mg/L			12/12/22 10:02	1
Ammonia as N (SM 1030E)	0.11				mg/L			12/12/22 10:02	1
Chloride (SM 1030E)	18				mg/L			12/12/22 10:02	1
Sulfate (SM 1030E)	3.8				mg/L			12/12/22 10:02	1
Bicarbonate Alkalinity (SM 1030E)	120				mg/L			12/12/22 10:02	1
Alkalinity (SM 1030E)	120				mg/L			12/12/22 10:02	1
Nitrate/Nitrite (SM 1030E)	0.00				mg/L			12/12/22 10:02	1
Anion/Cation Balance (SM 1030E)	-1.5				%			12/12/22 10:02	1
Calculated TDS (SM 1030E)	140				mg/L			12/12/22 10:02	1
TDS Ratio (SM 1030E)	1.1				NONE			12/12/22 10:02	1
Total Dissolved Solids (SM 1030E)	160				mg/L			12/12/22 10:02	1
Iron (SM 1030E)	0.18				mg/L			12/12/22 10:02	1
Calcium (SM 1030E (meq))	1.5				meq/L			12/12/22 10:02	1
Magnesium (SM 1030E (meq))	0.82				meq/L			12/12/22 10:02	1
Potassium (SM 1030E (meq))	0.031				meq/L			12/12/22 10:02	1
Sodium (SM 1030E (meq))	0.48				meq/L			12/12/22 10:02	1
Ammonia as N (SM 1030E (meq))	0.0079				meq/L			12/12/22 10:02	1
Chloride (SM 1030E (meq))	0.51				meq/L			12/12/22 10:02	1
Sulfate (SM 1030E (meq))	0.079				meq/L			12/12/22 10:02	1
Alkalinity (SM 1030E (meq))	120				mg/L			12/12/22 10:02	1
Bicarbonate Alkalinity (SM 1030E (meq))	2.4				meq/L			12/12/22 10:02	1
Nitrate/Nitrite (SM 1030E (meq))	0.00				meq/L			12/12/22 10:02	1
Iron (SM 1030E (meq))	0.0097				meq/L			12/12/22 10:02	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	18		0.50		mg/L			12/03/22 02:10	1
Sulfate (MCAWW 300.0)	3.8		1.0		mg/L			12/03/22 02:10	1
Ammonia as N (MCAWW 350.1)	0.11		0.030		mg/L			12/08/22 11:58	1
Nitrate/Nitrite (MCAWW 353.2)	ND		0.050		mg/L			12/09/22 15:34	1
Total Organic Carbon - Average (SW846 9060)	ND		1.0		mg/L			12/06/22 20:13	1
Bicarbonate Alkalinity (SM 2320B)	120		10		mg/L			11/22/22 23:30	1
Total Dissolved Solids (SM 2540C)	160		10		mg/L			11/22/22 13:15	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169431-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-169431-1	TB03	99	87	102	108
280-169431-2	MW-19A	98	101	101	111
280-169431-3	DUP11172201	98	93	107	113
LCS 280-595025/1002	Lab Control Sample	78	92	93	98
LCSD 280-595025/4	Lab Control Sample Dup	88	89	100	97
MB 280-595025/8	Method Blank	81	91	97	86

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-169431-1	TB03	125
280-169431-2	MW-19A	126
280-169431-3	DUP11172201	119
LCS 280-594402/2-A	Lab Control Sample	121
LCSD 280-594402/3-A	Lab Control Sample Dup	125
MB 280-594402/1-A	Method Blank	124

Surrogate Legend

12DBP = 1,2-Dibromopropane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-595025/8
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
1,1-Dichloropropene	ND		1.0		ug/L			11/30/22 09:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/30/22 09:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2-Dichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,2-Dichloropropane	ND		1.0		ug/L			11/30/22 09:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,3-Dichloropropane	ND		1.0		ug/L			11/30/22 09:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 09:26	1
2-Butanone (MEK)	ND		6.0		ug/L			11/30/22 09:26	1
2-Chlorotoluene	ND		1.0		ug/L			11/30/22 09:26	1
2-Hexanone	ND		5.0		ug/L			11/30/22 09:26	1
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 09:26	1
4-Isopropyltoluene	ND		1.0		ug/L			11/30/22 09:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 09:26	1
Acetone	ND		10		ug/L			11/30/22 09:26	1
Benzene	ND		1.0		ug/L			11/30/22 09:26	1
Bromobenzene	ND		1.0		ug/L			11/30/22 09:26	1
Bromochloromethane	ND		1.0		ug/L			11/30/22 09:26	1
Bromodichloromethane	ND		1.0		ug/L			11/30/22 09:26	1
Bromoform	ND		1.2		ug/L			11/30/22 09:26	1
Bromomethane	ND		2.4		ug/L			11/30/22 09:26	1
Carbon disulfide	ND		2.0		ug/L			11/30/22 09:26	1
Carbon tetrachloride	ND		1.0		ug/L			11/30/22 09:26	1
Chlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
Chloroethane	ND		2.0		ug/L			11/30/22 09:26	1
Chloroform	ND		1.0		ug/L			11/30/22 09:26	1
Chloromethane	ND		2.0		ug/L			11/30/22 09:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/30/22 09:26	1
Dibromochloromethane	ND		1.0		ug/L			11/30/22 09:26	1
Dibromomethane	ND		1.0		ug/L			11/30/22 09:26	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/30/22 09:26	1
Ethylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Hexachlorobutadiene	ND		1.2		ug/L			11/30/22 09:26	1
Isopropylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Methylene Chloride	ND		5.0		ug/L			11/30/22 09:26	1
Naphthalene	ND		1.0		ug/L			11/30/22 09:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-595025/8
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
N-Propylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
sec-Butylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Styrene	ND		1.0		ug/L			11/30/22 09:26	1
tert-Butylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Tetrachloroethene	ND		1.0		ug/L			11/30/22 09:26	1
Toluene	ND		1.0		ug/L			11/30/22 09:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 09:26	1
Trichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
Trichlorofluoromethane	ND		2.0		ug/L			11/30/22 09:26	1
Vinyl chloride	ND		1.0		ug/L			11/30/22 09:26	1
Xylenes (total)	ND		2.0		ug/L			11/30/22 09:26	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 09:26*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 127*		*11/30/22 09:26*	*1*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*11/30/22 09:26*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*11/30/22 09:26*	*1*
Toluene-d8 (Surr)	*86*		*80 - 125*		*11/30/22 09:26*	*1*

Lab Sample ID: LCS 280-595025/1002
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	74 - 121
1,1,1-Trichloroethane	25.0	20.9		ug/L		83	62 - 132
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	72 - 122
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	72 - 128
1,1-Dichloroethane	25.0	22.8		ug/L		91	66 - 130
1,1-Dichloroethene	25.0	23.7		ug/L		95	62 - 130
1,1-Dichloropropene	25.0	21.3		ug/L		85	64 - 133
1,2,3-Trichlorobenzene	25.0	30.4		ug/L		122	70 - 127
1,2,3-Trichloropropane	25.0	27.2		ug/L		109	74 - 123
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		105	73 - 124
1,2,4-Trimethylbenzene	25.0	21.5		ug/L		86	74 - 124
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	77 - 121
1,2-Dichloroethane	25.0	20.7		ug/L		83	61 - 130
1,2-Dichloropropane	25.0	22.1		ug/L		89	68 - 127
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	73 - 127
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	76 - 121
1,3-Dichloropropane	25.0	19.7	*-	ug/L		79	80 - 118
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	76 - 119
2,2-Dichloropropane	25.0	22.4		ug/L		90	57 - 140
2-Butanone (MEK)	100	83.0		ug/L		83	53 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-595025/1002
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	25.0	24.8		ug/L		99	75 - 123
2-Hexanone	100	82.6		ug/L		83	58 - 134
4-Chlorotoluene	25.0	21.9		ug/L		88	74 - 124
4-Isopropyltoluene	25.0	23.8		ug/L		95	74 - 127
4-Methyl-2-pentanone	100	90.8		ug/L		91	56 - 135
Acetone	100	82.2		ug/L		82	50 - 137
Benzene	25.0	23.4		ug/L		93	69 - 126
Bromobenzene	25.0	24.6		ug/L		98	75 - 122
Bromochloromethane	25.0	25.7		ug/L		103	71 - 130
Bromodichloromethane	25.0	23.3		ug/L		93	67 - 126
Bromoform	25.0	28.7		ug/L		115	57 - 125
Bromomethane	25.0	21.9		ug/L		87	25 - 163
Carbon disulfide	25.0	24.8		ug/L		99	56 - 128
Carbon tetrachloride	25.0	22.6		ug/L		90	60 - 133
Chlorobenzene	25.0	24.2		ug/L		97	78 - 118
Chloroethane	25.0	21.4		ug/L		86	52 - 144
Chloroform	25.0	21.9		ug/L		88	68 - 128
Chloromethane	25.0	25.3		ug/L		101	43 - 142
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	69 - 126
cis-1,3-Dichloropropene	25.0	21.9		ug/L		88	75 - 120
Dibromochloromethane	25.0	22.4		ug/L		89	71 - 122
Dibromomethane	25.0	23.9		ug/L		96	68 - 129
Dichlorodifluoromethane	25.0	26.8		ug/L		107	26 - 152
Ethylbenzene	25.0	24.9		ug/L		100	76 - 121
Hexachlorobutadiene	25.0	22.0		ug/L		88	69 - 133
Isopropylbenzene	25.0	22.6		ug/L		90	70 - 127
Methylene Chloride	25.0	26.7		ug/L		107	64 - 128
Naphthalene	25.0	27.9		ug/L		111	63 - 129
n-Butylbenzene	25.0	25.8		ug/L		103	69 - 130
N-Propylbenzene	25.0	23.9		ug/L		96	73 - 127
sec-Butylbenzene	25.0	24.7		ug/L		99	72 - 127
Styrene	25.0	25.8		ug/L		103	79 - 120
tert-Butylbenzene	25.0	22.2		ug/L		89	72 - 126
Tetrachloroethene	25.0	23.8		ug/L		95	72 - 127
Toluene	25.0	23.3		ug/L		93	68 - 127
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	66 - 129
trans-1,3-Dichloropropene	25.0	22.2		ug/L		89	66 - 127
Trichloroethene	25.0	23.4		ug/L		94	70 - 125
Trichlorofluoromethane	25.0	17.7		ug/L		71	57 - 144
Vinyl chloride	25.0	23.5		ug/L		94	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*70 - 127*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-595025/4
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	21.5		ug/L		86	74 - 121	16	20
1,1,1-Trichloroethane			25.0	21.4		ug/L		85	62 - 132	2	20
1,1,2,2-Tetrachloroethane			25.0	27.2		ug/L		109	72 - 122	5	20
1,1,2-Trichloroethane			25.0	23.4		ug/L		94	72 - 128	1	20
1,1-Dichloroethane			25.0	22.0		ug/L		88	66 - 130	4	20
1,1-Dichloroethene			25.0	23.8		ug/L		95	62 - 130	1	21
1,1-Dichloropropene			25.0	21.7		ug/L		87	64 - 133	2	20
1,2,3-Trichlorobenzene			25.0	31.7		ug/L		127	70 - 127	4	20
1,2,3-Trichloropropane			25.0	26.2		ug/L		105	74 - 123	4	20
1,2,4-Trichlorobenzene			25.0	25.4		ug/L		102	73 - 124	3	20
1,2,4-Trimethylbenzene			25.0	20.4		ug/L		82	74 - 124	5	20
1,2-Dichlorobenzene			25.0	22.8		ug/L		91	77 - 121	15	20
1,2-Dichloroethane			25.0	19.9		ug/L		80	61 - 130	4	20
1,2-Dichloropropane			25.0	21.3		ug/L		85	68 - 127	4	20
1,3,5-Trimethylbenzene			25.0	20.3		ug/L		81	73 - 127	18	20
1,3-Dichlorobenzene			25.0	22.0		ug/L		88	76 - 121	5	20
1,3-Dichloropropane			25.0	20.9		ug/L		84	80 - 118	6	20
1,4-Dichlorobenzene			25.0	21.5		ug/L		86	76 - 119	9	20
2,2-Dichloropropane			25.0	21.5		ug/L		86	57 - 140	4	22
2-Butanone (MEK)			100	80.8		ug/L		81	53 - 135	3	20
2-Chlorotoluene			25.0	25.0		ug/L		100	75 - 123	1	20
2-Hexanone			100	87.3		ug/L		87	58 - 134	6	21
4-Chlorotoluene			25.0	21.5		ug/L		86	74 - 124	2	20
4-Isopropyltoluene			25.0	21.5		ug/L		86	74 - 127	10	20
4-Methyl-2-pentanone			100	91.8		ug/L		92	56 - 135	1	20
Acetone			100	84.6		ug/L		85	50 - 137	3	21
Benzene			25.0	22.3		ug/L		89	69 - 126	5	20
Bromobenzene			25.0	24.5		ug/L		98	75 - 122	0	20
Bromochloromethane			25.0	24.9		ug/L		100	71 - 130	3	20
Bromodichloromethane			25.0	22.3		ug/L		89	67 - 126	4	20
Bromoform			25.0	23.0	*1	ug/L		92	57 - 125	22	20
Bromomethane			25.0	20.6		ug/L		82	25 - 163	6	40
Carbon disulfide			25.0	23.3		ug/L		93	56 - 128	6	20
Carbon tetrachloride			25.0	23.1		ug/L		93	60 - 133	3	20
Chlorobenzene			25.0	21.3		ug/L		85	78 - 118	13	20
Chloroethane			25.0	21.0		ug/L		84	52 - 144	2	30
Chloroform			25.0	21.9		ug/L		87	68 - 128	0	20
Chloromethane			25.0	20.7		ug/L		83	43 - 142	20	20
cis-1,2-Dichloroethene			25.0	23.4		ug/L		94	69 - 126	5	20
cis-1,3-Dichloropropene			25.0	20.9		ug/L		83	75 - 120	5	20
Dibromochloromethane			25.0	22.8		ug/L		91	71 - 122	2	20
Dibromomethane			25.0	22.5		ug/L		90	68 - 129	6	20
Dichlorodifluoromethane			25.0	24.9		ug/L		100	26 - 152	7	21
Ethylbenzene			25.0	20.8		ug/L		83	76 - 121	18	20
Hexachlorobutadiene			25.0	20.4		ug/L		82	69 - 133	7	20
Isopropylbenzene			25.0	23.4		ug/L		94	70 - 127	4	20
Methylene Chloride			25.0	25.2		ug/L		101	64 - 128	6	20
Naphthalene			25.0	26.8		ug/L		107	63 - 129	4	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-595025/4
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
n-Butylbenzene			25.0	20.7	*1	ug/L		83	69 - 130	22	20
N-Propylbenzene			25.0	23.2		ug/L		93	73 - 127	3	20
sec-Butylbenzene			25.0	22.3		ug/L		89	72 - 127	10	20
Styrene			25.0	20.8	*1	ug/L		83	79 - 120	22	20
tert-Butylbenzene			25.0	24.3		ug/L		97	72 - 126	9	20
Tetrachloroethene			25.0	21.0		ug/L		84	72 - 127	13	20
Toluene			25.0	23.4		ug/L		94	68 - 127	0	20
trans-1,2-Dichloroethene			25.0	24.0		ug/L		96	66 - 129	6	20
trans-1,3-Dichloropropene			25.0	22.2		ug/L		89	66 - 127	0	20
Trichloroethene			25.0	22.2		ug/L		89	70 - 125	5	20
Trichlorofluoromethane			25.0	17.8		ug/L		71	57 - 144	0	28
Vinyl chloride			25.0	20.3		ug/L		81	53 - 141	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*
4-Bromofluorobenzene (Surr)	*89*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-594402/1-A
Matrix: Water
Analysis Batch: 594425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		11/22/22 11:24	11/22/22 15:18	1
1,2-Dibromoethane	ND		0.050		ug/L		11/22/22 11:24	11/22/22 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*124*		*70 - 130*	*11/22/22 11:24*	*11/22/22 15:18*	*1*

Lab Sample ID: LCS 280-594402/2-A
Matrix: Water
Analysis Batch: 594425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594402

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane			0.250	0.257		ug/L		103	60 - 140
1,2-Dibromoethane			0.250	0.229		ug/L		92	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*121*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 280-594402/3-A
Matrix: Water
Analysis Batch: 594425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 594402

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.250	0.273		ug/L		109	60 - 140	6	10
1,2-Dibromoethane			0.250	0.239		ug/L		95	60 - 140	4	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*125*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-595232/1-A
Matrix: Water
Analysis Batch: 595725

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 595232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		500		ug/L		12/02/22 19:28	12/06/22 03:04	1
Iron	ND		30		ug/L		12/02/22 19:28	12/06/22 03:04	1
Magnesium	ND		200		ug/L		12/02/22 19:28	12/06/22 03:04	1
Manganese	ND		3.0		ug/L		12/02/22 19:28	12/06/22 03:04	1
Potassium	ND		500		ug/L		12/02/22 19:28	12/06/22 03:04	1
Sodium	ND		1000		ug/L		12/02/22 19:28	12/06/22 03:04	1

Lab Sample ID: LCS 280-595232/2-A
Matrix: Water
Analysis Batch: 595725

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 595232

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50000	49900		ug/L		100	90 - 111		
Iron			10000	10100		ug/L		101	89 - 115		
Magnesium			50000	50700		ug/L		101	90 - 113		
Manganese			1000	1020		ug/L		102	90 - 110		
Potassium			50000	47800		ug/L		96	89 - 114		
Sodium			50000	50200		ug/L		100	90 - 115		

Lab Sample ID: LCSD 280-595232/3-A
Matrix: Water
Analysis Batch: 595725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 595232

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium			50000	49000		ug/L		98	90 - 111	2	20
Iron			10000	9910		ug/L		99	89 - 115	2	20
Magnesium			50000	49800		ug/L		100	90 - 113	2	20
Manganese			1000	1000		ug/L		100	90 - 110	2	20
Potassium			50000	47000		ug/L		94	89 - 114	2	20
Sodium			50000	49300		ug/L		99	90 - 115	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-169390-B-4-E MS
Matrix: Water
Analysis Batch: 595725

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 595232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	83000		50000	130000		ug/L		94	48 - 153
Iron	ND		10000	9920		ug/L		99	52 - 155
Magnesium	12000		50000	60600		ug/L		97	62 - 146
Manganese	ND		1000	990		ug/L		99	79 - 121
Potassium	1900		50000	49400		ug/L		95	76 - 132
Sodium	21000		50000	70500		ug/L		98	70 - 203

Lab Sample ID: 280-169390-B-4-F MSD
Matrix: Water
Analysis Batch: 595725

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 595232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	83000		50000	129000		ug/L		92	48 - 153	1	20
Iron	ND		10000	9900		ug/L		99	52 - 155	0	20
Magnesium	12000		50000	60200		ug/L		96	62 - 146	1	20
Manganese	ND		1000	987		ug/L		99	79 - 121	0	20
Potassium	1900		50000	49400		ug/L		95	76 - 132	0	20
Sodium	21000		50000	70300		ug/L		98	70 - 203	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-651985/28
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/03/22 00:51	1
Sulfate	ND		1.0		mg/L			12/03/22 00:51	1

Lab Sample ID: LCS 480-651985/29
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.6		mg/L		99	90 - 110
Sulfate	50.0	50.2		mg/L		100	90 - 110

Lab Sample ID: 480-204056-X-2 MS
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5700	F1	5010	8720	F1	mg/L		60	81 - 120
Sulfate	ND		5000	4920		mg/L		98	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-204056-X-2 MSD
Matrix: Water
Analysis Batch: 651985

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5700	F1	5010	8000	F1	mg/L		46	81 - 120	9	15
Sulfate	ND		5000	4890		mg/L		98	80 - 120	1	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-596110/56
Matrix: Water
Analysis Batch: 596110

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			12/08/22 11:34	1

Lab Sample ID: LCS 280-596110/54
Matrix: Water
Analysis Batch: 596110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N			2.50	2.57		mg/L		103	90 - 110		

Lab Sample ID: LCSD 280-596110/55
Matrix: Water
Analysis Batch: 596110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N			2.50	2.58		mg/L		103	90 - 110	0	10

Lab Sample ID: 280-169425-A-1 MS
Matrix: Water
Analysis Batch: 596110

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	ND		1.00	1.08		mg/L		108	90 - 110		

Lab Sample ID: 280-169425-A-1 MSD
Matrix: Water
Analysis Batch: 596110

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.09		mg/L		109	90 - 110	1	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-596249/22
Matrix: Water
Analysis Batch: 596249

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			12/09/22 14:48	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 280-596249/21
Matrix: Water
Analysis Batch: 596249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite			5.00	5.10		mg/L		102	90 - 110		

Lab Sample ID: 280-169398-C-1 MS
Matrix: Water
Analysis Batch: 596249

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite	0.39		4.00	4.35		mg/L		99	90 - 110		

Lab Sample ID: 280-169398-C-1 MSD
Matrix: Water
Analysis Batch: 596249

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	0.39		4.00	4.54		mg/L		104	90 - 110	4	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-595843/22
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/06/22 22:43	1

Lab Sample ID: MB 280-595843/4
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/06/22 18:18	1

Lab Sample ID: LCS 280-595843/20
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	25.4		mg/L		102	88 - 112		

Lab Sample ID: LCS 280-595843/3
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	26.8		mg/L		107	88 - 112		

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCSD 280-595843/21
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average			25.0	25.2		mg/L		101	88 - 112	1	15

Lab Sample ID: 280-169398-C-1 MS
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	ND		25.0	26.0		mg/L		102	88 - 112		

Lab Sample ID: 280-169398-C-1 MSD
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	ND		25.0	26.1		mg/L		103	88 - 112	0	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-596353/1
Matrix: Water
Analysis Batch: 596353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			12/12/22 10:02	1
Magnesium	0.000				meq/L			12/12/22 10:02	1
Potassium	0.000				meq/L			12/12/22 10:02	1
Sodium	0.000				meq/L			12/12/22 10:02	1
Ammonia as N	0.000				meq/L			12/12/22 10:02	1
Chloride	0.000				meq/L			12/12/22 10:02	1
Sulfate	0.000				meq/L			12/12/22 10:02	1
Alkalinity	0.000				mg/L			12/12/22 10:02	1
Bicarbonate Alkalinity	0.000				meq/L			12/12/22 10:02	1
Nitrate/Nitrite	0.000				meq/L			12/12/22 10:02	1
Iron	0.000				meq/L			12/12/22 10:02	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-594522/84
Matrix: Water
Analysis Batch: 594522

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	ND		10		mg/L			11/22/22 21:35	1

Lab Sample ID: 280-169394-B-2 DU
Matrix: Water
Analysis Batch: 594522

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity	490			488		mg/L				0.1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-594436/1
Matrix: Water
Analysis Batch: 594436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			11/22/22 13:15	1

Lab Sample ID: LCS 280-594436/2
Matrix: Water
Analysis Batch: 594436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			501	472		mg/L		94	88 - 114		

Lab Sample ID: 280-169367-A-9 DU
Matrix: Water
Analysis Batch: 594436

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	130			133		mg/L				2	10

GC/MS VOA

Analysis Batch: 595025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-1	TB03	Total/NA	Water	8260B	
280-169431-2	MW-19A	Total/NA	Water	8260B	
280-169431-3	DUP11172201	Total/NA	Water	8260B	
MB 280-595025/8	Method Blank	Total/NA	Water	8260B	
LCS 280-595025/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-595025/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 594402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-1	TB03	Total/NA	Water	8011	
280-169431-2	MW-19A	Total/NA	Water	8011	
280-169431-3	DUP11172201	Total/NA	Water	8011	
MB 280-594402/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-594402/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-594402/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 594425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-1	TB03	Total/NA	Water	8011	594402
280-169431-2	MW-19A	Total/NA	Water	8011	594402
280-169431-3	DUP11172201	Total/NA	Water	8011	594402
MB 280-594402/1-A	Method Blank	Total/NA	Water	8011	594402
LCS 280-594402/2-A	Lab Control Sample	Total/NA	Water	8011	594402
LCSD 280-594402/3-A	Lab Control Sample Dup	Total/NA	Water	8011	594402

Metals

Prep Batch: 595232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-2	MW-19A	Dissolved	Water	3005A	
280-169431-3	DUP11172201	Dissolved	Water	3005A	
MB 280-595232/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-595232/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 280-595232/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
280-169390-B-4-E MS	Matrix Spike	Dissolved	Water	3005A	
280-169390-B-4-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 595725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-2	MW-19A	Dissolved	Water	6010B	595232
280-169431-3	DUP11172201	Dissolved	Water	6010B	595232
MB 280-595232/1-A	Method Blank	Total Recoverable	Water	6010B	595232
LCS 280-595232/2-A	Lab Control Sample	Total Recoverable	Water	6010B	595232
LCSD 280-595232/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	595232
280-169390-B-4-E MS	Matrix Spike	Dissolved	Water	6010B	595232
280-169390-B-4-F MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	595232

General Chemistry

Analysis Batch: 594436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-2	MW-19A	Total/NA	Water	SM 2540C	
280-169431-3	DUP11172201	Total/NA	Water	SM 2540C	
MB 280-594436/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-594436/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-169367-A-9 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 594522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-2	MW-19A	Total/NA	Water	SM 2320B	
280-169431-3	DUP11172201	Total/NA	Water	SM 2320B	
MB 280-594522/84	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-594522/83	Lab Control Sample	Total/NA	Water	SM 2320B	
280-169394-B-2 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 595843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-2	MW-19A	Total/NA	Water	9060	
280-169431-3	DUP11172201	Total/NA	Water	9060	
MB 280-595843/22	Method Blank	Total/NA	Water	9060	
MB 280-595843/4	Method Blank	Total/NA	Water	9060	
LCS 280-595843/20	Lab Control Sample	Total/NA	Water	9060	
LCS 280-595843/3	Lab Control Sample	Total/NA	Water	9060	
LCSD 280-595843/21	Lab Control Sample Dup	Total/NA	Water	9060	
280-169398-C-1 MS	Matrix Spike	Total/NA	Water	9060	
280-169398-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 596110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-2	MW-19A	Total/NA	Water	350.1	
280-169431-3	DUP11172201	Total/NA	Water	350.1	
MB 280-596110/56	Method Blank	Total/NA	Water	350.1	
LCS 280-596110/54	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-596110/55	Lab Control Sample Dup	Total/NA	Water	350.1	
280-169425-A-1 MS	Matrix Spike	Total/NA	Water	350.1	
280-169425-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 596249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-2	MW-19A	Total/NA	Water	353.2	
280-169431-3	DUP11172201	Total/NA	Water	353.2	
MB 280-596249/22	Method Blank	Total/NA	Water	353.2	
LCS 280-596249/21	Lab Control Sample	Total/NA	Water	353.2	
280-169398-C-1 MS	Matrix Spike	Total/NA	Water	353.2	
280-169398-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 596353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-2	MW-19A	Total/NA	Water	SM 1030E	
280-169431-2	MW-19A	Total/NA	Water	SM 1030E (meq)	
280-169431-3	DUP11172201	Total/NA	Water	SM 1030E	
280-169431-3	DUP11172201	Total/NA	Water	SM 1030E (meq)	

General Chemistry (Continued)

Analysis Batch: 596353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-596353/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 651985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169431-2	MW-19A	Total/NA	Water	300.0	
280-169431-3	DUP11172201	Total/NA	Water	300.0	
MB 480-651985/28	Method Blank	Total/NA	Water	300.0	
LCS 480-651985/29	Lab Control Sample	Total/NA	Water	300.0	
480-204056-X-2 MS	Matrix Spike	Total/NA	Water	300.0	
480-204056-X-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Lab Chronicle

Client: Waste Management
Job ID: 280-169431-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: TB03
Lab Sample ID: 280-169431-1
Date Collected: 11/17/22 07:00
Matrix: Water
Date Received: 11/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	595025	11/30/22 11:11	MD	EET DEN
Total/NA	Prep	8011			34.9 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 17:47	ECM	EET DEN

Client Sample ID: MW-19A
Lab Sample ID: 280-169431-2
Date Collected: 11/17/22 10:25
Matrix: Water
Date Received: 11/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	595025	11/30/22 14:19	MD	EET DEN
Total/NA	Prep	8011			35.8 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 18:12	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	595232	12/02/22 19:28	LJS	EET DEN
Dissolved	Analysis	6010B		1			595725	12/06/22 05:02	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/03/22 01:50	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596110	12/08/22 11:56	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	596249	12/09/22 15:32	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595843	12/06/22 19:59	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596353	12/12/22 10:02	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596353	12/12/22 10:02	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594522	11/22/22 23:24	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594436	11/22/22 13:15	ASP	EET DEN

Client Sample ID: DUP11172201
Lab Sample ID: 280-169431-3
Date Collected: 11/17/22 10:30
Matrix: Water
Date Received: 11/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	595025	11/30/22 14:40	MD	EET DEN
Total/NA	Prep	8011			35.5 mL	35 mL	594402	11/22/22 11:24	ECM	EET DEN
Total/NA	Analysis	8011		1	35 mL	35 mL	594425	11/22/22 18:37	ECM	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	595232	12/02/22 19:28	LJS	EET DEN
Dissolved	Analysis	6010B		1			595725	12/06/22 05:06	KRP	EET DEN
Total/NA	Analysis	300.0		1	1 mL	1 mL	651985	12/03/22 02:10	IMZ	EET BUF
Total/NA	Analysis	350.1		1	10 mL	10 mL	596110	12/08/22 11:58	MMP	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	596249	12/09/22 15:34	ZPM	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	595843	12/06/22 20:13	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596353	12/12/22 10:02	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596353	12/12/22 10:02	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594522	11/22/22 23:30	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	594436	11/22/22 13:15	ASP	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-169431-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Edan Tinsley	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-124177-865.1
Client Contact:	Phone: 503-502-7027	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 1 of 1
Company: Waste Management	PWSID:			Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786- Semiannual Detection Wells - Apr Oct			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540/350.1- TDS/Alk	6010B- Dissolved Metals (FF)	Ammonia/TOC/NO3+NO2	8260B- VOCs	8011- EDB/DBCP	Cation/Anion Balance	300.0- Chloride/Sulfate (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	R		N		
TB03	11/17/22	0700	G	W						X	X			4	
MW-19A	11/17/22	1025	G	W	X		X	X	X	X	X	X	X	10	
Dup 11172201	11/17/22	1030	G	W	X		X	X	X	X	X	X	X	10	

280-169431 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/18/22 @ 1630	S&S		11/19/22 0920	ETADEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1073454	Cooler Temperature(s) °C and Other Remarks: 0.1°C IR12 CF20

Ver: 01/16/2019

280-169431 Waybill

8172530534 89

8172530534 89

Keep this liner for your records.

Do Not Lift Using This Tag

FedEx Express

Expanded Billable Stamp

Use only for shipments within the U.S. Saturday delivery available.

1 From *See optional release signature below.*

ORDER: 00863049

DECLARED VALUE $100

PACKAGE WEIGHT

( ) ___ ___

2 To *Shipment will not be accepted if address below is altered.*

SAMPLE RECEIVING
EUROFINS TESTAMERICA.
4955 YARROW ST
ARVADA, CO 80002
(303) 736-0100

0.6°C

1073454

FedEx Priority Overnight

Next business morning by 10:30 a.m. Not available to all locations. Please consult the current FedEx Service Guide for specific commitments.

NONREDEEMABLE

Please see back for declared value information and important terms and conditions.

SATURDAY DELIVERY

Shipments tendered on Friday are delivered on Saturday to most locations.

REF:

8172 5305 3489

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ORIGIN ID:BNOA

SHIP DATE: 18NOV22
ACTWGT: 44.50 LB
CAD: /SSFE2341
DIMS: 27x13x12 IN

TO EUROFINS DENVER
EUROFINS DENVER
4955 YARROW ST

ARVADA CO 80002 (US)

(303) 736-0100

INV:
PO:
REF:
DEPT:

FedEx Express

J22422210180UV

SATURDAY 12:00P

TRK# 8172 5305 3489

Part # 156297-4334 RRD 05/23

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-637053.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Oregon		Job #: 280-169431-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/12/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786			
Site: 1003|Riverbend Landfill	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D/ 300.0, Sulfate and Chloride (TA Buffalo)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-19A (280-169431-2)	11/17/22	10:25 Pacific		Water			X	1	
DUP11172201 (280-169431-3)	11/17/22	10:30 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 11/21/22 13:40	Company ETADEN	Received by:	Date/Time: 11/23/22 1000	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.7# ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-169431-1

Login Number: 169431
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to job narrative for details
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-169431-1

Login Number: 169431
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 11/23/22 11:37 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7 ir gun #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Fall 2022

Leachate Pond and Leachate Pond LDS Liquids

Laboratory Analytical Report

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. William V Hickey, PMP
Waste Management
7227 NE 55th Avenue
Portland, Oregon 97218

Generated 1/9/2023 10:59:35 AM

JOB DESCRIPTION

1003|Riverbend Landfill SCS Engineers
Semiannual Leachate Lagoon - Apr Nov

JOB NUMBER

280-169433-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

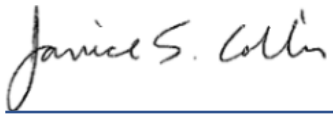
The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-169433-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-169433-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1003|Riverbend Landfill SCS Engineers

Report Number: 280-169433-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

RECEIPT

The samples were received on 11/19/2022 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.5º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples TB04 (280-169433-1), LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/30/2022.

1,3-Dichloropropane failed the recovery criteria low for LCS 280-595025/1002, 1,3-Dichloropropane (80%-118%) at 79%. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported. The results were non-detect for this compound.

1,2-Dibromo-3-Chloropropane failed the recovery criteria high, 1,2-Dibromo-3-Chloropropane (58%-122%) at 129%. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Bromoform, n-Butylbenzene and Styrene exceeded the RPD limit for LCSD 280-595025/4 at (20%) for the following analytes: Bromoform, n-Butylbenzene, and Styrene all at 22%. The associated samples were non-detect for the affected analytes and within recovery limits in the LCS and LCSD.

Samples LPOND LDS (280-169433-2)[4X] and LEACH POND (280-169433-3)[4X] required dilution prior to analysis diluted due to the nature of the sample matrix. The reporting limits have been adjusted accordingly. Elevated reporting limits (RLs) are provided. The samples was analyzed at a 4x dilution to prevent instrument contamination and the chromatogram shows a large non-target peak present.

In analytical batch 280-595025 for Method 8260, the following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria (pH<2) with a pH of 3 and 6 for samples 169433-2 and 3, respectively, when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: LPOND LDS (280-169433-2) and LEACH POND (280-169433-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS

Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for dissolved metals in accordance with EPA

Job ID: 280-169433-1 (Continued)

Laboratory: Eurofins Denver (Continued)

SW-846 Method 6010B. The samples were prepared on 12/02/2022 and 12/06/2022 and analyzed on 12/05/2022 and 12/07/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for total recoverable metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/02/2022 and analyzed on 12/05/2022.

The method blank for preparation batch 280-595224 and analytical batch 280-595656 contained Fe above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for total recoverable metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 12/05/2022 and analyzed on 12/06/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 11/23/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HARDNESS
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for hardness in accordance with SM20 2340C. The samples were analyzed on 12/06/2022.

Hardness, as CaCO3 failed the recovery criteria high for the MS of sample 280-169706-3 in batch 280-595723. Hardness, as CaCO3 failed the recovery criteria high for the MSD of sample 280-169706-3 in batch 280-595723. Sample matrix interference is suspected because the associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Samples LPOND LDS (280-169433-2)[5X] and LEACH POND (280-169433-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 11/22/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 11/21/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for anions (28 days) in accordance with EPA Method 300.0 (28 Days). The samples were analyzed on 12/09/2022.

Job ID: 280-169433-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AMMONIA
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 12/13/2022.

The following sample was positive for residual chlorine detection: LEACH POND (280-169433-3). The sample was treated with Sodium Thiosulfate per standard operating procedures for this method. The sample was analyzed after the chlorine interference was removed.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL KJELDAHL NITROGEN
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for total kjeldahl nitrogen in accordance with EPA Method 351.2. The samples were prepared on 12/01/2022 and analyzed on 12/03/2022 and 12/05/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 12/09/2022 and 12/14/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHEMICAL OXYGEN DEMAND
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were analyzed on 11/29/2022.

Chemical Oxygen Demand (COD) failed the recovery criteria low for the MS of sample 280-169553-1 in batch 280-594928. Chemical Oxygen Demand (COD) failed the recovery criteria low for the MSD of sample 280-169553-1 in batch 280-594928.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for corrosivity (pH) in accordance with EPA SW-846 Method 9040B. The samples were analyzed on 11/22/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for specific conductivity in accordance with SW846 9050A. The samples were analyzed on 11/28/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 12/06/2022 and 12/07/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE
Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for Cation Anion Balance in accordance with epa methodologies. The samples were analyzed on 12/14/2022.

Job ID: 280-169433-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE

Samples LPOND LDS (280-169433-2) and LEACH POND (280-169433-3) were analyzed for Cation Anion Balance in accordance with Cation Anion Balance. The samples were analyzed on 12/14/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GENERAL COMMENTS

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169433-1

Client Sample ID: TB04 — Lab Sample ID: 280-169433-1

No Detections.

Client Sample ID: LPOND LDS — Lab Sample ID: 280-169433-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	4.1		1.4		ug/L	4		8260B	Total/NA
Silicon	20000		100		ug/L	1		6010B	Total Recoverable
Zinc	27		26		ug/L	1		6010B	Total Recoverable
Calcium	37000		500		ug/L	1		6010B	Dissolved
Iron	14000	B	30		ug/L	1		6010B	Dissolved
Magnesium	46000		200		ug/L	1		6010B	Dissolved
Manganese	1500		3.0		ug/L	1		6010B	Dissolved
Potassium	160000		500		ug/L	1		6010B	Dissolved
Sodium	770000		1000		ug/L	1		6010B	Dissolved
Antimony	9.4		0.60		ug/L	1		6020	Total Recoverable
Arsenic	40		1.0		ug/L	1		6020	Total Recoverable
Barium	180		1.0		ug/L	1		6020	Total Recoverable
Chromium	93		2.0		ug/L	1		6020	Total Recoverable
Cobalt	32		0.20		ug/L	1		6020	Total Recoverable
Copper	26		1.0		ug/L	1		6020	Total Recoverable
Lead	2.8		0.50		ug/L	1		6020	Total Recoverable
Nickel	82		1.0		ug/L	1		6020	Total Recoverable
Selenium	1.0		1.0		ug/L	1		6020	Total Recoverable
Vanadium	85		3.0		ug/L	1		6020	Total Recoverable
Chloride	1000		20		mg/L	20		300.0	Total/NA
Sulfate	130		21		mg/L	20		300.0	Total/NA
Ammonia as N	120		0.73		mg/L	25		350.1	Total/NA
Total Kjeldahl Nitrogen	130		17		mg/L	5		351.2	Total/NA
Nitrate Nitrite as N	2.7		0.10		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand (COD)	530		170		mg/L	20		410.4	Total/NA
pH adj. to 25 deg C	7.3	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	5100		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	170		1.7		mg/L	5		9060	Total/NA
Total Anions	53				meq/L	1		SM 1030E	Total/NA
Total Cations	53				meq/L	1		SM 1030E	Total/NA
Percent Difference	-0.52				%	1		SM 1030E	Total/NA
Calcium	37				mg/L	1		SM 1030E	Total/NA
Magnesium	46				mg/L	1		SM 1030E	Total/NA
Potassium	160				mg/L	1		SM 1030E	Total/NA
Sodium	770				mg/L	1		SM 1030E	Total/NA
Ammonia as N	120				mg/L	1		SM 1030E	Total/NA
Chloride	1000				mg/L	1		SM 1030E	Total/NA
Sulfate	130				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LPOND LDS (Continued)

Lab Sample ID: 280-169433-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity	1100				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	1100				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	2.7				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-0.52				%	1		SM 1030E	Total/NA
Calculated TDS	2800				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.96				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	2700				mg/L	1		SM 1030E	Total/NA
Iron	14				mg/L	1		SM 1030E	Total/NA
Calcium	1.8				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	3.8				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	4.1				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	33				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.75				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia	8.6				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	28				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	2.7				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate Nitrite as N	0.19				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	22				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity as CaCO3	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity as CaCO3	22				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	1100		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	1100		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	560		3.0		mg/L	5		SM 2340C	Total/NA
Total Dissolved Solids	2700		19		mg/L	1		SM 2540C	Total/NA

Client Sample ID: LEACH POND

Lab Sample ID: 280-169433-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	4.2		1.4		ug/L	4		8260B	Total/NA
Silicon	24000		100		ug/L	1		6010B	Total Recoverable
Zinc	30		26		ug/L	1		6010B	Total Recoverable
Calcium	69000		500		ug/L	1		6010B	Dissolved
Iron	3700		30		ug/L	1		6010B	Dissolved
Magnesium	88000		200		ug/L	1		6010B	Dissolved
Manganese	680		3.0		ug/L	1		6010B	Dissolved
Potassium	370000		500		ug/L	1		6010B	Dissolved
Sodium	1400000		1000		ug/L	1		6010B	Dissolved
Antimony	20		0.60		ug/L	1		6020	Total Recoverable
Arsenic	170		1.0		ug/L	1		6020	Total Recoverable
Barium	290		1.0		ug/L	1		6020	Total Recoverable
Chromium	140		2.0		ug/L	1		6020	Total Recoverable
Cobalt	32		0.20		ug/L	1		6020	Total Recoverable
Lead	1.7		0.50		ug/L	1		6020	Total Recoverable
Nickel	84		1.0		ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: LEACH POND (Continued)

Lab Sample ID: 280-169433-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	94		3.0		ug/L	1		6020	Total Recoverable
Chloride	1900		51		mg/L	50		300.0	Total/NA
Sulfate	84		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	300		2.3		mg/L	80		350.1	Total/NA
Total Kjeldahl Nitrogen	320		34		mg/L	10		351.2	Total/NA
Nitrate Nitrite as N	47		4.4		mg/L	100		353.2	Total/NA
Chemical Oxygen Demand (COD)	1700		430		mg/L	50		410.4	Total/NA
pH adj. to 25 deg C	8.3	HF	0.1		SU	1		9040B	Total/NA
Specific Conductance	9500		2.0		umhos/cm	1		9050A	Total/NA
Total Organic Carbon - Average	310		6.9		mg/L	20		9060	Total/NA
Total Anions	110				meq/L	1		SM 1030E	Total/NA
Total Cations	100				meq/L	1		SM 1030E	Total/NA
Percent Difference	-1.9				%	1		SM 1030E	Total/NA
Calcium	69				mg/L	1		SM 1030E	Total/NA
Magnesium	88				mg/L	1		SM 1030E	Total/NA
Potassium	370				mg/L	1		SM 1030E	Total/NA
Sodium	1400				mg/L	1		SM 1030E	Total/NA
Ammonia as N	300				mg/L	1		SM 1030E	Total/NA
Chloride	1900				mg/L	1		SM 1030E	Total/NA
Sulfate	84				mg/L	1		SM 1030E	Total/NA
Carbonate Alkalinity	0.00				mg/L	1		SM 1030E	Total/NA
Bicarbonate Alkalinity	2400				mg/L	1		SM 1030E	Total/NA
Total Alkalinity	2400				mg/L	1		SM 1030E	Total/NA
Nitrate/Nitrite	47				mg/L	1		SM 1030E	Total/NA
Anion/Cation Balance	-1.9				%	1		SM 1030E	Total/NA
Calculated TDS	5600				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.45				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	2500				mg/L	1		SM 1030E	Total/NA
Iron	3.7				mg/L	1		SM 1030E	Total/NA
Calcium	3.4				meq/L	1		SM 1030E (meq)	Total/NA
Magnesium	7.2				meq/L	1		SM 1030E (meq)	Total/NA
Potassium	9.5				meq/L	1		SM 1030E (meq)	Total/NA
Sodium	61				meq/L	1		SM 1030E (meq)	Total/NA
Iron	0.20				meq/L	1		SM 1030E (meq)	Total/NA
Ammonia	21				meq/L	1		SM 1030E (meq)	Total/NA
Chloride	54				meq/L	1		SM 1030E (meq)	Total/NA
Sulfate	1.7				meq/L	1		SM 1030E (meq)	Total/NA
Nitrate Nitrite as N	3.4				meq/L	1		SM 1030E (meq)	Total/NA
Alkalinity	48				meq/L	1		SM 1030E (meq)	Total/NA
Carbonate Alkalinity as CaCO3	0.00				meq/L	1		SM 1030E (meq)	Total/NA
Bicarbonate Alkalinity as CaCO3	48				meq/L	1		SM 1030E (meq)	Total/NA
Total Alkalinity	2400		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	2400		10		mg/L	1		SM 2320B	Total/NA
Hardness, as CaCO3	730		3.0		mg/L	5		SM 2340C	Total/NA
Total Dissolved Solids	2500		47		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	25		4.0		mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Waste Management
Job ID: 280-169433-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-169433-1	TB04	Water	11/17/22 07:00	11/19/22 09:20
280-169433-2	LPOND LDS	Water	11/17/22 13:10	11/19/22 09:20
280-169433-3	LEACH POND	Water	11/17/22 13:40	11/19/22 09:20

Method Summary

Client: Waste Management
Job ID: 280-169433-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
6010B	Metals (ICP)	SW846	EET DEN
6020	Metals (ICP/MS)	SW846	EET DEN
300.0	Anions, Ion Chromatography	MCAWW	EET DEN
350.1	Nitrogen, Ammonia	MCAWW	EET DEN
351.2	Nitrogen, Total Kjeldahl	MCAWW	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	EET DEN
410.4	COD	MCAWW	EET DEN
9040B	pH	SW846	EET DEN
9050A	Specific Conductance	SW846	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 1030E (meq)	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
351.2	Nitrogen, Total Kjeldahl	MCAWW	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169433-1

Client Sample ID: TB04

Date Collected: 11/17/22 07:00
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169433-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 09:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/30/22 09:47	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 09:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/30/22 09:47	1
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 09:47	1
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 09:47	1
1,1-Dichloropropene	ND		1.0		ug/L			11/30/22 09:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/30/22 09:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/30/22 09:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/30/22 09:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 09:47	1
1,2-Dibromo-3-Chloropropane	ND	*+	5.0		ug/L			11/30/22 09:47	1
1,2-Dibromoethane	ND		1.0		ug/L			11/30/22 09:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:47	1
1,2-Dichloroethane	ND		1.0		ug/L			11/30/22 09:47	1
1,2-Dichloropropane	ND		1.0		ug/L			11/30/22 09:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/30/22 09:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:47	1
1,3-Dichloropropane	ND	*-	1.0		ug/L			11/30/22 09:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:47	1
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 09:47	1
2-Butanone (MEK)	ND		6.0		ug/L			11/30/22 09:47	1
2-Chlorotoluene	ND		1.0		ug/L			11/30/22 09:47	1
2-Hexanone	ND		5.0		ug/L			11/30/22 09:47	1
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 09:47	1
4-Isopropyltoluene	ND		1.0		ug/L			11/30/22 09:47	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 09:47	1
Acetone	ND		10		ug/L			11/30/22 09:47	1
Benzene	ND		1.0		ug/L			11/30/22 09:47	1
Bromobenzene	ND		1.0		ug/L			11/30/22 09:47	1
Bromochloromethane	ND		1.0		ug/L			11/30/22 09:47	1
Bromodichloromethane	ND		1.0		ug/L			11/30/22 09:47	1
Bromoform	ND	*1	1.2		ug/L			11/30/22 09:47	1
Bromomethane	ND		2.4		ug/L			11/30/22 09:47	1
Carbon disulfide	ND		2.0		ug/L			11/30/22 09:47	1
Carbon tetrachloride	ND		1.0		ug/L			11/30/22 09:47	1
Chlorobenzene	ND		1.0		ug/L			11/30/22 09:47	1
Chloroethane	ND		2.0		ug/L			11/30/22 09:47	1
Chloroform	ND		1.0		ug/L			11/30/22 09:47	1
Chloromethane	ND		2.0		ug/L			11/30/22 09:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 09:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/30/22 09:47	1
Dibromochloromethane	ND		1.0		ug/L			11/30/22 09:47	1
Dibromomethane	ND		1.0		ug/L			11/30/22 09:47	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/30/22 09:47	1
Ethylbenzene	ND		1.0		ug/L			11/30/22 09:47	1
Hexachlorobutadiene	ND		1.2		ug/L			11/30/22 09:47	1
Isopropylbenzene	ND		1.0		ug/L			11/30/22 09:47	1
Methylene Chloride	ND		5.0		ug/L			11/30/22 09:47	1

Client Sample ID: TB04

Date Collected: 11/17/22 07:00
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169433-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			11/30/22 09:47	1
n-Butylbenzene	ND	*1	1.0		ug/L			11/30/22 09:47	1
N-Propylbenzene	ND		1.0		ug/L			11/30/22 09:47	1
sec-Butylbenzene	ND		1.0		ug/L			11/30/22 09:47	1
Styrene	ND	*1	1.0		ug/L			11/30/22 09:47	1
tert-Butylbenzene	ND		1.0		ug/L			11/30/22 09:47	1
Tetrachloroethene	ND		1.0		ug/L			11/30/22 09:47	1
Toluene	ND		1.0		ug/L			11/30/22 09:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 09:47	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 09:47	1
Trichloroethene	ND		1.0		ug/L			11/30/22 09:47	1
Trichlorofluoromethane	ND		2.0		ug/L			11/30/22 09:47	1
Vinyl chloride	ND		1.0		ug/L			11/30/22 09:47	1
Xylenes (total)	ND		2.0		ug/L			11/30/22 09:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 09:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*		*11/30/22 09:47*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*11/30/22 09:47*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 120*		*11/30/22 09:47*	*1*
Toluene-d8 (Surr)	*107*		*80 - 125*		*11/30/22 09:47*	*1*

Client Sample ID: LPOND LDS

Date Collected: 11/17/22 13:10
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169433-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.3		ug/L			11/30/22 11:52	4
1,1,1-Trichloroethane	ND		1.6		ug/L			11/30/22 11:52	4
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 11:52	4
1,1,2-Trichloroethane	ND		1.1		ug/L			11/30/22 11:52	4
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 11:52	4
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 11:52	4
1,1-Dichloropropene	ND		1.7		ug/L			11/30/22 11:52	4
1,2,3-Trichlorobenzene	ND		2.8		ug/L			11/30/22 11:52	4
1,2,3-Trichloropropane	ND		3.4		ug/L			11/30/22 11:52	4
1,2,4-Trichlorobenzene	ND		2.3		ug/L			11/30/22 11:52	4
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 11:52	4
1,2-Dibromo-3-Chloropropane	ND	*+	7.1		ug/L			11/30/22 11:52	4
1,2-Dibromoethane	ND		1.6		ug/L			11/30/22 11:52	4
1,2-Dichlorobenzene	ND		1.5		ug/L			11/30/22 11:52	4
1,2-Dichloroethane	ND		2.2		ug/L			11/30/22 11:52	4
1,2-Dichloropropane	ND		2.1		ug/L			11/30/22 11:52	4
1,3,5-Trimethylbenzene	ND		1.5		ug/L			11/30/22 11:52	4
1,3-Dichlorobenzene	ND		1.3		ug/L			11/30/22 11:52	4
1,3-Dichloropropane	ND	*-	1.5		ug/L			11/30/22 11:52	4
1,4-Dichlorobenzene	ND		1.6		ug/L			11/30/22 11:52	4

Client Sample ID: LPOND LDS
Date Collected: 11/17/22 13:10
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169433-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 11:52	4
2-Butanone (MEK)	ND		24		ug/L			11/30/22 11:52	4
2-Chlorotoluene	ND		1.4		ug/L			11/30/22 11:52	4
2-Hexanone	ND		6.8		ug/L			11/30/22 11:52	4
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 11:52	4
4-Isopropyltoluene	ND		1.7		ug/L			11/30/22 11:52	4
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 11:52	4
Acetone	ND		26		ug/L			11/30/22 11:52	4
Benzene	ND		1.2		ug/L			11/30/22 11:52	4
Bromobenzene	ND		1.6		ug/L			11/30/22 11:52	4
Bromochloromethane	ND		1.6		ug/L			11/30/22 11:52	4
Bromodichloromethane	ND		1.5		ug/L			11/30/22 11:52	4
Bromoform	ND	*1	4.8		ug/L			11/30/22 11:52	4
Bromomethane	ND		9.4		ug/L			11/30/22 11:52	4
Carbon disulfide	ND		2.5		ug/L			11/30/22 11:52	4
Carbon tetrachloride	ND		2.3		ug/L			11/30/22 11:52	4
Chlorobenzene	ND		1.7		ug/L			11/30/22 11:52	4
Chloroethane	ND		5.5		ug/L			11/30/22 11:52	4
Chloroform	**4.1**		1.4		ug/L			11/30/22 11:52	4
Chloromethane	ND		3.0		ug/L			11/30/22 11:52	4
cis-1,2-Dichloroethene	ND		1.3		ug/L			11/30/22 11:52	4
cis-1,3-Dichloropropene	ND		2.5		ug/L			11/30/22 11:52	4
Dibromochloromethane	ND		2.5		ug/L			11/30/22 11:52	4
Dibromomethane	ND		1.4		ug/L			11/30/22 11:52	4
Dichlorodifluoromethane	ND		3.8		ug/L			11/30/22 11:52	4
Ethylbenzene	ND		1.2		ug/L			11/30/22 11:52	4
Hexachlorobutadiene	ND		4.7		ug/L			11/30/22 11:52	4
Isopropylbenzene	ND		1.5		ug/L			11/30/22 11:52	4
Methylene Chloride	ND		5.0		ug/L			11/30/22 11:52	4
Naphthalene	ND		2.5		ug/L			11/30/22 11:52	4
n-Butylbenzene	ND	*1	1.9		ug/L			11/30/22 11:52	4
N-Propylbenzene	ND		2.1		ug/L			11/30/22 11:52	4
sec-Butylbenzene	ND		1.8		ug/L			11/30/22 11:52	4
Styrene	ND	*1	1.4		ug/L			11/30/22 11:52	4
tert-Butylbenzene	ND		1.7		ug/L			11/30/22 11:52	4
Tetrachloroethene	ND		1.6		ug/L			11/30/22 11:52	4
Toluene	ND		1.3		ug/L			11/30/22 11:52	4
trans-1,2-Dichloroethene	ND		1.5		ug/L			11/30/22 11:52	4
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 11:52	4
Trichloroethene	ND		1.2		ug/L			11/30/22 11:52	4
Trichlorofluoromethane	ND		2.3		ug/L			11/30/22 11:52	4
Vinyl chloride	ND		2.0		ug/L			11/30/22 11:52	4
Xylenes (total)	ND		2.0		ug/L			11/30/22 11:52	4

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 11:52*	*4*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*		*11/30/22 11:52*	*4*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*11/30/22 11:52*	*4*

Client Sample ID: LPOND LDS

Date Collected: 11/17/22 13:10
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169433-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*11/30/22 11:52*	*4*
Toluene-d8 (Surr)	*85*		*80 - 125*		*11/30/22 11:52*	*4*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	**20000**		100		ug/L		12/02/22 19:26	12/05/22 22:41	1
Silver	ND		3.0		ug/L		12/02/22 19:26	12/05/22 22:41	1
Zinc	**27**		26		ug/L		12/02/22 19:26	12/05/22 22:41	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**37000**		500		ug/L		12/02/22 19:26	12/05/22 23:16	1
Iron	**14000**	**B**	30		ug/L		12/02/22 19:26	12/05/22 23:16	1
Magnesium	**46000**		200		ug/L		12/02/22 19:26	12/05/22 23:16	1
Manganese	**1500**		3.0		ug/L		12/02/22 19:26	12/05/22 23:16	1
Potassium	**160000**		500		ug/L		12/02/22 19:26	12/05/22 23:16	1
Sodium	**770000**		1000		ug/L		12/02/22 19:26	12/05/22 23:16	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**9.4**		0.60		ug/L		12/05/22 08:47	12/06/22 23:19	1
Arsenic	**40**		1.0		ug/L		12/05/22 08:47	12/06/22 23:19	1
Barium	**180**		1.0		ug/L		12/05/22 08:47	12/06/22 23:19	1
Beryllium	ND		0.40		ug/L		12/05/22 08:47	12/06/22 23:19	1
Cadmium	ND		0.30		ug/L		12/05/22 08:47	12/06/22 23:19	1
Chromium	**93**		2.0		ug/L		12/05/22 08:47	12/06/22 23:19	1
Cobalt	**32**		0.20		ug/L		12/05/22 08:47	12/06/22 23:19	1
Copper	**26**		1.0		ug/L		12/05/22 08:47	12/06/22 23:19	1
Lead	**2.8**		0.50		ug/L		12/05/22 08:47	12/06/22 23:19	1
Nickel	**82**		1.0		ug/L		12/05/22 08:47	12/06/22 23:19	1
Selenium	**1.0**		1.0		ug/L		12/05/22 08:47	12/06/22 23:19	1
Thallium	ND		0.20		ug/L		12/05/22 08:47	12/06/22 23:19	1
Vanadium	**85**		3.0		ug/L		12/05/22 08:47	12/06/22 23:19	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	**53**				meq/L			12/14/22 13:59	1
Total Cations (SM 1030E)	**53**				meq/L			12/14/22 13:59	1
Percent Difference (SM 1030E)	**-0.52**				%			12/14/22 13:59	1
Calcium (SM 1030E)	**37**				mg/L			12/14/22 13:59	1
Magnesium (SM 1030E)	**46**				mg/L			12/14/22 13:59	1
Potassium (SM 1030E)	**160**				mg/L			12/14/22 13:59	1
Sodium (SM 1030E)	**770**				mg/L			12/14/22 13:59	1
Ammonia as N (SM 1030E)	**120**				mg/L			12/14/22 13:59	1
Chloride (SM 1030E)	**1000**				mg/L			12/14/22 13:59	1
Sulfate (SM 1030E)	**130**				mg/L			12/14/22 13:59	1
Carbonate Alkalinity (SM 1030E)	**0.00**				mg/L			12/14/22 13:59	1
Bicarbonate Alkalinity (SM 1030E)	**1100**				mg/L			12/14/22 13:59	1
Total Alkalinity (SM 1030E)	**1100**				mg/L			12/14/22 13:59	1
Nitrate/Nitrite (SM 1030E)	**2.7**				mg/L			12/14/22 13:59	1

Client Sample ID: LPOND LDS

Lab Sample ID: 280-169433-2

Date Collected: 11/17/22 13:10

Matrix: Water

Date Received: 11/19/22 09:20

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-0.52				%			12/14/22 13:59	1
Calculated TDS (SM 1030E)	2800				mg/L			12/14/22 13:59	1
TDS Ratio (SM 1030E)	0.96				NONE			12/14/22 13:59	1
Total Dissolved Solids (SM 1030E)	2700				mg/L			12/14/22 13:59	1
Iron (SM 1030E)	14				mg/L			12/14/22 13:59	1
Calcium (SM 1030E (meq))	1.8				meq/L			12/14/22 13:59	1
Magnesium (SM 1030E (meq))	3.8				meq/L			12/14/22 13:59	1
Potassium (SM 1030E (meq))	4.1				meq/L			12/14/22 13:59	1
Sodium (SM 1030E (meq))	33				meq/L			12/14/22 13:59	1
Iron (SM 1030E (meq))	0.75				meq/L			12/14/22 13:59	1
Ammonia (SM 1030E (meq))	8.6				meq/L			12/14/22 13:59	1
Chloride (SM 1030E (meq))	28				meq/L			12/14/22 13:59	1
Sulfate (SM 1030E (meq))	2.7				meq/L			12/14/22 13:59	1
Nitrate Nitrite as N (SM 1030E (meq))	0.19				meq/L			12/14/22 13:59	1
Alkalinity (SM 1030E (meq))	22				meq/L			12/14/22 13:59	1
Carbonate Alkalinity as CaCO3 (SM 1030E (meq))	0.00				meq/L			12/14/22 13:59	1
Bicarbonate Alkalinity as CaCO3 (SM 1030E (meq))	22				meq/L			12/14/22 13:59	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	1000		20		mg/L			12/09/22 09:19	20
Sulfate (MCAWW 300.0)	130		21		mg/L			12/09/22 09:19	20
Ammonia as N (MCAWW 350.1)	120		0.73		mg/L			12/13/22 09:57	25
Total Kjeldahl Nitrogen (MCAWW 351.2)	130		17		mg/L		12/01/22 16:45	12/03/22 17:56	5
Nitrate Nitrite as N (MCAWW 353.2	2.7		0.10		mg/L			12/09/22 15:36	1
Chemical Oxygen Demand (COD) (MCAWW 410.4)	530		170		mg/L			11/29/22 12:38	20
Total Organic Carbon - Average (SW846 9060)	170		1.7		mg/L			12/06/22 20:28	5
Total Alkalinity (SM 2320B)	1100		10		mg/L			11/23/22 12:08	1
Bicarbonate Alkalinity (SM 2320B)	1100		10		mg/L			11/23/22 12:08	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			11/23/22 12:08	1
Hardness, as CaCO3 (SM 2340C)	560		3.0		mg/L			12/06/22 11:33	5
Total Dissolved Solids (SM 2540C)	2700		19		mg/L			11/22/22 11:21	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/21/22 12:36	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	7.3	HF	0.1		SU			11/22/22 14:37	1
Specific Conductance (SW846 9050A)	5100		2.0		umhos/cm			11/28/22 12:07	1

Client Sample ID: LEACH POND

Lab Sample ID: 280-169433-3

Date Collected: 11/17/22 13:40

Matrix: Water

Date Received: 11/19/22 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.3		ug/L			11/30/22 12:13	4
1,1,1-Trichloroethane	ND		1.6		ug/L			11/30/22 12:13	4
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 12:13	4

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169433-1

Client Sample ID: LEACH POND
Date Collected: 11/17/22 13:40
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169433-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.1		ug/L			11/30/22 12:13	4
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 12:13	4
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 12:13	4
1,1-Dichloropropene	ND		1.7		ug/L			11/30/22 12:13	4
1,2,3-Trichlorobenzene	ND		2.8		ug/L			11/30/22 12:13	4
1,2,3-Trichloropropane	ND		3.4		ug/L			11/30/22 12:13	4
1,2,4-Trichlorobenzene	ND		2.3		ug/L			11/30/22 12:13	4
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 12:13	4
1,2-Dibromo-3-Chloropropane	ND	*+	7.1		ug/L			11/30/22 12:13	4
1,2-Dibromoethane	ND		1.6		ug/L			11/30/22 12:13	4
1,2-Dichlorobenzene	ND		1.5		ug/L			11/30/22 12:13	4
1,2-Dichloroethane	ND		2.2		ug/L			11/30/22 12:13	4
1,2-Dichloropropane	ND		2.1		ug/L			11/30/22 12:13	4
1,3,5-Trimethylbenzene	ND		1.5		ug/L			11/30/22 12:13	4
1,3-Dichlorobenzene	ND		1.3		ug/L			11/30/22 12:13	4
1,3-Dichloropropane	ND	*-	1.5		ug/L			11/30/22 12:13	4
1,4-Dichlorobenzene	ND		1.6		ug/L			11/30/22 12:13	4
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 12:13	4
2-Butanone (MEK)	ND		24		ug/L			11/30/22 12:13	4
2-Chlorotoluene	ND		1.4		ug/L			11/30/22 12:13	4
2-Hexanone	ND		6.8		ug/L			11/30/22 12:13	4
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 12:13	4
4-Isopropyltoluene	ND		1.7		ug/L			11/30/22 12:13	4
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 12:13	4
Acetone	ND		26		ug/L			11/30/22 12:13	4
Benzene	ND		1.2		ug/L			11/30/22 12:13	4
Bromobenzene	ND		1.6		ug/L			11/30/22 12:13	4
Bromochloromethane	ND		1.6		ug/L			11/30/22 12:13	4
Bromodichloromethane	ND		1.5		ug/L			11/30/22 12:13	4
Bromoform	ND	*1	4.8		ug/L			11/30/22 12:13	4
Bromomethane	ND		9.4		ug/L			11/30/22 12:13	4
Carbon disulfide	ND		2.5		ug/L			11/30/22 12:13	4
Carbon tetrachloride	ND		2.3		ug/L			11/30/22 12:13	4
Chlorobenzene	ND		1.7		ug/L			11/30/22 12:13	4
Chloroethane	ND		5.5		ug/L			11/30/22 12:13	4
Chloroform	**4.2**		1.4		ug/L			11/30/22 12:13	4
Chloromethane	ND		3.0		ug/L			11/30/22 12:13	4
cis-1,2-Dichloroethene	ND		1.3		ug/L			11/30/22 12:13	4
cis-1,3-Dichloropropene	ND		2.5		ug/L			11/30/22 12:13	4
Dibromochloromethane	ND		2.5		ug/L			11/30/22 12:13	4
Dibromomethane	ND		1.4		ug/L			11/30/22 12:13	4
Dichlorodifluoromethane	ND		3.8		ug/L			11/30/22 12:13	4
Ethylbenzene	ND		1.2		ug/L			11/30/22 12:13	4
Hexachlorobutadiene	ND		4.7		ug/L			11/30/22 12:13	4
Isopropylbenzene	ND		1.5		ug/L			11/30/22 12:13	4
Methylene Chloride	ND		5.0		ug/L			11/30/22 12:13	4
Naphthalene	ND		2.5		ug/L			11/30/22 12:13	4
n-Butylbenzene	ND	*1	1.9		ug/L			11/30/22 12:13	4
N-Propylbenzene	ND		2.1		ug/L			11/30/22 12:13	4

Client Sample ID: LEACH POND

Date Collected: 11/17/22 13:40
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169433-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.8		ug/L			11/30/22 12:13	4
Styrene	ND	*1	1.4		ug/L			11/30/22 12:13	4
tert-Butylbenzene	ND		1.7		ug/L			11/30/22 12:13	4
Tetrachloroethene	ND		1.6		ug/L			11/30/22 12:13	4
Toluene	ND		1.3		ug/L			11/30/22 12:13	4
trans-1,2-Dichloroethene	ND		1.5		ug/L			11/30/22 12:13	4
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 12:13	4
Trichloroethene	ND		1.2		ug/L			11/30/22 12:13	4
Trichlorofluoromethane	ND		2.3		ug/L			11/30/22 12:13	4
Vinyl chloride	ND		2.0		ug/L			11/30/22 12:13	4
Xylenes (total)	ND		2.0		ug/L			11/30/22 12:13	4

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/30/22 12:13*	*4*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*		*11/30/22 12:13*	*4*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/30/22 12:13*	*4*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*11/30/22 12:13*	*4*
Toluene-d8 (Surr)	*96*		*80 - 125*		*11/30/22 12:13*	*4*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	**24000**		100		ug/L		12/02/22 19:26	12/05/22 22:49	1
Silver	ND		3.0		ug/L		12/02/22 19:26	12/05/22 22:49	1
Zinc	**30**		26		ug/L		12/02/22 19:26	12/05/22 22:49	1

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69000**		500		ug/L		12/02/22 19:26	12/05/22 23:24	1
Iron	**3700**		30		ug/L		12/06/22 15:58	12/07/22 16:39	1
Magnesium	**88000**		200		ug/L		12/02/22 19:26	12/05/22 23:24	1
Manganese	**680**		3.0		ug/L		12/02/22 19:26	12/05/22 23:24	1
Potassium	**370000**		500		ug/L		12/02/22 19:26	12/05/22 23:24	1
Sodium	**1400000**		1000		ug/L		12/02/22 19:26	12/05/22 23:24	1

Method: SW846 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**20**		0.60		ug/L		12/05/22 08:47	12/06/22 23:21	1
Arsenic	**170**		1.0		ug/L		12/05/22 08:47	12/06/22 23:21	1
Barium	**290**		1.0		ug/L		12/05/22 08:47	12/06/22 23:21	1
Beryllium	ND		0.40		ug/L		12/05/22 08:47	12/06/22 23:21	1
Cadmium	ND		0.30		ug/L		12/05/22 08:47	12/06/22 23:21	1
Chromium	**140**		2.0		ug/L		12/05/22 08:47	12/06/22 23:21	1
Cobalt	**32**		0.20		ug/L		12/05/22 08:47	12/06/22 23:21	1
Copper	ND		1.0		ug/L		12/05/22 08:47	12/06/22 23:21	1
Lead	**1.7**		0.50		ug/L		12/05/22 08:47	12/06/22 23:21	1
Nickel	**84**		1.0		ug/L		12/05/22 08:47	12/06/22 23:21	1
Selenium	ND		1.0		ug/L		12/05/22 08:47	12/06/22 23:21	1
Thallium	ND		0.20		ug/L		12/05/22 08:47	12/06/22 23:21	1
Vanadium	**94**		3.0		ug/L		12/05/22 08:47	12/06/22 23:21	1

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169433-1

Client Sample ID: LEACH POND

Date Collected: 11/17/22 13:40
Date Received: 11/19/22 09:20

Lab Sample ID: 280-169433-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions (SM 1030E)	110				meq/L			12/14/22 13:59	1
Total Cations (SM 1030E)	100				meq/L			12/14/22 13:59	1
Percent Difference (SM 1030E)	-1.9				%			12/14/22 13:59	1
Calcium (SM 1030E)	69				mg/L			12/14/22 13:59	1
Magnesium (SM 1030E)	88				mg/L			12/14/22 13:59	1
Potassium (SM 1030E)	370				mg/L			12/14/22 13:59	1
Sodium (SM 1030E)	1400				mg/L			12/14/22 13:59	1
Ammonia as N (SM 1030E)	300				mg/L			12/14/22 13:59	1
Chloride (SM 1030E)	1900				mg/L			12/14/22 13:59	1
Sulfate (SM 1030E)	84				mg/L			12/14/22 13:59	1
Carbonate Alkalinity (SM 1030E)	0.00				mg/L			12/14/22 13:59	1
Bicarbonate Alkalinity (SM 1030E)	2400				mg/L			12/14/22 13:59	1
Total Alkalinity (SM 1030E)	2400				mg/L			12/14/22 13:59	1
Nitrate/Nitrite (SM 1030E)	47				mg/L			12/14/22 13:59	1
Anion/Cation Balance (SM 1030E)	-1.9				%			12/14/22 13:59	1
Calculated TDS (SM 1030E)	5600				mg/L			12/14/22 13:59	1
TDS Ratio (SM 1030E)	0.45				NONE			12/14/22 13:59	1
Total Dissolved Solids (SM 1030E)	2500				mg/L			12/14/22 13:59	1
Iron (SM 1030E)	3.7				mg/L			12/14/22 13:59	1
Calcium (SM 1030E (meq))	3.4				meq/L			12/14/22 13:59	1
Magnesium (SM 1030E (meq))	7.2				meq/L			12/14/22 13:59	1
Potassium (SM 1030E (meq))	9.5				meq/L			12/14/22 13:59	1
Sodium (SM 1030E (meq))	61				meq/L			12/14/22 13:59	1
Iron (SM 1030E (meq))	0.20				meq/L			12/14/22 13:59	1
Ammonia (SM 1030E (meq))	21				meq/L			12/14/22 13:59	1
Chloride (SM 1030E (meq))	54				meq/L			12/14/22 13:59	1
Sulfate (SM 1030E (meq))	1.7				meq/L			12/14/22 13:59	1
Nitrate Nitrite as N (SM 1030E (meq))	3.4				meq/L			12/14/22 13:59	1
Alkalinity (SM 1030E (meq))	48				meq/L			12/14/22 13:59	1
Carbonate Alkalinity as CaCO3 (SM 1030E (meq))	0.00				meq/L			12/14/22 13:59	1
Bicarbonate Alkalinity as CaCO3 (SM 1030E (meq))	48				meq/L			12/14/22 13:59	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	1900		51		mg/L			12/09/22 09:53	50
Sulfate (MCAWW 300.0)	84		5.0		mg/L			12/09/22 09:36	1
Ammonia as N (MCAWW 350.1)	300		2.3		mg/L			12/13/22 09:59	80
Total Kjeldahl Nitrogen (MCAWW 351.2)	320		34		mg/L		12/01/22 16:45	12/05/22 11:38	10
Nitrate Nitrite as N (MCAWW 353.2	47		4.4		mg/L			12/14/22 14:08	100
Chemical Oxygen Demand (COD) (MCAWW 410.4)	1700		430		mg/L			11/29/22 12:38	50
Total Organic Carbon - Average (SW846 9060)	310		6.9		mg/L			12/07/22 19:40	20
Total Alkalinity (SM 2320B)	2400		10		mg/L			11/23/22 12:29	1
Bicarbonate Alkalinity (SM 2320B)	2400		10		mg/L			11/23/22 12:29	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			11/23/22 12:29	1
Hardness, as CaCO3 (SM 2340C)	730		3.0		mg/L			12/06/22 11:33	5
Total Dissolved Solids (SM 2540C)	2500		47		mg/L			11/22/22 11:21	1

Client Sample ID: LEACH POND
Lab Sample ID: 280-169433-3

Date Collected: 11/17/22 13:40
Matrix: Water

Date Received: 11/19/22 09:20

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	25		4.0		mg/L			11/21/22 12:36	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C (SW846 9040B)	8.3	HF	0.1		SU			11/22/22 14:41	1
Specific Conductance (SW846 9050A)	9500		2.0		umhos/cm			11/28/22 12:07	1

Surrogate Summary

Client: Waste Management
Project/Site: 1003|Riverbend Landfill SCS Engineers

Job ID: 280-169433-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-169433-1	TB04	92	104	107	107
280-169433-2	LPOND LDS	97	101	100	85
280-169433-3	LEACH POND	97	96	99	96
LCS 280-595025/1002	Lab Control Sample	78	92	93	98
LCSD 280-595025/4	Lab Control Sample Dup	88	89	100	97
MB 280-595025/8	Method Blank	81	91	97	86

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-595025/8
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1-Dichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,1-Dichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
1,1-Dichloropropene	ND		1.0		ug/L			11/30/22 09:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/30/22 09:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/30/22 09:26	1
1,2-Dibromoethane	ND		1.0		ug/L			11/30/22 09:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,2-Dichloroethane	ND		1.0		ug/L			11/30/22 09:26	1
1,2-Dichloropropane	ND		1.0		ug/L			11/30/22 09:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
1,3-Dichloropropane	ND		1.0		ug/L			11/30/22 09:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
2,2-Dichloropropane	ND		5.0		ug/L			11/30/22 09:26	1
2-Butanone (MEK)	ND		6.0		ug/L			11/30/22 09:26	1
2-Chlorotoluene	ND		1.0		ug/L			11/30/22 09:26	1
2-Hexanone	ND		5.0		ug/L			11/30/22 09:26	1
4-Chlorotoluene	ND		1.0		ug/L			11/30/22 09:26	1
4-Isopropyltoluene	ND		1.0		ug/L			11/30/22 09:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/30/22 09:26	1
Acetone	ND		10		ug/L			11/30/22 09:26	1
Benzene	ND		1.0		ug/L			11/30/22 09:26	1
Bromobenzene	ND		1.0		ug/L			11/30/22 09:26	1
Bromochloromethane	ND		1.0		ug/L			11/30/22 09:26	1
Bromodichloromethane	ND		1.0		ug/L			11/30/22 09:26	1
Bromoform	ND		1.2		ug/L			11/30/22 09:26	1
Bromomethane	ND		2.4		ug/L			11/30/22 09:26	1
Carbon disulfide	ND		2.0		ug/L			11/30/22 09:26	1
Carbon tetrachloride	ND		1.0		ug/L			11/30/22 09:26	1
Chlorobenzene	ND		1.0		ug/L			11/30/22 09:26	1
Chloroethane	ND		2.0		ug/L			11/30/22 09:26	1
Chloroform	ND		1.0		ug/L			11/30/22 09:26	1
Chloromethane	ND		2.0		ug/L			11/30/22 09:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/30/22 09:26	1
Dibromochloromethane	ND		1.0		ug/L			11/30/22 09:26	1
Dibromomethane	ND		1.0		ug/L			11/30/22 09:26	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/30/22 09:26	1
Ethylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Hexachlorobutadiene	ND		1.2		ug/L			11/30/22 09:26	1
Isopropylbenzene	ND		1.0		ug/L			11/30/22 09:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-595025/8
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			11/30/22 09:26	1
Naphthalene	ND		1.0		ug/L			11/30/22 09:26	1
n-Butylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
N-Propylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
sec-Butylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Styrene	ND		1.0		ug/L			11/30/22 09:26	1
tert-Butylbenzene	ND		1.0		ug/L			11/30/22 09:26	1
Tetrachloroethene	ND		1.0		ug/L			11/30/22 09:26	1
Toluene	ND		1.0		ug/L			11/30/22 09:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
trans-1,3-Dichloropropene	ND		3.0		ug/L			11/30/22 09:26	1
Trichloroethene	ND		1.0		ug/L			11/30/22 09:26	1
Trichlorofluoromethane	ND		2.0		ug/L			11/30/22 09:26	1
Vinyl chloride	ND		1.0		ug/L			11/30/22 09:26	1
Xylenes (total)	ND		2.0		ug/L			11/30/22 09:26	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					11/30/22 09:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 127		11/30/22 09:26	1
4-Bromofluorobenzene (Surr)	91		78 - 120		11/30/22 09:26	1
Dibromofluoromethane (Surr)	97		77 - 120		11/30/22 09:26	1
Toluene-d8 (Surr)	86		80 - 125		11/30/22 09:26	1

Lab Sample ID: LCS 280-595025/1002
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	74 - 121
1,1,1-Trichloroethane	25.0	20.9		ug/L		83	62 - 132
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	72 - 122
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	72 - 128
1,1-Dichloroethane	25.0	22.8		ug/L		91	66 - 130
1,1-Dichloroethene	25.0	23.7		ug/L		95	62 - 130
1,1-Dichloropropene	25.0	21.3		ug/L		85	64 - 133
1,2,3-Trichlorobenzene	25.0	30.4		ug/L		122	70 - 127
1,2,3-Trichloropropane	25.0	27.2		ug/L		109	74 - 123
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		105	73 - 124
1,2,4-Trimethylbenzene	25.0	21.5		ug/L		86	74 - 124
1,2-Dibromo-3-Chloropropane	25.0	32.3	*+	ug/L		129	58 - 122
1,2-Dibromoethane	25.0	22.2		ug/L		89	81 - 118
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	77 - 121
1,2-Dichloroethane	25.0	20.7		ug/L		83	61 - 130
1,2-Dichloropropane	25.0	22.1		ug/L		89	68 - 127
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	73 - 127
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	76 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-595025/1002
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichloropropane	25.0	19.7	*-	ug/L		79	80 - 118
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	76 - 119
2,2-Dichloropropane	25.0	22.4		ug/L		90	57 - 140
2-Butanone (MEK)	100	83.0		ug/L		83	53 - 135
2-Chlorotoluene	25.0	24.8		ug/L		99	75 - 123
2-Hexanone	100	82.6		ug/L		83	58 - 134
4-Chlorotoluene	25.0	21.9		ug/L		88	74 - 124
4-Isopropyltoluene	25.0	23.8		ug/L		95	74 - 127
4-Methyl-2-pentanone	100	90.8		ug/L		91	56 - 135
Acetone	100	82.2		ug/L		82	50 - 137
Benzene	25.0	23.4		ug/L		93	69 - 126
Bromobenzene	25.0	24.6		ug/L		98	75 - 122
Bromochloromethane	25.0	25.7		ug/L		103	71 - 130
Bromodichloromethane	25.0	23.3		ug/L		93	67 - 126
Bromoform	25.0	28.7		ug/L		115	57 - 125
Bromomethane	25.0	21.9		ug/L		87	25 - 163
Carbon disulfide	25.0	24.8		ug/L		99	56 - 128
Carbon tetrachloride	25.0	22.6		ug/L		90	60 - 133
Chlorobenzene	25.0	24.2		ug/L		97	78 - 118
Chloroethane	25.0	21.4		ug/L		86	52 - 144
Chloroform	25.0	21.9		ug/L		88	68 - 128
Chloromethane	25.0	25.3		ug/L		101	43 - 142
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	69 - 126
cis-1,3-Dichloropropene	25.0	21.9		ug/L		88	75 - 120
Dibromochloromethane	25.0	22.4		ug/L		89	71 - 122
Dibromomethane	25.0	23.9		ug/L		96	68 - 129
Dichlorodifluoromethane	25.0	26.8		ug/L		107	26 - 152
Ethylbenzene	25.0	24.9		ug/L		100	76 - 121
Hexachlorobutadiene	25.0	22.0		ug/L		88	69 - 133
Isopropylbenzene	25.0	22.6		ug/L		90	70 - 127
Methylene Chloride	25.0	26.7		ug/L		107	64 - 128
Naphthalene	25.0	27.9		ug/L		111	63 - 129
n-Butylbenzene	25.0	25.8		ug/L		103	69 - 130
N-Propylbenzene	25.0	23.9		ug/L		96	73 - 127
sec-Butylbenzene	25.0	24.7		ug/L		99	72 - 127
Styrene	25.0	25.8		ug/L		103	79 - 120
tert-Butylbenzene	25.0	22.2		ug/L		89	72 - 126
Tetrachloroethene	25.0	23.8		ug/L		95	72 - 127
Toluene	25.0	23.3		ug/L		93	68 - 127
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	66 - 129
trans-1,3-Dichloropropene	25.0	22.2		ug/L		89	66 - 127
Trichloroethene	25.0	23.4		ug/L		94	70 - 125
Trichlorofluoromethane	25.0	17.7		ug/L		71	57 - 144
Vinyl chloride	25.0	23.5		ug/L		94	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*70 - 127*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-595025/1002
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*93*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Lab Sample ID: LCSD 280-595025/4
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	21.5		ug/L		86	74 - 121	16	20
1,1,1-Trichloroethane			25.0	21.4		ug/L		85	62 - 132	2	20
1,1,2,2-Tetrachloroethane			25.0	27.2		ug/L		109	72 - 122	5	20
1,1,2-Trichloroethane			25.0	23.4		ug/L		94	72 - 128	1	20
1,1-Dichloroethane			25.0	22.0		ug/L		88	66 - 130	4	20
1,1-Dichloroethene			25.0	23.8		ug/L		95	62 - 130	1	21
1,1-Dichloropropene			25.0	21.7		ug/L		87	64 - 133	2	20
1,2,3-Trichlorobenzene			25.0	31.7		ug/L		127	70 - 127	4	20
1,2,3-Trichloropropane			25.0	26.2		ug/L		105	74 - 123	4	20
1,2,4-Trichlorobenzene			25.0	25.4		ug/L		102	73 - 124	3	20
1,2,4-Trimethylbenzene			25.0	20.4		ug/L		82	74 - 124	5	20
1,2-Dibromo-3-Chloropropane			25.0	27.1		ug/L		109	58 - 122	17	21
1,2-Dibromoethane			25.0	22.7		ug/L		91	81 - 118	2	20
1,2-Dichlorobenzene			25.0	22.8		ug/L		91	77 - 121	15	20
1,2-Dichloroethane			25.0	19.9		ug/L		80	61 - 130	4	20
1,2-Dichloropropane			25.0	21.3		ug/L		85	68 - 127	4	20
1,3,5-Trimethylbenzene			25.0	20.3		ug/L		81	73 - 127	18	20
1,3-Dichlorobenzene			25.0	22.0		ug/L		88	76 - 121	5	20
1,3-Dichloropropane			25.0	20.9		ug/L		84	80 - 118	6	20
1,4-Dichlorobenzene			25.0	21.5		ug/L		86	76 - 119	9	20
2,2-Dichloropropane			25.0	21.5		ug/L		86	57 - 140	4	22
2-Butanone (MEK)			100	80.8		ug/L		81	53 - 135	3	20
2-Chlorotoluene			25.0	25.0		ug/L		100	75 - 123	1	20
2-Hexanone			100	87.3		ug/L		87	58 - 134	6	21
4-Chlorotoluene			25.0	21.5		ug/L		86	74 - 124	2	20
4-Isopropyltoluene			25.0	21.5		ug/L		86	74 - 127	10	20
4-Methyl-2-pentanone			100	91.8		ug/L		92	56 - 135	1	20
Acetone			100	84.6		ug/L		85	50 - 137	3	21
Benzene			25.0	22.3		ug/L		89	69 - 126	5	20
Bromobenzene			25.0	24.5		ug/L		98	75 - 122	0	20
Bromochloromethane			25.0	24.9		ug/L		100	71 - 130	3	20
Bromodichloromethane			25.0	22.3		ug/L		89	67 - 126	4	20
Bromoform			25.0	23.0	*1	ug/L		92	57 - 125	22	20
Bromomethane			25.0	20.6		ug/L		82	25 - 163	6	40
Carbon disulfide			25.0	23.3		ug/L		93	56 - 128	6	20
Carbon tetrachloride			25.0	23.1		ug/L		93	60 - 133	3	20
Chlorobenzene			25.0	21.3		ug/L		85	78 - 118	13	20
Chloroethane			25.0	21.0		ug/L		84	52 - 144	2	30
Chloroform			25.0	21.9		ug/L		87	68 - 128	0	20
Chloromethane			25.0	20.7		ug/L		83	43 - 142	20	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-595025/4
Matrix: Water
Analysis Batch: 595025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			25.0	23.4		ug/L		94	69 - 126	5	20
cis-1,3-Dichloropropene			25.0	20.9		ug/L		83	75 - 120	5	20
Dibromochloromethane			25.0	22.8		ug/L		91	71 - 122	2	20
Dibromomethane			25.0	22.5		ug/L		90	68 - 129	6	20
Dichlorodifluoromethane			25.0	24.9		ug/L		100	26 - 152	7	21
Ethylbenzene			25.0	20.8		ug/L		83	76 - 121	18	20
Hexachlorobutadiene			25.0	20.4		ug/L		82	69 - 133	7	20
Isopropylbenzene			25.0	23.4		ug/L		94	70 - 127	4	20
Methylene Chloride			25.0	25.2		ug/L		101	64 - 128	6	20
Naphthalene			25.0	26.8		ug/L		107	63 - 129	4	21
n-Butylbenzene			25.0	20.7	*1	ug/L		83	69 - 130	22	20
N-Propylbenzene			25.0	23.2		ug/L		93	73 - 127	3	20
sec-Butylbenzene			25.0	22.3		ug/L		89	72 - 127	10	20
Styrene			25.0	20.8	*1	ug/L		83	79 - 120	22	20
tert-Butylbenzene			25.0	24.3		ug/L		97	72 - 126	9	20
Tetrachloroethene			25.0	21.0		ug/L		84	72 - 127	13	20
Toluene			25.0	23.4		ug/L		94	68 - 127	0	20
trans-1,2-Dichloroethene			25.0	24.0		ug/L		96	66 - 129	6	20
trans-1,3-Dichloropropene			25.0	22.2		ug/L		89	66 - 127	0	20
Trichloroethene			25.0	22.2		ug/L		89	70 - 125	5	20
Trichlorofluoromethane			25.0	17.8		ug/L		71	57 - 144	0	28
Vinyl chloride			25.0	20.3		ug/L		81	53 - 141	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*
4-Bromofluorobenzene (Surr)	*89*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-595224/1-A
Matrix: Water
Analysis Batch: 595656

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 595224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		80		ug/L		12/02/22 19:26	12/05/22 22:28	1
Silicon	ND		100		ug/L		12/02/22 19:26	12/05/22 22:28	1
Iron	491		30		ug/L		12/02/22 19:26	12/05/22 22:28	1
Silver	ND		3.0		ug/L		12/02/22 19:26	12/05/22 22:28	1
Magnesium	ND		50		ug/L		12/02/22 19:26	12/05/22 22:28	1
Zinc	ND		26		ug/L		12/02/22 19:26	12/05/22 22:28	1
Manganese	ND		10		ug/L		12/02/22 19:26	12/05/22 22:28	1
Potassium	ND		500		ug/L		12/02/22 19:26	12/05/22 22:28	1
Sodium	ND		1000		ug/L		12/02/22 19:26	12/05/22 22:28	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-595224/2-A
Matrix: Water
Analysis Batch: 595656

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 595224

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	49600		ug/L		99	90 - 111
Silicon	10000	9720		ug/L		97	90 - 110
Iron	10000	10200		ug/L		102	89 - 115
Silver	50.0	51.5		ug/L		103	86 - 115
Magnesium	50000	49900		ug/L		100	90 - 113
Zinc	1000	987		ug/L		99	85 - 111
Manganese	1000	1010		ug/L		101	90 - 110
Potassium	50000	47800		ug/L		96	89 - 114
Sodium	50000	47900		ug/L		96	90 - 115

Lab Sample ID: LCSD 280-595224/3-A
Matrix: Water
Analysis Batch: 595656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 595224

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	50000	50000		ug/L		100	90 - 111	1	20
Silicon	10000	9760		ug/L		98	90 - 110	0	20
Iron	10000	10300		ug/L		103	89 - 115	1	20
Silver	50.0	51.9		ug/L		104	86 - 115	1	20
Magnesium	50000	50300		ug/L		101	90 - 113	1	20
Zinc	1000	997		ug/L		100	85 - 111	1	20
Manganese	1000	1020		ug/L		102	90 - 110	1	20
Potassium	50000	48300		ug/L		97	89 - 114	1	20
Sodium	50000	48300		ug/L		97	90 - 115	1	20

Lab Sample ID: 280-168996-A-5-C MS
Matrix: Water
Analysis Batch: 595656

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 595224

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silicon	16000		10000	25600		ug/L		99	79 - 140
Silver	ND		50.0	52.8		ug/L		106	75 - 141
Zinc	ND		1000	973		ug/L		97	60 - 137

Lab Sample ID: 280-168996-A-5-D MSD
Matrix: Water
Analysis Batch: 595656

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 595224

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silicon	16000		10000	25200		ug/L		96	79 - 140	1	20
Silver	ND		50.0	51.7		ug/L		103	75 - 141	2	20
Zinc	ND		1000	957		ug/L		95	60 - 137	2	20

Lab Sample ID: MB 280-595768/1-A
Matrix: Water
Analysis Batch: 595984

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 595768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		30		ug/L		12/06/22 15:58	12/07/22 15:06	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-595768/2-A
Matrix: Water
Analysis Batch: 595984

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 595768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10000		ug/L		100	89 - 115

Lab Sample ID: LCSD 280-595768/3-A
Matrix: Water
Analysis Batch: 595984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 595768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	10000	10000		ug/L		100	89 - 115	0	20

Lab Sample ID: 280-169378-A-1-B MS
Matrix: Water
Analysis Batch: 595656

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 595224

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	28000		50000	76600		ug/L		98	48 - 153
Magnesium	12000		50000	61700		ug/L		99	62 - 146
Manganese	54		1000	1050		ug/L		100	79 - 121
Potassium	14000		50000	64100		ug/L		99	76 - 132
Sodium	380000		50000	431000	4	ug/L		107	70 - 203

Lab Sample ID: 280-169378-A-1-C MSD
Matrix: Water
Analysis Batch: 595656

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 595224

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	28000		50000	78000		ug/L		100	48 - 153	2	20
Magnesium	12000		50000	62700		ug/L		101	62 - 146	2	20
Manganese	54		1000	1070		ug/L		101	79 - 121	2	20
Potassium	14000		50000	65200		ug/L		102	76 - 132	2	20
Sodium	380000		50000	442000	4	ug/L		128	70 - 203	2	20

Lab Sample ID: 280-168996-A-11-J MS
Matrix: Water
Analysis Batch: 595984

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 595768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	65		10000	10200		ug/L		101	52 - 155

Lab Sample ID: 280-168996-A-11-K MSD
Matrix: Water
Analysis Batch: 595984

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 595768

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	65		10000	10200		ug/L		101	52 - 155	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-595222/1-A
Matrix: Water
Analysis Batch: 595811

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 595222

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.60		ug/L		12/05/22 08:47	12/06/22 23:05	1
Arsenic	ND		1.0		ug/L		12/05/22 08:47	12/06/22 23:05	1
Barium	ND		1.0		ug/L		12/05/22 08:47	12/06/22 23:05	1
Beryllium	ND		0.40		ug/L		12/05/22 08:47	12/06/22 23:05	1
Cadmium	ND		0.30		ug/L		12/05/22 08:47	12/06/22 23:05	1
Chromium	ND		2.0		ug/L		12/05/22 08:47	12/06/22 23:05	1
Cobalt	ND		0.20		ug/L		12/05/22 08:47	12/06/22 23:05	1
Copper	ND		1.0		ug/L		12/05/22 08:47	12/06/22 23:05	1
Lead	ND		0.50		ug/L		12/05/22 08:47	12/06/22 23:05	1
Nickel	ND		1.0		ug/L		12/05/22 08:47	12/06/22 23:05	1
Selenium	ND		1.0		ug/L		12/05/22 08:47	12/06/22 23:05	1
Thallium	ND		0.20		ug/L		12/05/22 08:47	12/06/22 23:05	1
Vanadium	ND		3.0		ug/L		12/05/22 08:47	12/06/22 23:05	1

Lab Sample ID: LCS 280-595222/2-A
Matrix: Water
Analysis Batch: 595811

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 595222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	40.0	40.1		ug/L		100	85 - 115
Arsenic	40.0	40.6		ug/L		102	85 - 117
Barium	40.0	40.2		ug/L		100	85 - 118
Beryllium	40.0	39.8		ug/L		100	80 - 125
Cadmium	40.0	38.0		ug/L		95	85 - 115
Chromium	40.0	40.1		ug/L		100	84 - 121
Cobalt	40.0	40.0		ug/L		100	85 - 120
Copper	40.0	39.4		ug/L		99	85 - 119
Lead	40.0	40.3		ug/L		101	85 - 118
Nickel	40.0	41.3		ug/L		103	85 - 119
Selenium	40.0	41.7		ug/L		104	77 - 122
Thallium	40.0	40.2		ug/L		100	85 - 118
Vanadium	40.0	40.4		ug/L		101	85 - 120

Lab Sample ID: 280-169397-C-2-C MS
Matrix: Water
Analysis Batch: 595811

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 595222

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		40.0	39.3		ug/L		98	85 - 115
Arsenic	ND		40.0	41.6		ug/L		104	85 - 117
Barium	ND		40.0	38.8		ug/L		96	85 - 118
Beryllium	ND		40.0	37.7		ug/L		94	80 - 125
Cadmium	ND		40.0	39.4		ug/L		99	85 - 115
Chromium	ND		40.0	39.9		ug/L		100	84 - 121
Cobalt	ND		40.0	39.1		ug/L		98	85 - 120
Copper	ND		40.0	39.7		ug/L		99	85 - 119
Lead	ND		40.0	39.8		ug/L		99	85 - 118
Nickel	ND		40.0	40.4		ug/L		101	85 - 119
Selenium	ND		40.0	39.2		ug/L		98	77 - 122

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-169397-C-2-C MS
Matrix: Water
Analysis Batch: 595811

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 595222

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	ND		40.0	39.9		ug/L		100	85 - 118
Vanadium	ND		40.0	39.9		ug/L		100	85 - 120

Lab Sample ID: 280-169397-C-2-D MSD
Matrix: Water
Analysis Batch: 595811

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 595222

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		40.0	39.8		ug/L		99	85 - 115	1	20
Arsenic	ND		40.0	39.0		ug/L		98	85 - 117	6	20
Barium	ND		40.0	40.1		ug/L		99	85 - 118	3	20
Beryllium	ND		40.0	39.5		ug/L		99	80 - 125	5	20
Cadmium	ND		40.0	38.7		ug/L		97	85 - 115	2	20
Chromium	ND		40.0	40.3		ug/L		101	84 - 121	1	20
Cobalt	ND		40.0	40.2		ug/L		101	85 - 120	3	20
Copper	ND		40.0	40.8		ug/L		102	85 - 119	3	20
Lead	ND		40.0	40.0		ug/L		100	85 - 118	1	20
Nickel	ND		40.0	41.4		ug/L		104	85 - 119	2	20
Selenium	ND		40.0	40.5		ug/L		101	77 - 122	3	20
Thallium	ND		40.0	40.0		ug/L		100	85 - 118	0	20
Vanadium	ND		40.0	40.2		ug/L		101	85 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-596090/47
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			12/09/22 07:03	1
Sulfate	ND		5.0		mg/L			12/09/22 07:03	1

Lab Sample ID: MB 280-596090/6
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			12/08/22 19:26	1
Sulfate	ND		5.0		mg/L			12/08/22 19:26	1

Lab Sample ID: LCS 280-596090/4
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.2		mg/L		98	90 - 110
Sulfate	50.0	51.1		mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-596090/45
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.0	51.4		mg/L		103	90 - 110		
Sulfate			50.0	52.1		mg/L		104	90 - 110		

Lab Sample ID: LCSD 280-596090/46
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			50.0	51.2		mg/L		102	90 - 110	0	10
Sulfate			50.0	52.1		mg/L		104	90 - 110	0	10

Lab Sample ID: LCSD 280-596090/5
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			50.0	49.3		mg/L		99	90 - 110	0	10
Sulfate			50.0	51.1		mg/L		102	90 - 110	0	10

Lab Sample ID: MRL 280-596090/3
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			2.50	2.40	J	mg/L		96	50 - 150		
Sulfate			2.50	2.48	J	mg/L		99	50 - 150		

Lab Sample ID: 280-169478-A-1 MS
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	390		500	871		mg/L		96	80 - 120		
Sulfate	46		500	585		mg/L		108	80 - 120		

Lab Sample ID: 280-169478-A-1 MSD
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	390		500	883		mg/L		99	80 - 120	1	20
Sulfate	46		500	588		mg/L		108	80 - 120	0	20

Lab Sample ID: 280-169569-A-2 MS
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	40		1000	1180		mg/L		114	80 - 120		
Sulfate	3500	E	1000	4530	E	mg/L		99	80 - 120		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-169569-A-2 MSD
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	40		1000	1190		mg/L		115	80 - 120	0	20
Sulfate	3500	E	1000	4520	E	mg/L		99	80 - 120	0	20

Lab Sample ID: 280-169602-B-2 MS
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14		50.0	65.7		mg/L		104	80 - 120
Sulfate	49		50.0	101	E	mg/L		105	80 - 120

Lab Sample ID: 280-169602-B-2 MSD
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14		50.0	65.5		mg/L		104	80 - 120	0	20
Sulfate	49		50.0	101	E	mg/L		105	80 - 120	0	20

Lab Sample ID: 280-169478-A-1 DU
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	390		382		mg/L		2	15
Sulfate	46		45.2		mg/L		2	15

Lab Sample ID: 280-169569-A-2 DU
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	40		39.2		mg/L		3	15
Sulfate	3500	E	3490	E	mg/L		1	15

Lab Sample ID: 280-169602-B-2 DU
Matrix: Water
Analysis Batch: 596090

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	14		13.7		mg/L		0	15
Sulfate	49		48.9		mg/L		0.05	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-596566/19
Matrix: Water
Analysis Batch: 596566

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.040		mg/L			12/13/22 09:41	1

Lab Sample ID: LCS 280-596566/17
Matrix: Water
Analysis Batch: 596566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N			2.50	2.51		mg/L		101	90 - 110		

Lab Sample ID: LCSD 280-596566/18
Matrix: Water
Analysis Batch: 596566

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N			2.50	2.52		mg/L		101	90 - 110	0	10

Lab Sample ID: 280-169558-A-3 MS
Matrix: Water
Analysis Batch: 596566

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N	3.1		1.00	4.10		mg/L		103	90 - 110		

Lab Sample ID: 280-169558-A-3 MSD
Matrix: Water
Analysis Batch: 596566

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	3.1		1.00	4.10		mg/L		104	90 - 110	0	10

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 280-595277/28-A
Matrix: Water
Analysis Batch: 595473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0		mg/L		12/01/22 16:45	12/03/22 17:16	1

Lab Sample ID: MB 280-595277/2-A
Matrix: Water
Analysis Batch: 595559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0		mg/L		12/01/22 16:45	12/05/22 11:34	1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 280-595277/1-A
Matrix: Water
Analysis Batch: 595559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	6.00	6.01		mg/L		100	90 - 110

Lab Sample ID: LCS 280-595277/27-A
Matrix: Water
Analysis Batch: 595473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	6.00	6.20		mg/L		103	90 - 110

Lab Sample ID: 280-169611-A-4-B MS
Matrix: Water
Analysis Batch: 595559

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 595277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	ND		3.00	3.96		mg/L		99	90 - 110

Lab Sample ID: 280-169611-A-4-C MSD
Matrix: Water
Analysis Batch: 595559

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 595277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	ND		3.00	3.95		mg/L		99	90 - 110	0	25

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-596249/22
Matrix: Water
Analysis Batch: 596249

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10		mg/L			12/09/22 14:48	1

Lab Sample ID: LCS 280-596249/21
Matrix: Water
Analysis Batch: 596249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.00	5.10		mg/L		102	90 - 110

Lab Sample ID: 280-169398-C-1 MS
Matrix: Water
Analysis Batch: 596249

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.39		4.00	4.35		mg/L		99	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 280-169398-C-1 MSD
Matrix: Water
Analysis Batch: 596249

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.39		4.00	4.54		mg/L		104	90 - 110	4	10

Lab Sample ID: MB 280-596716/61
Matrix: Water
Analysis Batch: 596716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10		mg/L			12/14/22 12:56	1

Lab Sample ID: LCS 280-596716/60
Matrix: Water
Analysis Batch: 596716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.00	5.10		mg/L		102	90 - 110

Lab Sample ID: 280-169656-B-6 MS
Matrix: Water
Analysis Batch: 596716

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	ND		4.00	4.06		mg/L		100	90 - 110

Lab Sample ID: 280-169656-B-6 MSD
Matrix: Water
Analysis Batch: 596716

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		4.00	4.46		mg/L		110	90 - 110	9	10

Method: 410.4 - COD

Lab Sample ID: MB 280-594928/5
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (COD)	ND		20		mg/L			11/29/22 12:38	1

Lab Sample ID: LCS 280-594928/3
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand (COD)	100	97.0		mg/L		97	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: LCSD 280-594928/4
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)			100	104		mg/L		104	90 - 110	7	11

Lab Sample ID: 280-169553-B-1 MS
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand (COD)	ND	F1	50.0	57.3	F1	mg/L		82	90 - 110		

Lab Sample ID: 280-169553-B-1 MSD
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	ND	F1	50.0	59.3	F1	mg/L		86	90 - 110	3	11

Method: 9040B - pH

Lab Sample ID: LCS 280-594521/4
Matrix: Water
Analysis Batch: 594521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH adj. to 25 deg C			7.00	7.1		SU		101	99 - 101		

Lab Sample ID: 280-169459-D-2 DU
Matrix: Water
Analysis Batch: 594521

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH adj. to 25 deg C	7.6			7.6		SU				0.1	5

Method: 9050A - Specific Conductance

Lab Sample ID: MB 280-594767/5
Matrix: Water
Analysis Batch: 594767

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0		umhos/cm			11/28/22 12:07	1

Lab Sample ID: LCS 280-594767/4
Matrix: Water
Analysis Batch: 594767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			1410	1400		umhos/cm		100	90 - 110		

Method: 9050A - Specific Conductance (Continued)

Lab Sample ID: 280-169457-A-2 DU
Matrix: Water
Analysis Batch: 594767

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	3000		3040		umhos/cm		0	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-595843/4
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/06/22 18:18	1

Lab Sample ID: LCS 280-595843/3
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	26.8		mg/L		107	88 - 112

Lab Sample ID: LCSD 280-595843/21
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	25.0	25.2		mg/L		101	88 - 112	1	15

Lab Sample ID: 280-169222-A-3 MS
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	16		250	285		mg/L		107	88 - 112

Lab Sample ID: 280-169222-A-3 MSD
Matrix: Water
Analysis Batch: 595843

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	16		250	283		mg/L		106	88 - 112	1	15

Lab Sample ID: MB 280-596033/4
Matrix: Water
Analysis Batch: 596033

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/07/22 16:30	1

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 280-596033/3
Matrix: Water
Analysis Batch: 596033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	23.7		mg/L		95	88 - 112		

Lab Sample ID: 280-169273-A-3 MS
Matrix: Water
Analysis Batch: 596033

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	130		501	606		mg/L		95	88 - 112		

Lab Sample ID: 280-169273-A-3 MSD
Matrix: Water
Analysis Batch: 596033

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	130		501	599		mg/L		94	88 - 112	1	15

Method: SM 1030E (meq) - Cation Anion Balance

Lab Sample ID: MB 280-596713/1
Matrix: Water
Analysis Batch: 596713

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.000				meq/L			12/14/22 13:55	1
Magnesium	0.000				meq/L			12/14/22 13:55	1
Potassium	0.000				meq/L			12/14/22 13:55	1
Sodium	0.000				meq/L			12/14/22 13:55	1
Iron	0.000				meq/L			12/14/22 13:55	1
Ammonia	0.000				meq/L			12/14/22 13:55	1
Ammonia as N	0.000				meq/L			12/14/22 13:55	1
Chloride	0.000				meq/L			12/14/22 13:55	1
Sulfate	0.000				meq/L			12/14/22 13:55	1
Nitrate Nitrite as N	0.000				meq/L			12/14/22 13:55	1
Nitrate/Nitrite	0.000				meq/L			12/14/22 13:55	1
Alkalinity	0.000				meq/L			12/14/22 13:55	1
Total Alkalinity	0.000				meq/L			12/14/22 13:55	1
Carbonate Alkalinity	0.000				meq/L			12/14/22 13:55	1
Carbonate Alkalinity as CaCO3	0.000				meq/L			12/14/22 13:55	1
Bicarbonate Alkalinity	0.000				meq/L			12/14/22 13:55	1
Bicarbonate Alkalinity as CaCO3	0.000				meq/L			12/14/22 13:55	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-594596/5
Matrix: Water
Analysis Batch: 594596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		10		mg/L			11/23/22 10:24	1
Bicarbonate Alkalinity	ND		10		mg/L			11/23/22 10:24	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 280-594596/5
Matrix: Water
Analysis Batch: 594596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity	ND		10		mg/L			11/23/22 10:24	1

Lab Sample ID: LCS 280-594596/4
Matrix: Water
Analysis Batch: 594596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	200		mg/L		100	89 - 109		

Lab Sample ID: 280-169353-J-1 DU
Matrix: Water
Analysis Batch: 594596

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	440			442		mg/L				0.1	10
Bicarbonate Alkalinity	440			442		mg/L				0.1	20
Carbonate Alkalinity	ND			ND		mg/L				NC	20

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 280-595723/3
Matrix: Water
Analysis Batch: 595723

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness, as CaCO3	ND		3.0		mg/L			12/06/22 11:32	1

Lab Sample ID: LCS 280-595723/1
Matrix: Water
Analysis Batch: 595723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Hardness, as CaCO3			400	432		mg/L		108	90 - 110		

Lab Sample ID: LCSD 280-595723/2
Matrix: Water
Analysis Batch: 595723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hardness, as CaCO3			400	433		mg/L		108	90 - 110	0	10

Lab Sample ID: 280-169706-B-3 MS
Matrix: Water
Analysis Batch: 595723

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Hardness, as CaCO3	17	F1	400	468	F1	mg/L		113	90 - 110		

Method: SM 2340C - Hardness, Total (mg/l as CaC03) (Continued)

Lab Sample ID: 280-169706-B-3 MSD
Matrix: Water
Analysis Batch: 595723

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hardness, as CaCO3	17	F1	400	464	F1	mg/L		112	90 - 110	1	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-594400/1
Matrix: Water
Analysis Batch: 594400

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			11/22/22 11:21	1

Lab Sample ID: LCS 280-594400/2
Matrix: Water
Analysis Batch: 594400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	501	490		mg/L		98	88 - 114

Lab Sample ID: 280-169351-A-5 DU
Matrix: Water
Analysis Batch: 594400

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3200		3250		mg/L		0.2	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-594259/3
Matrix: Water
Analysis Batch: 594259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			11/21/22 12:35	1

Lab Sample ID: LCS 280-594259/1
Matrix: Water
Analysis Batch: 594259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	503	473		mg/L		94	79 - 114

Lab Sample ID: LCSD 280-594259/2
Matrix: Water
Analysis Batch: 594259

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	503	520		mg/L		104	79 - 114	10	20

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 280-169383-A-1 DU
Matrix: Water
Analysis Batch: 594259

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND			ND		mg/L				NC	10

GC/MS VOA

Analysis Batch: 595025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-1	TB04	Total/NA	Water	8260B	
280-169433-2	LPOND LDS	Total/NA	Water	8260B	
280-169433-3	LEACH POND	Total/NA	Water	8260B	
MB 280-595025/8	Method Blank	Total/NA	Water	8260B	
LCS 280-595025/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-595025/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 595222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total Recoverable	Water	3005A	
280-169433-3	LEACH POND	Total Recoverable	Water	3005A	
MB 280-595222/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-595222/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-169397-C-2-C MS	Matrix Spike	Total Recoverable	Water	3005A	
280-169397-C-2-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 595224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Dissolved	Water	3005A	
280-169433-2	LPOND LDS	Total Recoverable	Water	3005A	
280-169433-3	LEACH POND	Dissolved	Water	3005A	
280-169433-3	LEACH POND	Total Recoverable	Water	3005A	
MB 280-595224/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-595224/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 280-595224/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
280-168996-A-5-C MS	Matrix Spike	Total Recoverable	Water	3005A	
280-168996-A-5-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
280-169378-A-1-B MS	Matrix Spike	Dissolved	Water	3005A	
280-169378-A-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 595656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Dissolved	Water	6010B	595224
280-169433-2	LPOND LDS	Total Recoverable	Water	6010B	595224
280-169433-3	LEACH POND	Dissolved	Water	6010B	595224
280-169433-3	LEACH POND	Total Recoverable	Water	6010B	595224
MB 280-595224/1-A	Method Blank	Total Recoverable	Water	6010B	595224
LCS 280-595224/2-A	Lab Control Sample	Total Recoverable	Water	6010B	595224
LCSD 280-595224/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	595224
280-168996-A-5-C MS	Matrix Spike	Total Recoverable	Water	6010B	595224
280-168996-A-5-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	595224
280-169378-A-1-B MS	Matrix Spike	Dissolved	Water	6010B	595224
280-169378-A-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	595224

Prep Batch: 595768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-3	LEACH POND	Dissolved	Water	3005A	
MB 280-595768/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-595768/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 595768 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-595768/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
280-168996-A-11-J MS	Matrix Spike	Dissolved	Water	3005A	
280-168996-A-11-K MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 595811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total Recoverable	Water	6020	595222
280-169433-3	LEACH POND	Total Recoverable	Water	6020	595222
MB 280-595222/1-A	Method Blank	Total Recoverable	Water	6020	595222
LCS 280-595222/2-A	Lab Control Sample	Total Recoverable	Water	6020	595222
280-169397-C-2-C MS	Matrix Spike	Total Recoverable	Water	6020	595222
280-169397-C-2-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	595222

Analysis Batch: 595984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-3	LEACH POND	Dissolved	Water	6010B	595768
MB 280-595768/1-A	Method Blank	Total Recoverable	Water	6010B	595768
LCS 280-595768/2-A	Lab Control Sample	Total Recoverable	Water	6010B	595768
LCSD 280-595768/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	595768
280-168996-A-11-J MS	Matrix Spike	Dissolved	Water	6010B	595768
280-168996-A-11-K MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	595768

General Chemistry

Analysis Batch: 594259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	SM 2540D	
280-169433-3	LEACH POND	Total/NA	Water	SM 2540D	
MB 280-594259/3	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-594259/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-594259/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
280-169383-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 594400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	SM 2540C	
280-169433-3	LEACH POND	Total/NA	Water	SM 2540C	
MB 280-594400/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-594400/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-169351-A-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 594521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	9040B	
280-169433-3	LEACH POND	Total/NA	Water	9040B	
LCS 280-594521/4	Lab Control Sample	Total/NA	Water	9040B	
280-169459-D-2 DU	Duplicate	Total/NA	Water	9040B	

Analysis Batch: 594596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 594596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-3	LEACH POND	Total/NA	Water	SM 2320B	
MB 280-594596/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-594596/4	Lab Control Sample	Total/NA	Water	SM 2320B	
280-169353-J-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 594767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	9050A	
280-169433-3	LEACH POND	Total/NA	Water	9050A	
MB 280-594767/5	Method Blank	Total/NA	Water	9050A	
LCS 280-594767/4	Lab Control Sample	Total/NA	Water	9050A	
280-169457-A-2 DU	Duplicate	Total/NA	Water	9050A	

Analysis Batch: 594928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	410.4	
280-169433-3	LEACH POND	Total/NA	Water	410.4	
MB 280-594928/5	Method Blank	Total/NA	Water	410.4	
LCS 280-594928/3	Lab Control Sample	Total/NA	Water	410.4	
LCSD 280-594928/4	Lab Control Sample Dup	Total/NA	Water	410.4	
280-169553-B-1 MS	Matrix Spike	Total/NA	Water	410.4	
280-169553-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Prep Batch: 595277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	351.2	
280-169433-3	LEACH POND	Total/NA	Water	351.2	
MB 280-595277/28-A	Method Blank	Total/NA	Water	351.2	
MB 280-595277/2-A	Method Blank	Total/NA	Water	351.2	
LCS 280-595277/1-A	Lab Control Sample	Total/NA	Water	351.2	
LCS 280-595277/27-A	Lab Control Sample	Total/NA	Water	351.2	
280-169611-A-4-B MS	Matrix Spike	Total/NA	Water	351.2	
280-169611-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	

Analysis Batch: 595473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	351.2	595277
MB 280-595277/28-A	Method Blank	Total/NA	Water	351.2	595277
LCS 280-595277/27-A	Lab Control Sample	Total/NA	Water	351.2	595277

Analysis Batch: 595559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-3	LEACH POND	Total/NA	Water	351.2	595277
MB 280-595277/2-A	Method Blank	Total/NA	Water	351.2	595277
LCS 280-595277/1-A	Lab Control Sample	Total/NA	Water	351.2	595277
280-169611-A-4-B MS	Matrix Spike	Total/NA	Water	351.2	595277
280-169611-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	595277

Analysis Batch: 595723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	SM 2340C	

General Chemistry (Continued)

Analysis Batch: 595723 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-3	LEACH POND	Total/NA	Water	SM 2340C	
MB 280-595723/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 280-595723/1	Lab Control Sample	Total/NA	Water	SM 2340C	
LCSD 280-595723/2	Lab Control Sample Dup	Total/NA	Water	SM 2340C	
280-169706-B-3 MS	Matrix Spike	Total/NA	Water	SM 2340C	
280-169706-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 2340C	

Analysis Batch: 595843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	9060	
MB 280-595843/4	Method Blank	Total/NA	Water	9060	
LCS 280-595843/3	Lab Control Sample	Total/NA	Water	9060	
LCSD 280-595843/21	Lab Control Sample Dup	Total/NA	Water	9060	
280-169222-A-3 MS	Matrix Spike	Total/NA	Water	9060	
280-169222-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 596033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-3	LEACH POND	Total/NA	Water	9060	
MB 280-596033/4	Method Blank	Total/NA	Water	9060	
LCS 280-596033/3	Lab Control Sample	Total/NA	Water	9060	
280-169273-A-3 MS	Matrix Spike	Total/NA	Water	9060	
280-169273-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	9060	

Analysis Batch: 596090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	300.0	
280-169433-3	LEACH POND	Total/NA	Water	300.0	
280-169433-3	LEACH POND	Total/NA	Water	300.0	
MB 280-596090/47	Method Blank	Total/NA	Water	300.0	
MB 280-596090/6	Method Blank	Total/NA	Water	300.0	
LCS 280-596090/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-596090/45	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-596090/46	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-596090/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-596090/3	Lab Control Sample	Total/NA	Water	300.0	
280-169478-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-169478-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-169569-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-169569-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-169602-B-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-169602-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-169478-A-1 DU	Duplicate	Total/NA	Water	300.0	
280-169569-A-2 DU	Duplicate	Total/NA	Water	300.0	
280-169602-B-2 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 596249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	353.2	
MB 280-596249/22	Method Blank	Total/NA	Water	353.2	
LCS 280-596249/21	Lab Control Sample	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 596249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169398-C-1 MS	Matrix Spike	Total/NA	Water	353.2	
280-169398-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 596566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	350.1	
280-169433-3	LEACH POND	Total/NA	Water	350.1	
MB 280-596566/19	Method Blank	Total/NA	Water	350.1	
LCS 280-596566/17	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-596566/18	Lab Control Sample Dup	Total/NA	Water	350.1	
280-169558-A-3 MS	Matrix Spike	Total/NA	Water	350.1	
280-169558-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 596713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-2	LPOND LDS	Total/NA	Water	SM 1030E	
280-169433-2	LPOND LDS	Total/NA	Water	SM 1030E (meq)	
280-169433-3	LEACH POND	Total/NA	Water	SM 1030E	
280-169433-3	LEACH POND	Total/NA	Water	SM 1030E (meq)	
MB 280-596713/1	Method Blank	Total/NA	Water	SM 1030E (meq)	

Analysis Batch: 596716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169433-3	LEACH POND	Total/NA	Water	353.2	
MB 280-596716/61	Method Blank	Total/NA	Water	353.2	
LCS 280-596716/60	Lab Control Sample	Total/NA	Water	353.2	
280-169656-B-6 MS	Matrix Spike	Total/NA	Water	353.2	
280-169656-B-6 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Client Sample ID: TB04

Lab Sample ID: 280-169433-1

Date Collected: 11/17/22 07:00

Matrix: Water

Date Received: 11/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	595025	11/30/22 09:47	MD	EET DEN

Client Sample ID: LPOND LDS

Lab Sample ID: 280-169433-2

Date Collected: 11/17/22 13:10

Matrix: Water

Date Received: 11/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	5 mL	5 mL	595025	11/30/22 11:52	MD	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	595224	12/02/22 19:26	LJS	EET DEN
Dissolved	Analysis	6010B		1			595656	12/05/22 23:16	KRP	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	595224	12/02/22 19:26	LJS	EET DEN
Total Recoverable	Analysis	6010B		1			595656	12/05/22 22:41	KRP	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	595222	12/05/22 08:47	LJS	EET DEN
Total Recoverable	Analysis	6020		1			595811	12/06/22 23:19	LRD	EET DEN
Total/NA	Analysis	300.0		20	5 mL	5 mL	596090	12/09/22 09:19	MEC	EET DEN
Total/NA	Analysis	350.1		25	10 mL	10 mL	596566	12/13/22 09:57	MMP	EET DEN
Total/NA	Prep	351.2			5 mL	25 mL	595277	12/01/22 16:45	BCR	EET DEN
Total/NA	Analysis	351.2		5			595473	12/03/22 17:56	LRB	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	596249	12/09/22 15:36	ZPM	EET DEN
Total/NA	Analysis	410.4		20	2 mL	2 mL	594928	11/29/22 12:38	BCR	EET DEN
Total/NA	Analysis	9040B		1			594521	11/22/22 14:37	KEG	EET DEN
Total/NA	Analysis	9050A		1			594767	11/28/22 12:07	KEG	EET DEN
Total/NA	Analysis	9060		5	20 mL	20 mL	595843	12/06/22 20:28	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596713	12/14/22 13:59	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596713	12/14/22 13:59	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594596	11/23/22 12:08	KEG	EET DEN
Total/NA	Analysis	SM 2340C		5	25 mL	25 mL	595723	12/06/22 11:33	SJD	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	594400	11/22/22 11:21	ASP	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	594259	11/21/22 12:36	ASP	EET DEN

Client Sample ID: LEACH POND

Lab Sample ID: 280-169433-3

Date Collected: 11/17/22 13:40

Matrix: Water

Date Received: 11/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	5 mL	5 mL	595025	11/30/22 12:13	MD	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	595224	12/02/22 19:26	LJS	EET DEN
Dissolved	Analysis	6010B		1			595656	12/05/22 23:24	KRP	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	595768	12/06/22 15:58	LJS	EET DEN
Dissolved	Analysis	6010B		1			595984	12/07/22 16:39	KRP	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	595224	12/02/22 19:26	LJS	EET DEN
Total Recoverable	Analysis	6010B		1			595656	12/05/22 22:49	KRP	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-169433-1
Project/Site: 1003|Riverbend Landfill SCS Engineers

Client Sample ID: LEACH POND
Lab Sample ID: 280-169433-3

Date Collected: 11/17/22 13:40
Matrix: Water

Date Received: 11/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	595222	12/05/22 08:47	LJS	EET DEN
Total Recoverable	Analysis	6020		1			595811	12/06/22 23:21	LRD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	596090	12/09/22 09:36	MEC	EET DEN
Total/NA	Analysis	300.0		50	5 mL	5 mL	596090	12/09/22 09:53	MEC	EET DEN
Total/NA	Analysis	350.1		80	10 mL	10 mL	596566	12/13/22 09:59	MMP	EET DEN
Total/NA	Prep	351.2			5 mL	25 mL	595277	12/01/22 16:45	BCR	EET DEN
Total/NA	Analysis	351.2		10			595559	12/05/22 11:38	LRB	EET DEN
Total/NA	Analysis	353.2		100	100 mL	100 mL	596716	12/14/22 14:08	ZPM	EET DEN
Total/NA	Analysis	410.4		50	2 mL	2 mL	594928	11/29/22 12:38	BCR	EET DEN
Total/NA	Analysis	9040B		1			594521	11/22/22 14:41	KEG	EET DEN
Total/NA	Analysis	9050A		1			594767	11/28/22 12:07	KEG	EET DEN
Total/NA	Analysis	9060		20	20 mL	20 mL	596033	12/07/22 19:40	ABW	EET DEN
Total/NA	Analysis	SM 1030E		1			596713	12/14/22 13:59	SAH	EET DEN
Total/NA	Analysis	SM 1030E (meq)		1			596713	12/14/22 13:59	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			594596	11/23/22 12:29	KEG	EET DEN
Total/NA	Analysis	SM 2340C		5	25 mL	25 mL	595723	12/06/22 11:33	SJD	EET DEN
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	594400	11/22/22 11:21	ASP	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	594259	11/21/22 12:36	ASP	EET DEN

Laboratory References:
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: E. Taylor	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-124181-869.1
Client Contact:	Phone: 903 502 7627	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 1 of 1
Company: Waste Management	PWSID:			Job #:
Address: 13469 SW Highway 18	Due Date Requested:			
City: McMinnville	TAT Requested (days):			
State, Zip: OR, 97128	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email:	WO #:			
Project Name: 1003|Riverbend Landfill SCS Engineers	Project #: 28002786- Semiannual Leachate Lagoon - Apr Nov			
Site: Oregon	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alks/EC/pH/Cl/SO4	6010B/6020/7470A/2340C- Total Metals/Hardness	Ammonia/COD/TKN/TOC/NOXT	8260B- VOCs	2540D- TSS	6010B- Dissolved Metals (FF)	Cation/Anion Balance	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	N	D			
TB04	11/17/22	0700	G	W						X	X			2	Short Holds: pH
L Pond LDS	11/17/22	1310	G	W	X		X	X	X	X	X	X	X	9	
Leach Pond	11/17/22	1340	G	W	X		X	X	X	X	X	X	X	9	

280-169433 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/18/22 @ 1630	SCS		11-19-22 0920	ETA DEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 1073455

Cooler Temperature(s) °C and Other Remarks: 0.5°C IR12 CF0.0

Ver: 01/16/2019

1/9/2023

Do Not Lift Using This Tag

ORIGIN ID:BNOA

SHIP DATE: 18NOV22
ACTWGT: 50.80 LB
CAD: /SSFE2341
DIMS: 27x13x12 IN

Part # 156207-438-NNNN REV 05/21

TO SAMPLE RECEIVING
EUROFINS DENVER
4955 YARROW ST

0.5°C
1073455

ARVADA CO 80002 (US)
(303) 736-0100
INV:
PO: REF: DEPT:

FedEx Express

J224222101802uv

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0667 8172 5304 4223

XO LAAA

80002
CO-US DEN

RT 938 1/ A
12:00 4223
ST 6

280-169433 Waybill

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-169433-1

Login Number: 169433
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Eurofins Environmental Testing

ORELAP Certification

Oregon
Environmental Laboratory
Accreditation Program

NELAP Recognized

TestAmerica Denver

4025

4955 Yarrow St.

Arvada, CO 80002

IS GRANTED APPROVAL BY ORELAP UNDER THE 2016 TNI STANDARDS, TO PERFORM ANALYSES ON ENVIRONMENTAL SAMPLES IN MATRICES AS LISTED BELOW :

Air	Drinking Water	Non-Potable Water	Solids and Chemical Waste	Tissue
	Chemistry	Chemistry	Chemistry	

AND AS RECORDED IN THE LIST OF APPROVED ANALYTES, METHODS, ANALYTICAL TECHNIQUES, AND FIELDS OF TESTING ISSUED CONCURRENTLY WITH THIS CERTIFICATE AND REVISED AS NECESSARY.

ACCREDITED STATUS DEPENDS ON SUCCESSFUL ONGOING PARTICIPATION IN THE PROGRAM AND CONTINUED COMPLIANCE WITH THE STANDARDS.

CUSTOMERS ARE URGED TO VERIFY THE LABORATORY'S CURRENT ACCREDITATION STATUS IN OREGON.

Travis Bartholomew
Oregon State Public Health Laboratory
ORELAP Program Manager
7202 NE Evergreen Parkway, Suite 100
Hillsboro, OR 97124

EFFECTIVE DATE : **1/9/2022**
EXPIRATION DATE : **1/8/2023**
Certificate No : **4025 - 016**

OREGON

Environmental Laboratory Accreditation Program

ORELAP Fields of Accreditation

TestAmerica Denver
4955 Yarrow St.
Arvada, CO 80002

ORELAP ID: 4025
EPA CODE: CO00026
Certificate: 4025 - 016

Issue Date: 1/9/2022 Expiration Date: 1/8/2023

As of 1/9/2022 this list supersedes all previous lists for this certificate number.

Matrix	Reference	Analyte Code	Analyte	Method Code	Description
Drinking Water					
	DV-LC-0012 16			60036035	TestAmerica Denver - PFOA in NPW and SCM by HPLC-MS-MS
		7044	Ammonium Perfluorooctanoate (APFO)		
		6911	Perfluorobutane Sulfonate (PFBS)		
		6915	Perfluorobutanoic acid (PFBA)		
		9562	Perfluorodecane Sulfonate (PFDS)		
		6905	Perfluorodecanoic acid (PFDA)		
		6903	Perfluorododecanoic acid (PFDoA)		
		6908	Perfluoroheptanoic acid (PFHpA)		
		6910	Perfluorohexane sulfonate (PFHxS)		
		6913	Perfluorohexanoic acid (PFHxA)		
		6906	Perfluorononanoic acid (PFNA)		
		6917	Perfluorooctane sulfonamide (PFOSAm)		
		6909	Perfluorooctane sulfonate (PFOS)		
		6912	Perfluorooctanoic acid (PFOA)		
		6914	Perfluoropentanoic acid (PFPeA)		
		6902	Perfluorotetradecanoic acid (PFTDA)		
		9563	Perfluorotridecanoic acid (PFTrDA)		
		6904	Perfluoroundecanoic acid (PFUnA)		
	EPA 524.2			10088605	Volatile Organic Compounds GC/MS Capillary Column
		5105	1,1,1,2-Tetrachloroethane		
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5165	1,1,2-Trichloroethane		
		4630	1,1-Dichloroethane		
		4640	1,1-Dichloroethylene		
		4670	1,1-Dichloropropene		
		5150	1,2,3-Trichlorobenzene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5180	1,2,3-Trichloropropane		
		5155	1,2,4-Trichlorobenzene		
		5210	1,2,4-Trimethylbenzene		
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4610	1,2-Dichlorobenzene		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		4655	1,2-Dichloropropane		
		5215	1,3,5-Trimethylbenzene		
		4615	1,3-Dichlorobenzene		
		4660	1,3-Dichloropropane		
		4620	1,4-Dichlorobenzene		
		4665	2,2-Dichloropropane		
		4535	2-Chlorotoluene		
		4540	4-Chlorotoluene		
		4910	4-Isopropyltoluene (p-Cymene)		
		4375	Benzene		
		4385	Bromobenzene		
		4390	Bromochloromethane		
		4395	Bromodichloromethane		
		4400	Bromoform		
		4455	Carbon tetrachloride		
		4475	Chlorobenzene		
		4575	Chlorodibromomethane		
		4485	Chloroethane (Ethyl chloride)		
		4505	Chloroform		
		4705	cis & trans-1,2-Dichloroethene		
		4645	cis-1,2-Dichloroethylene		
		4680	cis-1,3-Dichloropropene		
		4595	Dibromomethane (Methylene bromide)		
		4625	Dichlorodifluoromethane (Freon-12)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4765	Ethylbenzene		
		4835	Hexachlorobutadiene		
		4900	Isopropylbenzene (Cumene)		
		4950	Methyl bromide (Bromomethane)		
		4960	Methyl chloride (Chloromethane)		
		5000	Methyl tert-butyl ether (MTBE)		
		4975	Methylene chloride (Dichloromethane)		
		5005	Naphthalene		
		4435	n-Butylbenzene		
		5090	n-Propylbenzene		
		4440	sec-Butylbenzene		
		5100	Styrene		
		4445	tert-Butylbenzene		
		5115	Tetrachloroethylene (Perchloroethylene)		
		5140	Toluene		
		4700	trans-1,2-Dichloroethylene		
		4685	trans-1,3-Dichloropropylene		
		5170	Trichloroethene (Trichloroethylene)		
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
		5235	Vinyl chloride		
		5260	Xylene (total)		
Non-Potable Water					
	AK101 GRO			90015002	Determination of Gasoline Range Organics - Alaska Department of Environmental Conservation
		9408	Gasoline range organics (GRO)		
		4027	Total BTEX		
	AK102 DRO			90015206	Determination of Diesel Range Organics - Alaska Department of Environmental Conservation
		9369	Diesel range organics (DRO)		
	AK103 RRO			90015400	Determination of Residual Range Organics - Alaska Department of Environmental Conservation

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		9499	Motor Oil		
	ASTM D7065-06			30032918	Nonylphenol by GC/MS
		6513	4-Nonylphenol		
		9466	4-Nonylphenol diethoxylate		
		6512	4-tert-Octylphenol		
		9301	Bisphenol A		
		9592	Nonyl phenol monoethoxylate		
	CA HML 939-M			90016765	Determination of Organic Lead Compounds by Graphite Furnace Absorption Spectrometry
		1208	Organic Lead		
	CA Title 22 WET			90017235	CA Waste Extraction Test (WET)
		1407	California Waste Extraction Test		
	DV-LC-0012 16			60036035	TestAmerica Denver - PFOA in NPW and SCM by HPLC-MS-MS
		9490	11-chloreicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		
		6948	1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)		
		9616	1H, 1H, 2H, 2H-perfluorododecane sulfonic acid (10:2 FTS)		
		6946	1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)		
		6947	1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)		
		6951	4,8-Dioxa-3H-perfluorononanoic acid (DONA)		
		6952	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		
		7044	Ammonium Perfluorooctanoate (APFO)		
		4846	N-Ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4847	N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)		
		6911	Perfluorobutane Sulfonate (PFBS)		
		6918	Perfluorobutane sulfonic acid (PFBS)		
		6915	Perfluorobutanoic acid (PFBA)		
		9562	Perfluorodecane Sulfonate (PFDS)		
		6920	Perfluorodecane sulfonic acid (PFDS)		
		6905	Perfluorodecanoic acid (PFDA)		
		6923	Perfluorododecane sulfonic acid (PFDoS)		
		6903	Perfluorododecanoic acid (PFDoA)		
		9470	Perfluoroheptane sulfonic acid (PFHpS)		
		6908	Perfluoroheptanoic acid (PFHpA)		
		6901	Perfluorohexadecanoic acid (PFHxDA)		
		6910	Perfluorohexane sulfonate (PFHxS)		
		6927	Perfluorohexane sulfonic acid (PFHxS)		
		6913	Perfluorohexanoic acid (PFHxA)		
		6929	Perfluorononane sulfonic acid (PFNS)		
		6906	Perfluorononanoic acid (PFNA)		
		6916	Perfluorooctadecanoic acid (PFODA)		
		6917	Perfluorooctane sulfonamide (PFOSAm)		
		6909	Perfluorooctane sulfonate (PFOS)		
		6931	Perfluorooctane sulfonic acid (PFOS)		
		6912	Perfluorooctanoic acid (PFOA)		
		6934	Perfluoropentane sulfonic acid (PFPeS)		
		6914	Perfluoropentanoic acid (PFPeA)		
		6902	Perfluorotetradecanoic acid (PFTDA)		
		9563	Perfluorotridecanoic acid (PFTrDA)		
		6904	Perfluoroundecanoic acid (PFUnA)		
	DV-LC-0020 3			60036013	TestAmerica Denver - Disodium Iminodiacetate (IDA) by

TestAmerica Denver

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
					LC/MS/MS (modified EPA 8321A)
		6119	Disodium Inimodiacetate		
	EPA 1010			10116606	Pensky-Martens Closed-Cup Method for Determining Ignitability
		1780	Ignitability		
	EPA 1010A			10234807	Pensky-Martens Closed-Cup Method for Determining Ignitability
		1780	Ignitability		
	EPA 1311			10118806	Toxicity Characteristic Leaching Procedure
		1466	Toxicity Characteristic Leaching Procedure (TCLP)		
	EPA 1312			10119003	Synthetic Precipitation Leaching Procedure
		1460	Synthetic Precipitation Leaching Procedure (SPLP)		
	EPA 160.4			10010409	Total Volatile Solids, ignition @ 550 C.
		2070	Volatile suspended solids		
	EPA 1664A (HEM)			10127807	N-Hexane Extractable Material (Oil and Grease) by Extraction and Gravimetry
		1803	n-Hexane Extractable Material (O&G)		
		1860	Oil & Grease		
	EPA 1664A (SGT-HEM)			10261606	Silica Gen Treated N-Hexane Extractable Material (Oil and Grease)
		2050	Total Petroleum Hydrocarbons (TPH)		
	EPA 1664B			10261617	N-Hexane Extractable Material (Oil and Grease) by Extraction and Gravimetry
		1803	n-Hexane Extractable Material (O&G)		
		1860	Oil & Grease		
	EPA 1664B (SGT-HEM)			10260628	Silica Gel Treated n-Hexane Extractable Material (Oil & Grease)
		2050	Total Petroleum Hydrocarbons (TPH)		
	EPA 180.1 2			10011800	Turbidity - Nephelometric
		2055	Turbidity		
	EPA 200.7 4.4			10013806	ICP - metals
		1000	Aluminum		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1025	Boron		
		1030	Cadmium		
		1035	Calcium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1760	Hardness (calc.)		
		1070	Iron		
		1075	Lead		
		1080	Lithium		
		1085	Magnesium		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1910	Phosphorus, total		
		1125	Potassium		
		1140	Selenium		
		1990	Silica as SiO2		
		1145	Silicon		
		1150	Silver		
		1155	Sodium		
		1160	Strontium		
		2017	Sulfur		
		1165	Thallium		
		1175	Tin		
		1180	Titanium		
		1185	Vanadium		
		1190	Zinc		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
	EPA 200.8 5.4			10014605	Metals by ICP-MS
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1030	Cadmium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1075	Lead		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1140	Selenium		
		1150	Silver		
		1165	Thallium		
		1170	Thorium		
		1175	Tin		
		1184	Uranium (mass)		
		1185	Vanadium		
		1190	Zinc		
	EPA 245.1 3			10036609	Mercury by Cold Vapor Atomic Absorption
		1095	Mercury		
	EPA 300.0 2.1			10053200	Methods for the Determination of Inorganic Substances in Environmental Samples
		1540	Bromide		
		1575	Chloride		
		1730	Fluoride		
		1810	Nitrate as N		
		1820	Nitrate plus Nitrite as N		
		1840	Nitrite as N		
		1870	Orthophosphate as P		

TestAmerica Denver

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		2000	Sulfate		
	EPA 3005A			10133207	Acid Digestion of waters for Total Recoverable or Dissolved Metals
		1438	Preconcentration under Acid		
	EPA 3010A			10133605	Acid Digestion of Aqueous samples and Extracts for Total Metals
		1401	Acid Digestion of Aqueous samples and Extracts for Total Metals		
	EPA 3020A			10134404	Acid Digestion of Aqueous samples and Extracts for Total Metals for Analysis by GFAA
		1401	Acid Digestion of Aqueous samples and Extracts for Total Metals		
	EPA 335.1			10060001	Cyanides, amenable to chlorination
		1510	Amenable cyanide		
	EPA 335.4 1.0			10061402	Methods for the Determination of Inorganic Substances in Environmental Samples
		1645	Total cyanide		
	EPA 350.1 2			10063602	Ammonia Nitrogen - Colorimetric, Auto Phenate
		1515	Ammonia as N		
	EPA 351.2 2			10065404	Total Kjeldahl Nitrogen - Block Digest, Phenate
		1795	Total Kjeldahl Nitrogen (TKN)		
	EPA 351.2 minus EPA 350.1			10238207	Organic Nitrogen by Automated Phenate (Calculated)
		1865	Organic nitrogen		
	EPA 3510C			10138202	Separatory Funnel Liquid-liquid extraction
		1444	Seperatory Funnel Liquid-Liquid Extraction		
	EPA 3520C			10139001	Continuous Liquid-liquid extraction
		1410	Continuous Liquid-Liquid Extraction		
	EPA 353.2 2			10067604	Nitrate/Nitrite Nitrogen - Automated, Cadmium
		1810	Nitrate as N		
		1820	Nitrate plus Nitrite as N		
		1840	Nitrite as N		
		1825	Total nitrate+nitrite		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
	EPA 3535			10139205	Solid-Phase Extraction (SPE)
		1448	Solid-Phase Extraction		
	EPA 3535A			10139409	Solid-Phase Extraction (SPE)
		1448	Solid-Phase Extraction		
	EPA 3580A			10143007	Waste Dilution
		1470	Waste Dilution		
	EPA 3620B			10145809	Florisil Cleanup
		1414	Florisil Clean-up		
	EPA 3620C			10146006	Florisil Cleanup
		1414	Florisil Clean-up		
	EPA 365.1 2			10070005	Phosphorous - Colorimetric, Automated persulfate
		1870	Orthophosphate as P		
		1910	Phosphorus, total		
	EPA 3660B			10148400	Sulfur cleanup
		1456	Sulfur Clean-up		
	EPA 3665A			10148808	Sulfuric Acid / permanganate Cleanup
		1458	Sulfuric Acid / Permanganate Clean-Up		
	EPA 410.4 2			10077404	Chemical Oxygen Demand - Colorimetric, Automated.
		1565	Chemical oxygen demand		
	EPA 420.1			10079400	Phenolics - Spectrophotometric, manual.
		1905	Total phenolics		
	EPA 420.4			10080203	Phenolics, Total Recoverable by Semi-Automated Colorimetry
		1905	Total phenolics		
	EPA 5030B			10153409	Purge and trap for aqueous samples
		1406	Aqueous-phase Purge & Trap		
	EPA 5030C			10284603	Purge-and-Trap for Aqueous Samples
		1406	Aqueous-phase Purge & Trap		
	EPA 524.2			10088605	Volatile Organic Compounds GC/MS Capillary Column
		5105	1,1,1,2-Tetrachloroethane		
		5160	1,1,1-Trichloroethane		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5110	1,1,2,2-Tetrachloroethane		
		5165	1,1,2-Trichloroethane		
		4630	1,1-Dichloroethane		
		4640	1,1-Dichloroethylene		
		4670	1,1-Dichloropropene		
		5150	1,2,3-Trichlorobenzene		
		5180	1,2,3-Trichloropropane		
		5155	1,2,4-Trichlorobenzene		
		5210	1,2,4-Trimethylbenzene		
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4610	1,2-Dichlorobenzene		
		4655	1,2-Dichloropropane		
		5215	1,3,5-Trimethylbenzene		
		4615	1,3-Dichlorobenzene		
		4660	1,3-Dichloropropane		
		4620	1,4-Dichlorobenzene		
		4665	2,2-Dichloropropane		
		4410	2-Butanone (Methyl ethyl ketone, MEK)		
		4535	2-Chlorotoluene		
		4860	2-Hexanone (MBK)		
		4540	4-Chlorotoluene		
		4910	4-Isopropyltoluene (p-Cymene)		
		4995	4-Methyl-2-pentanone (MIBK)		
		4315	Acetone		
		4375	Benzene		
		4385	Bromobenzene		
		4390	Bromochloromethane		
		4395	Bromodichloromethane		
		4400	Bromoform		
		4450	Carbon disulfide		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4455	Carbon tetrachloride		
		4475	Chlorobenzene		
		4575	Chlorodibromomethane		
		4485	Chloroethane (Ethyl chloride)		
		4505	Chloroform		
		4645	cis-1,2-Dichloroethylene		
		4680	cis-1,3-Dichloropropene		
		4595	Dibromomethane (Methylene bromide)		
		4625	Dichlorodifluoromethane (Freon-12)		
		4765	Ethylbenzene		
		4835	Hexachlorobutadiene		
		4900	Isopropylbenzene (Cumene)		
		4950	Methyl bromide (Bromomethane)		
		4960	Methyl chloride (Chloromethane)		
		5000	Methyl tert-butyl ether (MTBE)		
		4975	Methylene chloride (Dichloromethane)		
		5005	Naphthalene		
		4435	n-Butylbenzene		
		5090	n-Propylbenzene		
		4440	sec-Butylbenzene		
		5100	Styrene		
		4445	tert-Butylbenzene		
		5115	Tetrachloroethylene (Perchloroethylene)		
		5140	Toluene		
		4700	trans-1,2-Dichloroethylene		
		4685	trans-1,3-Dichloropropylene		
		5170	Trichloroethene (Trichloroethylene)		
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
		5235	Vinyl chloride		
		5260	Xylene (total)		
	EPA 6010B			10155609	ICP - AES

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1023	Bismuth		
		1025	Boron		
		1030	Cadmium		
		1035	Calcium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1070	Iron		
		1075	Lead		
		1080	Lithium		
		1085	Magnesium		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1910	Phosphorus, total		
		1125	Potassium		
		1140	Selenium		
		1990	Silica as SiO2		
		1145	Silicon		
		1150	Silver		
		1155	Sodium		
		1160	Strontium		
		2017	Sulfur		
		1165	Thallium		
		1175	Tin		
		1180	Titanium		
		1185	Vanadium		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1190	Zinc		
	EPA 6010C			10155803	ICP - AES
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1025	Boron		
		1030	Cadmium		
		1035	Calcium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1070	Iron		
		1075	Lead		
		1080	Lithium		
		1085	Magnesium		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1910	Phosphorus, total		
		1125	Potassium		
		1140	Selenium		
		1990	Silica as SiO2		
		1145	Silicon		
		1150	Silver		
		1155	Sodium		
		1160	Strontium		
		2017	Sulfur		
		1165	Thallium		
		1175	Tin		
		1180	Titanium		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1185	Vanadium		
		1190	Zinc		
	EPA 6010D 4			10155916	Metals by ICP - AES
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1023	Bismuth		
		1025	Boron		
		1030	Cadmium		
		1035	Calcium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1070	Iron		
		1075	Lead		
		1080	Lithium		
		1085	Magnesium		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1910	Phosphorus, total		
		1125	Potassium		
		1140	Selenium		
		1990	Silica as SiO2		
		1145	Silicon		
		1150	Silver		
		1155	Sodium		
		1160	Strontium		
		2017	Sulfur		
		1165	Thallium		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1175	Tin		
		1180	Titanium		
		1185	Vanadium		
		1190	Zinc		
	EPA 6020			10156000	Inductively Coupled Plasma-Mass Spectrometry
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1030	Cadmium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1075	Lead		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1140	Selenium		
		1150	Silver		
		1160	Strontium		
		1165	Thallium		
		1170	Thorium		
		1175	Tin		
		1184	Uranium (mass)		
		1185	Vanadium		
		1190	Zinc		
	EPA 6020A 1			10156419	Inductively Coupled Plasma -Mass Spectrometry
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1020	Beryllium		
		1030	Cadmium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1075	Lead		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1140	Selenium		
		1150	Silver		
		1160	Strontium		
		1160	Strontium		
		1165	Thallium		
		1170	Thorium		
		1175	Tin		
		1184	Uranium (mass)		
		1185	Vanadium		
		1190	Zinc		
	EPA 6020B 2			10156420	Inductively Coupled Plasma-Mass Spectrometry
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1030	Cadmium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1075	Lead		
		1090	Manganese		
		1100	Molybdenum		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1105	Nickel		
		1140	Selenium		
		1150	Silver		
		1160	Strontium		
		1165	Thallium		
		1170	Thorium		
		1175	Tin		
		1183	Tungsten		
		1184	Uranium (mass)		
		1185	Vanadium		
		1190	Zinc		
	EPA 608			10103603	Organochlorine Pesticides & PCBs by GC/ECD
		8900	Aroclor-1248 (PCB-1248)		
		8905	Aroclor-1254 (PCB-1254)		
		8910	Aroclor-1260 (PCB-1260)		
		8912	Aroclor-1262 (PCB-1262)		
		8913	Aroclor-1268 (PCB-1268)		
		7115	beta-BHC (beta-Hexachlorocyclohexane)		
		7250	Chlordane (tech.)		
		7105	delta-BHC		
		7470	Dieldrin		
		7510	Endosulfan I		
		7515	Endosulfan II		
		7520	Endosulfan sulfate		
		7540	Endrin		
		7530	Endrin aldehyde		
		7535	Endrin ketone		
		7120	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)		
		7245	gamma-Chlordane		
		7685	Heptachlor		
		7690	Heptachlor epoxide		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7810	Methoxychlor		
	EPA 608.3 GC-ECD			10296614	Organochlorine Pesticides and PCBs by GC/ECD
		7355	4,4'-DDD		
		7360	4,4'-DDE		
		7365	4,4'-DDT		
		7025	Aldrin		
		7110	alpha-BHC (alpha-Hexachlorocyclohexane)		
		8880	Aroclor-1016 (PCB-1016)		
		8885	Aroclor-1221 (PCB-1221)		
		8890	Aroclor-1232 (PCB-1232)		
		8895	Aroclor-1242 (PCB-1242)		
		8900	Aroclor-1248 (PCB-1248)		
		8905	Aroclor-1254 (PCB-1254)		
		8910	Aroclor-1260 (PCB-1260)		
		8912	Aroclor-1262 (PCB-1262)		
		8913	Aroclor-1268 (PCB-1268)		
		7115	beta-BHC (beta-Hexachlorocyclohexane)		
		7250	Chlordane (tech.)		
		7240	cis-chlordane (alpha-Chlordane)		
		7105	delta-BHC		
		7470	Dieldrin		
		7510	Endosulfan I		
		7515	Endosulfan II		
		7520	Endosulfan sulfate		
		7540	Endrin		
		7530	Endrin aldehyde		
		7535	Endrin ketone		
		7120	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)		
		7245	gamma-Chlordane		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7685	Heptachlor		
		7690	Heptachlor epoxide		
		7810	Methoxychlor		
		8250	Toxaphene (Chlorinated camphene)		
	EPA 614			10105201	Organophosphorous Pesticides by Liquid/Liquid Extraction and GC/NPD
		7075	Azinphos-methyl (Guthion)		
		7390	Demeton		
		7395	Demeton-o		
		7385	Demeton-s		
		7410	Diazinon		
		8625	Disulfoton		
		7770	Malathion		
		7825	Methyl parathion (Parathion, methyl)		
		7955	Parathion, ethyl		
	EPA 624.1			10298121	Purgeables by GC/MS
		5105	1,1,1,2-Tetrachloroethane		
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5165	1,1,2-Trichloroethane		
		4630	1,1-Dichloroethane		
		4640	1,1-Dichloroethylene		
		5180	1,2,3-Trichloropropane		
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4610	1,2-Dichlorobenzene		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		4655	1,2-Dichloropropane		
		4615	1,3-Dichlorobenzene		
		4620	1,4-Dichlorobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4410	2-Butanone (Methyl ethyl ketone, MEK)		
		4500	2-Chloroethyl vinyl ether		
		4860	2-Hexanone (MBK)		
		4995	4-Methyl-2-pentanone (MIBK)		
		4315	Acetone		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		4375	Benzene		
		4395	Bromodichloromethane		
		4400	Bromoform		
		4450	Carbon disulfide		
		4455	Carbon tetrachloride		
		4475	Chlorobenzene		
		4575	Chlorodibromomethane		
		4485	Chloroethane (Ethyl chloride)		
		4505	Chloroform		
		4645	cis-1,2-Dichloroethylene		
		4680	cis-1,3-Dichloropropene		
		4595	Dibromomethane (Methylene bromide)		
		4625	Dichlorodifluoromethane (Freon-12)		
		4765	Ethylbenzene		
		5240	m+p-xylene		
		4950	Methyl bromide (Bromomethane)		
		4960	Methyl chloride (Chloromethane)		
		5000	Methyl tert-butyl ether (MTBE)		
		4975	Methylene chloride (Dichloromethane)		
		5005	Naphthalene		
		4855	n-Hexane		
		5250	o-Xylene		
		5100	Styrene		
		5115	Tetrachloroethylene (Perchloroethylene)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5140	Toluene		
		5205	Total trihalomethanes		
		4700	trans-1,2-Dichloroethylene		
		4685	trans-1,3-Dichloropropylene		
		5170	Trichloroethene (Trichloroethylene)		
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
		5225	Vinyl acetate		
		5235	Vinyl chloride		
		5260	Xylene (total)		
	EPA 625.1			10300024	Base/Neutrals and Acids by GC/MS
		6715	1,2,4,5-Tetrachlorobenzene		
		5155	1,2,4-Trichlorobenzene		
		4610	1,2-Dichlorobenzene		
		6220	1,2-Diphenylhydrazine		
		4615	1,3-Dichlorobenzene		
		4620	1,4-Dichlorobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether		
		6835	2,4,5-Trichlorophenol		
		6840	2,4,6-Trichlorophenol		
		5880	2,4-Diaminotoluene		
		6000	2,4-Dichlorophenol		
		6130	2,4-Dimethylphenol		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6183	2,6-Diaminotoluene		
		6005	2,6-Dichlorophenol		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		5795	2-Chloronaphthalene		
		5800	2-Chlorophenol		
		6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
			2-methylphenol)		
		6400	2-Methylphenol (o-Cresol)		
		6490	2-Nitrophenol		
		6412	3 & 4 Methylphenol		
		5945	3,3'-Dichlorobenzidine		
		5660	4-Bromophenyl phenyl ether (BDE-3)		
		5700	4-Chloro-3-methylphenol		
		5825	4-Chlorophenyl phenylether		
		6410	4-Methylphenol (p-Cresol)		
		6500	4-Nitrophenol		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5510	Acetophenone		
		4330	Acrylamide		
		6700	alpha-Terpineol		
		5545	Aniline		
		5555	Anthracene		
		5562	Azobenzene		
		5565	Benzal chloride		
		5595	Benzidine		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5610	Benzoic acid		
		5760	bis(2-Chloroethoxy)methane		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		5680	Carbazole		
		7210	Carbofuran phenol		
		5855	Chrysene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		9354	Dibenz(a, h) acridine		
		5895	Dibenz(a,h) anthracene		
		6070	Diethyl phthalate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		4835	Hexachlorobutadiene		
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6315	Indeno(1,2,3-cd) pyrene		
		6320	Isophorone		
		5005	Naphthalene		
		5875	n-Decane		
		5015	Nitrobenzene		
		6530	n-Nitrosodimethylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6580	n-Octadecane		
		6590	Pentachlorobenzene		
		6605	Pentachlorophenol		
		6615	Phenanthrene		
		6625	Phenol		
		6640	Phthalic anhydride		
		6665	Pyrene		
		5095	Pyridine		
		5200	Triethylamine		
	EPA 6860			10304800	Perchlorate in Water, Soils and Solid Wastes Using Ion Chromatography/Electrospray Ionization/Mass Spectrometry

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1895	Perchlorate		
	EPA 7196A Update I			10162400	Chromium Hexavalent colorimetric
		1045	Chromium VI		
	EPA 7470A			10165807	Mercury in Liquid Waste by Cold Vapor Atomic Absorption
		1095	Mercury		
	EPA 8011			10173009	1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and GC/ECD
		5180	1,2,3-Trichloropropane		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4580	Dibromochloropropane		
	EPA 8015B			10173601	Non-halogenated organics using GC/FID
		9369	Diesel range organics (DRO)		
		9408	Gasoline range organics (GRO)		
		9488	Jet Fuel		
		9499	Motor Oil		
	EPA 8015C			10173805	Non-halogenated organics using GC/FID
		9369	Diesel range organics (DRO)		
		9408	Gasoline range organics (GRO)		
		9488	Jet Fuel		
		9499	Motor Oil		
	EPA 8015D			10305609	Nonhalogenated Organics Using GC/FID
		9369	Diesel range organics (DRO)		
		9408	Gasoline range organics (GRO)		
		9488	Jet Fuel		
		9499	Motor Oil		
	EPA 8081A			10178606	Organochlorine Pesticides by GC/ECD
		8580	2,4'-DDD		
		8585	2,4'-DDE		
		8590	2,4'-DDT		
		7355	4,4'-DDD		
		7360	4,4'-DDE		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7365	4,4'-DDT		
		7025	Aldrin		
		7110	alpha-BHC (alpha-Hexachlorocyclohexane)		
		7115	beta-BHC (beta-Hexachlorocyclohexane)		
		7250	Chlordane (tech.)		
		7260	Chlorobenzilate		
		7300	Chlorpyrifos		
		7240	cis-chlordane (alpha-Chlordane)		
		7105	delta-BHC		
		7405	Diallate		
		7460	Dicofol		
		7470	Dieldrin		
		7510	Endosulfan I		
		7515	Endosulfan II		
		7520	Endosulfan sulfate		
		7540	Endrin		
		7530	Endrin aldehyde		
		7535	Endrin ketone		
		7120	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)		
		7245	gamma-Chlordane		
		7685	Heptachlor		
		7690	Heptachlor epoxide		
		6275	Hexachlorobenzene		
		6280	Hexachlorocyclohexanes		
		7725	Isodrin		
		7740	Kepone		
		7810	Methoxychlor		
		7870	Mirex		
		8045	Propachlor (Ramrod)		
		8250	Toxaphene (Chlorinated camphene)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
	EPA 8081B			10178800	Organochlorine Pesticides by GC/ECD
		8580	2,4'-DDD		
		8585	2,4'-DDE		
		8590	2,4'-DDT		
		7355	4,4'-DDD		
		7360	4,4'-DDE		
		7365	4,4'-DDT		
		7025	Aldrin		
		7110	alpha-BHC (alpha-Hexachlorocyclohexane)		
		7115	beta-BHC (beta-Hexachlorocyclohexane)		
		7250	Chlordane (tech.)		
		7260	Chlorobenzilate		
		7300	Chlorpyrifos		
		7240	cis-chlordane (alpha-Chlordane)		
		7105	delta-BHC		
		7405	Diallate		
		7460	Dicofol		
		7470	Dieldrin		
		7510	Endosulfan I		
		7515	Endosulfan II		
		7520	Endosulfan sulfate		
		7540	Endrin		
		7530	Endrin aldehyde		
		7535	Endrin ketone		
		7120	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)		
		7245	gamma-Chlordane		
		7685	Heptachlor		
		7690	Heptachlor epoxide		
		6275	Hexachlorobenzene		
		6280	Hexachlorocyclohexanes		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7725	Isodrin		
		7740	Kepone		
		7810	Methoxychlor		
		7870	Mirex		
		8045	Propachlor (Ramrod)		
		8250	Toxaphene (Chlorinated camphene)		
	EPA 8082			10179007	Polychlorinated Biphenyls (PCBs) by GC/ECD
		8880	Aroclor-1016 (PCB-1016)		
		8885	Aroclor-1221 (PCB-1221)		
		8890	Aroclor-1232 (PCB-1232)		
		8895	Aroclor-1242 (PCB-1242)		
		8900	Aroclor-1248 (PCB-1248)		
		8905	Aroclor-1254 (PCB-1254)		
		8910	Aroclor-1260 (PCB-1260)		
		8912	Aroclor-1262 (PCB-1262)		
		8913	Aroclor-1268 (PCB-1268)		
	EPA 8082A			10179201	Polychlorinated Biphenyls (PCBs) by GC/ECD
		8880	Aroclor-1016 (PCB-1016)		
		8885	Aroclor-1221 (PCB-1221)		
		8890	Aroclor-1232 (PCB-1232)		
		8895	Aroclor-1242 (PCB-1242)		
		8900	Aroclor-1248 (PCB-1248)		
		8905	Aroclor-1254 (PCB-1254)		
		8910	Aroclor-1260 (PCB-1260)		
		8912	Aroclor-1262 (PCB-1262)		
		8913	Aroclor-1268 (PCB-1268)		
		8896	Total Pentachlorobiphenyls		
	EPA 8141A			10182000	Organophosphorous Pesticides by GC/NPD
		7045	Anilazine		
		7065	Atrazine		
		7070	Azinphos-ethyl (Ethyl guthion)		
		7075	Azinphos-methyl (Guthion)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7125	Bolstar (Sulprofos)		
		7220	Carbophenothion		
		7300	Chlorpyrifos		
		7315	Coumaphos		
		7390	Demeton		
		7395	Demeton-o		
		7385	Demeton-s		
		7410	Diazinon		
		8610	Dichlorovos (DDVP, Dichlorvos)		
		7475	Dimethoate		
		8625	Disulfoton		
		7550	EPN		
		7570	Ethoprop		
		7580	Famphur		
		7600	Fensulfothion		
		7605	Fenthion		
		7770	Malathion		
		7785	Merphos		
		7825	Methyl parathion (Parathion, methyl)		
		7850	Mevinphos		
		7905	Naled		
		8290	o,o,o-Triethyl phosphorothioate		
		7955	Parathion, ethyl		
		7985	Phorate		
		8000	Phosmet (Imidan)		
		8060	Propazine		
		8110	Ronnel		
		8125	Simazine		
		8155	Sulfotepp		
		8200	Tetrachlorvinphos (Stirophos, Gardona) Z-isomer		
		8235	Thionazin (Zinophos)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		8245	Tokuthion (Prothiophos)		
		8275	Trichloronate		
	EPA 8141B			10182204	Organophosphorous Pesticides by GC/NPD
		7045	Anilazine		
		7065	Atrazine		
		7070	Azinphos-ethyl (Ethyl guthion)		
		7075	Azinphos-methyl (Guthion)		
		7125	Bolstar (Sulprofos)		
		7220	Carbophenothion		
		7300	Chlorpyrifos		
		7315	Coumaphos		
		7390	Demeton		
		7395	Demeton-o		
		7385	Demeton-s		
		7410	Diazinon		
		8610	Dichlorovos (DDVP, Dichlorvos)		
		7475	Dimethoate		
		8625	Disulfoton		
		7550	EPN		
		7570	Ethoprop		
		7580	Famphur		
		7600	Fensulfothion		
		7605	Fenthion		
		7770	Malathion		
		7785	Merphos		
		7825	Methyl parathion (Parathion, methyl)		
		7850	Mevinphos		
		7905	Naled		
		7955	Parathion, ethyl		
		7985	Phorate		
		8000	Phosmet (Imidan)		
		8110	Ronnel		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		8125	Simazine		
		8155	Sulfotepp		
		8200	Tetrachlorvinphos (Stirophos, Gardona) Z-isomer		
		8235	Thionazin (Zinophos)		
		8245	Tokuthion (Prothiophos)		
		8275	Trichloronate		
	EPA 8151A			10183207	Chlorinated Herbicides by GC/ECD
		8655	2,4,5-T		
		8545	2,4-D		
		8560	2,4-DB		
		8555	Dalapon		
		8595	Dicamba		
		8605	Dichloroprop (Dichlorprop)		
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		7775	MCPA		
		7780	MCPP		
		6605	Pentachlorophenol		
		8645	Picloram		
		8650	Silvex (2,4,5-TP)		
	EPA 8260B			10184802	Volatile Organic Compounds by purge and trap GC/MS
		5105	1,1,1,2-Tetrachloroethane		
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5195	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		
		5165	1,1,2-Trichloroethane		
		5167	1,1,2-Trichlorofluoroethane		
		5172	1,1,2-Trifluoroethane		
		5171	1,1-Dichloro-1-fluoroethane		
		4630	1,1-Dichloroethane		
		4640	1,1-Dichloroethylene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4670	1,1-Dichloropropene		
		5150	1,2,3-Trichlorobenzene		
		5180	1,2,3-Trichloropropane		
		5182	1,2,3-Trimethylbenzene		
		5155	1,2,4-Trichlorobenzene		
		5210	1,2,4-Trimethylbenzene		
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4695	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon-114)		
		4697	1,2-Dichloro-1,1,2-trifluoroethane		
		4610	1,2-Dichlorobenzene		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		4655	1,2-Dichloropropane		
		6800	1,3,5-Trichlorobenzene		
		5215	1,3,5-Trimethylbenzene		
		4615	1,3-Dichlorobenzene		
		4660	1,3-Dichloropropane		
		4675	1,3-Dichloropropene		
		4620	1,4-Dichlorobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4919	1-Chloro-1,1-difluoroethane		
		4510	1-Chlorohexane		
		5222	2,2-Dichloro-1,1,1-trifluoroethane (Freon 123)		
		4665	2,2-Dichloropropane		
		4410	2-Butanone (Methyl ethyl ketone, MEK)		
		4411	2-Chloro-1,1,1-trifluoroethane		
		4500	2-Chloroethyl vinyl ether		
		4535	2-Chlorotoluene		
		4860	2-Hexanone (MBK)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5020	2-Nitropropane		
		5045	2-Pentanone		
		4540	4-Chlorotoluene		
		4910	4-Isopropyltoluene (p-Cymene)		
		4995	4-Methyl-2-pentanone (MIBK)		
		4315	Acetone		
		4320	Acetonitrile		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		4355	Allyl chloride (3-Chloropropene)		
		4375	Benzene		
		4385	Bromobenzene		
		4390	Bromochloromethane		
		4395	Bromodichloromethane		
		4400	Bromoform		
		4450	Carbon disulfide		
		4455	Carbon tetrachloride		
		4475	Chlorobenzene		
		4575	Chlorodibromomethane		
		4577	Chlorodifluoromethane (Freon-22)		
		4485	Chloroethane (Ethyl chloride)		
		4486	Chlorofluoromethane		
		4505	Chloroform		
		4522	Chloropentafluoroethane		
		4525	Chloroprene (2-Chloro-1,3-butadiene)		
		4526	Chlorotrifluoroethene		
		4705	cis & trans-1,2-Dichloroethene		
		4645	cis-1,2-Dichloroethylene		
		4680	cis-1,3-Dichloropropene		
		4600	cis-1,4-Dichloro-2-butene		
		4555	Cyclohexane		
		4560	Cyclohexanone		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4595	Dibromomethane (Methylene bromide)		
		4625	Dichlorodifluoromethane (Freon-12)		
		4627	Dichlorofluoromethane (Freon 21)		
		4725	Diethyl ether		
		9375	Di-isopropylether (DIPE)		
		4750	Ethanol		
		4755	Ethyl acetate		
		4760	Ethyl acrylate		
		4810	Ethyl methacrylate		
		4765	Ethylbenzene		
		4795	Ethylene oxide		
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)		
		4771	Fluorobenzene		
		4772	Fluoromethane (Freon 41)		
		4835	Hexachlorobutadiene		
		4870	Iodomethane (Methyl iodide)		
		4875	Isobutyl alcohol (2-Methyl-1-propanol)		
		4895	Isopropyl alcohol (2-Propanol, Isopropanol)		
		4900	Isopropylbenzene (Cumene)		
		5240	m+p-xylene		
		4925	Methacrylonitrile		
		4940	Methyl acetate		
		4950	Methyl bromide (Bromomethane)		
		4960	Methyl chloride (Chloromethane)		
		4990	Methyl methacrylate		
		5000	Methyl tert-butyl ether (MTBE)		
		4965	Methylcyclohexane		
		4975	Methylene chloride (Dichloromethane)		
		5245	m-Xylene		
		5005	Naphthalene		
		4425	n-Butyl alcohol (1-Butanol, n-Butanol)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4435	n-Butylbenzene		
		4825	n-Heptane		
		4855	n-Hexane		
		6575	Nonanal		
		5090	n-Propylbenzene		
		5250	o-Xylene		
		5035	Pentachloroethane		
		5080	Propionitrile (Ethyl cyanide)		
		9579	Propylene oxide		
		5255	p-Xylene		
		9607	sec-Butyl Alcohol (2-Butanol)		
		4440	sec-Butylbenzene		
		5100	Styrene		
		4370	T-amylmethylether (TAME)		
		4420	tert-Butyl alcohol		
		4445	tert-Butylbenzene		
		5115	Tetrachloroethylene (Perchloroethylene)		
		5120	Tetrahydrofuran (THF)		
		9574	Tetrahydrothiophene		
		5140	Toluene		
		4027	Total BTEX		
		5205	Total trihalomethanes		
		4700	trans-1,2-Dichloroethylene		
		4685	trans-1,3-Dichloropropylene		
		4605	trans-1,4-Dichloro-2-butene		
		5170	Trichloroethene (Trichloroethylene)		
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
		5225	Vinyl acetate		
		5235	Vinyl chloride		
		5237	Vinyl Fluoride		
		5260	Xylene (total)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
	EPA 8260B SIM			10184904	Volatile Organic Compounds by purge and trap GC/MS-SIM
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5165	1,1,2-Trichloroethane		
		5180	1,2,3-Trichloropropane		
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		9318	1,3-Butadiene		
		4675	1,3-Dichloropropene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		4375	Benzene		
		4395	Bromodichloromethane		
		4575	Chlorodibromomethane		
		4505	Chloroform		
		4680	cis-1,3-Dichloropropene		
		4835	Hexachlorobutadiene		
		4925	Methacrylonitrile		
		4420	tert-Butyl alcohol		
		4685	trans-1,3-Dichloropropylene		
		5235	Vinyl chloride		
	EPA 8260C			10307003	Volatile Organics: GC/MS (capillary column)
		5105	1,1,1,2-Tetrachloroethane		
		5195	1,1,1-Trichloro-2,2,2-trifluoroethane (Freon 113a)		
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5165	1,1,2-Trichloroethane		
		5167	1,1,2-Trichlorofluoroethane		
		5172	1,1,2-Trifluoroethane		
		5171	1,1-Dichloro-1-fluoroethane		
		4630	1,1-Dichloroethane		
		4640	1,1-Dichloroethylene		
		4643	1,1-Dichloropropane		
		4670	1,1-Dichloropropene		
		5150	1,2,3-Trichlorobenzene		
		5180	1,2,3-Trichloropropane		
		5182	1,2,3-Trimethylbenzene		
		5155	1,2,4-Trichlorobenzene		
		5210	1,2,4-Trimethylbenzene		
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4695	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon-114)		
		4697	1,2-Dichloro-1,1,2-trifluoroethane		
		4610	1,2-Dichlorobenzene		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		4655	1,2-Dichloropropane		
		6800	1,3,5-Trichlorobenzene		
		5215	1,3,5-Trimethylbenzene		
		9318	1,3-Butadiene		
		4615	1,3-Dichlorobenzene		
		4660	1,3-Dichloropropane		
		4675	1,3-Dichloropropene		
		4620	1,4-Dichlorobenzene		
		4622	1,4-Difluorobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4919	1-Chloro-1,1-difluoroethane		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4510	1-Chlorohexane		
		5222	2,2-Dichloro-1,1,1-trifluoroethane (Freon 123)		
		4665	2,2-Dichloropropane		
		4410	2-Butanone (Methyl ethyl ketone, MEK)		
		4411	2-Chloro-1,1,1-trifluoroethane		
		4500	2-Chloroethyl vinyl ether		
		4535	2-Chlorotoluene		
		4860	2-Hexanone (MBK)		
		5020	2-Nitropropane		
		5045	2-Pentanone		
		4540	4-Chlorotoluene		
		4910	4-Isopropyltoluene (p-Cymene)		
		4995	4-Methyl-2-pentanone (MIBK)		
		4315	Acetone		
		4320	Acetonitrile		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		4355	Allyl chloride (3-Chloropropene)		
		4375	Benzene		
		5635	Benzyl chloride		
		4385	Bromobenzene		
		4390	Bromochloromethane		
		4395	Bromodichloromethane		
		4400	Bromoform		
		4403	Butyl acetate		
		4450	Carbon disulfide		
		4455	Carbon tetrachloride		
		4475	Chlorobenzene		
		4575	Chlorodibromomethane		
		4577	Chlorodifluoromethane (Freon-22)		
		4485	Chloroethane (Ethyl chloride)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4486	Chlorofluoromethane		
		4505	Chloroform		
		4522	Chloropentafluoroethane		
		4525	Chloroprene (2-Chloro-1,3-butadiene)		
		4526	Chlorotrifluoroethene		
		4705	cis & trans-1,2-Dichloroethene		
		4645	cis-1,2-Dichloroethylene		
		4680	cis-1,3-Dichloropropene		
		4600	cis-1,4-Dichloro-2-butene		
		4555	Cyclohexane		
		4560	Cyclohexanone		
		4595	Dibromomethane (Methylene bromide)		
		4625	Dichlorodifluoromethane (Freon-12)		
		4627	Dichlorofluoromethane (Freon 21)		
		4725	Diethyl ether		
		9375	Di-isopropylether (DIPE)		
		4729	Dimethyl disulfide		
		4750	Ethanol		
		4755	Ethyl acetate		
		4760	Ethyl acrylate		
		4810	Ethyl methacrylate		
		4765	Ethylbenzene		
		4795	Ethylene oxide		
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)		
		4771	Fluorobenzene		
		4772	Fluoromethane (Freon 41)		
		4835	Hexachlorobutadiene		
		4870	Iodomethane (Methyl iodide)		
		4875	Isobutyl alcohol (2-Methyl-1-propanol)		
		4895	Isopropyl alcohol (2-Propanol, Isopropanol)		
		4900	Isopropylbenzene (Cumene)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5240	m+p-xylene		
		4925	Methacrylonitrile		
		4940	Methyl acetate		
		4950	Methyl bromide (Bromomethane)		
		4960	Methyl chloride (Chloromethane)		
		4990	Methyl methacrylate		
		5000	Methyl tert-butyl ether (MTBE)		
		4965	Methylcyclohexane		
		4975	Methylene chloride (Dichloromethane)		
		5245	m-Xylene		
		5005	Naphthalene		
		4425	n-Butyl alcohol (1-Butanol, n-Butanol)		
		4435	n-Butylbenzene		
		4825	n-Heptane		
		4855	n-Hexane		
		6575	Nonanal		
		5090	n-Propylbenzene		
		5250	o-Xylene		
		5035	Pentachloroethane		
		5080	Propionitrile (Ethyl cyanide)		
		9579	Propylene oxide		
		5255	p-Xylene		
		9607	sec-Butyl Alcohol (2-Butanol)		
		4440	sec-Butylbenzene		
		5100	Styrene		
		4370	T-amylmethylether (TAME)		
		4420	tert-Butyl alcohol		
		4445	tert-Butylbenzene		
		5115	Tetrachloroethylene (Perchloroethylene)		
		5120	Tetrahydrofuran (THF)		
		9574	Tetrahydrothiophene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5140	Toluene		
		4027	Total BTEX		
		5205	Total trihalomethanes		
		4700	trans-1,2-Dichloroethylene		
		4685	trans-1,3-Dichloropropylene		
		4605	trans-1,4-Dichloro-2-butene		
		5170	Trichloroethene (Trichloroethylene)		
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
		5225	Vinyl acetate		
		5235	Vinyl chloride		
		5237	Vinyl Fluoride		
		5260	Xylene (total)		
	EPA 8260C SIM			10307105	Volatile Organic Compounds by GC/MS-SIM
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4675	1,3-Dichloropropene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		4375	Benzene		
		4395	Bromodichloromethane		
		4575	Chlorodibromomethane		
		4505	Chloroform		
		4835	Hexachlorobutadiene		
		4420	tert-Butyl alcohol		
		5235	Vinyl chloride		
	EPA 8260D			10307127	Volatile Organic Compounds By GC/MS
		5105	1,1,1,2-Tetrachloroethane		
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5185	1,1,2-Trichloro-1,2,2-trifluoroethane		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
			(Freon 113)		
		5165	1,1,2-Trichloroethane		
		4630	1,1-Dichloroethane		
		4640	1,1-Dichloroethylene		
		4670	1,1-Dichloropropene		
		5150	1,2,3-Trichlorobenzene		
		5180	1,2,3-Trichloropropane		
		5182	1,2,3-Trimethylbenzene		
		5155	1,2,4-Trichlorobenzene		
		5210	1,2,4-Trimethylbenzene		
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4695	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon-114)		
		4697	1,2-Dichloro-1,1,2-trifluoroethane		
		4610	1,2-Dichlorobenzene		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		4655	1,2-Dichloropropane		
		6800	1,3,5-Trichlorobenzene		
		5215	1,3,5-Trimethylbenzene		
		4615	1,3-Dichlorobenzene		
		4660	1,3-Dichloropropane		
		4675	1,3-Dichloropropene		
		4620	1,4-Dichlorobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4510	1-Chlorohexane		
		5222	2,2-Dichloro-1,1,1-trifluoroethane (Freon 123)		
		4665	2,2-Dichloropropane		
		4410	2-Butanone (Methyl ethyl ketone, MEK)		
		4411	2-Chloro-1,1,1-trifluoroethane		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4500	2-Chloroethyl vinyl ether		
		4535	2-Chlorotoluene		
		4860	2-Hexanone (MBK)		
		6385	2-Methylnaphthalene		
		5020	2-Nitropropane		
		5045	2-Pentanone		
		4540	4-Chlorotoluene		
		4910	4-Isopropyltoluene (p-Cymene)		
		4995	4-Methyl-2-pentanone (MIBK)		
		4315	Acetone		
		4320	Acetonitrile		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		4355	Allyl chloride (3-Chloropropene)		
		4375	Benzene		
		5635	Benzyl chloride		
		4385	Bromobenzene		
		4390	Bromochloromethane		
		4395	Bromodichloromethane		
		4400	Bromoform		
		4450	Carbon disulfide		
		4455	Carbon tetrachloride		
		4475	Chlorobenzene		
		4575	Chlorodibromomethane		
		4485	Chloroethane (Ethyl chloride)		
		4505	Chloroform		
		4525	Chloroprene (2-Chloro-1,3-butadiene)		
		4526	Chlorotrifluoroethene		
		4705	cis & trans-1,2-Dichloroethene		
		4645	cis-1,2-Dichloroethylene		
		4680	cis-1,3-Dichloropropene		
		4600	cis-1,4-Dichloro-2-butene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4555	Cyclohexane		
		4560	Cyclohexanone		
		4595	Dibromomethane (Methylene bromide)		
		4625	Dichlorodifluoromethane (Freon-12)		
		4627	Dichlorofluoromethane (Freon 21)		
		4725	Diethyl ether		
		9375	Di-isopropylether (DIPE)		
		4750	Ethanol		
		4755	Ethyl acetate		
		4760	Ethyl acrylate		
		4810	Ethyl methacrylate		
		4765	Ethylbenzene		
		4795	Ethylene oxide		
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)		
		4771	Fluorobenzene		
		4835	Hexachlorobutadiene		
		4870	Iodomethane (Methyl iodide)		
		4875	Isobutyl alcohol (2-Methyl-1-propanol)		
		4895	Isopropyl alcohol (2-Propanol, Isopropanol)		
		4900	Isopropylbenzene (Cumene)		
		5240	m+p-xylene		
		4925	Methacrylonitrile		
		4940	Methyl acetate		
		4950	Methyl bromide (Bromomethane)		
		4960	Methyl chloride (Chloromethane)		
		4990	Methyl methacrylate		
		5000	Methyl tert-butyl ether (MTBE)		
		4965	Methylcyclohexane		
		4975	Methylene chloride (Dichloromethane)		
		5005	Naphthalene		
		4425	n-Butyl alcohol (1-Butanol, n-Butanol)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4435	n-Butylbenzene		
		4825	n-Heptane		
		4855	n-Hexane		
		6575	Nonanal		
		5090	n-Propylbenzene		
		5250	o-Xylene		
		5035	Pentachloroethane		
		5080	Propionitrile (Ethyl cyanide)		
		9579	Propylene oxide		
		9607	sec-Butyl Alcohol (2-Butanol)		
		4440	sec-Butylbenzene		
		5100	Styrene		
		4370	T-amylmethylether (TAME)		
		4420	tert-Butyl alcohol		
		4445	tert-Butylbenzene		
		5115	Tetrachloroethylene (Perchloroethylene)		
		5120	Tetrahydrofuran (THF)		
		9574	Tetrahydrothiophene		
		5140	Toluene		
		4027	Total BTEX		
		5205	Total trihalomethanes		
		4700	trans-1,2-Dichloroethylene		
		4685	trans-1,3-Dichloropropylene		
		4605	trans-1,4-Dichloro-2-butene		
		5170	Trichloroethene (Trichloroethylene)		
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
		5225	Vinyl acetate		
		5235	Vinyl chloride		
		5260	Xylene (total)		
	EPA 8260D SIM			10307138	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry Selected Ion Monitoring (GC/MS SIM)

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4675	1,3-Dichloropropene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		4375	Benzene		
		4395	Bromodichloromethane		
		4575	Chlorodibromomethane		
		4505	Chloroform		
		4835	Hexachlorobutadiene		
		4420	tert-Butyl alcohol		
		5235	Vinyl chloride		
	EPA 8270C			10185805	Semivolatile Organic compounds by GC/MS
		6703	1,1'-Biphenyl (BZ-0)		
		6715	1,2,4,5-Tetrachlorobenzene		
		5155	1,2,4-Trichlorobenzene		
		4610	1,2-Dichlorobenzene		
		6220	1,2-Diphenylhydrazine		
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		4615	1,3-Dichlorobenzene		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4679	1,3-phenylenediamine		
		4620	1,4-Dichlorobenzene		
		6165	1,4-Dinitrobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6420	1,4-Naphthoquinone		
		6630	1,4-Phenylenediamine		
		5790	1-Chloronaphthalene		
		6380	1-Methylnaphthalene		
		6425	1-Naphthylamine		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether		
		6735	2,3,4,6-Tetrachlorophenol		
		6835	2,4,5-Trichlorophenol		
		6840	2,4,6-Trichlorophenol		
		6000	2,4-Dichlorophenol		
		6130	2,4-Dimethylphenol		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6005	2,6-Dichlorophenol		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		5515	2-Acetylaminofluorene		
		9322	2-Butoxyethanol		
		5795	2-Chloronaphthalene		
		5800	2-Chlorophenol		
		5866	2-Ethoxyethanol (cellosolve)		
		6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)		
		5145	2-Methylaniline (o-Toluidine)		
		6385	2-Methylnaphthalene		
		6400	2-Methylphenol (o-Cresol)		
		6430	2-Naphthylamine		
		6460	2-Nitroaniline		
		6490	2-Nitrophenol		
		5050	2-Picoline (2-Methylpyridine)		
		6412	3 & 4 Methylphenol		
		5945	3,3'-Dichlorobenzidine		
		6120	3,3'-Dimethylbenzidine		
		6398	3,5-Dimethylphenol		
		6355	3-Methylcholanthrene		
		6405	3-Methylphenol (m-Cresol)		
		6465	3-Nitroaniline		
		6365	4,4-Methylenebis(2-chloroaniline)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5540	4-Aminobiphenyl		
		5660	4-Bromophenyl phenyl ether (BDE-3)		
		5700	4-Chloro-3-methylphenol		
		5745	4-Chloroaniline		
		5825	4-Chlorophenyl phenylether		
		6105	4-Dimethyl aminoazobenzene		
		6410	4-Methylphenol (p-Cresol)		
		6470	4-Nitroaniline		
		6500	4-Nitrophenol		
		6510	4-Nitroquinoline 1-oxide		
		6570	5-Nitro-o-toluidine		
		6112	6-Methylchrysene		
		6115	7,12-Dimethylbenz(a) anthracene		
		6125	a-a-Dimethylphenethylamine		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5510	Acetophenone		
		4330	Acrylamide		
		7005	Alachlor		
		4357	alpha-Methylstyrene		
		6700	alpha-Terpineol		
		5545	Aniline		
		5555	Anthracene		
		5560	Aramite		
		7065	Atrazine		
		5562	Azobenzene		
		5570	Benzaldehyde		
		5567	Benzenethiol		
		5595	Benzidine		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5605	Benzo(e)pyrene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5610	Benzoic acid		
		5630	Benzyl alcohol		
		5760	bis(2-Chloroethoxy)methane		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		7180	Caprolactam		
		5680	Carbazole		
		7210	Carbofuran phenol		
		7260	Chlorobenzilate		
		5855	Chrysene		
		5862	Cresols, Total		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		7405	Diallate		
		9354	Dibenz(a, h) acridine		
		5900	Dibenz(a, j) acridine		
		5895	Dibenz(a,h) anthracene		
		5890	Dibenzo(a,e) pyrene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		7475	Dimethoate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		6205	Diphenylamine		
		8625	Disulfoton		
		4810	Ethyl methacrylate		
		6260	Ethyl methanesulfonate		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7580	Famphur		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		4835	Hexachlorobutadiene		
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6290	Hexachlorophene		
		6295	Hexachloropropene		
		6312	Indene		
		6315	Indeno(1,2,3-cd) pyrene		
		7725	Isodrin		
		6320	Isophorone		
		6325	Isosafrole		
		6345	Methapyrilene		
		6375	Methyl methanesulfonate		
		7825	Methyl parathion (Parathion, methyl)		
		5010	n, n-Dimethyl formamide		
		5005	Naphthalene		
		5875	n-Decane		
		6300	n-Hexadecane		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		
		6530	n-Nitrosodimethylamine		
		5025	n-Nitroso-di-n-butylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6550	n-Nitrosomethylethylamine		
		6555	n-Nitrosomorpholine		
		6560	n-Nitrosopiperidine		
		6565	n-Nitrosopyrrolidine		
		8290	o,o,o-Triethyl phosphorothioate		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5550	o-Anisidine		
		5553	Octachlorostyrene		
		7955	Parathion, ethyl		
		6590	Pentachlorobenzene		
		5035	Pentachloroethane		
		6600	Pentachloronitrobenzene		
		6605	Pentachlorophenol		
		6608	Perylene		
		6610	Phenacetin		
		6615	Phenanthrene		
		6625	Phenol		
		7985	Phorate		
		6635	Phthalic acid		
		6640	Phthalic anhydride		
		6650	Pronamide (Kerb)		
		6665	Pyrene		
		5095	Pyridine		
		6670	Quinoline		
		6685	Safrole		
		8155	Sulfotepp		
		8235	Thionazin (Zinophos)		
		8262	Tributyl phosphate		
		5200	Triethylamine		
		8310	tris-(2,3-Dibromopropyl) phosphate (tris-BP)		
	EPA 8270C SIM			10242407	Semivolatile Organic compounds by GC/MS Selective Ion Monitoring
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6380	1-Methylnaphthalene		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6190	2,6-Dinitrotoluene (2,6-DNT)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6385	2-Methylnaphthalene		
		5945	3,3'-Dichlorobenzidine		
		5745	4-Chloroaniline		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5555	Anthracene		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5605	Benzo(e)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		5855	Chrysene		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		5895	Dibenz(a,h) anthracene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6315	Indeno(1,2,3-cd) pyrene		
		5005	Naphthalene		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6530	n-Nitrosodimethylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6605	Pentachlorophenol		
		6615	Phenanthrene		
		6665	Pyrene		
	EPA 8270D			10186002	Semivolatile Organic compounds by GC/MS
		6703	1,1'-Biphenyl (BZ-0)		
		6715	1,2,4,5-Tetrachlorobenzene		
		5155	1,2,4-Trichlorobenzene		
		4610	1,2-Dichlorobenzene		
		6220	1,2-Diphenylhydrazine		
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		4615	1,3-Dichlorobenzene		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4679	1,3-phenylenediamine		
		4620	1,4-Dichlorobenzene		
		6165	1,4-Dinitrobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6420	1,4-Naphthoquinone		
		6630	1,4-Phenylenediamine		
		5790	1-Chloronaphthalene		
		6380	1-Methylnaphthalene		
		6425	1-Naphthylamine		
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether		
		6735	2,3,4,6-Tetrachlorophenol		
		6835	2,4,5-Trichlorophenol		
		6840	2,4,6-Trichlorophenol		
		6000	2,4-Dichlorophenol		
		6130	2,4-Dimethylphenol		
		6175	2,4-Dinitrophenol		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6005	2,6-Dichlorophenol		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		5515	2-Acetylaminofluorene		
		5795	2-Chloronaphthalene		
		5800	2-Chlorophenol		
		5866	2-Ethoxyethanol (cellosolve)		
		6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)		
		5145	2-Methylaniline (o-Toluidine)		
		6385	2-Methylnaphthalene		
		6400	2-Methylphenol (o-Cresol)		
		6430	2-Naphthylamine		
		6460	2-Nitroaniline		
		6490	2-Nitrophenol		
		5050	2-Picoline (2-Methylpyridine)		
		6412	3 & 4 Methylphenol		
		5945	3,3'-Dichlorobenzidine		
		6120	3,3'-Dimethylbenzidine		
		6398	3,5-Dimethylphenol		
		6355	3-Methylcholanthrene		
		6405	3-Methylphenol (m-Cresol)		
		6465	3-Nitroaniline		
		6365	4,4-Methylenebis(2-chloroaniline)		
		5540	4-Aminobiphenyl		
		5660	4-Bromophenyl phenyl ether (BDE-3)		
		5700	4-Chloro-3-methylphenol		
		5745	4-Chloroaniline		
		5825	4-Chlorophenyl phenylether		
		6105	4-Dimethyl aminoazobenzene		
		6410	4-Methylphenol (p-Cresol)		
		6470	4-Nitroaniline		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6500	4-Nitrophenol		
		6510	4-Nitroquinoline 1-oxide		
		6570	5-Nitro-o-toluidine		
		6112	6-Methylchrysene		
		6115	7,12-Dimethylbenz(a) anthracene		
		6125	a-a-Dimethylphenethylamine		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5510	Acetophenone		
		4330	Acrylamide		
		7005	Alachlor		
		4357	alpha-Methylstyrene		
		6700	alpha-Terpineol		
		5545	Aniline		
		5555	Anthracene		
		5560	Aramite		
		7065	Atrazine		
		5562	Azobenzene		
		5570	Benzaldehyde		
		5567	Benzenethiol		
		5595	Benzidine		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5605	Benzo(e)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5610	Benzoic acid		
		5630	Benzyl alcohol		
		5760	bis(2-Chloroethoxy)methane		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7180	Caprolactam		
		5680	Carbazole		
		7210	Carbofuran phenol		
		7260	Chlorobenzilate		
		5855	Chrysene		
		8906	Coelution - 3-Chlorophenol + 4-Chlorophenol		
		5862	Cresols, Total		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		7405	Diallate		
		9354	Dibenz(a, h) acridine		
		5900	Dibenz(a, j) acridine		
		5895	Dibenz(a,h) anthracene		
		5890	Dibenzo(a,e) pyrene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		7475	Dimethoate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		6205	Diphenylamine		
		8625	Disulfoton		
		7510	Endosulfan I		
		4810	Ethyl methacrylate		
		6260	Ethyl methanesulfonate		
		7580	Famphur		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		4835	Hexachlorobutadiene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6290	Hexachlorophene		
		6295	Hexachloropropene		
		6312	Indene		
		6315	Indeno(1,2,3-cd) pyrene		
		7725	Isodrin		
		6320	Isophorone		
		6325	Isosafrole		
		6345	Methapyrilene		
		6375	Methyl methanesulfonate		
		7825	Methyl parathion (Parathion, methyl)		
		5010	n, n-Dimethyl formamide		
		5005	Naphthalene		
		5875	n-Decane		
		6300	n-Hexadecane		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		
		6530	n-Nitrosodimethylamine		
		5025	n-Nitroso-di-n-butylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6550	n-Nitrosomethylethylamine		
		6555	n-Nitrosomorpholine		
		6560	n-Nitrosopiperidine		
		6565	n-Nitrosopyrrolidine		
		8290	o,o,o-Triethyl phosphorothioate		
		5550	o-Anisidine		
		5553	Octachlorostyrene		
		7955	Parathion, ethyl		
		6590	Pentachlorobenzene		
		5035	Pentachloroethane		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6600	Pentachloronitrobenzene		
		6605	Pentachlorophenol		
		6608	Perylene		
		6610	Phenacetin		
		6615	Phenanthrene		
		6625	Phenol		
		7985	Phorate		
		6635	Phthalic acid		
		6640	Phthalic anhydride		
		6650	Pronamide (Kerb)		
		6665	Pyrene		
		5095	Pyridine		
		6670	Quinoline		
		6685	Safrole		
		8155	Sulfotepp		
		8235	Thionazin (Zinophos)		
		8262	Tributyl phosphate		
		5200	Triethylamine		
		8310	tris-(2,3-Dibromopropyl) phosphate (tris-BP)		
		6575	Nonanal		
	EPA 8270D SIM			10242509	Semivolatile Organic compounds by GC/MS Selective Ion Monitoring
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6380	1-Methylnaphthalene		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		6385	2-Methylnaphthalene		
		5945	3,3'-Dichlorobenzidine		
		5745	4-Chloroaniline		
		5500	Acenaphthene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5505	Acenaphthylene		
		5555	Anthracene		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		5855	Chrysene		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		5895	Dibenz(a,h) anthracene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6315	Indeno(1,2,3-cd) pyrene		
		5005	Naphthalene		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		
		6530	n-Nitrosodimethylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6605	Pentachlorophenol		
		6615	Phenanthrene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6665	Pyrene		
	EPA 8270E			10242543	Semivolatile Organic compounds by GC/MS
		6703	1,1'-Biphenyl (BZ-0)		
		6715	1,2,4,5-Tetrachlorobenzene		
		5155	1,2,4-Trichlorobenzene		
		4610	1,2-Dichlorobenzene		
		6220	1,2-Diphenylhydrazine		
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		4615	1,3-Dichlorobenzene		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4679	1,3-phenylenediamine		
		4620	1,4-Dichlorobenzene		
		6165	1,4-Dinitrobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6420	1,4-Naphthoquinone		
		6630	1,4-Phenylenediamine		
		5790	1-Chloronaphthalene		
		6380	1-Methylnaphthalene		
		6425	1-Naphthylamine		
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether		
		6735	2,3,4,6-Tetrachlorophenol		
		6835	2,4,5-Trichlorophenol		
		6840	2,4,6-Trichlorophenol		
		6000	2,4-Dichlorophenol		
		6130	2,4-Dimethylphenol		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6005	2,6-Dichlorophenol		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		5515	2-Acetylaminofluorene		
		5795	2-Chloronaphthalene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5800	2-Chlorophenol		
		5866	2-Ethoxyethanol (cellosolve)		
		6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)		
		5145	2-Methylaniline (o-Toluidine)		
		6385	2-Methylnaphthalene		
		6400	2-Methylphenol (o-Cresol)		
		6430	2-Naphthylamine		
		6460	2-Nitroaniline		
		6490	2-Nitrophenol		
		5050	2-Picoline (2-Methylpyridine)		
		6412	3 & 4 Methylphenol		
		5945	3,3'-Dichlorobenzidine		
		6120	3,3'-Dimethylbenzidine		
		6398	3,5-Dimethylphenol		
		6355	3-Methylcholanthrene		
		6405	3-Methylphenol (m-Cresol)		
		6465	3-Nitroaniline		
		6365	4,4-Methylenebis(2-chloroaniline)		
		5540	4-Aminobiphenyl		
		5660	4-Bromophenyl phenyl ether (BDE-3)		
		5700	4-Chloro-3-methylphenol		
		5745	4-Chloroaniline		
		5825	4-Chlorophenyl phenylether		
		6105	4-Dimethyl aminoazobenzene		
		6410	4-Methylphenol (p-Cresol)		
		6470	4-Nitroaniline		
		6500	4-Nitrophenol		
		6510	4-Nitroquinoline 1-oxide		
		6570	5-Nitro-o-toluidine		
		6112	6-Methylchrysene		
		6115	7,12-Dimethylbenz(a) anthracene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6125	a-a-Dimethylphenethylamine		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5510	Acetophenone		
		4330	Acrylamide		
		7005	Alachlor		
		4357	alpha-Methylstyrene		
		6700	alpha-Terpineol		
		5545	Aniline		
		5555	Anthracene		
		5560	Aramite		
		7065	Atrazine		
		5562	Azobenzene		
		5570	Benzaldehyde		
		5567	Benzenethiol		
		5595	Benzidine		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5605	Benzo(e)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5610	Benzoic acid		
		5630	Benzyl alcohol		
		5635	Benzyl chloride		
		5760	bis(2-Chloroethoxy)methane		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		7180	Caprolactam		
		5680	Carbazole		
		7210	Carbofuran phenol		
		7260	Chlorobenzilate		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5855	Chrysene		
		5862	Cresols, Total		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		7405	Diallate		
		9354	Dibenz(a, h) acridine		
		5900	Dibenz(a, j) acridine		
		5895	Dibenz(a,h) anthracene		
		5890	Dibenzo(a,e) pyrene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		7475	Dimethoate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		6205	Diphenylamine		
		8625	Disulfoton		
		6260	Ethyl methanesulfonate		
		7580	Famphur		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		4835	Hexachlorobutadiene		
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6290	Hexachlorophene		
		6295	Hexachloropropene		
		6312	Indene		
		6315	Indeno(1,2,3-cd) pyrene		
		7725	Isodrin		
		6320	Isophorone		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6325	Isosafrole		
		6345	Methapyrilene		
		6375	Methyl methanesulfonate		
		7825	Methyl parathion (Parathion, methyl)		
		5010	n, n-Dimethyl formamide		
		5005	Naphthalene		
		5875	n-Decane		
		6300	n-Hexadecane		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		
		6530	n-Nitrosodimethylamine		
		5025	n-Nitroso-di-n-butylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6550	n-Nitrosomethylethylamine		
		6555	n-Nitrosomorpholine		
		6560	n-Nitrosopiperidine		
		6565	n-Nitrosopyrrolidine		
		8290	o,o,o-Triethyl phosphorothioate		
		5550	o-Anisidine		
		5553	Octachlorostyrene		
		7955	Parathion, ethyl		
		6590	Pentachlorobenzene		
		5035	Pentachloroethane		
		6600	Pentachloronitrobenzene		
		6605	Pentachlorophenol		
		6608	Perylene		
		6610	Phenacetin		
		6615	Phenanthrene		
		6625	Phenol		
		7985	Phorate		
		6635	Phthalic acid		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6640	Phthalic anhydride		
		6650	Pronamide (Kerb)		
		6665	Pyrene		
		5095	Pyridine		
		6670	Quinoline		
		6685	Safrole		
		8155	Sulfotepp		
		8235	Thionazin (Zinophos)		
		8262	Tributyl phosphate		
		5200	Triethylamine		
		8310	tris-(2,3-Dibromopropyl) phosphate (tris-BP)		
	EPA 8270E SIM			10242565	Semivolatile Organic compounds by Gas Chromatography/Mass Spectrometry (GC/MS-SIM)
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6380	1-Methylnaphthalene		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		6385	2-Methylnaphthalene		
		5945	3,3'-Dichlorobenzidine		
		5745	4-Chloroaniline		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5555	Anthracene		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5855	Chrysene		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		5895	Dibenz(a,h) anthracene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6315	Indeno(1,2,3-cd) pyrene		
		5005	Naphthalene		
		5015	Nitrobenzene		
		6530	n-Nitrosodimethylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6605	Pentachlorophenol		
		6615	Phenanthrene		
		6665	Pyrene		
	EPA 8321A			10189001	Solvent Extractable non-volatile compounds by HPLC/TS/MS
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		6014	2,3-Dinitrotoluene		
		8655	2,4,5-T		
		9651	2,4,6-Trinitrotoluene (2,4,6-TNT)		
		8545	2,4-D		
		8560	2,4-DB		
		6185	2,4-Dinitrotoluene (2,4-DNT)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)		
		9507	2-Nitrotoluene		
		6150	3,5-Dinitroaniline		
		9510	3-Nitrotoluene		
		9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)		
		9513	4-Nitrotoluene		
		7010	Aldicarb (Temik)		
		7040	Aminocarb		
		7195	Carbaryl (Sevin)		
		7205	Carbofuran (Furaden)		
		7275	Chloropropham		
		8555	Dalapon		
		8595	Dicamba		
		8605	Dichloroprop (Dichlorprop)		
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		7505	Diuron		
		7610	Fenuron		
		7630	Fluometuron		
		7765	Linuron (Lorox)		
		7775	MCPA		
		7780	MCPP		
		7800	Methiocarb (Mesurol)		
		7805	Methomyl (Lannate)		
		6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)		
		7855	Mexacarbate		
		7885	Monuron		
		7915	Neburon		
		5015	Nitrobenzene		
		6485	Nitroglycerin		
		9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
			tetrazocine (HMX)		
		6605	Pentachlorophenol		
		9558	Pentaerythritoltetranitrate (PETN)		
		8075	Propham		
		8080	Propoxur (Baygon)		
		9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		
		8120	Siduron		
		8650	Silvex (2,4,5-TP)		
		9577	Thiodiglycol		
	EPA 8321B			10189205	Solvent Extractable non-volatile compounds by HPLC/TS/MS
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		6014	2,3-Dinitrotoluene		
		8655	2,4,5-T		
		9651	2,4,6-Trinitrotoluene (2,4,6-TNT)		
		8545	2,4-D		
		8560	2,4-DB		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)		
		9507	2-Nitrotoluene		
		6150	3,5-Dinitroaniline		
		9510	3-Nitrotoluene		
		9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)		
		9513	4-Nitrotoluene		
		7010	Aldicarb (Temik)		
		7040	Aminocarb		
		7195	Carbaryl (Sevin)		
		7205	Carbofuran (Furaden)		
		7275	Chloropropham		
		8555	Dalapon		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		8595	Dicamba		
		8605	Dichloroprop (Dichlorprop)		
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		7505	Diuron		
		7610	Fenuron		
		7630	Fluometuron		
		7765	Linuron (Lorox)		
		7775	MCPA		
		7780	MCPP		
		7800	Methiocarb (Mesurol)		
		7805	Methomyl (Lannate)		
		6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)		
		7855	Mexacarbate		
		7885	Monuron		
		7915	Neburon		
		5015	Nitrobenzene		
		6485	Nitroglycerin		
		9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)		
		6605	Pentachlorophenol		
		9558	Pentaerythritoltetranitrate (PETN)		
		8075	Propham		
		8080	Propoxur (Baygon)		
		9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		
		8120	Siduron		
		8650	Silvex (2,4,5-TP)		
	EPA 8330A			10190008	Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		9651	2,4,6-Trinitrotoluene (2,4,6-TNT)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5882	2,4-diamino-6-nitrotoluene		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6181	2,6-diamino-4-nitrotoluene		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)		
		9507	2-Nitrotoluene		
		9510	3-Nitrotoluene		
		9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)		
		9513	4-Nitrotoluene		
		7046	Ammonium Picrate		
		6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)		
		5015	Nitrobenzene		
		6485	Nitroglycerin		
		9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)		
		9558	Pentaerythritoltetranitrate (PETN)		
		1899	Picric Acid (2,4,6-Trinitrophenol)		
		9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		
	EPA 8330B			10308006	Nitroaromatics, Nitramines and Nitrate Esters by High Performance Liquid Chromatography (HPLC)
		6887	1,3,5-Trinitroso-1,3,5-hexahydrotriazine (TNX)		
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		9651	2,4,6-Trinitrotoluene (2,4,6-TNT)		
		5882	2,4-diamino-6-nitrotoluene		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6181	2,6-diamino-4-nitrotoluene		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)		
		9507	2-Nitrotoluene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6150	3,5-Dinitroaniline		
		9510	3-Nitrotoluene		
		9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)		
		9513	4-Nitrotoluene		
		7046	Ammonium Picrate		
		9416	Hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine (DNX)		
		9418	Hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine (MNX)		
		6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)		
		5015	Nitrobenzene		
		6485	Nitroglycerin		
		9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)		
		9558	Pentaerythritoltetranitrate (PETN)		
		1899	Picric Acid (2,4,6-Trinitrophenol)		
		9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		
	EPA 9012A			10193405	Total and Amenable Cyanide (automated colorimetric with off-line distillation)
		1510	Amenable cyanide		
		1645	Total cyanide		
	EPA 9012B			10243206	Total and Amenable Cyanide (automated colorimetric with off-line distillation)
		1510	Amenable cyanide		
		1645	Total cyanide		
	EPA 9020B			10194408	Total Organic Halides
		2045	Total organic halides (TOX)		
	EPA 9030B			10195605	Acid-Soluble and Acid-Insoluble sulfides: Distillation
		2005	Sulfide		
	EPA 9034			10196006	Titrimetric Procedure for Acid-Soluble and Acid-Insoluble Sulfides
		2005	Sulfide		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
	EPA 9040B			10197203	pH Electrometric Measurement
		1900	pH		
	EPA 9040C			10244403	pH Electrometric Measurement
		1900	pH		
	EPA 9050A			10198808	Specific Conductance
		1610	Conductivity		
	EPA 9056			10199209	Determination of Inorganic Anions by Ion Chromatography
		1540	Bromide		
		1575	Chloride		
		1730	Fluoride		
		1805	Nitrate		
		1835	Nitrite		
		1870	Orthophosphate as P		
		2000	Sulfate		
		1825	Total nitrate+nitrite		
	EPA 9056A			10199607	Determination of Inorganic Anions by Ion Chromatography
		1540	Bromide		
		1575	Chloride		
		1730	Fluoride		
		1805	Nitrate		
		1820	Nitrate plus Nitrite as N		
		1835	Nitrite		
		1870	Orthophosphate as P		
		2000	Sulfate		
	EPA 9060			10200201	Total Organic Carbon
		1710	Dissolved organic carbon (DOC)		
		1813	Total Inorganic Carbon		
		2040	Total organic carbon		
	EPA 9060A			10244823	Total Organic Carbon
		1710	Dissolved organic carbon (DOC)		
		1813	Total Inorganic Carbon		
		1813	Total Inorganic Carbon		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		2040	Total organic carbon		
	EPA 9066			10200609	Phenolics (Colorimetric, Automated 4-AAP with Distillation)
		1905	Total phenolics		
	EPA RSK-175 (GC-FID)			10212905	Methane, Ethane, and Ethene in water by Headspace GC/FID
		4323	Acetylene		
		4747	Ethane		
		4752	Ethene		
		4877	Isobutylene		
		4926	Methane		
		5007	n-Butane		
		5028	n-Pentane		
		5029	n-Propane		
	FLDEP SOP 02/12/01			90015820	Calculation of Un-ionized Ammonia in Fresh Water
		2058	Un-ionized Ammonia		
	NWTPH-Dx			90018409	Oregon DEQ TPH Diesel Range
		9369	Diesel range organics (DRO)		
		9499	Motor Oil		
		9506	Residual Range Organics (RRO)		
		2050	Total Petroleum Hydrocarbons (TPH)		
	NWTPH-Gx			90018603	Oregon DEQ TPH Gasoline Range Organics by GC/FID-PID Purge & Trap
		9408	Gasoline range organics (GRO)		
	SM 2120 B-2001 online			20039309	Color by Visual Comparison
		1605	Color		
	SM 2120 B-2011			20039310	Color
		1605	Color		
	SM 2320 B-2011 online			20045618	Alkalinity as CaCO3
		1505	Alkalinity as CaCO3		
	SM 2320 B-97			20045607	Alkalinity by Titration Method

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
	1997				
		1505	Alkalinity as CaCO3		
	SM 2340 B-2011 online			20046611	Hardness
		1550	Calcium hardness as CaCO3		
		1750	Hardness		
		1755	Total hardness as CaCO3		
	SM 2340 B-97 1997			20046600	Hardness by calculation
		1550	Calcium hardness as CaCO3		
		1750	Hardness		
		1755	Total hardness as CaCO3		
	SM 2340 C-1997			20047603	Hardness - EDTA Titrimetric Method
		1755	Total hardness as CaCO3		
	SM 2340 C-2011 22nd Ed			20047614	Hardness by EDTA Titration
		1755	Total hardness as CaCO3		
	SM 2510 B 22nd Ed			20048413	Conductivity by Probe
		1610	Conductivity		
	SM 2510 B-2011			20048617	Conductivity by Probe
		1610	Conductivity		
	SM 2510 B-97 1997			20048606	Conductivity by Probe
		1610	Conductivity		
	SM 2540 B-2011 2011			20049416	Total Solids Dried at 103 - 105C
		1950	Residue-total		
	SM 2540 B-97 1997			20049405	Total Solids Dried at 103 - 105C
		1950	Residue-total		
	SM 2540 C-2011 online			20050413	Residue-filterable (TDS)

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1955	Residue-filterable (TDS)		
	SM 2540 C-97 1997			20050402	Total Dissolved Solids Dried at 180C
		1955	Residue-filterable (TDS)		
	SM 2540 D-2011			20051212	Total Suspended Solids Dried at 103 - 105 C
		1960	Residue-nonfilterable (TSS)		
	SM 2540 D-97 1997			20051201	Total Suspended Solids Dried at 103 - 105C
		1960	Residue-nonfilterable (TSS)		
	SM 3500-Cr B-2009 online			20066255	Chromium by Colorimetric Method
		1045	Chromium VI		
	SM 3500-Cr B-2011			20066266	Chromium by Colorimetric Method
		1045	Chromium VI		
	SM 3500-Cr D 19th ED			20067009	Chromium by Colorimetric Method
		1045	Chromium VI		
	SM 3500-Fe B 20th ED			20068604	Iron by Colorimetric Method
		1073	Iron-(II) (Ferrous Iron)		
	SM 3500-Fe B 21st ED			20068808	Iron by Phenanthroline Method
		1073	Iron-(II) (Ferrous Iron)		
	SM 3500-Fe B-97 online			20069005	Iron by Phenanthroline Method
		1073	Iron-(II) (Ferrous Iron)		
	SM 3500-Fe D 19th ED			20069209	Iron by Phenanthroline Method
		1073	Iron-(II) (Ferrous Iron)		
	SM 4500-Cl^- E-2011			20086811	Chloride - Automated Ferricyanide Method
		1575	Chloride		
	SM 4500-CN E-1999			20096417	Cyanide by Colorimetric Method

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1645	Total cyanide		
	SM 4500-CN E-2011 2011			20096428	Cyanide by Colormetric Method
		1645	Total cyanide		
	SM 4500-CN G-1999 online			20097216	Cyanide Amenable to Chlorination after Distillation
		1510	Amenable cyanide		
	SM 4500-CN$^-$ C-2011			20065663	Cyanide (Total) After Distillation
		1645	Total cyanide		
	SM 4500-CN$^-$ C-97 online			20095607	Cyanide by Total Cyanide after Distillation
		1645	Total cyanide		
	SM 4500-CN$^-$ G-2011			20097227	Cyanides Amenable to Chlorination after Distillation
		1510	Amenable cyanide		
	SM 4500-CN$^-$ I-2011			20098026	Weak Acid Dissociable Cyanide
		2074	Weak Acid Dissociable Cyanide		
	SM 4500-CN$^-$ I-97 online			20098004	Cyanide by Weak Acid Dissociable Cyanide
		2074	Weak Acid Dissociable Cyanide		
	SM 4500-H+ B-2000 online			20105219	pH Value by Electrometric Method .
		1900	pH		
	SM 4500-H+ B-2011			20105220	pH - Electrometric Measurement
		1900	pH		
	SM 4500-NO2 B-2011 online			20113115	Nitrite as N
		1840	Nitrite as N		
	SM 4500-NO2$^-$ B 18th ED			20024004	Nitrite Nitrogen by Colorimetric Determination
		1840	Nitrite as N		
	SM 4500-NO2$^-$			20112407	Nitrite by Colorimetric Determination

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
	B 19th ED				
		1840	Nitrite as N		
	SM 4500-NO2⁻ B 20th ED			20112601	Nitrite by Colorimetric Determination
		1840	Nitrite as N		
	SM 4500-NO2⁻ B 21st ED			20112805	Nitrite by Colorimetric Method
		1840	Nitrite as N		
	SM 4500-NO2⁻ B 22nd ED			20112816	Nitrite - Colorimetric Method
		1840	Nitrite as N		
	SM 4500-NO2⁻ B-2000 online			20113104	Nitrite by Colorimetric Determination
		1835	Nitrite		
		1840	Nitrite as N		
	SM 4500-S2 D-2000			20125853	Sulfide by Methylene Blue Method
		2005	Sulfide		
	SM 4500-S2 F-2011			20126663	Sulfide by Iodometric Method
		2005	Sulfide		
	SM 4500-S2⁻ D-2011 online			20125864	Sulfide by Methylene Blue Method
		2005	Sulfide		
	SM 4500-S2⁻ F-2000 online			20126652	Sulfide by Iodometric Method
		2005	Sulfide		
	SM 4500-SO3⁻ B-2000 online			20130625	Sulfite by Iodometric Method
		2015	Sulfite-SO3		
	SM 4500-SO3⁻ B-2011			20130636	Sulfite by Iodometric Method
		2015	Sulfite-SO3		
	SM 4500-SO4⁻ E-2011			20132461	Sulfate - Turbidimetric Method

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		2000	Sulfate		
	SM 5210 B-2001 online			20135255	Biochemical Oxygen Demand (BOD), 5-Day
		1530	Biochemical oxygen demand		
	SM 5210 B-2011 online			20135266	Biochemical Oxygen Demand (5 days @ 20 C).
		1530	Biochemical oxygen demand		
	SM 5310 B-2000			20137819	Total Organic Carbon (TOC) by Combustion Infra-red Method
		1710	Dissolved organic carbon (DOC)		
		2040	Total organic carbon		
	SM 5310 B-2011 2011			20137820	TOC by High-Temperature Combustion Method
		1710	Dissolved organic carbon (DOC)		
		2040	Total organic carbon		
Solids					
	AK101 GRO			90015002	Determination of Gasoline Range Organics - Alaska Department of Environmental Conservation
		9408	Gasoline range organics (GRO)		
		4027	Total BTEX		
	AK102 DRO			90015206	Determination of Diesel Range Organics - Alaska Department of Environmental Conservation
		9369	Diesel range organics (DRO)		
	AK103 RRO			90015400	Determination of Residual Range Organics - Alaska Department of Environmental Conservation
		9499	Motor Oil		
	ASTM D2216 - 10 10			30025106	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
		8641	Percent Moisture		
	ASTM D5057-90			30032145	Standard Test Method for Screening Apparent Specific Gravity and Bulk Density of Waste
		8017	Bulk Density		
	CA HML 939-M			90016765	Determination of Organic Lead Compounds by Graphite Furnace Absorption Spectrometry
		1208	Organic Lead		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
	CA Title 22 WET			90017235	CA Waste Extraction Test (WET)
		1407	California Waste Extraction Test		
	DV-LC-0012 16			60036035	TestAmerica Denver - PFOA in NPW and SCM by HPLC-MS-MS
		7044	Ammonium Perfluorooctanoate (APFO)		
		6911	Perfluorobutane Sulfonate (PFBS)		
		6915	Perfluorobutanoic acid (PFBA)		
		9562	Perfluorodecane Sulfonate (PFDS)		
		6905	Perfluorodecanoic acid (PFDA)		
		6903	Perfluorododecanoic acid (PFDoA)		
		6908	Perfluoroheptanoic acid (PFHpA)		
		6910	Perfluorohexane sulfonate (PFHxS)		
		6913	Perfluorohexanoic acid (PFHxA)		
		6906	Perfluorononanoic acid (PFNA)		
		6917	Perfluorooctane sulfonamide (PFOSAm)		
		6909	Perfluorooctane sulfonate (PFOS)		
		6912	Perfluorooctanoic acid (PFOA)		
		6914	Perfluoropentanoic acid (PFPeA)		
		6902	Perfluorotetradecanoic acid (PFTDA)		
		9563	Perfluorotridecanoic acid (PFTrDA)		
		6904	Perfluoroundecanoic acid (PFUnA)		
	DV-LC-0020 3			60036013	TestAmerica Denver - Disodium Iminodiacetate (IDA) by LC/MS/MS (modified EPA 8321A)
		6119	Disodium Inimodiacetate		
	EPA 1010			10116606	Pensky-Martens Closed-Cup Method for Determining Ignitability
		1780	Ignitability		
	EPA 1010A			10234807	Pensky-Martens Closed-Cup Method for Determining Ignitability
		1780	Ignitability		
	EPA 1311			10118806	Toxicity Characteristic Leaching Procedure

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1466	Toxicity Characteristic Leaching Procedure (TCLP)		
	EPA 1312			10119003	Synthetic Precipitation Leaching Procedure
		1460	Synthetic Precipitation Leaching Procedure (SPLP)		
	EPA 160.4			10010409	Total Volatile Solids, ignition @ 550 C.
		2070	Volatile suspended solids		
	EPA 3050B			10135601	Acid Digestion of Sediments, Sludges, and soils
		1400	Acid Digestion of Solids		
	EPA 351.2			10065006	Total Kjeldahl Nitrogen - Block Digest, Phenate
		1795	Total Kjeldahl Nitrogen (TKN)		
	EPA 353.2 2			10067604	Nitrate/Nitrite Nitrogen - Automated, Cadmium
		1820	Nitrate plus Nitrite as N		
		1840	Nitrite as N		
		1825	Total nitrate+nitrite		
	EPA 3540C			10140202	Soxhlet Extraction
		1452	Soxhlet Extraction		
	EPA 3546			10141205	Microwave Extraction
		1428	Microwave Extraction		
	EPA 3550C			10142004	Ultrasonic Extraction
		1468	Ultrasonic Extraction		
	EPA 3580A			10143007	Waste Dilution
		1470	Waste Dilution		
	EPA 3620B			10145809	Florisil Cleanup
		1414	Florisil Clean-up		
	EPA 3620C			10146006	Florisil Cleanup
		1414	Florisil Clean-up		
	EPA 3660B			10148400	Sulfur cleanup
		1456	Sulfur Clean-up		
	EPA 3665A			10148808	Sulfuric Acid / permanganate Cleanup
		1458	Sulfuric Acid / Permanganate Clean-Up		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
	EPA 5035			10154004	Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples
		1392	Closed-System Purge & Trap (Methanol)		
	EPA 5035A			10284807	Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples
		1392	Closed-System Purge & Trap (Methanol)		
	EPA 6010B			10155609	ICP - AES
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1023	Bismuth		
		1025	Boron		
		1030	Cadmium		
		1035	Calcium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1070	Iron		
		1075	Lead		
		1080	Lithium		
		1085	Magnesium		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1910	Phosphorus, total		
		1125	Potassium		
		1140	Selenium		
		1990	Silica as SiO2		
		1145	Silicon		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1150	Silver		
		1155	Sodium		
		1160	Strontium		
		2017	Sulfur		
		1165	Thallium		
		1175	Tin		
		1180	Titanium		
		1185	Vanadium		
		1190	Zinc		
	EPA 6010C			10155803	ICP - AES
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1023	Bismuth		
		1025	Boron		
		1030	Cadmium		
		1035	Calcium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1070	Iron		
		1075	Lead		
		1080	Lithium		
		1085	Magnesium		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1910	Phosphorus, total		
		1125	Potassium		
		1140	Selenium		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1990	Silica as SiO2		
		1145	Silicon		
		1150	Silver		
		1155	Sodium		
		1160	Strontium		
		2017	Sulfur		
		1165	Thallium		
		1175	Tin		
		1180	Titanium		
		1185	Vanadium		
		1190	Zinc		
	EPA 6010D 4			10155916	Metals by ICP - AES
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1023	Bismuth		
		1025	Boron		
		1030	Cadmium		
		1035	Calcium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1070	Iron		
		1075	Lead		
		1080	Lithium		
		1085	Magnesium		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1910	Phosphorus, total		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1125	Potassium		
		1140	Selenium		
		1990	Silica as SiO2		
		1145	Silicon		
		1150	Silver		
		1155	Sodium		
		1160	Strontium		
		2017	Sulfur		
		1165	Thallium		
		1175	Tin		
		1180	Titanium		
		1185	Vanadium		
		1190	Zinc		
	EPA 6020			10156000	Inductively Coupled Plasma-Mass Spectrometry
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1030	Cadmium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1075	Lead		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1140	Selenium		
		1150	Silver		
		1160	Strontium		
		1165	Thallium		
		1170	Thorium		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1175	Tin		
		1184	Uranium (mass)		
		1185	Vanadium		
		1190	Zinc		
	EPA 6020A 1			10156419	Inductively Coupled Plasma -Mass Spectrometry
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		
		1030	Cadmium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1075	Lead		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1140	Selenium		
		1150	Silver		
		1160	Strontium		
		1165	Thallium		
		1170	Thorium		
		1175	Tin		
		1184	Uranium (mass)		
		1185	Vanadium		
		1190	Zinc		
	EPA 6020B 2			10156420	Inductively Coupled Plasma-Mass Spectrometry
		1000	Aluminum		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1020	Beryllium		
		1030	Cadmium		
		1040	Chromium		
		1050	Cobalt		
		1055	Copper		
		1075	Lead		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1140	Selenium		
		1150	Silver		
		1160	Strontium		
		1165	Thallium		
		1170	Thorium		
		1175	Tin		
		1184	Uranium (mass)		
		1185	Vanadium		
		1190	Zinc		
	EPA 6860			10304800	Perchlorate in Water, Soils and Solid Wastes Using Ion Chromatography/Electrospray Ionization/Mass Spectrometry
		1895	Perchlorate		
	EPA 7196A Update I			10162400	Chromium Hexavalent colorimetric
		1045	Chromium VI		
	EPA 7471A			10166208	Mercury in Solid Waste by Cold Vapor Atomic Absorption
		1095	Mercury		
	EPA 7471B			10166402	Mercury by Cold Vapor Atomic Absorption
		1095	Mercury		
	EPA 8011			10173009	1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and GC/ECD
		5180	1,2,3-Trichloropropane		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4580	Dibromochloropropane		
	EPA 8015B			10173601	Non-halogenated organics using GC/FID
		9369	Diesel range organics (DRO)		
		9408	Gasoline range organics (GRO)		
		9488	Jet Fuel		
		9499	Motor Oil		
	EPA 8015C			10173805	Non-halogenated organics using GC/FID
		9369	Diesel range organics (DRO)		
		9408	Gasoline range organics (GRO)		
		9488	Jet Fuel		
		9499	Motor Oil		
	EPA 8015D			10305609	Nonhalogenated Organics Using GC/FID
		9369	Diesel range organics (DRO)		
		9408	Gasoline range organics (GRO)		
		9488	Jet Fuel		
		9499	Motor Oil		
	EPA 8081A			10178606	Organochlorine Pesticides by GC/ECD
		8580	2,4'-DDD		
		8585	2,4'-DDE		
		8590	2,4'-DDT		
		7355	4,4'-DDD		
		7360	4,4'-DDE		
		7365	4,4'-DDT		
		7025	Aldrin		
		7110	alpha-BHC (alpha-Hexachlorocyclohexane)		
		7115	beta-BHC (beta-Hexachlorocyclohexane)		
		7250	Chlordane (tech.)		
		7260	Chlorobenzilate		
		7240	cis-chlordane (alpha-Chlordane)		
		7105	delta-BHC		
		7405	Diallate		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7470	Dieldrin		
		7510	Endosulfan I		
		7515	Endosulfan II		
		7520	Endosulfan sulfate		
		7540	Endrin		
		7530	Endrin aldehyde		
		7535	Endrin ketone		
		7120	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)		
		7245	gamma-Chlordane		
		7685	Heptachlor		
		7690	Heptachlor epoxide		
		6275	Hexachlorobenzene		
		6280	Hexachlorocyclohexanes		
		7725	Isodrin		
		7740	Kepone		
		7810	Methoxychlor		
		7870	Mirex		
		8250	Toxaphene (Chlorinated camphene)		
		8310	tris-(2,3-Dibromopropyl) phosphate (tris-BP)		
	EPA 8081B			10178800	Organochlorine Pesticides by GC/ECD
		8580	2,4'-DDD		
		8585	2,4'-DDE		
		8590	2,4'-DDT		
		7355	4,4'-DDD		
		7360	4,4'-DDE		
		7365	4,4'-DDT		
		7025	Aldrin		
		7110	alpha-BHC (alpha-Hexachlorocyclohexane)		
		7115	beta-BHC (beta-Hexachlorocyclohexane)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7250	Chlordane (tech.)		
		7260	Chlorobenzilate		
		7240	cis-chlordane (alpha-Chlordane)		
		7105	delta-BHC		
		7405	Diallate		
		7460	Dicofol		
		7470	Dieldrin		
		7510	Endosulfan I		
		7515	Endosulfan II		
		7520	Endosulfan sulfate		
		7540	Endrin		
		7530	Endrin aldehyde		
		7535	Endrin ketone		
		7120	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)		
		7245	gamma-Chlordane		
		7685	Heptachlor		
		7690	Heptachlor epoxide		
		6275	Hexachlorobenzene		
		6280	Hexachlorocyclohexanes		
		7725	Isodrin		
		7740	Kepone		
		7810	Methoxychlor		
		7870	Mirex		
		8250	Toxaphene (Chlorinated camphene)		
		8310	tris-(2,3-Dibromopropyl) phosphate (tris-BP)		
	EPA 8082			10179007	Polychlorinated Biphenyls (PCBs) by GC/ECD
		8880	Aroclor-1016 (PCB-1016)		
		8885	Aroclor-1221 (PCB-1221)		
		8890	Aroclor-1232 (PCB-1232)		
		8895	Aroclor-1242 (PCB-1242)		
		8900	Aroclor-1248 (PCB-1248)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		8905	Aroclor-1254 (PCB-1254)		
		8910	Aroclor-1260 (PCB-1260)		
		8912	Aroclor-1262 (PCB-1262)		
		8913	Aroclor-1268 (PCB-1268)		
	EPA 8082A			10179201	Polychlorinated Biphenyls (PCBs) by GC/ECD
		8880	Aroclor-1016 (PCB-1016)		
		8885	Aroclor-1221 (PCB-1221)		
		8890	Aroclor-1232 (PCB-1232)		
		8895	Aroclor-1242 (PCB-1242)		
		8900	Aroclor-1248 (PCB-1248)		
		8905	Aroclor-1254 (PCB-1254)		
		8910	Aroclor-1260 (PCB-1260)		
		8912	Aroclor-1262 (PCB-1262)		
		8913	Aroclor-1268 (PCB-1268)		
	EPA 8141A			10182000	Organophosphorous Pesticides by GC/NPD
		7045	Anilazine		
		7065	Atrazine		
		7070	Azinphos-ethyl (Ethyl guthion)		
		7075	Azinphos-methyl (Guthion)		
		7125	Bolstar (Sulprofos)		
		7220	Carbophenothion		
		7300	Chlorpyrifos		
		7315	Coumaphos		
		7390	Demeton		
		7395	Demeton-o		
		7385	Demeton-s		
		7410	Diazinon		
		8610	Dichlorovos (DDVP, Dichlorvos)		
		7475	Dimethoate		
		8625	Disulfoton		
		7550	EPN		
		7570	Ethoprop		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7580	Famphur		
		7600	Fensulfothion		
		7605	Fenthion		
		7770	Malathion		
		7785	Merphos		
		7825	Methyl parathion (Parathion, methyl)		
		7850	Mevinphos		
		7905	Naled		
		8290	o,o,o-Triethyl phosphorothioate		
		7955	Parathion, ethyl		
		7985	Phorate		
		8000	Phosmet (Imidan)		
		8060	Propazine		
		8110	Ronnel		
		8125	Simazine		
		8155	Sulfotepp		
		8200	Tetrachlorvinphos (Stirophos, Gardona) Z-isomer		
		8235	Thionazin (Zinophos)		
		8245	Tokuthion (Prothiophos)		
		8275	Trichloronate		
	EPA 8141B			10182204	Organophosphorous Pesticides by GC/NPD
		7045	Anilazine		
		7065	Atrazine		
		7070	Azinphos-ethyl (Ethyl guthion)		
		7075	Azinphos-methyl (Guthion)		
		7125	Bolstar (Sulprofos)		
		7220	Carbophenothion		
		7300	Chlorpyrifos		
		7315	Coumaphos		
		7390	Demeton		
		7395	Demeton-o		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7385	Demeton-s		
		7410	Diazinon		
		8610	Dichlorovos (DDVP, Dichlorvos)		
		7475	Dimethoate		
		8625	Disulfoton		
		7550	EPN		
		7570	Ethoprop		
		7580	Famphur		
		7600	Fensulfothion		
		7605	Fenthion		
		7770	Malathion		
		7785	Merphos		
		7825	Methyl parathion (Parathion, methyl)		
		7850	Mevinphos		
		7905	Naled		
		7955	Parathion, ethyl		
		7985	Phorate		
		8000	Phosmet (Imidan)		
		8110	Ronnel		
		8125	Simazine		
		8155	Sulfotepp		
		8200	Tetrachlorvinphos (Stirophos, Gardona) Z-isomer		
		8235	Thionazin (Zinophos)		
		8245	Tokuthion (Prothiophos)		
		8275	Trichloronate		
	EPA 8151A			10183207	Chlorinated Herbicides by GC/ECD
		8655	2,4,5-T		
		8545	2,4-D		
		8560	2,4-DB		
		8555	Dalapon		
		8595	Dicamba		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		8605	Dichloroprop (Dichlorprop)		
		7775	MCPA		
		7780	MCPP		
		6605	Pentachlorophenol		
		8645	Picloram		
		8650	Silvex (2,4,5-TP)		
	EPA 8260B			10184802	Volatile Organic Compounds by purge and trap GC/MS
		5105	1,1,1,2-Tetrachloroethane		
		5185	1,1,1-Trichloro-2,2,2-trifluoroethane (Freon 113a)		
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5195	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		
		5165	1,1,2-Trichloroethane		
		5167	1,1,2-Trichlorofluoroethane		
		5172	1,1,2-Trifluoroethane		
		5171	1,1-Dichloro-1-fluoroethane		
		4630	1,1-Dichloroethane		
		4640	1,1-Dichloroethylene		
		4670	1,1-Dichloropropene		
		5150	1,2,3-Trichlorobenzene		
		5180	1,2,3-Trichloropropane		
		5182	1,2,3-Trimethylbenzene		
		5155	1,2,4-Trichlorobenzene		
		5210	1,2,4-Trimethylbenzene		
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4695	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon-114)		
		4697	1,2-Dichloro-1,1,2-trifluoroethane		
		4610	1,2-Dichlorobenzene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		4655	1,2-Dichloropropane		
		6800	1,3,5-Trichlorobenzene		
		5215	1,3,5-Trimethylbenzene		
		4615	1,3-Dichlorobenzene		
		4660	1,3-Dichloropropane		
		4675	1,3-Dichloropropene		
		4620	1,4-Dichlorobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4919	1-Chloro-1,1-difluoroethane		
		4510	1-Chlorohexane		
		5222	2,2-Dichloro-1,1,1-trifluoroethane (Freon 123)		
		4665	2,2-Dichloropropane		
		4410	2-Butanone (Methyl ethyl ketone, MEK)		
		4411	2-Chloro-1,1,1-trifluoroethane		
		4500	2-Chloroethyl vinyl ether		
		4535	2-Chlorotoluene		
		4860	2-Hexanone (MBK)		
		5020	2-Nitropropane		
		5045	2-Pentanone		
		4540	4-Chlorotoluene		
		4910	4-Isopropyltoluene (p-Cymene)		
		4995	4-Methyl-2-pentanone (MIBK)		
		4315	Acetone		
		4320	Acetonitrile		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		4355	Allyl chloride (3-Chloropropene)		
		4375	Benzene		
		4385	Bromobenzene		
		4390	Bromochloromethane		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4395	Bromodichloromethane		
		4400	Bromoform		
		4450	Carbon disulfide		
		4455	Carbon tetrachloride		
		4475	Chlorobenzene		
		4575	Chlorodibromomethane		
		4577	Chlorodifluoromethane (Freon-22)		
		4485	Chloroethane (Ethyl chloride)		
		4486	Chlorofluoromethane		
		4505	Chloroform		
		4522	Chloropentafluoroethane		
		4525	Chloroprene (2-Chloro-1,3-butadiene)		
		4526	Chlorotrifluoroethene		
		4705	cis & trans-1,2-Dichloroethene		
		4645	cis-1,2-Dichloroethylene		
		4680	cis-1,3-Dichloropropene		
		4600	cis-1,4-Dichloro-2-butene		
		4555	Cyclohexane		
		4560	Cyclohexanone		
		4595	Dibromomethane (Methylene bromide)		
		4625	Dichlorodifluoromethane (Freon-12)		
		4627	Dichlorofluoromethane (Freon 21)		
		4725	Diethyl ether		
		9375	Di-isopropylether (DIPE)		
		4750	Ethanol		
		4755	Ethyl acetate		
		4810	Ethyl methacrylate		
		4765	Ethylbenzene		
		4795	Ethylene oxide		
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)		
		4772	Fluoromethane (Freon 41)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4835	Hexachlorobutadiene		
		4870	Iodomethane (Methyl iodide)		
		4875	Isobutyl alcohol (2-Methyl-1-propanol)		
		4895	Isopropyl alcohol (2-Propanol, Isopropanol)		
		4900	Isopropylbenzene (Cumene)		
		5240	m+p-xylene		
		4925	Methacrylonitrile		
		4940	Methyl acetate		
		4950	Methyl bromide (Bromomethane)		
		4960	Methyl chloride (Chloromethane)		
		4990	Methyl methacrylate		
		5000	Methyl tert-butyl ether (MTBE)		
		4965	Methylcyclohexane		
		4975	Methylene chloride (Dichloromethane)		
		5245	m-Xylene		
		5005	Naphthalene		
		4425	n-Butyl alcohol (1-Butanol, n-Butanol)		
		4435	n-Butylbenzene		
		4855	n-Hexane		
		5090	n-Propylbenzene		
		5250	o-Xylene		
		5035	Pentachloroethane		
		5080	Propionitrile (Ethyl cyanide)		
		9579	Propylene oxide		
		5255	p-Xylene		
		9607	sec-Butyl Alcohol (2-Butanol)		
		4440	sec-Butylbenzene		
		5100	Styrene		
		4370	T-amylmethylether (TAME)		
		4420	tert-Butyl alcohol		
		4445	tert-Butylbenzene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5115	Tetrachloroethylene (Perchloroethylene)		
		5120	Tetrahydrofuran (THF)		
		9574	Tetrahydrothiophene		
		5140	Toluene		
		4027	Total BTEX		
		5205	Total trihalomethanes		
		4700	trans-1,2-Dichloroethylene		
		4685	trans-1,3-Dichloropropylene		
		4605	trans-1,4-Dichloro-2-butene		
		5170	Trichloroethene (Trichloroethylene)		
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
		5225	Vinyl acetate		
		5235	Vinyl chloride		
		5237	Vinyl Fluoride		
		5260	Xylene (total)		
	EPA 8260B SIM			10184904	Volatile Organic Compounds by purge and trap GC/MS-SIM
		5110	1,1,2,2-Tetrachloroethane		
		5165	1,1,2-Trichloroethane		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		9318	1,3-Butadiene		
		4675	1,3-Dichloropropene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4375	Benzene		
		4395	Bromodichloromethane		
		4575	Chlorodibromomethane		
		4505	Chloroform		
		4680	cis-1,3-Dichloropropene		
		4835	Hexachlorobutadiene		
		4420	tert-Butyl alcohol		
		4685	trans-1,3-Dichloropropylene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5235	Vinyl chloride		
	EPA 8260C			10307003	Volatile Organics: GC/MS (capillary column)
		5105	1,1,1,2-Tetrachloroethane		
		5195	1,1,1-Trichloro-2,2,2-trifluoroethane (Freon 113a)		
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		
		5165	1,1,2-Trichloroethane		
		5167	1,1,2-Trichlorofluoroethane		
		5172	1,1,2-Trifluoroethane		
		5171	1,1-Dichloro-1-fluoroethane		
		4630	1,1-Dichloroethane		
		4640	1,1-Dichloroethylene		
		4643	1,1-Dichloropropane		
		4670	1,1-Dichloropropene		
		5150	1,2,3-Trichlorobenzene		
		5180	1,2,3-Trichloropropane		
		5182	1,2,3-Trimethylbenzene		
		5155	1,2,4-Trichlorobenzene		
		5210	1,2,4-Trimethylbenzene		
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4695	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon-114)		
		4697	1,2-Dichloro-1,1,2-trifluoroethane		
		4610	1,2-Dichlorobenzene		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		4655	1,2-Dichloropropane		
		6800	1,3,5-Trichlorobenzene		
		5215	1,3,5-Trimethylbenzene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		9318	1,3-Butadiene		
		4615	1,3-Dichlorobenzene		
		4660	1,3-Dichloropropane		
		4675	1,3-Dichloropropene		
		4620	1,4-Dichlorobenzene		
		4622	1,4-Difluorobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4919	1-Chloro-1,1-difluoroethane		
		4510	1-Chlorohexane		
		5220	2,2,4-Trimethylpentane		
		5222	2,2-Dichloro-1,1,1-trifluoroethane (Freon 123)		
		4665	2,2-Dichloropropane		
		4410	2-Butanone (Methyl ethyl ketone, MEK)		
		4411	2-Chloro-1,1,1-trifluoroethane		
		4500	2-Chloroethyl vinyl ether		
		4535	2-Chlorotoluene		
		4860	2-Hexanone (MBK)		
		5020	2-Nitropropane		
		5045	2-Pentanone		
		4540	4-Chlorotoluene		
		4910	4-Isopropyltoluene (p-Cymene)		
		4995	4-Methyl-2-pentanone (MIBK)		
		4315	Acetone		
		4320	Acetonitrile		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		4355	Allyl chloride (3-Chloropropene)		
		4375	Benzene		
		5635	Benzyl chloride		
		4385	Bromobenzene		
		4390	Bromochloromethane		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4395	Bromodichloromethane		
		4400	Bromoform		
		4403	Butyl acetate		
		4450	Carbon disulfide		
		4455	Carbon tetrachloride		
		4475	Chlorobenzene		
		4575	Chlorodibromomethane		
		4577	Chlorodifluoromethane (Freon-22)		
		4485	Chloroethane (Ethyl chloride)		
		4486	Chlorofluoromethane		
		4505	Chloroform		
		4522	Chloropentafluoroethane		
		4525	Chloroprene (2-Chloro-1,3-butadiene)		
		4526	Chlorotrifluoroethene		
		4705	cis & trans-1,2-Dichloroethene		
		4645	cis-1,2-Dichloroethylene		
		4680	cis-1,3-Dichloropropene		
		4600	cis-1,4-Dichloro-2-butene		
		4555	Cyclohexane		
		4560	Cyclohexanone		
		4595	Dibromomethane (Methylene bromide)		
		4625	Dichlorodifluoromethane (Freon-12)		
		4627	Dichlorofluoromethane (Freon 21)		
		4725	Diethyl ether		
		9375	Di-isopropylether (DIPE)		
		4729	Dimethyl disulfide		
		4750	Ethanol		
		4755	Ethyl acetate		
		4760	Ethyl acrylate		
		4810	Ethyl methacrylate		
		4765	Ethylbenzene		
		4795	Ethylene oxide		

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Environmental Laboratory Accreditation Program

ORELAP Fields of Accreditation

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)		
		4771	Fluorobenzene		
		4772	Fluoromethane (Freon 41)		
		4835	Hexachlorobutadiene		
		4870	Iodomethane (Methyl iodide)		
		4875	Isobutyl alcohol (2-Methyl-1-propanol)		
		4895	Isopropyl alcohol (2-Propanol, Isopropanol)		
		4900	Isopropylbenzene (Cumene)		
		5240	m+p-xylene		
		4925	Methacrylonitrile		
		4940	Methyl acetate		
		4950	Methyl bromide (Bromomethane)		
		4960	Methyl chloride (Chloromethane)		
		4990	Methyl methacrylate		
		5000	Methyl tert-butyl ether (MTBE)		
		4965	Methylcyclohexane		
		4975	Methylene chloride (Dichloromethane)		
		5245	m-Xylene		
		5005	Naphthalene		
		4425	n-Butyl alcohol (1-Butanol, n-Butanol)		
		4435	n-Butylbenzene		
		4825	n-Heptane		
		4855	n-Hexane		
		6575	Nonanal		
		5090	n-Propylbenzene		
		5250	o-Xylene		
		5035	Pentachloroethane		
		5080	Propionitrile (Ethyl cyanide)		
		9579	Propylene oxide		
		5255	p-Xylene		
		9607	sec-Butyl Alcohol (2-Butanol)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4440	sec-Butylbenzene		
		5100	Styrene		
		4370	T-amylmethylether (TAME)		
		4420	tert-Butyl alcohol		
		4445	tert-Butylbenzene		
		5115	Tetrachloroethylene (Perchloroethylene)		
		5120	Tetrahydrofuran (THF)		
		9574	Tetrahydrothiophene		
		5140	Toluene		
		4027	Total BTEX		
		5205	Total trihalomethanes		
		4700	trans-1,2-Dichloroethylene		
		4685	trans-1,3-Dichloropropylene		
		4605	trans-1,4-Dichloro-2-butene		
		5170	Trichloroethene (Trichloroethylene)		
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
		5225	Vinyl acetate		
		5235	Vinyl chloride		
		5237	Vinyl Fluoride		
		5260	Xylene (total)		
	EPA 8260C SIM			10307105	Volatile Organic Compounds by GC/MS-SIM
		5110	1,1,2,2-Tetrachloroethane		
		5165	1,1,2-Trichloroethane		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		9318	1,3-Butadiene		
		4675	1,3-Dichloropropene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4375	Benzene		
		4395	Bromodichloromethane		
		4575	Chlorodibromomethane		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4505	Chloroform		
		4680	cis-1,3-Dichloropropene		
		4835	Hexachlorobutadiene		
		4420	tert-Butyl alcohol		
		4685	trans-1,3-Dichloropropylene		
		5235	Vinyl chloride		
	EPA 8260D			10307127	Volatile Organic Compounds By GC/MS
		5105	1,1,1,2-Tetrachloroethane		
		5160	1,1,1-Trichloroethane		
		5110	1,1,2,2-Tetrachloroethane		
		5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		
		5165	1,1,2-Trichloroethane		
		4630	1,1-Dichloroethane		
		4640	1,1-Dichloroethylene		
		4670	1,1-Dichloropropene		
		5150	1,2,3-Trichlorobenzene		
		5180	1,2,3-Trichloropropane		
		5182	1,2,3-Trimethylbenzene		
		5155	1,2,4-Trichlorobenzene		
		5210	1,2,4-Trimethylbenzene		
		4570	1,2-Dibromo-3-chloropropane (DBCP)		
		4585	1,2-Dibromoethane (EDB, Ethylene dibromide)		
		4695	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon-114)		
		4697	1,2-Dichloro-1,1,2-trifluoroethane		
		4610	1,2-Dichlorobenzene		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		4655	1,2-Dichloropropane		
		6800	1,3,5-Trichlorobenzene		
		5215	1,3,5-Trimethylbenzene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4615	1,3-Dichlorobenzene		
		4660	1,3-Dichloropropane		
		4675	1,3-Dichloropropene		
		4620	1,4-Dichlorobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4510	1-Chlorohexane		
		5222	2,2-Dichloro-1,1,1-trifluoroethane (Freon 123)		
		4665	2,2-Dichloropropane		
		4410	2-Butanone (Methyl ethyl ketone, MEK)		
		4411	2-Chloro-1,1,1-trifluoroethane		
		4500	2-Chloroethyl vinyl ether		
		4535	2-Chlorotoluene		
		4860	2-Hexanone (MBK)		
		5020	2-Nitropropane		
		5045	2-Pentanone		
		4540	4-Chlorotoluene		
		4910	4-Isopropyltoluene (p-Cymene)		
		4995	4-Methyl-2-pentanone (MIBK)		
		4315	Acetone		
		4320	Acetonitrile		
		4325	Acrolein (Propenal)		
		4340	Acrylonitrile		
		4355	Allyl chloride (3-Chloropropene)		
		4375	Benzene		
		4385	Bromobenzene		
		4390	Bromochloromethane		
		4395	Bromodichloromethane		
		4400	Bromoform		
		4450	Carbon disulfide		
		4455	Carbon tetrachloride		
		4475	Chlorobenzene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4575	Chlorodibromomethane		
		4485	Chloroethane (Ethyl chloride)		
		4505	Chloroform		
		4525	Chloroprene (2-Chloro-1,3-butadiene)		
		4526	Chlorotrifluoroethene		
		4705	cis & trans-1,2-Dichloroethene		
		4645	cis-1,2-Dichloroethylene		
		4680	cis-1,3-Dichloropropene		
		4600	cis-1,4-Dichloro-2-butene		
		4555	Cyclohexane		
		4560	Cyclohexanone		
		4595	Dibromomethane (Methylene bromide)		
		4625	Dichlorodifluoromethane (Freon-12)		
		4627	Dichlorofluoromethane (Freon 21)		
		4725	Diethyl ether		
		9375	Di-isopropylether (DIPE)		
		4750	Ethanol		
		4755	Ethyl acetate		
		4760	Ethyl acrylate		
		4810	Ethyl methacrylate		
		4765	Ethylbenzene		
		4795	Ethylene oxide		
		4770	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)		
		4771	Fluorobenzene		
		4835	Hexachlorobutadiene		
		4870	Iodomethane (Methyl iodide)		
		4875	Isobutyl alcohol (2-Methyl-1-propanol)		
		4895	Isopropyl alcohol (2-Propanol, Isopropanol)		
		4900	Isopropylbenzene (Cumene)		
		5240	m+p-xylene		
		4925	Methacrylonitrile		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4940	Methyl acetate		
		4950	Methyl bromide (Bromomethane)		
		4960	Methyl chloride (Chloromethane)		
		4990	Methyl methacrylate		
		5000	Methyl tert-butyl ether (MTBE)		
		4965	Methylcyclohexane		
		4975	Methylene chloride (Dichloromethane)		
		5245	m-Xylene		
		5005	Naphthalene		
		4425	n-Butyl alcohol (1-Butanol, n-Butanol)		
		4435	n-Butylbenzene		
		4825	n-Heptane		
		4855	n-Hexane		
		6575	Nonanal		
		5090	n-Propylbenzene		
		5250	o-Xylene		
		5035	Pentachloroethane		
		5080	Propionitrile (Ethyl cyanide)		
		9579	Propylene oxide		
		5255	p-Xylene		
		9607	sec-Butyl Alcohol (2-Butanol)		
		4440	sec-Butylbenzene		
		5100	Styrene		
		4370	T-amylmethylether (TAME)		
		4420	tert-Butyl alcohol		
		4445	tert-Butylbenzene		
		5115	Tetrachloroethylene (Perchloroethylene)		
		5120	Tetrahydrofuran (THF)		
		9574	Tetrahydrothiophene		
		5140	Toluene		
		4027	Total BTEX		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5205	Total trihalomethanes		
		4700	trans-1,2-Dichloroethylene		
		4685	trans-1,3-Dichloropropylene		
		4605	trans-1,4-Dichloro-2-butene		
		5170	Trichloroethene (Trichloroethylene)		
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
		5225	Vinyl acetate		
		5235	Vinyl chloride		
		5260	Xylene (total)		
	EPA 8260D SIM			10307138	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry Selected Ion Monitoring (GC/MS SIM)
		5110	1,1,2,2-Tetrachloroethane		
		5165	1,1,2-Trichloroethane		
		4635	1,2-Dichloroethane (Ethylene dichloride)		
		9318	1,3-Butadiene		
		4675	1,3-Dichloropropene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		4375	Benzene		
		4395	Bromodichloromethane		
		4575	Chlorodibromomethane		
		4505	Chloroform		
		4680	cis-1,3-Dichloropropene		
		4835	Hexachlorobutadiene		
		4420	tert-Butyl alcohol		
		4685	trans-1,3-Dichloropropylene		
		5235	Vinyl chloride		
	EPA 8270C			10185805	Semivolatile Organic compounds by GC/MS
		6703	1,1'-Biphenyl (BZ-0)		
		6715	1,2,4,5-Tetrachlorobenzene		
		5155	1,2,4-Trichlorobenzene		
		4610	1,2-Dichlorobenzene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6220	1,2-Diphenylhydrazine		
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		4615	1,3-Dichlorobenzene		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4620	1,4-Dichlorobenzene		
		6165	1,4-Dinitrobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6420	1,4-Naphthoquinone		
		6630	1,4-Phenylenediamine		
		6630	1,4-Phenylenediamine		
		5790	1-Chloronaphthalene		
		6380	1-Methylnaphthalene		
		6425	1-Naphthylamine		
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether		
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether		
		6735	2,3,4,6-Tetrachlorophenol		
		6835	2,4,5-Trichlorophenol		
		6840	2,4,6-Trichlorophenol		
		6000	2,4-Dichlorophenol		
		6130	2,4-Dimethylphenol		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6005	2,6-Dichlorophenol		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		5515	2-Acetylaminofluorene		
		9322	2-Butoxyethanol		
		5795	2-Chloronaphthalene		
		5800	2-Chlorophenol		
		5866	2-Ethoxyethanol (cellosolve)		
		6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5145	2-Methylaniline (o-Toluidine)		
		6385	2-Methylnaphthalene		
		6400	2-Methylphenol (o-Cresol)		
		6430	2-Naphthylamine		
		6460	2-Nitroaniline		
		6490	2-Nitrophenol		
		5050	2-Picoline (2-Methylpyridine)		
		6412	3 & 4 Methylphenol		
		5945	3,3'-Dichlorobenzidine		
		6120	3,3'-Dimethylbenzidine		
		6355	3-Methylcholanthrene		
		6405	3-Methylphenol (m-Cresol)		
		6465	3-Nitroaniline		
		6365	4,4-Methylenebis(2-chloroaniline)		
		5540	4-Aminobiphenyl		
		5660	4-Bromophenyl phenyl ether (BDE-3)		
		5700	4-Chloro-3-methylphenol		
		5745	4-Chloroaniline		
		5825	4-Chlorophenyl phenylether		
		6105	4-Dimethyl aminoazobenzene		
		6410	4-Methylphenol (p-Cresol)		
		6470	4-Nitroaniline		
		6500	4-Nitrophenol		
		6510	4-Nitroquinoline 1-oxide		
		6570	5-Nitro-o-toluidine		
		6112	6-Methylchrysene		
		6115	7,12-Dimethylbenz(a) anthracene		
		6125	a-a-Dimethylphenethylamine		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5510	Acetophenone		
		4330	Acrylamide		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7005	Alachlor		
		4357	alpha-Methylstyrene		
		5545	Aniline		
		5555	Anthracene		
		5560	Aramite		
		7065	Atrazine		
		5562	Azobenzene		
		5570	Benzaldehyde		
		5567	Benzenethiol		
		5595	Benzidine		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5605	Benzo(e)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5610	Benzoic acid		
		5630	Benzyl alcohol		
		5760	bis(2-Chloroethoxy)methane		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		7180	Caprolactam		
		5680	Carbazole		
		7210	Carbofuran phenol		
		7260	Chlorobenzilate		
		5855	Chrysene		
		8906	Coelution - 3-Chlorophenol + 4-Chlorophenol		
		5862	Cresols, Total		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		7405	Diallate		
		9354	Dibenz(a, h) acridine		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5900	Dibenz(a, j) acridine		
		5895	Dibenz(a,h) anthracene		
		5890	Dibenzo(a,e) pyrene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		7475	Dimethoate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		6205	Diphenylamine		
		8625	Disulfoton		
		6260	Ethyl methanesulfonate		
		7580	Famphur		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		4835	Hexachlorobutadiene		
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6290	Hexachlorophene		
		6295	Hexachloropropene		
		6312	Indene		
		6315	Indeno(1,2,3-cd) pyrene		
		7725	Isodrin		
		6320	Isophorone		
		6325	Isosafrole		
		7740	Kepone		
		6345	Methapyrilene		
		6375	Methyl methanesulfonate		
		7825	Methyl parathion (Parathion, methyl)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5010	n, n-Dimethyl formamide		
		5005	Naphthalene		
		5875	n-Decane		
		6300	n-Hexadecane		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		
		6530	n-Nitrosodimethylamine		
		5025	n-Nitroso-di-n-butylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6550	n-Nitrosomethylethylamine		
		6555	n-Nitrosomorpholine		
		6560	n-Nitrosopiperidine		
		6565	n-Nitrosopyrrolidine		
		8290	o,o,o-Triethyl phosphorothioate		
		5550	o-Anisidine		
		5553	Octachlorostyrene		
		7955	Parathion, ethyl		
		6590	Pentachlorobenzene		
		5035	Pentachloroethane		
		6600	Pentachloronitrobenzene		
		6605	Pentachlorophenol		
		6608	Perylene		
		6610	Phenacetin		
		6615	Phenanthrene		
		6625	Phenol		
		7985	Phorate		
		6635	Phthalic acid		
		6640	Phthalic anhydride		
		6650	Pronamide (Kerb)		
		6665	Pyrene		
		5095	Pyridine		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6670	Quinoline		
		6685	Safrole		
		8155	Sulfotepp		
		8235	Thionazin (Zinophos)		
		8262	Tributyl phosphate		
		5200	Triethylamine		
		8310	tris-(2,3-Dibromopropyl) phosphate (tris-BP)		
	EPA 8270C SIM			10242407	Semivolatile Organic compounds by GC/MS Selective Ion Monitoring
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6380	1-Methylnaphthalene		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		6385	2-Methylnaphthalene		
		5945	3,3'-Dichlorobenzidine		
		5745	4-Chloroaniline		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5555	Anthracene		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5605	Benzo(e)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		5855	Chrysene		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5895	Dibenz(a,h) anthracene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6315	Indeno(1,2,3-cd) pyrene		
		5005	Naphthalene		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		
		6530	n-Nitrosodimethylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6605	Pentachlorophenol		
		6615	Phenanthrene		
		6665	Pyrene		
	EPA 8270D			10186002	Semivolatile Organic compounds by GC/MS
		6703	1,1'-Biphenyl (BZ-0)		
		6715	1,2,4,5-Tetrachlorobenzene		
		5155	1,2,4-Trichlorobenzene		
		4610	1,2-Dichlorobenzene		
		6220	1,2-Diphenylhydrazine		
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		4615	1,3-Dichlorobenzene		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4620	1,4-Dichlorobenzene		
		6165	1,4-Dinitrobenzene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6420	1,4-Naphthoquinone		
		6630	1,4-Phenylenediamine		
		6630	1,4-Phenylenediamine		
		5790	1-Chloronaphthalene		
		6380	1-Methylnaphthalene		
		6425	1-Naphthylamine		
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether		
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether		
		6735	2,3,4,6-Tetrachlorophenol		
		6835	2,4,5-Trichlorophenol		
		6840	2,4,6-Trichlorophenol		
		6000	2,4-Dichlorophenol		
		6130	2,4-Dimethylphenol		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6005	2,6-Dichlorophenol		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		5515	2-Acetylaminofluorene		
		5795	2-Chloronaphthalene		
		5800	2-Chlorophenol		
		6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)		
		5145	2-Methylaniline (o-Toluidine)		
		6385	2-Methylnaphthalene		
		6400	2-Methylphenol (o-Cresol)		
		6430	2-Naphthylamine		
		6460	2-Nitroaniline		
		6490	2-Nitrophenol		
		5050	2-Picoline (2-Methylpyridine)		
		6412	3 & 4 Methylphenol		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5945	3,3'-Dichlorobenzidine		
		6120	3,3'-Dimethylbenzidine		
		6355	3-Methylcholanthrene		
		6405	3-Methylphenol (m-Cresol)		
		6465	3-Nitroaniline		
		6365	4,4-Methylenebis(2-chloroaniline)		
		5540	4-Aminobiphenyl		
		5660	4-Bromophenyl phenyl ether (BDE-3)		
		5700	4-Chloro-3-methylphenol		
		5745	4-Chloroaniline		
		5825	4-Chlorophenyl phenylether		
		6105	4-Dimethyl aminoazobenzene		
		6410	4-Methylphenol (p-Cresol)		
		6470	4-Nitroaniline		
		6500	4-Nitrophenol		
		6510	4-Nitroquinoline 1-oxide		
		6570	5-Nitro-o-toluidine		
		6112	6-Methylchrysene		
		6115	7,12-Dimethylbenz(a) anthracene		
		6125	a-a-Dimethylphenethylamine		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5510	Acetophenone		
		4330	Acrylamide		
		7005	Alachlor		
		4357	alpha-Methylstyrene		
		5545	Aniline		
		5555	Anthracene		
		5560	Aramite		
		7065	Atrazine		
		5562	Azobenzene		
		5570	Benzaldehyde		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5595	Benzidine		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5605	Benzo(e)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5610	Benzoic acid		
		5630	Benzyl alcohol		
		5760	bis(2-Chloroethoxy)methane		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		7180	Caprolactam		
		5680	Carbazole		
		7210	Carbofuran phenol		
		7260	Chlorobenzilate		
		5855	Chrysene		
		8906	Coelution - 3-Chlorophenol + 4-Chlorophenol		
		5862	Cresols, Total		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		7405	Diallate		
		9354	Dibenz(a, h) acridine		
		5900	Dibenz(a, j) acridine		
		5895	Dibenz(a,h) anthracene		
		5890	Dibenzo(a,e) pyrene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		7475	Dimethoate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		6205	Diphenylamine		
		8625	Disulfoton		
		6260	Ethyl methanesulfonate		
		7580	Famphur		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		4835	Hexachlorobutadiene		
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6290	Hexachlorophene		
		6295	Hexachloropropene		
		6312	Indene		
		6315	Indeno(1,2,3-cd) pyrene		
		7725	Isodrin		
		6320	Isophorone		
		6325	Isosafrole		
		7740	Kepone		
		6345	Methapyrilene		
		6375	Methyl methanesulfonate		
		7825	Methyl parathion (Parathion, methyl)		
		5010	n, n-Dimethyl formamide		
		5005	Naphthalene		
		5875	n-Decane		
		6300	n-Hexadecane		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		
		6530	n-Nitrosodimethylamine		
		5025	n-Nitroso-di-n-butylamine		
		6545	n-Nitrosodi-n-propylamine		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6535	n-Nitrosodiphenylamine		
		6550	n-Nitrosomethylethylamine		
		6555	n-Nitrosomorpholine		
		6560	n-Nitrosopiperidine		
		6565	n-Nitrosopyrrolidine		
		8290	o,o,o-Triethyl phosphorothioate		
		5550	o-Anisidine		
		5553	Octachlorostyrene		
		7955	Parathion, ethyl		
		6590	Pentachlorobenzene		
		5035	Pentachloroethane		
		6600	Pentachloronitrobenzene		
		6605	Pentachlorophenol		
		6608	Perylene		
		6610	Phenacetin		
		6615	Phenanthrene		
		6625	Phenol		
		7985	Phorate		
		6635	Phthalic acid		
		6640	Phthalic anhydride		
		6650	Pronamide (Kerb)		
		6665	Pyrene		
		5095	Pyridine		
		6670	Quinoline		
		6685	Safrole		
		8155	Sulfotepp		
		8235	Thionazin (Zinophos)		
		8262	Tributyl phosphate		
		5200	Triethylamine		
		8310	tris-(2,3-Dibromopropyl) phosphate (tris-BP)		
	EPA 8270D SIM			10242509	Semivolatile Organic compounds by GC/MS Selective Ion Monitoring

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6380	1-Methylnaphthalene		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		6385	2-Methylnaphthalene		
		5945	3,3'-Dichlorobenzidine		
		5745	4-Chloroaniline		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5555	Anthracene		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		5855	Chrysene		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		5895	Dibenz(a,h) anthracene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		6285	Hexachlorocyclopentadiene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		4840	Hexachloroethane		
		6315	Indeno(1,2,3-cd) pyrene		
		5005	Naphthalene		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		
		6530	n-Nitrosodimethylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6605	Pentachlorophenol		
		6615	Phenanthrene		
		6665	Pyrene		
	EPA 8270E			10242543	Semivolatile Organic compounds by GC/MS
		6703	1,1'-Biphenyl (BZ-0)		
		6715	1,2,4,5-Tetrachlorobenzene		
		5155	1,2,4-Trichlorobenzene		
		4610	1,2-Dichlorobenzene		
		6220	1,2-Diphenylhydrazine		
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		4615	1,3-Dichlorobenzene		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4620	1,4-Dichlorobenzene		
		6165	1,4-Dinitrobenzene		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6420	1,4-Naphthoquinone		
		6630	1,4-Phenylenediamine		
		5790	1-Chloronaphthalene		
		6380	1-Methylnaphthalene		
		6425	1-Naphthylamine		
		4659	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether		
		6735	2,3,4,6-Tetrachlorophenol		
		6835	2,4,5-Trichlorophenol		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6840	2,4,6-Trichlorophenol		
		6000	2,4-Dichlorophenol		
		6130	2,4-Dimethylphenol		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6005	2,6-Dichlorophenol		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		5515	2-Acetylaminofluorene		
		5795	2-Chloronaphthalene		
		5800	2-Chlorophenol		
		5866	2-Ethoxyethanol (cellosolve)		
		6360	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)		
		5145	2-Methylaniline (o-Toluidine)		
		6385	2-Methylnaphthalene		
		6400	2-Methylphenol (o-Cresol)		
		6430	2-Naphthylamine		
		6460	2-Nitroaniline		
		6490	2-Nitrophenol		
		5050	2-Picoline (2-Methylpyridine)		
		6412	3 & 4 Methylphenol		
		5945	3,3'-Dichlorobenzidine		
		6120	3,3'-Dimethylbenzidine		
		6355	3-Methylcholanthrene		
		6405	3-Methylphenol (m-Cresol)		
		6465	3-Nitroaniline		
		6365	4,4-Methylenebis(2-chloroaniline)		
		5540	4-Aminobiphenyl		
		5660	4-Bromophenyl phenyl ether (BDE-3)		
		5700	4-Chloro-3-methylphenol		
		5745	4-Chloroaniline		
		5825	4-Chlorophenyl phenylether		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6105	4-Dimethyl aminoazobenzene		
		6410	4-Methylphenol (p-Cresol)		
		6470	4-Nitroaniline		
		6500	4-Nitrophenol		
		6510	4-Nitroquinoline 1-oxide		
		6570	5-Nitro-o-toluidine		
		6112	6-Methylchrysene		
		6115	7,12-Dimethylbenz(a) anthracene		
		6125	a-a-Dimethylphenethylamine		
		5500	Acenaphthene		
		5505	Acenaphthylene		
		5510	Acetophenone		
		4330	Acrylamide		
		7005	Alachlor		
		4357	alpha-Methylstyrene		
		5545	Aniline		
		5555	Anthracene		
		5560	Aramite		
		7065	Atrazine		
		5562	Azobenzene		
		5570	Benzaldehyde		
		5567	Benzenethiol		
		5595	Benzidine		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5605	Benzo(e)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5610	Benzoic acid		
		5630	Benzyl alcohol		
		5760	bis(2-Chloroethoxy)methane		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		7180	Caprolactam		
		5680	Carbazole		
		7210	Carbofuran phenol		
		7260	Chlorobenzilate		
		5855	Chrysene		
		8906	Coelution - 3-Chlorophenol + 4-Chlorophenol		
		5862	Cresols, Total		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		7405	Diallate		
		9354	Dibenz(a, h) acridine		
		5900	Dibenz(a, j) acridine		
		5895	Dibenz(a,h) anthracene		
		5890	Dibenzo(a,e) pyrene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		7475	Dimethoate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		6205	Diphenylamine		
		8625	Disulfoton		
		6260	Ethyl methanesulfonate		
		7580	Famphur		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		4835	Hexachlorobutadiene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6290	Hexachlorophene		
		6295	Hexachloropropene		
		6312	Indene		
		6315	Indeno(1,2,3-cd) pyrene		
		7725	Isodrin		
		6320	Isophorone		
		6325	Isosafrole		
		7740	Kepone		
		6345	Methapyrilene		
		6375	Methyl methanesulfonate		
		7825	Methyl parathion (Parathion, methyl)		
		5010	n, n-Dimethyl formamide		
		5005	Naphthalene		
		5875	n-Decane		
		6300	n-Hexadecane		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		
		6530	n-Nitrosodimethylamine		
		5025	n-Nitroso-di-n-butylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6550	n-Nitrosomethylethylamine		
		6555	n-Nitrosomorpholine		
		6560	n-Nitrosopiperidine		
		6565	n-Nitrosopyrrolidine		
		8290	o,o,o-Triethyl phosphorothioate		
		5550	o-Anisidine		
		5553	Octachlorostyrene		
		7955	Parathion, ethyl		
		6590	Pentachlorobenzene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5035	Pentachloroethane		
		6600	Pentachloronitrobenzene		
		6605	Pentachlorophenol		
		6608	Perylene		
		6610	Phenacetin		
		6615	Phenanthrene		
		6625	Phenol		
		7985	Phorate		
		6635	Phthalic acid		
		6640	Phthalic anhydride		
		6650	Pronamide (Kerb)		
		6665	Pyrene		
		5095	Pyridine		
		6670	Quinoline		
		6685	Safrole		
		8155	Sulfotepp		
		8235	Thionazin (Zinophos)		
		8262	Tributyl phosphate		
		5200	Triethylamine		
		8310	tris-(2,3-Dibromopropyl) phosphate (tris-BP)		
	EPA 8270E SIM			10242565	Semivolatile Organic compounds by Gas Chromatography/Mass Spectrometry (GC/MS-SIM)
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		4735	1,4-Dioxane (1,4- Diethyleneoxide)		
		6380	1-Methylnaphthalene		
		6175	2,4-Dinitrophenol		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		6385	2-Methylnaphthalene		
		5945	3,3'-Dichlorobenzidine		
		5745	4-Chloroaniline		
		5500	Acenaphthene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5505	Acenaphthylene		
		5555	Anthracene		
		5575	Benzo(a)anthracene		
		5580	Benzo(a)pyrene		
		5605	Benzo(e)pyrene		
		5590	Benzo(g,h,i)perylene		
		5600	Benzo(k)fluoranthene		
		5585	Benzo[b]fluoranthene		
		5765	bis(2-Chloroethyl) ether		
		5670	Butyl benzyl phthalate		
		5855	Chrysene		
		6065	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)		
		5895	Dibenz(a,h) anthracene		
		5905	Dibenzofuran		
		6070	Diethyl phthalate		
		6135	Dimethyl phthalate		
		5925	Di-n-butyl phthalate		
		6200	Di-n-octyl phthalate		
		6265	Fluoranthene		
		6270	Fluorene		
		6275	Hexachlorobenzene		
		6285	Hexachlorocyclopentadiene		
		4840	Hexachloroethane		
		6315	Indeno(1,2,3-cd) pyrene		
		5005	Naphthalene		
		5015	Nitrobenzene		
		6525	n-Nitrosodiethylamine		
		6530	n-Nitrosodimethylamine		
		6545	n-Nitrosodi-n-propylamine		
		6535	n-Nitrosodiphenylamine		
		6605	Pentachlorophenol		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		6615	Phenanthrene		
		6665	Pyrene		
	EPA 8321A			10189001	Solvent Extractable non-volatile compounds by HPLC/TS/MS
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		6014	2,3-Dinitrotoluene		
		8655	2,4,5-T		
		9651	2,4,6-Trinitrotoluene (2,4,6-TNT)		
		8545	2,4-D		
		8560	2,4-DB		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)		
		9507	2-Nitrotoluene		
		9510	3-Nitrotoluene		
		9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)		
		9513	4-Nitrotoluene		
		7010	Aldicarb (Temik)		
		7040	Aminocarb		
		7195	Carbaryl (Sevin)		
		7205	Carbofuran (Furaden)		
		7275	Chloropropham		
		8555	Dalapon		
		8595	Dicamba		
		8605	Dichloroprop (Dichlorprop)		
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		7505	Diuron		
		7610	Fenuron		
		7630	Fluometuron		
		7765	Linuron (Lorox)		
		7775	MCPA		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		7780	MCPP		
		7800	Methiocarb (Mesurol)		
		7805	Methomyl (Lannate)		
		6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)		
		7855	Mexacarbate		
		7885	Monuron		
		7915	Neburon		
		5015	Nitrobenzene		
		6485	Nitroglycerin		
		9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)		
		6605	Pentachlorophenol		
		9558	Pentaerythritoltetranitrate (PETN)		
		8075	Propham		
		8080	Propoxur (Baygon)		
		9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		
		8120	Siduron		
		8650	Silvex (2,4,5-TP)		
		9577	Thiodiglycol		
	EPA 8321B			10189205	Solvent Extractable non-volatile compounds by HPLC/TS/MS
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		6014	2,3-Dinitrotoluene		
		8655	2,4,5-T		
		9651	2,4,6-Trinitrotoluene (2,4,6-TNT)		
		8545	2,4-D		
		8560	2,4-DB		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)		
		9507	2-Nitrotoluene		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		9510	3-Nitrotoluene		
		9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)		
		9513	4-Nitrotoluene		
		7010	Aldicarb (Temik)		
		7040	Aminocarb		
		7195	Carbaryl (Sevin)		
		7205	Carbofuran (Furaden)		
		7275	Chloropropham		
		8555	Dalapon		
		8595	Dicamba		
		8605	Dichloroprop (Dichlorprop)		
		8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)		
		7505	Diuron		
		7610	Fenuron		
		7630	Fluometuron		
		7765	Linuron (Lorox)		
		7775	MCPA		
		7780	MCPP		
		7800	Methiocarb (Mesurol)		
		7805	Methomyl (Lannate)		
		6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)		
		7855	Mexacarbate		
		7885	Monuron		
		7915	Neburon		
		5015	Nitrobenzene		
		6485	Nitroglycerin		
		9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)		
		6605	Pentachlorophenol		
		9558	Pentaerythritoltetranitrate (PETN)		
		8075	Propham		

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Arvada, CO 80002

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		8080	Propoxur (Baygon)		
		9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		
		8120	Siduron		
		8650	Silvex (2,4,5-TP)		
	EPA 8330A			10190008	Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		6160	1,3-Dinitrobenzene (1,3-DNB)		
		9651	2,4,6-Trinitrotoluene (2,4,6-TNT)		
		5882	2,4-diamino-6-nitrotoluene		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6181	2,6-diamino-4-nitrotoluene		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)		
		9507	2-Nitrotoluene		
		9510	3-Nitrotoluene		
		9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)		
		9513	4-Nitrotoluene		
		7046	Ammonium Picrate		
		6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)		
		5015	Nitrobenzene		
		6485	Nitroglycerin		
		9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)		
		9558	Pentaerythritoltetranitrate (PETN)		
		1899	Picric Acid (2,4,6-Trinitrophenol)		
		9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		
	EPA 8330B			10308006	Nitroaromatics, Nitramines and Nitrate Esters by High Performance Liquid Chromatography (HPLC)
		6885	1,3,5-Trinitrobenzene (1,3,5-TNB)		
		6160	1,3-Dinitrobenzene (1,3-DNB)		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		9651	2,4,6-Trinitrotoluene (2,4,6-TNT)		
		5882	2,4-diamino-6-nitrotoluene		
		6185	2,4-Dinitrotoluene (2,4-DNT)		
		6181	2,6-diamino-4-nitrotoluene		
		6190	2,6-Dinitrotoluene (2,6-DNT)		
		9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)		
		9507	2-Nitrotoluene		
		6150	3,5-Dinitroaniline		
		9510	3-Nitrotoluene		
		9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)		
		9513	4-Nitrotoluene		
		7046	Ammonium Picrate		
		6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)		
		5015	Nitrobenzene		
		6485	Nitroglycerin		
		9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)		
		9558	Pentaerythritoltetranitrate (PETN)		
		1899	Picric Acid (2,4,6-Trinitrophenol)		
		9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		
	EPA 9012A			10193405	Total and Amenable Cyanide (automated colorimetric with off-line distillation)
		1645	Total cyanide		
	EPA 9012B			10243206	Total and Amenable Cyanide (automated colorimetric with off-line distillation)
		1645	Total cyanide		
	EPA 9030B			10195605	Acid-Soluble and Acid-Insoluble sulfides: Distillation
		2005	Sulfide		
	EPA 9034			10196006	Titrimetric Procedure for Acid-Soluble and Acid-Insoluble Sulfides
		2005	Sulfide		
	EPA 9045C			10198400	Soil and Waste pH

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1900	pH		
	EPA 9045D			10244607	Soil and Waste pH
		1900	pH		
	EPA 9050A			10198808	Specific Conductance
		1610	Conductivity		
	EPA 9056			10199209	Determination of Inorganic Anions by Ion Chromatography
		1540	Bromide		
		1575	Chloride		
		1730	Fluoride		
		1805	Nitrate		
		1835	Nitrite		
		1870	Orthophosphate as P		
		2000	Sulfate		
		1825	Total nitrate+nitrite		
	EPA 9056A			10199607	Determination of Inorganic Anions by Ion Chromatography
		1540	Bromide		
		1575	Chloride		
		1730	Fluoride		
		1805	Nitrate		
		1820	Nitrate plus Nitrite as N		
		1835	Nitrite		
		1870	Orthophosphate as P		
		2000	Sulfate		
	EPA 9060			10200201	Total Organic Carbon
		1813	Total Inorganic Carbon		
		2040	Total organic carbon		
	EPA 9060A			10244823	Total Organic Carbon
		1813	Total Inorganic Carbon		
		2040	Total organic carbon		
	EPA 9095A			10204203	Paint Filter Liquids Test
		1434	Paint Filter Liquids Test		
	NWTPH-Dx			90018409	Oregon DEQ TPH Diesel Range

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		9369	Diesel range organics (DRO)		
		9499	Motor Oil		
		8641	Percent Moisture		
		9506	Residual Range Organics (RRO)		
		2050	Total Petroleum Hydrocarbons (TPH)		
	NWTPH-Gx			90018603	Oregon DEQ TPH Gasoline Range Organics by GC/FID-PID Purge & Trap
		9408	Gasoline range organics (GRO)		
	SM 2320 B-2011 online			20045618	Alkalinity as CaCO3
		1505	Alkalinity as CaCO3		
	SM 2320 B-97 1997			20045607	Alkalinity by Titration Method
		1505	Alkalinity as CaCO3		
	SM 2510 B-2011			20048617	Conductivity by Probe
		1610	Conductivity		
	SM 2510 B-97 1997			20048606	Conductivity by Probe
		1610	Conductivity		
	SM 4500-CN C-1999			20095652	Cyanide (Total) after Distillation
		1635	Cyanide		
	SM 4500-CN E-1999			20096417	Cyanide by Colorimetric Method
		1645	Total cyanide		
	SM 4500-CN E-2011 2011			20096428	Cyanide by Colormetric Method
		1645	Total cyanide		
	SM 4500-CN^- C-97 online			20095607	Cyanide by Total Cyanide after Distillation
		1645	Total cyanide		
	SM 4500-NO2 B-2011 online			20113115	Nitrite as N
		1840	Nitrite as N		

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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
	SM 4500-NO_2^- B-2000 online			20113104	Nitrite by Colorimetric Determination
		1835	Nitrite		
		1840	Nitrite as N		

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