

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Jackson Landfill

JOB NUMBER

280-170638-1

Eurofins Denver

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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Table of Contents

Cover Page	1
Table of Contents	3
Definitions	4
Case Narrative	6
Detection Summary	9
Method Summary	12
Sample Summary	13
Client Sample Results	14
Surrogate Summary	23
QC Sample Results	24
QC Association	40
Chronicle	44
Certification Summary	46
Chain of Custody	47
Receipt Checklists	48

Definitions/Glossary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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.
S1+	Surrogate recovery exceeds control limits, high 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.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
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.
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.
α	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)

Eurofins Denver

Definitions/Glossary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

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Case Narrative

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Job ID: 280-170638-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Jackson County, CO

Project: Jackson Landfill

Report Number: 280-170638-1

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.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Receipt

The samples were received on 12/21/2022 9:10 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 0.6° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-1 (280-170638-1), MW-2 (280-170638-2), MW-3 (280-170638-3), FIELD BLANK (280-170638-4) and TRIP BLANK (280-170638-5) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/22/2022.

The continuing calibration verification (CCV) associated with batch 280-597554 recovered above the upper control limit for Iodomethane (36 Limit 35). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

1,2-Dichloroethane-d4 (Surr) and Dibromofluoromethane (Surr) failed the surrogate recovery criteria high for MW-1 (280-170638-1).
1,2-Dichloroethane-d4 (Surr) and Dibromofluoromethane (Surr) failed the surrogate recovery criteria high for MW-2 (280-170638-2).
1,2-Dichloroethane-d4 (Surr) and Dibromofluoromethane (Surr) failed the surrogate recovery criteria high for MW-3 (280-170638-3). Refer to the QC report for details.

Carbon tetrachloride failed the recovery criteria high for LCSD 280-597554/4. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP)

Samples MW-1 (280-170638-1), MW-2 (280-170638-2) and MW-3 (280-170638-3) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 01/03/2023 and analyzed on 01/04/2023.

Calcium was detected in method blank MB 280-598102/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Case Narrative

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Job ID: 280-170638-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Samples MW-1 (280-170638-1), MW-2 (280-170638-2) and MW-3 (280-170638-3) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 6020A. The samples were prepared on 01/03/2023 and analyzed on 01/03/2023 and 01/04/2023.

Chromium was detected in method blank MB 280-598103/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Antimony, Barium, Copper, Nickel, and Zinc failed the recovery criteria low for the MS of sample MW-3MS (280-170638-3) in batch 280-598520.

Antimony, Barium, Chromium, Cobalt, Copper, Nickel, Vanadium and Zinc failed the recovery criteria low for the MSD of sample MW-3MSD (280-170638-3) in batch 280-598520.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY

Samples MW-1 (280-170638-1), MW-2 (280-170638-2) and MW-3 (280-170638-3) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 12/28/2022.

Bicarbonate Alkalinity as CaCO₃ and Total Alkalinity as CaCO₃ were detected in method blank MB 280-598011/32 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Bicarbonate Alkalinity as CaCO₃ was detected in method blank MB 280-598011/6 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. Total Alkalinity as CaCO₃ was detected in method blank MB 280-598011/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Samples MW-1 (280-170638-1), MW-2 (280-170638-2) and MW-3 (280-170638-3) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 12/28/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)

Samples MW-1 (280-170638-1), MW-2 (280-170638-2) and MW-3 (280-170638-3) were analyzed for anions (28 days) in accordance with EPA Method 300.0 (28 Days). The samples were analyzed on 12/21/2022, 12/22/2022 and 12/27/2022.

Chloride failed the recovery criteria high for the MS of sample 280-170668-1 in batch 280-597754.

Chloride and Sulfate failed the recovery criteria high for the MSD of sample 280-170668-1 in batch 280-597754.

Sample MW-3 (280-170638-3)[2X] 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.

ANIONS (48 HOURS)

Samples MW-1 (280-170638-1), MW-2 (280-170638-2) and MW-3 (280-170638-3) were analyzed for anions (48 hours) in accordance with EPA Method 300.0 (48 Hours). The samples were analyzed on 12/21/2022, 12/22/2022 and 12/29/2022.

Reanalysis of the following samples were performed outside of the analytical holding time due to prior quality control failures for nitrite :

Case Narrative

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Job ID: 280-170638-1 (Continued)

Laboratory: Eurofins Denver (Continued)

MW-1 (280-170638-1), MW-2 (280-170638-2), MW-3 (280-170638-3), (280-170638-B-2 DU), (280-170638-B-2 MS) and (280-170638-B-2 MSD).

Nitrite as N failed the recovery criteria low for the MS of sample MW-2MS (280-170638-2) in batch 280-597935.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE

Samples MW-1 (280-170638-1), MW-2 (280-170638-2) and MW-3 (280-170638-3) were analyzed for Cation Anion Balance in accordance with Cation Anion Balance. The samples were analyzed on 01/05/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Samples MW-1 (280-170638-1), MW-2 (280-170638-2) and MW-3 (280-170638-3) were analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 12/30/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON

Samples MW-1 (280-170638-1), MW-2 (280-170638-2) and MW-3 (280-170638-3) were analyzed for total organic carbon in accordance with SM20 5310B. The samples were analyzed on 01/04/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Client Sample ID: MW-1

Lab Sample ID: 280-170638-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	44	B	0.20	0.024	mg/L	1		6010C	Total/NA
Magnesium	25		0.20	0.0042	mg/L	1		6010C	Total/NA
Potassium	4.3		3.0	0.24	mg/L	1		6010C	Total/NA
Sodium	27		1.0	0.097	mg/L	1		6010C	Total/NA
Arsenic	0.0030	J	0.0050	0.00033	mg/L	1		6020A	Total/NA
Barium	0.37		0.0010	0.00029	mg/L	1		6020A	Total/NA
Beryllium	0.00084	J	0.0010	0.000080	mg/L	1		6020A	Total/NA
Cadmium	0.00039	J	0.0010	0.00027	mg/L	1		6020A	Total/NA
Chromium	0.087	B	0.0020	0.00050	mg/L	1		6020A	Total/NA
Cobalt	0.028		0.0010	0.000092	mg/L	1		6020A	Total/NA
Copper	0.064		0.0020	0.00056	mg/L	1		6020A	Total/NA
Lead	0.016		0.0010	0.00018	mg/L	1		6020A	Total/NA
Nickel	0.038		0.0020	0.00030	mg/L	1		6020A	Total/NA
Selenium	0.016		0.0050	0.00037	mg/L	1		6020A	Total/NA
Silver	0.00011	J	0.0050	0.000033	mg/L	1		6020A	Total/NA
Thallium	0.00051	J	0.0010	0.000089	mg/L	1		6020A	Total/NA
Vanadium	0.13		0.0050	0.0012	mg/L	1		6020A	Total/NA
Zinc	0.16		0.010	0.0020	mg/L	1		6020A	Total/NA
Chloride	10		5.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.10	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrite as N	1.4	H	0.50	0.049	mg/L	1		300.0	Total/NA
Sulfate	48		20	1.0	mg/L	1		300.0	Total/NA
Total Anions	4.7				meq/L	1		SM 1030E	Total/NA
Total Cations	5.5				meq/L	1		SM 1030E	Total/NA
Anion/Cation Balance	8.3				%	1		SM 1030E	Total/NA
Total Alkalinity as CaCO3	170	B	10	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	170	B	10	3.1	mg/L	1		SM 2320B	Total/NA
Specific Conductance	450		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Total Organic Carbon - Average	1.1		1.0	0.35	mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 280-170638-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	45	B	0.20	0.024	mg/L	1		6010C	Total/NA
Magnesium	19		0.20	0.0042	mg/L	1		6010C	Total/NA
Potassium	2.2	J	3.0	0.24	mg/L	1		6010C	Total/NA
Sodium	18		1.0	0.097	mg/L	1		6010C	Total/NA
Arsenic	0.0033	J	0.0050	0.00033	mg/L	1		6020A	Total/NA
Barium	0.38		0.0010	0.00029	mg/L	1		6020A	Total/NA
Beryllium	0.0012		0.0010	0.000080	mg/L	1		6020A	Total/NA
Cadmium	0.00049	J	0.0010	0.00027	mg/L	1		6020A	Total/NA
Chromium	0.078	B	0.0020	0.00050	mg/L	1		6020A	Total/NA
Cobalt	0.033		0.0010	0.000092	mg/L	1		6020A	Total/NA
Copper	0.065		0.0020	0.00056	mg/L	1		6020A	Total/NA
Lead	0.018		0.0010	0.00018	mg/L	1		6020A	Total/NA
Nickel	0.040		0.0020	0.00030	mg/L	1		6020A	Total/NA
Selenium	0.0085		0.0050	0.00037	mg/L	1		6020A	Total/NA
Silver	0.00011	J	0.0050	0.000033	mg/L	1		6020A	Total/NA
Thallium	0.00046	J	0.0010	0.000089	mg/L	1		6020A	Total/NA
Vanadium	0.12		0.0050	0.0012	mg/L	1		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Client Sample ID: MW-2 (Continued)

Lab Sample ID: 280-170638-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.17		0.010	0.0020	mg/L	1		6020A	Total/NA
Chloride	8.0	F1	5.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.32	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrite as N	1.5	H F1	0.50	0.049	mg/L	1		300.0	Total/NA
Sulfate	24	F1	20	1.0	mg/L	1		300.0	Total/NA
Total Anions	4.1				meq/L	1		SM 1030E	Total/NA
Total Cations	4.6				meq/L	1		SM 1030E	Total/NA
Anion/Cation Balance	5.7				%	1		SM 1030E	Total/NA
Total Alkalinity as CaCO3	170	B	10	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	170	B	10	3.1	mg/L	1		SM 2320B	Total/NA
Specific Conductance	390		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	8.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Total Organic Carbon - Average	1.2		1.0	0.35	mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 280-170638-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	140	B	0.20	0.024	mg/L	1		6010C	Total/NA
Magnesium	55		0.20	0.0042	mg/L	1		6010C	Total/NA
Potassium	3.3		3.0	0.24	mg/L	1		6010C	Total/NA
Sodium	14		1.0	0.097	mg/L	1		6010C	Total/NA
Arsenic	0.0085		0.0050	0.00033	mg/L	1		6020A	Total/NA
Barium	0.88		0.0010	0.00029	mg/L	1		6020A	Total/NA
Beryllium	0.0058		0.0010	0.000080	mg/L	1		6020A	Total/NA
Cadmium	0.0017		0.0010	0.00027	mg/L	1		6020A	Total/NA
Chromium	0.28	B	0.0020	0.00050	mg/L	1		6020A	Total/NA
Cobalt	0.12	F1	0.0010	0.000092	mg/L	1		6020A	Total/NA
Copper	0.25		0.0020	0.00056	mg/L	1		6020A	Total/NA
Lead	0.059		0.0010	0.00018	mg/L	1		6020A	Total/NA
Nickel	0.15	F1	0.0020	0.00030	mg/L	1		6020A	Total/NA
Selenium	0.0042	J	0.0050	0.00037	mg/L	1		6020A	Total/NA
Silver	0.00052	J	0.0050	0.000033	mg/L	1		6020A	Total/NA
Thallium	0.0019		0.0010	0.000089	mg/L	1		6020A	Total/NA
Vanadium	0.45		0.0050	0.0012	mg/L	1		6020A	Total/NA
Zinc	0.72		0.010	0.0020	mg/L	1		6020A	Total/NA
Chloride	140		10	2.0	mg/L	2		300.0	Total/NA
Nitrate as N	1.5		0.50	0.090	mg/L	1		300.0	Total/NA
Nitrite as N	2.3	H	0.50	0.049	mg/L	1		300.0	Total/NA
Sulfate	12	J F1	20	1.0	mg/L	1		300.0	Total/NA
Total Anions	10				meq/L	1		SM 1030E	Total/NA
Total Cations	12				meq/L	1		SM 1030E	Total/NA
Anion/Cation Balance	9.4				%	1		SM 1030E	Total/NA
Total Alkalinity as CaCO3	290	B	10	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	290	B	10	3.1	mg/L	1		SM 2320B	Total/NA
Specific Conductance	980		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Total Organic Carbon - Average	2.0		1.0	0.35	mg/L	1		SM 5310B	Total/NA

Client Sample ID: FIELD BLANK

Lab Sample ID: 280-170638-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-170638-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
6010C	Metals (ICP)	SW846	EET DEN
6020A	Metals (ICP/MS)	SW846	EET DEN
300.0	Anions, Ion Chromatography	MCAWW	EET DEN
SM 1030E	Cation Anion Balance	SM	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
3010A	Preparation, Total Metals	SW846	EET DEN
3020A	Preparation, Total Metals	SW846	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

Sample Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-170638-1	MW-1	Water	12/20/22 12:20	12/21/22 09:10
280-170638-2	MW-2	Water	12/20/22 13:05	12/21/22 09:10
280-170638-3	MW-3	Water	12/20/22 14:00	12/21/22 09:10
280-170638-4	FIELD BLANK	Water	12/20/22 13:30	12/21/22 09:10
280-170638-5	TRIP BLANK	Water	12/20/22 00:00	12/21/22 09:10

Client Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Client Sample ID: MW-1
Date Collected: 12/20/22 12:20
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		15	6.6	ug/L			12/22/22 15:38	1
Acrylonitrile	ND		20	4.5	ug/L			12/22/22 15:38	1
Benzene	ND		1.0	0.31	ug/L			12/22/22 15:38	1
Bromochloromethane	ND		1.0	0.40	ug/L			12/22/22 15:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/22 15:38	1
Bromoform	ND		2.0	1.2	ug/L			12/22/22 15:38	1
Methyl bromide	ND		5.0	2.4	ug/L			12/22/22 15:38	1
2-Butanone (MEK)	ND		15	5.9	ug/L			12/22/22 15:38	1
Carbon disulfide	ND		2.0	0.63	ug/L			12/22/22 15:38	1
Carbon tetrachloride	ND	+	1.0	0.57	ug/L			12/22/22 15:38	1
Chlorobenzene	ND		1.0	0.42	ug/L			12/22/22 15:38	1
Dibromochloromethane	ND		2.0	0.62	ug/L			12/22/22 15:38	1
Chloroethane	ND		4.0	1.4	ug/L			12/22/22 15:38	1
Chloroform	ND		1.0	0.36	ug/L			12/22/22 15:38	1
Chloromethane	ND		2.0	0.75	ug/L			12/22/22 15:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			12/22/22 15:38	1
Methylene bromide	ND		1.0	0.34	ug/L			12/22/22 15:38	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			12/22/22 15:38	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			12/22/22 15:38	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			12/22/22 15:38	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			12/22/22 15:38	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			12/22/22 15:38	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			12/22/22 15:38	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			12/22/22 15:38	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			12/22/22 15:38	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			12/22/22 15:38	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			12/22/22 15:38	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			12/22/22 15:38	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/22/22 15:38	1
2-Hexanone	ND		5.0	1.7	ug/L			12/22/22 15:38	1
Iodomethane	ND		5.0	2.6	ug/L			12/22/22 15:38	1
Methylene Chloride	ND		2.0	0.94	ug/L			12/22/22 15:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			12/22/22 15:38	1
Styrene	ND		1.0	0.36	ug/L			12/22/22 15:38	1
1,1,1,2-Tetrachloroethane	ND	+	1.0	0.58	ug/L			12/22/22 15:38	1
1,1,2,2-Tetrachloroethane	ND	-	1.0	0.21	ug/L			12/22/22 15:38	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/22/22 15:38	1
Toluene	ND		1.0	0.32	ug/L			12/22/22 15:38	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			12/22/22 15:38	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			12/22/22 15:38	1
Trichloroethene	ND		1.0	0.30	ug/L			12/22/22 15:38	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			12/22/22 15:38	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			12/22/22 15:38	1
Vinyl acetate	ND		3.0	0.94	ug/L			12/22/22 15:38	1
Vinyl chloride	ND		2.0	0.51	ug/L			12/22/22 15:38	1
Xylenes, Total	ND		1.0	0.33	ug/L			12/22/22 15:38	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			12/22/22 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	134	S1+	70 - 127		12/22/22 15:38	1

Eurofins Denver

Client Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Client Sample ID: MW-1
Date Collected: 12/20/22 12:20
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	83		80 - 125		12/22/22 15:38	1
4-Bromofluorobenzene (Surr)	85		78 - 120		12/22/22 15:38	1
Dibromofluoromethane (Surr)	128	S1+	77 - 120		12/22/22 15:38	1

Client Sample ID: MW-2
Date Collected: 12/20/22 13:05
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		15	6.6	ug/L			12/22/22 16:02	1
Acrylonitrile	ND		20	4.5	ug/L			12/22/22 16:02	1
Benzene	ND		1.0	0.31	ug/L			12/22/22 16:02	1
Bromochloromethane	ND		1.0	0.40	ug/L			12/22/22 16:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/22 16:02	1
Bromoform	ND		2.0	1.2	ug/L			12/22/22 16:02	1
Methyl bromide	ND		5.0	2.4	ug/L			12/22/22 16:02	1
2-Butanone (MEK)	ND		15	5.9	ug/L			12/22/22 16:02	1
Carbon disulfide	ND		2.0	0.63	ug/L			12/22/22 16:02	1
Carbon tetrachloride	ND	+	1.0	0.57	ug/L			12/22/22 16:02	1
Chlorobenzene	ND		1.0	0.42	ug/L			12/22/22 16:02	1
Dibromochloromethane	ND		2.0	0.62	ug/L			12/22/22 16:02	1
Chloroethane	ND		4.0	1.4	ug/L			12/22/22 16:02	1
Chloroform	ND		1.0	0.36	ug/L			12/22/22 16:02	1
Chloromethane	ND		2.0	0.75	ug/L			12/22/22 16:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			12/22/22 16:02	1
Methylene bromide	ND		1.0	0.34	ug/L			12/22/22 16:02	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			12/22/22 16:02	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			12/22/22 16:02	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			12/22/22 16:02	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			12/22/22 16:02	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			12/22/22 16:02	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			12/22/22 16:02	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			12/22/22 16:02	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			12/22/22 16:02	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			12/22/22 16:02	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			12/22/22 16:02	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			12/22/22 16:02	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/22/22 16:02	1
2-Hexanone	ND		5.0	1.7	ug/L			12/22/22 16:02	1
Iodomethane	ND		5.0	2.6	ug/L			12/22/22 16:02	1
Methylene Chloride	ND		2.0	0.94	ug/L			12/22/22 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			12/22/22 16:02	1
Styrene	ND		1.0	0.36	ug/L			12/22/22 16:02	1
1,1,1,2-Tetrachloroethane	ND	+	1.0	0.58	ug/L			12/22/22 16:02	1
1,1,2,2-Tetrachloroethane	ND	-	1.0	0.21	ug/L			12/22/22 16:02	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/22/22 16:02	1
Toluene	ND		1.0	0.32	ug/L			12/22/22 16:02	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			12/22/22 16:02	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			12/22/22 16:02	1
Trichloroethene	ND		1.0	0.30	ug/L			12/22/22 16:02	1

Eurofins Denver

Client Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Client Sample ID: MW-2
Date Collected: 12/20/22 13:05
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		2.0	0.57	ug/L			12/22/22 16:02	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			12/22/22 16:02	1
Vinyl acetate	ND		3.0	0.94	ug/L			12/22/22 16:02	1
Vinyl chloride	ND		2.0	0.51	ug/L			12/22/22 16:02	1
Xylenes, Total	ND		1.0	0.33	ug/L			12/22/22 16:02	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			12/22/22 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	138	S1+	70 - 127		12/22/22 16:02	1
Toluene-d8 (Surr)	84		80 - 125		12/22/22 16:02	1
4-Bromofluorobenzene (Surr)	86		78 - 120		12/22/22 16:02	1
Dibromofluoromethane (Surr)	130	S1+	77 - 120		12/22/22 16:02	1

Client Sample ID: MW-3
Date Collected: 12/20/22 14:00
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		15	6.6	ug/L			12/22/22 16:26	1
Acrylonitrile	ND		20	4.5	ug/L			12/22/22 16:26	1
Benzene	ND		1.0	0.31	ug/L			12/22/22 16:26	1
Bromochloromethane	ND		1.0	0.40	ug/L			12/22/22 16:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/22 16:26	1
Bromoform	ND		2.0	1.2	ug/L			12/22/22 16:26	1
Methyl bromide	ND		5.0	2.4	ug/L			12/22/22 16:26	1
2-Butanone (MEK)	ND		15	5.9	ug/L			12/22/22 16:26	1
Carbon disulfide	ND		2.0	0.63	ug/L			12/22/22 16:26	1
Carbon tetrachloride	ND	++	1.0	0.57	ug/L			12/22/22 16:26	1
Chlorobenzene	ND		1.0	0.42	ug/L			12/22/22 16:26	1
Dibromochloromethane	ND		2.0	0.62	ug/L			12/22/22 16:26	1
Chloroethane	ND		4.0	1.4	ug/L			12/22/22 16:26	1
Chloroform	ND		1.0	0.36	ug/L			12/22/22 16:26	1
Chloromethane	ND		2.0	0.75	ug/L			12/22/22 16:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			12/22/22 16:26	1
Methylene bromide	ND		1.0	0.34	ug/L			12/22/22 16:26	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			12/22/22 16:26	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			12/22/22 16:26	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			12/22/22 16:26	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			12/22/22 16:26	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			12/22/22 16:26	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			12/22/22 16:26	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			12/22/22 16:26	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			12/22/22 16:26	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			12/22/22 16:26	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			12/22/22 16:26	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			12/22/22 16:26	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/22/22 16:26	1
2-Hexanone	ND		5.0	1.7	ug/L			12/22/22 16:26	1
Iodomethane	ND		5.0	2.6	ug/L			12/22/22 16:26	1
Methylene Chloride	ND		2.0	0.94	ug/L			12/22/22 16:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			12/22/22 16:26	1

Eurofins Denver

Client Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Client Sample ID: MW-3
Date Collected: 12/20/22 14:00
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.36	ug/L			12/22/22 16:26	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.58	ug/L			12/22/22 16:26	1
1,1,2,2-Tetrachloroethane	ND	*-	1.0	0.21	ug/L			12/22/22 16:26	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/22/22 16:26	1
Toluene	ND		1.0	0.32	ug/L			12/22/22 16:26	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			12/22/22 16:26	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			12/22/22 16:26	1
Trichloroethene	ND		1.0	0.30	ug/L			12/22/22 16:26	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			12/22/22 16:26	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			12/22/22 16:26	1
Vinyl acetate	ND		3.0	0.94	ug/L			12/22/22 16:26	1
Vinyl chloride	ND		2.0	0.51	ug/L			12/22/22 16:26	1
Xylenes, Total	ND		1.0	0.33	ug/L			12/22/22 16:26	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			12/22/22 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	138	S1+	70 - 127		12/22/22 16:26	1
Toluene-d8 (Surr)	83		80 - 125		12/22/22 16:26	1
4-Bromofluorobenzene (Surr)	86		78 - 120		12/22/22 16:26	1
Dibromofluoromethane (Surr)	131	S1+	77 - 120		12/22/22 16:26	1

Client Sample ID: FIELD BLANK
Date Collected: 12/20/22 13:30
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		15	6.6	ug/L			12/22/22 09:19	1
Acrylonitrile	ND		20	4.5	ug/L			12/22/22 09:19	1
Benzene	ND		1.0	0.31	ug/L			12/22/22 09:19	1
Bromochloromethane	ND		1.0	0.40	ug/L			12/22/22 09:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/22 09:19	1
Bromoform	ND		2.0	1.2	ug/L			12/22/22 09:19	1
Methyl bromide	ND		5.0	2.4	ug/L			12/22/22 09:19	1
2-Butanone (MEK)	ND		15	5.9	ug/L			12/22/22 09:19	1
Carbon disulfide	ND		2.0	0.63	ug/L			12/22/22 09:19	1
Carbon tetrachloride	ND	*+	1.0	0.57	ug/L			12/22/22 09:19	1
Chlorobenzene	ND		1.0	0.42	ug/L			12/22/22 09:19	1
Dibromochloromethane	ND		2.0	0.62	ug/L			12/22/22 09:19	1
Chloroethane	ND		4.0	1.4	ug/L			12/22/22 09:19	1
Chloroform	ND		1.0	0.36	ug/L			12/22/22 09:19	1
Chloromethane	ND		2.0	0.75	ug/L			12/22/22 09:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			12/22/22 09:19	1
Methylene bromide	ND		1.0	0.34	ug/L			12/22/22 09:19	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			12/22/22 09:19	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			12/22/22 09:19	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			12/22/22 09:19	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			12/22/22 09:19	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			12/22/22 09:19	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			12/22/22 09:19	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			12/22/22 09:19	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			12/22/22 09:19	1

Eurofins Denver

Client Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Client Sample ID: FIELD BLANK

Date Collected: 12/20/22 13:30

Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.52	ug/L			12/22/22 09:19	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			12/22/22 09:19	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			12/22/22 09:19	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/22/22 09:19	1
2-Hexanone	ND		5.0	1.7	ug/L			12/22/22 09:19	1
Iodomethane	ND		5.0	2.6	ug/L			12/22/22 09:19	1
Methylene Chloride	ND		2.0	0.94	ug/L			12/22/22 09:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			12/22/22 09:19	1
Styrene	ND		1.0	0.36	ug/L			12/22/22 09:19	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.58	ug/L			12/22/22 09:19	1
1,1,1,2,2-Tetrachloroethane	ND	*-	1.0	0.21	ug/L			12/22/22 09:19	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/22/22 09:19	1
Toluene	ND		1.0	0.32	ug/L			12/22/22 09:19	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			12/22/22 09:19	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			12/22/22 09:19	1
Trichloroethene	ND		1.0	0.30	ug/L			12/22/22 09:19	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			12/22/22 09:19	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			12/22/22 09:19	1
Vinyl acetate	ND		3.0	0.94	ug/L			12/22/22 09:19	1
Vinyl chloride	ND		2.0	0.51	ug/L			12/22/22 09:19	1
Xylenes, Total	ND		1.0	0.33	ug/L			12/22/22 09:19	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			12/22/22 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		70 - 127		12/22/22 09:19	1
Toluene-d8 (Surr)	94		80 - 125		12/22/22 09:19	1
4-Bromofluorobenzene (Surr)	86		78 - 120		12/22/22 09:19	1
Dibromofluoromethane (Surr)	114		77 - 120		12/22/22 09:19	1

Client Sample ID: TRIP BLANK

Date Collected: 12/20/22 00:00

Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		15	6.6	ug/L			12/22/22 09:43	1
Acrylonitrile	ND		20	4.5	ug/L			12/22/22 09:43	1
Benzene	ND		1.0	0.31	ug/L			12/22/22 09:43	1
Bromochloromethane	ND		1.0	0.40	ug/L			12/22/22 09:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/22 09:43	1
Bromoform	ND		2.0	1.2	ug/L			12/22/22 09:43	1
Methyl bromide	ND		5.0	2.4	ug/L			12/22/22 09:43	1
2-Butanone (MEK)	ND		15	5.9	ug/L			12/22/22 09:43	1
Carbon disulfide	ND		2.0	0.63	ug/L			12/22/22 09:43	1
Carbon tetrachloride	ND	*+	1.0	0.57	ug/L			12/22/22 09:43	1
Chlorobenzene	ND		1.0	0.42	ug/L			12/22/22 09:43	1
Dibromochloromethane	ND		2.0	0.62	ug/L			12/22/22 09:43	1
Chloroethane	ND		4.0	1.4	ug/L			12/22/22 09:43	1
Chloroform	ND		1.0	0.36	ug/L			12/22/22 09:43	1
Chloromethane	ND		2.0	0.75	ug/L			12/22/22 09:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			12/22/22 09:43	1
Methylene bromide	ND		1.0	0.34	ug/L			12/22/22 09:43	1

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Client Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Client Sample ID: TRIP BLANK
Date Collected: 12/20/22 00:00
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			12/22/22 09:43	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			12/22/22 09:43	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			12/22/22 09:43	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			12/22/22 09:43	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			12/22/22 09:43	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			12/22/22 09:43	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			12/22/22 09:43	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			12/22/22 09:43	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			12/22/22 09:43	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			12/22/22 09:43	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			12/22/22 09:43	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/22/22 09:43	1
2-Hexanone	ND		5.0	1.7	ug/L			12/22/22 09:43	1
Iodomethane	ND		5.0	2.6	ug/L			12/22/22 09:43	1
Methylene Chloride	ND		2.0	0.94	ug/L			12/22/22 09:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			12/22/22 09:43	1
Styrene	ND		1.0	0.36	ug/L			12/22/22 09:43	1
1,1,1,2-Tetrachloroethane	ND	+	1.0	0.58	ug/L			12/22/22 09:43	1
1,1,1,2-Tetrachloroethane	ND	-	1.0	0.21	ug/L			12/22/22 09:43	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/22/22 09:43	1
Toluene	ND		1.0	0.32	ug/L			12/22/22 09:43	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			12/22/22 09:43	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			12/22/22 09:43	1
Trichloroethene	ND		1.0	0.30	ug/L			12/22/22 09:43	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			12/22/22 09:43	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			12/22/22 09:43	1
Vinyl acetate	ND		3.0	0.94	ug/L			12/22/22 09:43	1
Vinyl chloride	ND		2.0	0.51	ug/L			12/22/22 09:43	1
Xylenes, Total	ND		1.0	0.33	ug/L			12/22/22 09:43	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			12/22/22 09:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		70 - 127		12/22/22 09:43	1
Toluene-d8 (Surr)	93		80 - 125		12/22/22 09:43	1
4-Bromofluorobenzene (Surr)	86		78 - 120		12/22/22 09:43	1
Dibromofluoromethane (Surr)	114		77 - 120		12/22/22 09:43	1

Method: SW846 6010C - Metals (ICP)

Client Sample ID: MW-1
Date Collected: 12/20/22 12:20
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	44	B	0.20	0.024	mg/L		01/03/23 09:13	01/04/23 02:30	1
Magnesium	25		0.20	0.0042	mg/L		01/03/23 09:13	01/04/23 02:30	1
Potassium	4.3		3.0	0.24	mg/L		01/03/23 09:13	01/04/23 02:30	1
Sodium	27		1.0	0.097	mg/L		01/03/23 09:13	01/04/23 02:30	1

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Client Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: SW846 6010C - Metals (ICP)

Client Sample ID: MW-2
Date Collected: 12/20/22 13:05
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	45	B	0.20	0.024	mg/L		01/03/23 09:13	01/04/23 02:34	1
Magnesium	19		0.20	0.0042	mg/L		01/03/23 09:13	01/04/23 02:34	1
Potassium	2.2	J	3.0	0.24	mg/L		01/03/23 09:13	01/04/23 02:34	1
Sodium	18		1.0	0.097	mg/L		01/03/23 09:13	01/04/23 02:34	1

Client Sample ID: MW-3
Date Collected: 12/20/22 14:00
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140	B	0.20	0.024	mg/L		01/03/23 09:13	01/04/23 02:54	1
Magnesium	55		0.20	0.0042	mg/L		01/03/23 09:13	01/04/23 02:54	1
Potassium	3.3		3.0	0.24	mg/L		01/03/23 09:13	01/04/23 02:54	1
Sodium	14		1.0	0.097	mg/L		01/03/23 09:13	01/04/23 02:54	1

Method: SW846 6020A - Metals (ICP/MS)

Client Sample ID: MW-1
Date Collected: 12/20/22 12:20
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		01/03/23 08:15	01/03/23 19:00	1
Arsenic	0.0030	J	0.0050	0.00033	mg/L		01/03/23 08:15	01/03/23 19:00	1
Barium	0.37		0.0010	0.00029	mg/L		01/03/23 08:15	01/03/23 19:00	1
Beryllium	0.00084	J	0.0010	0.000080	mg/L		01/03/23 08:15	01/04/23 21:46	1
Cadmium	0.00039	J	0.0010	0.00027	mg/L		01/03/23 08:15	01/03/23 19:00	1
Chromium	0.087	B	0.0020	0.00050	mg/L		01/03/23 08:15	01/03/23 19:00	1
Cobalt	0.028		0.0010	0.000092	mg/L		01/03/23 08:15	01/03/23 19:00	1
Copper	0.064		0.0020	0.00056	mg/L		01/03/23 08:15	01/03/23 19:00	1
Lead	0.016		0.0010	0.00018	mg/L		01/03/23 08:15	01/03/23 19:00	1
Nickel	0.038		0.0020	0.00030	mg/L		01/03/23 08:15	01/03/23 19:00	1
Selenium	0.016		0.0050	0.00037	mg/L		01/03/23 08:15	01/03/23 19:00	1
Silver	0.00011	J	0.0050	0.000033	mg/L		01/03/23 08:15	01/03/23 19:00	1
Thallium	0.00051	J	0.0010	0.000089	mg/L		01/03/23 08:15	01/03/23 19:00	1
Vanadium	0.13		0.0050	0.0012	mg/L		01/03/23 08:15	01/03/23 19:00	1
Zinc	0.16		0.010	0.0020	mg/L		01/03/23 08:15	01/03/23 19:00	1

Client Sample ID: MW-2
Date Collected: 12/20/22 13:05
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		01/03/23 08:15	01/03/23 19:01	1
Arsenic	0.0033	J	0.0050	0.00033	mg/L		01/03/23 08:15	01/03/23 19:01	1
Barium	0.38		0.0010	0.00029	mg/L		01/03/23 08:15	01/03/23 19:01	1
Beryllium	0.0012		0.0010	0.000080	mg/L		01/03/23 08:15	01/04/23 21:47	1
Cadmium	0.00049	J	0.0010	0.00027	mg/L		01/03/23 08:15	01/03/23 19:01	1
Chromium	0.078	B	0.0020	0.00050	mg/L		01/03/23 08:15	01/03/23 19:01	1
Cobalt	0.033		0.0010	0.000092	mg/L		01/03/23 08:15	01/03/23 19:01	1
Copper	0.065		0.0020	0.00056	mg/L		01/03/23 08:15	01/03/23 19:01	1
Lead	0.018		0.0010	0.00018	mg/L		01/03/23 08:15	01/03/23 19:01	1
Nickel	0.040		0.0020	0.00030	mg/L		01/03/23 08:15	01/03/23 19:01	1

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Client Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: SW846 6020A - Metals (ICP/MS) (Continued)

Client Sample ID: MW-2
Date Collected: 12/20/22 13:05
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.0085		0.0050	0.00037	mg/L		01/03/23 08:15	01/03/23 19:01	1
Silver	0.00011	J	0.0050	0.000033	mg/L		01/03/23 08:15	01/03/23 19:01	1
Thallium	0.00046	J	0.0010	0.000089	mg/L		01/03/23 08:15	01/03/23 19:01	1
Vanadium	0.12		0.0050	0.0012	mg/L		01/03/23 08:15	01/03/23 19:01	1
Zinc	0.17		0.010	0.0020	mg/L		01/03/23 08:15	01/03/23 19:01	1

Client Sample ID: MW-3
Date Collected: 12/20/22 14:00
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	0.0020	0.00040	mg/L		01/03/23 08:15	01/03/23 19:03	1
Arsenic	0.0085		0.0050	0.00033	mg/L		01/03/23 08:15	01/03/23 19:03	1
Barium	0.88		0.0010	0.00029	mg/L		01/03/23 08:15	01/03/23 19:03	1
Beryllium	0.0058		0.0010	0.000080	mg/L		01/03/23 08:15	01/04/23 21:49	1
Cadmium	0.0017		0.0010	0.00027	mg/L		01/03/23 08:15	01/03/23 19:03	1
Chromium	0.28	B	0.0020	0.00050	mg/L		01/03/23 08:15	01/03/23 19:03	1
Cobalt	0.12	F1	0.0010	0.000092	mg/L		01/03/23 08:15	01/03/23 19:03	1
Copper	0.25		0.0020	0.00056	mg/L		01/03/23 08:15	01/03/23 19:03	1
Lead	0.059		0.0010	0.00018	mg/L		01/03/23 08:15	01/03/23 19:03	1
Nickel	0.15	F1	0.0020	0.00030	mg/L		01/03/23 08:15	01/03/23 19:03	1
Selenium	0.0042	J	0.0050	0.00037	mg/L		01/03/23 08:15	01/03/23 19:03	1
Silver	0.00052	J	0.0050	0.000033	mg/L		01/03/23 08:15	01/03/23 19:03	1
Thallium	0.0019		0.0010	0.000089	mg/L		01/03/23 08:15	01/03/23 19:03	1
Vanadium	0.45		0.0050	0.0012	mg/L		01/03/23 08:15	01/03/23 19:03	1
Zinc	0.72		0.010	0.0020	mg/L		01/03/23 08:15	01/03/23 19:03	1

General Chemistry

Client Sample ID: MW-1
Date Collected: 12/20/22 12:20
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	10		5.0	1.0	mg/L			12/21/22 21:55	1
Nitrate as N (MCAWW 300.0)	0.10	J	0.50	0.090	mg/L			12/21/22 21:55	1
Nitrite as N (MCAWW 300.0)	1.4	H	0.50	0.049	mg/L			12/29/22 00:32	1
Sulfate (MCAWW 300.0)	48		20	1.0	mg/L			12/21/22 21:55	1
Total Anions (SM 1030E)	4.7				meq/L			01/05/23 10:18	1
Total Cations (SM 1030E)	5.5				meq/L			01/05/23 10:18	1
Anion/Cation Balance (SM 1030E)	8.3				%			01/05/23 10:18	1
Total Alkalinity as CaCO3 (SM 2320B)	170	B	10	3.1	mg/L			12/28/22 13:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	170	B	10	3.1	mg/L			12/28/22 13:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		10	3.1	mg/L			12/28/22 13:55	1
Specific Conductance (SM 2510B)	450		2.0	2.0	umhos/cm			12/28/22 13:27	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			12/30/22 15:25	1
Total Organic Carbon - Average (SM 5310B)	1.1		1.0	0.35	mg/L			01/04/23 08:11	1

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Client Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

General Chemistry

Client Sample ID: MW-2
Date Collected: 12/20/22 13:05
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	8.0	F1	5.0	1.0	mg/L			12/22/22 04:26	1
Nitrate as N (MCAWW 300.0)	0.32	J	0.50	0.090	mg/L			12/22/22 04:26	1
Nitrite as N (MCAWW 300.0)	1.5	H F1	0.50	0.049	mg/L			12/29/22 00:40	1
Sulfate (MCAWW 300.0)	24	F1	20	1.0	mg/L			12/22/22 04:26	1
Total Anions (SM 1030E)	4.1				meq/L			01/05/23 10:18	1
Total Cations (SM 1030E)	4.6				meq/L			01/05/23 10:18	1
Anion/Cation Balance (SM 1030E)	5.7				%			01/05/23 10:18	1
Total Alkalinity as CaCO3 (SM 2320B)	170	B	10	3.1	mg/L			12/28/22 14:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	170	B	10	3.1	mg/L			12/28/22 14:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		10	3.1	mg/L			12/28/22 14:28	1
Specific Conductance (SM 2510B)	390		2.0	2.0	umhos/cm			12/28/22 13:27	1
pH adj. to 25 deg C (SM 4500 H+ B)	8.2	HF	0.1	0.1	SU			12/30/22 15:25	1
Total Organic Carbon - Average (SM 5310B)	1.2		1.0	0.35	mg/L			01/04/23 08:25	1

Client Sample ID: MW-3
Date Collected: 12/20/22 14:00
Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	140		10	2.0	mg/L			12/27/22 18:38	2
Nitrate as N (MCAWW 300.0)	1.5		0.50	0.090	mg/L			12/21/22 22:10	1
Nitrite as N (MCAWW 300.0)	2.3	H	0.50	0.049	mg/L			12/29/22 01:11	1
Sulfate (MCAWW 300.0)	12	J F1	20	1.0	mg/L			12/21/22 22:10	1
Total Anions (SM 1030E)	10				meq/L			01/05/23 10:18	1
Total Cations (SM 1030E)	12				meq/L			01/05/23 10:18	1
Anion/Cation Balance (SM 1030E)	9.4				%			01/05/23 10:18	1
Total Alkalinity as CaCO3 (SM 2320B)	290	B	10	3.1	mg/L			12/28/22 14:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	290	B	10	3.1	mg/L			12/28/22 14:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		10	3.1	mg/L			12/28/22 14:41	1
Specific Conductance (SM 2510B)	980		2.0	2.0	umhos/cm			12/28/22 13:27	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			12/30/22 15:25	1
Total Organic Carbon - Average (SM 5310B)	2.0		1.0	0.35	mg/L			01/04/23 08:40	1

Surrogate Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	TOL	BFB	DBFM
		(70-127)	(80-125)	(78-120)	(77-120)
280-170638-1	MW-1	134 S1+	83	85	128 S1+
280-170638-2	MW-2	138 S1+	84	86	130 S1+
280-170638-3	MW-3	138 S1+	83	86	131 S1+
280-170638-4	FIELD BLANK	123	94	86	114
280-170638-5	TRIP BLANK	124	93	86	114
LCS 280-597554/1002	Lab Control Sample	122	92	83	116
LCSD 280-597554/4	Lab Control Sample Dup	121	91	85	116
MB 280-597554/7	Method Blank	120	92	84	115

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Lab Sample ID: MB 280-597554/7

Matrix: Water

Analysis Batch: 597554

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		15	6.6	ug/L			12/22/22 08:32	1
Acrylonitrile	ND		20	4.5	ug/L			12/22/22 08:32	1
Benzene	ND		1.0	0.31	ug/L			12/22/22 08:32	1
Bromochloromethane	ND		1.0	0.40	ug/L			12/22/22 08:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/22 08:32	1
Bromoform	ND		2.0	1.2	ug/L			12/22/22 08:32	1
Methyl bromide	ND		5.0	2.4	ug/L			12/22/22 08:32	1
2-Butanone (MEK)	ND		15	5.9	ug/L			12/22/22 08:32	1
Carbon disulfide	ND		2.0	0.63	ug/L			12/22/22 08:32	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			12/22/22 08:32	1
Chlorobenzene	ND		1.0	0.42	ug/L			12/22/22 08:32	1
Dibromochloromethane	ND		2.0	0.62	ug/L			12/22/22 08:32	1
Chloroethane	ND		4.0	1.4	ug/L			12/22/22 08:32	1
Chloroform	ND		1.0	0.36	ug/L			12/22/22 08:32	1
Chloromethane	ND		2.0	0.75	ug/L			12/22/22 08:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			12/22/22 08:32	1
Methylene bromide	ND		1.0	0.34	ug/L			12/22/22 08:32	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			12/22/22 08:32	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			12/22/22 08:32	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			12/22/22 08:32	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			12/22/22 08:32	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			12/22/22 08:32	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			12/22/22 08:32	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			12/22/22 08:32	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			12/22/22 08:32	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			12/22/22 08:32	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			12/22/22 08:32	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			12/22/22 08:32	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/22/22 08:32	1
2-Hexanone	ND		5.0	1.7	ug/L			12/22/22 08:32	1
Iodomethane	ND		5.0	2.6	ug/L			12/22/22 08:32	1
Methylene Chloride	ND		2.0	0.94	ug/L			12/22/22 08:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			12/22/22 08:32	1
Styrene	ND		1.0	0.36	ug/L			12/22/22 08:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			12/22/22 08:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/22 08:32	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/22/22 08:32	1
Toluene	ND		1.0	0.32	ug/L			12/22/22 08:32	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			12/22/22 08:32	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			12/22/22 08:32	1
Trichloroethene	ND		1.0	0.30	ug/L			12/22/22 08:32	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			12/22/22 08:32	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			12/22/22 08:32	1
Vinyl acetate	ND		3.0	0.94	ug/L			12/22/22 08:32	1
Vinyl chloride	ND		2.0	0.51	ug/L			12/22/22 08:32	1
Xylenes, Total	ND		1.0	0.33	ug/L			12/22/22 08:32	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			12/22/22 08:32	1

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QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Lab Sample ID: MB 280-597554/7

Matrix: Water

Analysis Batch: 597554

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 127		12/22/22 08:32	1
Toluene-d8 (Surr)	92		80 - 125		12/22/22 08:32	1
4-Bromofluorobenzene (Surr)	84		78 - 120		12/22/22 08:32	1
Dibromofluoromethane (Surr)	115		77 - 120		12/22/22 08:32	1

Lab Sample ID: LCS 280-597554/1002

Matrix: Water

Analysis Batch: 597554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	44.6		ug/L		89	69 - 126
Bromodichloromethane	50.0	59.2		ug/L		118	67 - 126
Carbon tetrachloride	50.0	64.2		ug/L		128	60 - 133
Chlorobenzene	50.0	48.0		ug/L		96	78 - 118
Chloroform	50.0	54.5		ug/L		109	68 - 128
1,4-Dichlorobenzene	50.0	47.2		ug/L		94	76 - 119
1,1-Dichloroethane	50.0	46.0		ug/L		92	66 - 130
trans-1,2-Dichloroethene	50.0	48.1		ug/L		96	66 - 129
1,1-Dichloroethene	50.0	48.5		ug/L		97	62 - 130
1,2-Dichloropropane	50.0	41.2		ug/L		82	68 - 127
Ethylbenzene	50.0	46.8		ug/L		94	76 - 121
Methylene Chloride	50.0	46.0		ug/L		92	64 - 128
Tetrachloroethene	50.0	59.6		ug/L		119	72 - 127
Toluene	50.0	48.5		ug/L		97	68 - 127
1,1,1-Trichloroethane	50.0	62.9		ug/L		126	62 - 132
Trichloroethene	50.0	49.9		ug/L		100	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	122		70 - 127
Toluene-d8 (Surr)	92		80 - 125
4-Bromofluorobenzene (Surr)	83		78 - 120
Dibromofluoromethane (Surr)	116		77 - 120

Lab Sample ID: LCSD 280-597554/4

Matrix: Water

Analysis Batch: 597554

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
Benzene	50.0	46.9		ug/L		94	69 - 126	5	20
Bromodichloromethane	50.0	61.2		ug/L		122	67 - 126	3	20
Carbon tetrachloride	50.0	66.8	*+	ug/L		134	60 - 133	4	20
Chlorobenzene	50.0	48.6		ug/L		97	78 - 118	1	20
Chloroform	50.0	55.9		ug/L		112	68 - 128	2	20
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	76 - 119	4	20
1,1-Dichloroethane	50.0	48.8		ug/L		98	66 - 130	6	20
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	66 - 129	6	20
1,1-Dichloroethene	50.0	52.9		ug/L		106	62 - 130	9	21
1,2-Dichloropropane	50.0	44.1		ug/L		88	68 - 127	7	20

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QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Lab Sample ID: LCSD 280-597554/4

Matrix: Water

Analysis Batch: 597554

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
Ethylbenzene	50.0	48.5		ug/L		97	76 - 121	4	20
Methylene Chloride	50.0	48.0		ug/L		96	64 - 128	4	20
Tetrachloroethene	50.0	60.9		ug/L		122	72 - 127	2	20
Toluene	50.0	50.5		ug/L		101	68 - 127	4	20
1,1,1-Trichloroethane	50.0	65.5		ug/L		131	62 - 132	4	20
Trichloroethene	50.0	52.3		ug/L		105	70 - 125	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	121		70 - 127
Toluene-d8 (Surr)	91		80 - 125
4-Bromofluorobenzene (Surr)	85		78 - 120
Dibromofluoromethane (Surr)	116		77 - 120

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 280-598102/1-A

Matrix: Water

Analysis Batch: 598440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 598102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0543	J	0.20	0.024	mg/L		01/03/23 09:13	01/04/23 01:01	1
Magnesium	ND		0.20	0.0042	mg/L		01/03/23 09:13	01/04/23 01:01	1
Potassium	ND		3.0	0.24	mg/L		01/03/23 09:13	01/04/23 01:01	1
Sodium	ND		1.0	0.097	mg/L		01/03/23 09:13	01/04/23 01:01	1

Lab Sample ID: LCS 280-598102/2-A

Matrix: Water

Analysis Batch: 598440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 598102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50.0	50.0		mg/L		100	90 - 111
Magnesium	50.0	51.3		mg/L		103	90 - 113
Potassium	50.0	48.8		mg/L		98	89 - 114
Sodium	50.0	48.8		mg/L		98	90 - 115

Lab Sample ID: 280-170786-A-1-C MS

Matrix: Water

Analysis Batch: 598440

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 598102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	68	B	50.0	112		mg/L		86	48 - 153
Magnesium	12		50.0	57.0		mg/L		89	62 - 146
Potassium	4.5		50.0	47.9		mg/L		87	76 - 132
Sodium	14		50.0	56.5		mg/L		86	70 - 203

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QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

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

Lab Sample ID: 280-170786-A-1-D MSD

Matrix: Water

Analysis Batch: 598440

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 598102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	68	B	50.0	113		mg/L		90	48 - 153	2	20
Magnesium	12		50.0	58.7		mg/L		92	62 - 146	3	20
Potassium	4.5		50.0	49.2		mg/L		90	76 - 132	3	20
Sodium	14		50.0	58.0		mg/L		89	70 - 203	3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 280-598103/1-A

Matrix: Water

Analysis Batch: 598520

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 598103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		01/03/23 08:15	01/03/23 18:54	1
Arsenic	ND		0.0050	0.00033	mg/L		01/03/23 08:15	01/03/23 18:54	1
Barium	ND		0.0010	0.00029	mg/L		01/03/23 08:15	01/03/23 18:54	1
Cadmium	ND		0.0010	0.00027	mg/L		01/03/23 08:15	01/03/23 18:54	1
Chromium	0.000723	J	0.0020	0.00050	mg/L		01/03/23 08:15	01/03/23 18:54	1
Cobalt	ND		0.0010	0.000092	mg/L		01/03/23 08:15	01/03/23 18:54	1
Copper	ND		0.0020	0.00056	mg/L		01/03/23 08:15	01/03/23 18:54	1
Lead	ND		0.0010	0.00018	mg/L		01/03/23 08:15	01/03/23 18:54	1
Nickel	ND		0.0020	0.00030	mg/L		01/03/23 08:15	01/03/23 18:54	1
Selenium	ND		0.0050	0.00037	mg/L		01/03/23 08:15	01/03/23 18:54	1
Silver	ND		0.0050	0.000033	mg/L		01/03/23 08:15	01/03/23 18:54	1
Thallium	ND		0.0010	0.000089	mg/L		01/03/23 08:15	01/03/23 18:54	1
Vanadium	ND		0.0050	0.0012	mg/L		01/03/23 08:15	01/03/23 18:54	1
Zinc	ND		0.010	0.0020	mg/L		01/03/23 08:15	01/03/23 18:54	1

Lab Sample ID: MB 280-598103/1-A

Matrix: Water

Analysis Batch: 598553

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 598103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	0.000080	mg/L		01/03/23 08:15	01/04/23 21:40	1

Lab Sample ID: LCS 280-598103/2-A

Matrix: Water

Analysis Batch: 598520

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 598103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0400	0.0384		mg/L		96	85 - 115
Arsenic	0.0400	0.0388		mg/L		97	85 - 117
Barium	0.0400	0.0380		mg/L		95	85 - 118
Cadmium	0.0400	0.0380		mg/L		95	85 - 115
Chromium	0.0400	0.0395		mg/L		99	84 - 121
Cobalt	0.0400	0.0393		mg/L		98	85 - 120
Copper	0.0400	0.0394		mg/L		98	85 - 119
Lead	0.0400	0.0382		mg/L		95	85 - 118
Nickel	0.0400	0.0390		mg/L		97	85 - 119
Selenium	0.0400	0.0399		mg/L		100	77 - 122

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QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-598103/2-A
Matrix: Water
Analysis Batch: 598520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.0400	0.0392		mg/L		98	85 - 115
Thallium	0.0400	0.0384		mg/L		96	85 - 118
Vanadium	0.0400	0.0392		mg/L		98	85 - 120
Zinc	0.0400	0.0411		mg/L		103	83 - 122

Lab Sample ID: LCS 280-598103/2-A
Matrix: Water
Analysis Batch: 598553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0400	0.0425		mg/L		106	80 - 125

Lab Sample ID: 280-170638-3 MS
Matrix: Water
Analysis Batch: 598520

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 598103

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F1	0.0400	0.00812	F1	mg/L		20	85 - 115
Arsenic	0.0085		0.0400	0.0428		mg/L		86	85 - 117
Barium	0.88		0.0400	0.888	4	mg/L		27	85 - 118
Cadmium	0.0017		0.0400	0.0403		mg/L		96	85 - 115
Chromium	0.28	B	0.0400	0.312	4	mg/L		89	84 - 121
Cobalt	0.12	F1	0.0400	0.156		mg/L		89	85 - 120
Copper	0.25		0.0400	0.282	4	mg/L		75	85 - 119
Lead	0.059		0.0400	0.0971		mg/L		94	85 - 118
Nickel	0.15	F1	0.0400	0.187	F1	mg/L		81	85 - 119
Selenium	0.0042	J	0.0400	0.0411		mg/L		92	77 - 122
Silver	0.00052	J	0.0400	0.0394		mg/L		97	85 - 115
Thallium	0.0019		0.0400	0.0408		mg/L		97	85 - 118
Vanadium	0.45		0.0400	0.482	4	mg/L		85	85 - 120
Zinc	0.72		0.0400	0.751	4	mg/L		72	83 - 122

Lab Sample ID: 280-170638-3 MS
Matrix: Water
Analysis Batch: 598553

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 598103

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0058		0.0400	0.0448		mg/L		98	80 - 125

Lab Sample ID: 280-170638-3 MSD
Matrix: Water
Analysis Batch: 598520

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 598103

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	0.0400	0.00807	F1	mg/L		20	85 - 115	1	20
Arsenic	0.0085		0.0400	0.0442		mg/L		89	85 - 117	3	20
Barium	0.88		0.0400	0.887	4	mg/L		24	85 - 118	0	20
Cadmium	0.0017		0.0400	0.0409		mg/L		98	85 - 115	1	20
Chromium	0.28	B	0.0400	0.308	4	mg/L		77	84 - 121	1	20
Cobalt	0.12	F1	0.0400	0.152	F1	mg/L		78	85 - 120	3	20

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QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-170638-3 MSD

Matrix: Water

Analysis Batch: 598520

Client Sample ID: MW-3

Prep Type: Total/NA

Prep Batch: 598103

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	0.25		0.0400	0.278	4	mg/L		64	85 - 119	2	20
Lead	0.059		0.0400	0.0935		mg/L		85	85 - 118	4	20
Nickel	0.15	F1	0.0400	0.182	F1	mg/L		69	85 - 119	3	20
Selenium	0.0042	J	0.0400	0.0389		mg/L		87	77 - 122	6	20
Silver	0.00052	J	0.0400	0.0407		mg/L		101	85 - 115	3	20
Thallium	0.0019		0.0400	0.0398		mg/L		95	85 - 118	2	20
Vanadium	0.45		0.0400	0.474	4	mg/L		67	85 - 120	1	20
Zinc	0.72		0.0400	0.728	4	mg/L		13	83 - 122	3	20

Lab Sample ID: 280-170638-3 MSD

Matrix: Water

Analysis Batch: 598553

Client Sample ID: MW-3

Prep Type: Total/NA

Prep Batch: 598103

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	0.0058		0.0400	0.0468		mg/L		103	80 - 125	4	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-597489/40

Matrix: Water

Analysis Batch: 597489

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			12/22/22 01:41	1

Lab Sample ID: MB 280-597489/6

Matrix: Water

Analysis Batch: 597489

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			12/21/22 16:18	1

Lab Sample ID: LCS 280-597489/38

Matrix: Water

Analysis Batch: 597489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.57		mg/L		103	90 - 110

Lab Sample ID: LCS 280-597489/4

Matrix: Water

Analysis Batch: 597489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.28		mg/L		91	90 - 110

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QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-597489/39

Matrix: Water

Analysis Batch: 597489

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 as N	2.50	2.42		mg/L		97	90 - 110	6	10

Lab Sample ID: LCSD 280-597489/5

Matrix: Water

Analysis Batch: 597489

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 as N	2.50	2.32		mg/L		93	90 - 110	2	10

Lab Sample ID: MRL 280-597489/3

Matrix: Water

Analysis Batch: 597489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.250	0.164	J	mg/L		66	50 - 150		

Lab Sample ID: 280-170638-2 MS

Matrix: Water

Analysis Batch: 597489

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.32	J	5.00	5.26	E	mg/L		99	80 - 120		

Lab Sample ID: 280-170638-2 MSD

Matrix: Water

Analysis Batch: 597489

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.32	J	5.00	5.31	E	mg/L		100	80 - 120	1	20

Lab Sample ID: 280-170638-3 MS

Matrix: Water

Analysis Batch: 597489

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	1.5		5.00	6.54	E	mg/L		101	80 - 120		

Lab Sample ID: 280-170638-3 MSD

Matrix: Water

Analysis Batch: 597489

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	1.5		5.00	6.76	E	mg/L		105	80 - 120	3	20

Lab Sample ID: 280-170638-2 DU

Matrix: Water

Analysis Batch: 597489

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.32	J		0.283	J	mg/L				13	15

Eurofins Denver

QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-170638-3 DU

Matrix: Water

Analysis Batch: 597489

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	1.5		1.53		mg/L		2	15

Lab Sample ID: MB 280-597490/40

Matrix: Water

Analysis Batch: 597490

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	1.0	mg/L			12/22/22 01:41	1
Sulfate	ND		20	1.0	mg/L			12/22/22 01:41	1

Lab Sample ID: MB 280-597490/6

Matrix: Water

Analysis Batch: 597490

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	1.0	mg/L			12/21/22 16:18	1
Sulfate	ND		20	1.0	mg/L			12/21/22 16:18	1

Lab Sample ID: LCS 280-597490/38

Matrix: Water

Analysis Batch: 597490

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	49.9		mg/L		100	90 - 110
Sulfate	50.0	49.0		mg/L		98	90 - 110

Lab Sample ID: LCS 280-597490/4

Matrix: Water

Analysis Batch: 597490

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	50.7		mg/L		101	90 - 110
Sulfate	50.0	49.7		mg/L		99	90 - 110

Lab Sample ID: LCSD 280-597490/39

Matrix: Water

Analysis Batch: 597490

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	51.4		mg/L		103	90 - 110	3	10
Sulfate	50.0	49.5		mg/L		99	90 - 110	1	10

Lab Sample ID: LCSD 280-597490/5

Matrix: Water

Analysis Batch: 597490

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	50.8		mg/L		102	90 - 110	0	10
Sulfate	50.0	49.8		mg/L		100	90 - 110	0	10

Eurofins Denver

QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-597490/3

Matrix: Water

Analysis Batch: 597490

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	2.43	J	mg/L		97	50 - 150
Sulfate	2.50	3.20	J	mg/L		128	50 - 150

Lab Sample ID: 280-170638-2 MS

Matrix: Water

Analysis Batch: 597490

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8.0	F1	50.0	63.4		mg/L		111	80 - 120
Sulfate	24	F1	50.0	76.5		mg/L		105	80 - 120

Lab Sample ID: 280-170638-2 MSD

Matrix: Water

Analysis Batch: 597490

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.0	F1	50.0	64.3		mg/L		112	80 - 120	1	20
Sulfate	24	F1	50.0	77.4		mg/L		107	80 - 120	1	20

Lab Sample ID: 280-170638-3 MS

Matrix: Water

Analysis Batch: 597490

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12	J F1	50.0	62.9		mg/L		102	80 - 120

Lab Sample ID: 280-170638-3 MSD

Matrix: Water

Analysis Batch: 597490

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	12	J F1	50.0	64.8		mg/L		106	80 - 120	3	20

Lab Sample ID: 280-170638-2 DU

Matrix: Water

Analysis Batch: 597490

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	8.0	F1	8.54		mg/L		6	15
Sulfate	24	F1	24.0		mg/L		0.4	15

Lab Sample ID: 280-170638-3 DU

Matrix: Water

Analysis Batch: 597490

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	12	J F1	12.1	J	mg/L		1	15

Eurofins Denver

QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 280-597753/6

Matrix: Water

Analysis Batch: 597753

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			12/27/22 13:10	1

Lab Sample ID: LCS 280-597753/4

Matrix: Water

Analysis Batch: 597753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.37		mg/L		95	90 - 110

Lab Sample ID: LCSD 280-597753/5

Matrix: Water

Analysis Batch: 597753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Nitrate as N	2.50	2.42		mg/L		97	90 - 110	2	10

Lab Sample ID: MRL 280-597753/3

Matrix: Water

Analysis Batch: 597753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.250	0.255	J	mg/L		102	50 - 150
Nitrite as N	0.250	0.235	J	mg/L		94	50 - 150

Lab Sample ID: 280-170668-H-1 MS

Matrix: Water

Analysis Batch: 597753

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 as N	0.29	J	5.00	6.08	E	mg/L		116	80 - 120

Lab Sample ID: 280-170668-H-1 MSD

Matrix: Water

Analysis Batch: 597753

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	Limit
Nitrate as N	0.29	J	5.00	6.24	E	mg/L		119	80 - 120	2	20

Lab Sample ID: 280-170668-H-1 DU

Matrix: Water

Analysis Batch: 597753

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	0.29	J	0.282	J	mg/L		1	15

Eurofins Denver

QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 280-597754/6

Matrix: Water

Analysis Batch: 597754

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	1.0	mg/L			12/27/22 13:10	1
Sulfate	ND		20	1.0	mg/L			12/27/22 13:10	1

Lab Sample ID: LCS 280-597754/4

Matrix: Water

Analysis Batch: 597754

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	50.7		mg/L		101	90 - 110
Sulfate	50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: LCSD 280-597754/5

Matrix: Water

Analysis Batch: 597754

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	50.9		mg/L		102	90 - 110	0	10
Sulfate	50.0	49.5		mg/L		99	90 - 110	1	10

Lab Sample ID: MRL 280-597754/3

Matrix: Water

Analysis Batch: 597754

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	2.49	J	mg/L		99	50 - 150
Sulfate	2.50	2.45	J	mg/L		98	50 - 150

Lab Sample ID: 280-170668-H-1 MS

Matrix: Water

Analysis Batch: 597754

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	110	E F1	50.0	170	E F1	mg/L		123	80 - 120
Sulfate	30	F1	50.0	90.0		mg/L		120	80 - 120

Lab Sample ID: 280-170668-H-1 MSD

Matrix: Water

Analysis Batch: 597754

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	110	E F1	50.0	171	E F1	mg/L		125	80 - 120	1	20
Sulfate	30	F1	50.0	90.9	F1	mg/L		122	80 - 120	1	20

Lab Sample ID: 280-170668-H-1 DU

Matrix: Water

Analysis Batch: 597754

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	110	E F1	108	E	mg/L		0	15
Sulfate	30	F1	30.1		mg/L		0.2	15

Eurofins Denver

QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-597935/59

Matrix: Water

Analysis Batch: 597935

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.50	0.049	mg/L			12/29/22 00:08	1

Lab Sample ID: LCS 280-597935/57

Matrix: Water

Analysis Batch: 597935

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	2.50	2.67		mg/L		107	90 - 110

Lab Sample ID: LCSD 280-597935/58

Matrix: Water

Analysis Batch: 597935

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
Nitrite as N	2.50	2.66		mg/L		107	90 - 110	0	10

Lab Sample ID: MRL 280-597935/10

Matrix: Water

Analysis Batch: 597935

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.250	0.274	J	mg/L		110	50 - 150

Lab Sample ID: 280-170638-2 MS

Matrix: Water

Analysis Batch: 597935

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	1.5	H F1	5.00	5.39	E F1	mg/L		79	80 - 120

Lab Sample ID: 280-170638-2 MSD

Matrix: Water

Analysis Batch: 597935

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	1.5	H F1	5.00	5.47	E	mg/L		80	80 - 120	2	20

Lab Sample ID: 280-170638-2 DU

Matrix: Water

Analysis Batch: 597935

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrite as N	1.5	H F1	1.44		mg/L		0.4	15

Lab Sample ID: MB 280-597936/13

Matrix: Water

Analysis Batch: 597936

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	1.0	mg/L			12/28/22 17:13	1

Eurofins Denver

QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 280-597936/13

Matrix: Water

Analysis Batch: 597936

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		20	1.0	mg/L			12/28/22 17:13	1

Lab Sample ID: MB 280-597936/59

Matrix: Water

Analysis Batch: 597936

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	1.0	mg/L			12/29/22 00:08	1
Sulfate	ND		20	1.0	mg/L			12/29/22 00:08	1

Lab Sample ID: LCS 280-597936/57

Matrix: Water

Analysis Batch: 597936

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	49.9		mg/L		100	90 - 110
Sulfate	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-597936/58

Matrix: Water

Analysis Batch: 597936

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	49.7		mg/L		99	90 - 110	0	10
Sulfate	50.0	49.7		mg/L		99	90 - 110	0	10

Lab Sample ID: MRL 280-597936/10

Matrix: Water

Analysis Batch: 597936

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	2.51	J	mg/L		100	50 - 150
Sulfate	2.50	2.45	J	mg/L		98	50 - 150

Method: SM 1030E - Cation Anion Balance

Lab Sample ID: MB 280-598584/1

Matrix: Water

Analysis Batch: 598584

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions	0.000				meq/L			01/05/23 10:18	1
Total Cations	0.000				meq/L			01/05/23 10:18	1
Anion/Cation Balance	NC				%			01/05/23 10:18	1

Eurofins Denver

QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-598011/32

Matrix: Water

Analysis Batch: 598011

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	3.54	J	10	3.1	mg/L			12/28/22 14:22	1
Bicarbonate Alkalinity as CaCO3	3.54	J	10	3.1	mg/L			12/28/22 14:22	1
Carbonate Alkalinity as CaCO3	ND		10	3.1	mg/L			12/28/22 14:22	1

Lab Sample ID: MB 280-598011/6

Matrix: Water

Analysis Batch: 598011

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	3.81	J	10	3.1	mg/L			12/28/22 11:44	1
Bicarbonate Alkalinity as CaCO3	3.81	J	10	3.1	mg/L			12/28/22 11:44	1
Carbonate Alkalinity as CaCO3	ND		10	3.1	mg/L			12/28/22 11:44	1

Lab Sample ID: LCS 280-598011/31

Matrix: Water

Analysis Batch: 598011

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	200	197		mg/L		98	89 - 109

Lab Sample ID: LCS 280-598011/4

Matrix: Water

Analysis Batch: 598011

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	200	200		mg/L		100	89 - 109

Lab Sample ID: LCSD 280-598011/5

Matrix: Water

Analysis Batch: 598011

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 as CaCO3	200	197		mg/L		99	89 - 109	1	10

Lab Sample ID: 280-170638-2 DU

Matrix: Water

Analysis Batch: 598011

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	170	B	169		mg/L		0.3	10
Bicarbonate Alkalinity as CaCO3	170	B	169		mg/L		0.3	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20

QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-597919/31

Matrix: Water

Analysis Batch: 597919

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			12/28/22 13:27	1

Lab Sample ID: LCS 280-597919/30

Matrix: Water

Analysis Batch: 597919

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	1460		umhos/cm		104	90 - 110

Lab Sample ID: 280-170638-2 DU

Matrix: Water

Analysis Batch: 597919

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	390		390		umhos/cm		0.5	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-598221/4

Matrix: Water

Analysis Batch: 598221

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		101	99 - 101

Lab Sample ID: 280-170571-F-1 DU

Matrix: Water

Analysis Batch: 598221

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	8.2		8.3		SU		0.1	5

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-598480/35

Matrix: Water

Analysis Batch: 598480

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	0.35	mg/L			01/04/23 02:44	1

Lab Sample ID: LCS 280-598480/34

Matrix: Water

Analysis Batch: 598480

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

Eurofins Denver

QC Sample Results

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 280-170463-E-1 MS

Matrix: Water

Analysis Batch: 598480

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	9.1		25.0	33.7		mg/L		99	88 - 112		

Lab Sample ID: 280-170463-E-1 MSD

Matrix: Water

Analysis Batch: 598480

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	9.1		25.0	33.4		mg/L		97	88 - 112	1	15

QC Association Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

GC/MS VOA

Analysis Batch: 597554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	8260B	
280-170638-2	MW-2	Total/NA	Water	8260B	
280-170638-3	MW-3	Total/NA	Water	8260B	
280-170638-4	FIELD BLANK	Total/NA	Water	8260B	
280-170638-5	TRIP BLANK	Total/NA	Water	8260B	
MB 280-597554/7	Method Blank	Total/NA	Water	8260B	
LCS 280-597554/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-597554/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 598102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	3010A	
280-170638-2	MW-2	Total/NA	Water	3010A	
280-170638-3	MW-3	Total/NA	Water	3010A	
MB 280-598102/1-A	Method Blank	Total/NA	Water	3010A	
LCS 280-598102/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-170786-A-1-C MS	Matrix Spike	Dissolved	Water	3010A	
280-170786-A-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	3010A	

Prep Batch: 598103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	3020A	
280-170638-2	MW-2	Total/NA	Water	3020A	
280-170638-3	MW-3	Total/NA	Water	3020A	
MB 280-598103/1-A	Method Blank	Total/NA	Water	3020A	
LCS 280-598103/2-A	Lab Control Sample	Total/NA	Water	3020A	
280-170638-3 MS	MW-3	Total/NA	Water	3020A	
280-170638-3 MSD	MW-3	Total/NA	Water	3020A	

Analysis Batch: 598440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	6010C	598102
280-170638-2	MW-2	Total/NA	Water	6010C	598102
280-170638-3	MW-3	Total/NA	Water	6010C	598102
MB 280-598102/1-A	Method Blank	Total/NA	Water	6010C	598102
LCS 280-598102/2-A	Lab Control Sample	Total/NA	Water	6010C	598102
280-170786-A-1-C MS	Matrix Spike	Dissolved	Water	6010C	598102
280-170786-A-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	6010C	598102

Analysis Batch: 598520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	6020A	598103
280-170638-2	MW-2	Total/NA	Water	6020A	598103
280-170638-3	MW-3	Total/NA	Water	6020A	598103
MB 280-598103/1-A	Method Blank	Total/NA	Water	6020A	598103
LCS 280-598103/2-A	Lab Control Sample	Total/NA	Water	6020A	598103
280-170638-3 MS	MW-3	Total/NA	Water	6020A	598103
280-170638-3 MSD	MW-3	Total/NA	Water	6020A	598103

Eurofins Denver

QC Association Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Metals

Analysis Batch: 598553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	6020A	598103
280-170638-2	MW-2	Total/NA	Water	6020A	598103
280-170638-3	MW-3	Total/NA	Water	6020A	598103
MB 280-598103/1-A	Method Blank	Total/NA	Water	6020A	598103
LCS 280-598103/2-A	Lab Control Sample	Total/NA	Water	6020A	598103
280-170638-3 MS	MW-3	Total/NA	Water	6020A	598103
280-170638-3 MSD	MW-3	Total/NA	Water	6020A	598103

General Chemistry

Analysis Batch: 597489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	300.0	
280-170638-2	MW-2	Total/NA	Water	300.0	
280-170638-3	MW-3	Total/NA	Water	300.0	
MB 280-597489/40	Method Blank	Total/NA	Water	300.0	
MB 280-597489/6	Method Blank	Total/NA	Water	300.0	
LCS 280-597489/38	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-597489/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-597489/39	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-597489/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-597489/3	Lab Control Sample	Total/NA	Water	300.0	
280-170638-2 MS	MW-2	Total/NA	Water	300.0	
280-170638-2 MSD	MW-2	Total/NA	Water	300.0	
280-170638-3 MS	MW-3	Total/NA	Water	300.0	
280-170638-3 MSD	MW-3	Total/NA	Water	300.0	
280-170638-2 DU	MW-2	Total/NA	Water	300.0	
280-170638-3 DU	MW-3	Total/NA	Water	300.0	

Analysis Batch: 597490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	300.0	
280-170638-2	MW-2	Total/NA	Water	300.0	
280-170638-3	MW-3	Total/NA	Water	300.0	
MB 280-597490/40	Method Blank	Total/NA	Water	300.0	
MB 280-597490/6	Method Blank	Total/NA	Water	300.0	
LCS 280-597490/38	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-597490/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-597490/39	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-597490/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-597490/3	Lab Control Sample	Total/NA	Water	300.0	
280-170638-2 MS	MW-2	Total/NA	Water	300.0	
280-170638-2 MSD	MW-2	Total/NA	Water	300.0	
280-170638-3 MS	MW-3	Total/NA	Water	300.0	
280-170638-3 MSD	MW-3	Total/NA	Water	300.0	
280-170638-2 DU	MW-2	Total/NA	Water	300.0	
280-170638-3 DU	MW-3	Total/NA	Water	300.0	

Analysis Batch: 597753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-597753/6	Method Blank	Total/NA	Water	300.0	

Eurofins Denver

QC Association Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

General Chemistry (Continued)

Analysis Batch: 597753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-597753/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-597753/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-597753/3	Lab Control Sample	Total/NA	Water	300.0	
280-170668-H-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-170668-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-170668-H-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 597754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-3	MW-3	Total/NA	Water	300.0	
MB 280-597754/6	Method Blank	Total/NA	Water	300.0	
LCS 280-597754/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-597754/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-597754/3	Lab Control Sample	Total/NA	Water	300.0	
280-170668-H-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-170668-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-170668-H-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 597919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	SM 2510B	
280-170638-2	MW-2	Total/NA	Water	SM 2510B	
280-170638-3	MW-3	Total/NA	Water	SM 2510B	
MB 280-597919/31	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-597919/30	Lab Control Sample	Total/NA	Water	SM 2510B	
280-170638-2 DU	MW-2	Total/NA	Water	SM 2510B	

Analysis Batch: 597935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	300.0	
280-170638-2	MW-2	Total/NA	Water	300.0	
280-170638-3	MW-3	Total/NA	Water	300.0	
MB 280-597935/59	Method Blank	Total/NA	Water	300.0	
LCS 280-597935/57	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-597935/58	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-597935/10	Lab Control Sample	Total/NA	Water	300.0	
280-170638-2 MS	MW-2	Total/NA	Water	300.0	
280-170638-2 MSD	MW-2	Total/NA	Water	300.0	
280-170638-2 DU	MW-2	Total/NA	Water	300.0	

Analysis Batch: 597936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-597936/13	Method Blank	Total/NA	Water	300.0	
MB 280-597936/59	Method Blank	Total/NA	Water	300.0	
LCS 280-597936/57	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-597936/58	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-597936/10	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 598011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	SM 2320B	

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QC Association Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

General Chemistry (Continued)

Analysis Batch: 598011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-2	MW-2	Total/NA	Water	SM 2320B	
280-170638-3	MW-3	Total/NA	Water	SM 2320B	
MB 280-598011/32	Method Blank	Total/NA	Water	SM 2320B	
MB 280-598011/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-598011/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-598011/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-598011/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-170638-2 DU	MW-2	Total/NA	Water	SM 2320B	

Analysis Batch: 598221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	SM 4500 H+ B	
280-170638-2	MW-2	Total/NA	Water	SM 4500 H+ B	
280-170638-3	MW-3	Total/NA	Water	SM 4500 H+ B	
LCS 280-598221/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-170571-F-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 598480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	SM 5310B	
280-170638-2	MW-2	Total/NA	Water	SM 5310B	
280-170638-3	MW-3	Total/NA	Water	SM 5310B	
MB 280-598480/35	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-598480/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-170463-E-1 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-170463-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Analysis Batch: 598584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170638-1	MW-1	Total/NA	Water	SM 1030E	
280-170638-2	MW-2	Total/NA	Water	SM 1030E	
280-170638-3	MW-3	Total/NA	Water	SM 1030E	
MB 280-598584/1	Method Blank	Total/NA	Water	SM 1030E	

Lab Chronicle

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Client Sample ID: MW-1

Date Collected: 12/20/22 12:20

Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-1

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	597554	12/22/22 15:38	TAW	EET DEN
Total/NA	Prep	3010A			50 mL	50 mL	598102	01/03/23 09:13	LJS	EET DEN
Total/NA	Analysis	6010C		1			598440	01/04/23 02:30	KRP	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	598103	01/03/23 08:15	LJS	EET DEN
Total/NA	Analysis	6020A		1			598520	01/03/23 19:00	LMT	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	598103	01/03/23 08:15	LJS	EET DEN
Total/NA	Analysis	6020A		1			598553	01/04/23 21:46	LRD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	597489	12/21/22 21:55	MEC	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	597490	12/21/22 21:55	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	597935	12/29/22 00:32	MEC	EET DEN
Total/NA	Analysis	SM 1030E		1			598584	01/05/23 10:18	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			598011	12/28/22 13:55	KEG	EET DEN
Total/NA	Analysis	SM 2510B		1			597919	12/28/22 13:27	KEG	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			598221	12/30/22 15:25	KEG	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	598480	01/04/23 08:11	ABW	EET DEN

Client Sample ID: MW-2

Date Collected: 12/20/22 13:05

Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-2

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	597554	12/22/22 16:02	TAW	EET DEN
Total/NA	Prep	3010A			50 mL	50 mL	598102	01/03/23 09:13	LJS	EET DEN
Total/NA	Analysis	6010C		1			598440	01/04/23 02:34	KRP	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	598103	01/03/23 08:15	LJS	EET DEN
Total/NA	Analysis	6020A		1			598520	01/03/23 19:01	LMT	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	598103	01/03/23 08:15	LJS	EET DEN
Total/NA	Analysis	6020A		1			598553	01/04/23 21:47	LRD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	597489	12/22/22 04:26	MEC	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	597490	12/22/22 04:26	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	597935	12/29/22 00:40	MEC	EET DEN
Total/NA	Analysis	SM 1030E		1			598584	01/05/23 10:18	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			598011	12/28/22 14:28	KEG	EET DEN
Total/NA	Analysis	SM 2510B		1			597919	12/28/22 13:27	KEG	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			598221	12/30/22 15:25	KEG	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	598480	01/04/23 08:25	ABW	EET DEN

Client Sample ID: MW-3

Date Collected: 12/20/22 14:00

Date Received: 12/21/22 09:10

Lab Sample ID: 280-170638-3

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	597554	12/22/22 16:26	TAW	EET DEN

Eurofins Denver

Lab Chronicle

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Client Sample ID: MW-3

Lab Sample ID: 280-170638-3

Date Collected: 12/20/22 14:00

Matrix: Water

Date Received: 12/21/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	598102	01/03/23 09:13	LJS	EET DEN
Total/NA	Analysis	6010C		1			598440	01/04/23 02:54	KRP	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	598103	01/03/23 08:15	LJS	EET DEN
Total/NA	Analysis	6020A		1			598520	01/03/23 19:03	LMT	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	598103	01/03/23 08:15	LJS	EET DEN
Total/NA	Analysis	6020A		1			598553	01/04/23 21:49	LRD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	597489	12/21/22 22:10	MEC	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	597490	12/21/22 22:10	MEC	EET DEN
Total/NA	Analysis	300.0		2	5 mL	5 mL	597754	12/27/22 18:38	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	597935	12/29/22 01:11	MEC	EET DEN
Total/NA	Analysis	SM 1030E		1			598584	01/05/23 10:18	SAH	EET DEN
Total/NA	Analysis	SM 2320B		1			598011	12/28/22 14:41	KEG	EET DEN
Total/NA	Analysis	SM 2510B		1			597919	12/28/22 13:27	KEG	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			598221	12/30/22 15:25	KEG	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	598480	01/04/23 08:40	ABW	EET DEN

Client Sample ID: FIELD BLANK

Lab Sample ID: 280-170638-4

Date Collected: 12/20/22 13:30

Matrix: Water

Date Received: 12/21/22 09:10

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	597554	12/22/22 09:19	TAW	EET DEN

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-170638-5

Date Collected: 12/20/22 00:00

Matrix: Water

Date Received: 12/21/22 09:10

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	597554	12/22/22 09:43	TAW	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: Jackson County, CO
Project/Site: Jackson Landfill

Job ID: 280-170638-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-23
Wisconsin	State	999615430	08-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Jackson County, CO

Job Number: 280-170638-1

Login Number: 170638

List Number: 1

Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	