

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(80-120)	(80-120)	(80-120)	(80-120)
280-205807-A-5 MS	Matrix Spike	98	92	98	98
280-205807-A-5 MSD	Matrix Spike Duplicate	99	87	100	94
280-205820-1	MW-11D	95	96	96	98
280-205820-2	MW-11S	89	87	98	94
280-205820-3	MW-1D	88	89	99	96
280-205820-4	MW-3D	95	90	98	98
280-205820-5	MW-10S	90	89	98	96
280-205820-6	MW-10D	90	88	99	95
280-205820-7	Duplicate	91	87	100	94
LCS 280-691604/4	Lab Control Sample	96	92	98	96
LCS 280-691740/4	Lab Control Sample	89	88	98	94
LCSD 280-691604/5	Lab Control Sample Dup	93	92	99	95
LCSD 280-691740/5	Lab Control Sample Dup	92	84	103	92
MB 280-691604/9	Method Blank	94	95	97	100
MB 280-691740/9	Method Blank	90	89	98	96

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-691604/9

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			04/15/25 08:20	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			04/15/25 08:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			04/15/25 08:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			04/15/25 08:20	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
2-Butanone (MEK)	ND		10	4.0	ug/L			04/15/25 08:20	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
2-Hexanone	ND		5.0	1.5	ug/L			04/15/25 08:20	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			04/15/25 08:20	1
Acetone	ND		15	5.0	ug/L			04/15/25 08:20	1
Benzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Bromobenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Bromochloromethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Bromodichloromethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Bromoform	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Bromomethane	ND		5.0	2.5	ug/L			04/15/25 08:20	1
Carbon disulfide	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Chlorobenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Chloroethane	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Chloroform	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Chloromethane	ND		2.0	0.50	ug/L			04/15/25 08:20	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Dibromomethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Ethylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Isopropylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: MB 280-691604/9

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	1.0	ug/L			04/15/25 08:20	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Naphthalene	ND		3.0	1.0	ug/L			04/15/25 08:20	1
n-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
N-Propylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
o-Xylene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Styrene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Tetrachloroethene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Toluene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Trichloroethene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Vinyl chloride	ND		1.0	0.25	ug/L			04/15/25 08:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		80 - 120		04/15/25 08:20	1
4-Bromofluorobenzene (Surr)	95		80 - 120		04/15/25 08:20	1
Dibromofluoromethane (Surr)	97		80 - 120		04/15/25 08:20	1
Toluene-d8 (Surr)	100		80 - 120		04/15/25 08:20	1

Lab Sample ID: LCS 280-691604/4

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	51.3		ug/L		103	79 - 125
1,1,1-Trichloroethane	50.0	43.3		ug/L		87	78 - 125
1,1,2,2-Tetrachloroethane	50.0	53.9		ug/L		108	73 - 126
1,1,2-Trichloroethane	50.0	53.8		ug/L		108	80 - 121
1,1-Dichloroethane	50.0	44.9		ug/L		90	78 - 124
1,1-Dichloroethene	50.0	41.3		ug/L		83	76 - 124
1,1-Dichloropropene	50.0	44.0		ug/L		88	80 - 124
1,2,3-Trichlorobenzene	50.0	56.2		ug/L		112	57 - 136
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	75 - 123
1,2,4-Trichlorobenzene	50.0	53.7		ug/L		107	69 - 130
1,2,4-Trimethylbenzene	50.0	48.0		ug/L		96	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	54.0		ug/L		108	64 - 130
1,2-Dibromoethane	50.0	53.2		ug/L		106	80 - 120
1,2-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	43.7		ug/L		87	73 - 124
1,2-Dichloropropane	50.0	49.3		ug/L		99	78 - 124
1,3,5-Trimethylbenzene	50.0	48.0		ug/L		96	80 - 122
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120
1,3-Dichloropropane	50.0	51.7		ug/L		103	80 - 121
1,4-Dichlorobenzene	50.0	51.5		ug/L		103	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: LCS 280-691604/4

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	50.0	45.1		ug/L		90	72 - 131
2-Butanone (MEK)	200	236		ug/L		118	59 - 141
2-Chlorotoluene	50.0	47.4		ug/L		95	80 - 120
2-Hexanone	200	232		ug/L		116	59 - 146
4-Chlorotoluene	50.0	48.8		ug/L		98	80 - 121
4-Isopropyltoluene	50.0	50.5		ug/L		101	80 - 124
4-Methyl-2-pentanone (MIBK)	200	239		ug/L		119	63 - 144
Acetone	200	235		ug/L		117	57 - 143
Benzene	50.0	45.6		ug/L		91	80 - 121
Bromobenzene	50.0	46.9		ug/L		94	80 - 120
Bromochloromethane	50.0	48.8		ug/L		98	76 - 126
Bromodichloromethane	50.0	48.0		ug/L		96	80 - 124
Bromoform	50.0	45.4		ug/L		91	66 - 134
Bromomethane	50.0	41.1		ug/L		82	10 - 150
Carbon disulfide	50.0	41.5		ug/L		83	70 - 127
Carbon tetrachloride	50.0	45.6		ug/L		91	72 - 131
Chlorobenzene	50.0	49.9		ug/L		100	80 - 120
Chloroethane	50.0	44.3		ug/L		89	51 - 149
Chloroform	50.0	45.1		ug/L		90	80 - 120
Chloromethane	50.0	46.0		ug/L		92	51 - 142
cis-1,2-Dichloroethene	50.0	46.6		ug/L		93	80 - 121
cis-1,3-Dichloropropene	50.0	48.7		ug/L		97	77 - 127
Dibromochloromethane	50.0	51.4		ug/L		103	77 - 128
Dibromomethane	50.0	53.4		ug/L		107	80 - 120
Dichlorodifluoromethane	50.0	36.0		ug/L		72	36 - 150
Ethylbenzene	50.0	47.4		ug/L		95	80 - 120
Hexachlorobutadiene	50.0	55.5		ug/L		111	66 - 135
Isopropylbenzene	50.0	45.2		ug/L		90	78 - 123
Methylene Chloride	50.0	50.3		ug/L		101	77 - 121
m-Xylene & p-Xylene	50.0	50.0		ug/L		100	80 - 121
Naphthalene	50.0	51.6		ug/L		103	55 - 135
n-Butylbenzene	50.0	53.8		ug/L		108	73 - 131
N-Propylbenzene	50.0	46.9		ug/L		94	80 - 123
o-Xylene	50.0	50.0		ug/L		100	80 - 121
sec-Butylbenzene	50.0	49.8		ug/L		100	80 - 125
Styrene	50.0	50.9		ug/L		102	80 - 123
tert-Butylbenzene	50.0	48.2		ug/L		96	80 - 121
Tetrachloroethene	50.0	45.0		ug/L		90	79 - 125
Toluene	50.0	47.2		ug/L		94	80 - 120
trans-1,2-Dichloroethene	50.0	43.9		ug/L		88	78 - 123
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	79 - 124
Trichloroethene	50.0	43.0		ug/L		86	79 - 121
Trichlorofluoromethane	50.0	41.9		ug/L		84	60 - 139
Vinyl chloride	50.0	55.7		ug/L		111	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: LCS 280-691604/4

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 280-691604/5

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/L		108	79 - 125	5	20
1,1,1-Trichloroethane	50.0	44.8		ug/L		90	78 - 125	3	20
1,1,2,2-Tetrachloroethane	50.0	57.0		ug/L		114	73 - 126	5	20
1,1,2-Trichloroethane	50.0	56.3		ug/L		113	80 - 121	5	20
1,1-Dichloroethane	50.0	45.5		ug/L		91	78 - 124	1	20
1,1-Dichloroethene	50.0	42.4		ug/L		85	76 - 124	3	20
1,1-Dichloropropene	50.0	45.5		ug/L		91	80 - 124	3	20
1,2,3-Trichlorobenzene	50.0	62.4		ug/L		125	57 - 136	10	21
1,2,3-Trichloropropane	50.0	53.3		ug/L		107	75 - 123	7	26
1,2,4-Trichlorobenzene	50.0	58.5		ug/L		117	69 - 130	9	20
1,2,4-Trimethylbenzene	50.0	51.7		ug/L		103	80 - 123	8	20
1,2-Dibromo-3-Chloropropane	50.0	59.4		ug/L		119	64 - 130	10	20
1,2-Dibromoethane	50.0	56.4		ug/L		113	80 - 120	6	20
1,2-Dichlorobenzene	50.0	54.8		ug/L		110	80 - 120	9	20
1,2-Dichloroethane	50.0	44.9		ug/L		90	73 - 124	3	20
1,2-Dichloropropane	50.0	50.5		ug/L		101	78 - 124	2	20
1,3,5-Trimethylbenzene	50.0	51.1		ug/L		102	80 - 122	6	20
1,3-Dichlorobenzene	50.0	53.9		ug/L		108	80 - 120	9	20
1,3-Dichloropropane	50.0	53.7		ug/L		107	80 - 121	4	20
1,4-Dichlorobenzene	50.0	55.3		ug/L		111	80 - 120	7	20
2,2-Dichloropropane	50.0	46.2		ug/L		92	72 - 131	2	20
2-Butanone (MEK)	200	228		ug/L		114	59 - 141	4	20
2-Chlorotoluene	50.0	51.4		ug/L		103	80 - 120	8	20
2-Hexanone	200	235		ug/L		117	59 - 146	1	20
4-Chlorotoluene	50.0	52.4		ug/L		105	80 - 121	7	20
4-Isopropyltoluene	50.0	54.7		ug/L		109	80 - 124	8	20
4-Methyl-2-pentanone (MIBK)	200	239		ug/L		120	63 - 144	0	20
Acetone	200	185	*1	ug/L		92	57 - 143	24	22
Benzene	50.0	46.8		ug/L		94	80 - 121	2	20
Bromobenzene	50.0	50.8		ug/L		102	80 - 120	8	20
Bromochloromethane	50.0	52.2		ug/L		104	76 - 126	7	20
Bromodichloromethane	50.0	49.6		ug/L		99	80 - 124	3	20
Bromoform	50.0	49.2		ug/L		98	66 - 134	8	20
Bromomethane	50.0	45.4		ug/L		91	10 - 150	10	58
Carbon disulfide	50.0	43.0		ug/L		86	70 - 127	4	20
Carbon tetrachloride	50.0	48.2		ug/L		96	72 - 131	6	20
Chlorobenzene	50.0	52.2		ug/L		104	80 - 120	4	20
Chloroethane	50.0	47.4		ug/L		95	51 - 149	7	34
Chloroform	50.0	46.1		ug/L		92	80 - 120	2	20
Chloromethane	50.0	44.2		ug/L		88	51 - 142	4	21

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: LCSD 280-691604/5

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	80 - 121	2	20
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	77 - 127	3	20
Dibromochloromethane	50.0	54.9		ug/L		110	77 - 128	6	20
Dibromomethane	50.0	54.8		ug/L		110	80 - 120	3	20
Dichlorodifluoromethane	50.0	34.6		ug/L		69	36 - 150	4	35
Ethylbenzene	50.0	50.7		ug/L		101	80 - 120	7	20
Hexachlorobutadiene	50.0	60.8		ug/L		122	66 - 135	9	20
Isopropylbenzene	50.0	48.6		ug/L		97	78 - 123	7	20
Methylene Chloride	50.0	51.0		ug/L		102	77 - 121	1	20
m-Xylene & p-Xylene	50.0	52.7		ug/L		105	80 - 121	5	20
Naphthalene	50.0	56.6		ug/L		113	55 - 135	9	23
n-Butylbenzene	50.0	58.1		ug/L		116	73 - 131	8	25
N-Propylbenzene	50.0	51.4		ug/L		103	80 - 123	9	20
o-Xylene	50.0	52.1		ug/L		104	80 - 121	4	20
sec-Butylbenzene	50.0	54.1		ug/L		108	80 - 125	8	20
Styrene	50.0	52.6		ug/L		105	80 - 123	3	20
tert-Butylbenzene	50.0	52.7		ug/L		105	80 - 121	9	20
Tetrachloroethene	50.0	48.1		ug/L		96	79 - 125	7	20
Toluene	50.0	49.0		ug/L		98	80 - 120	4	20
trans-1,2-Dichloroethene	50.0	46.6		ug/L		93	78 - 123	6	20
trans-1,3-Dichloropropene	50.0	54.6		ug/L		109	79 - 124	5	20
Trichloroethene	50.0	44.3		ug/L		89	79 - 121	3	20
Trichlorofluoromethane	50.0	45.0		ug/L		90	60 - 139	7	25
Vinyl chloride	50.0	54.6		ug/L		109	60 - 136	2	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: 280-205807-A-5 MS

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		25.0	25.7		ug/L		103	79 - 125
1,1,1-Trichloroethane	ND		25.0	22.5		ug/L		90	78 - 125
1,1,2,2-Tetrachloroethane	ND		25.0	28.4		ug/L		113	73 - 126
1,1,2-Trichloroethane	ND		25.0	27.9		ug/L		111	80 - 121
1,1-Dichloroethane	ND		25.0	22.9		ug/L		92	78 - 124
1,1-Dichloroethene	ND		25.0	21.0		ug/L		84	76 - 124
1,1-Dichloropropene	ND		25.0	22.7		ug/L		91	80 - 124
1,2,3-Trichlorobenzene	ND		25.0	28.1		ug/L		112	57 - 136
1,2,3-Trichloropropane	ND		25.0	25.9		ug/L		104	75 - 123
1,2,4-Trichlorobenzene	ND		25.0	26.9		ug/L		107	69 - 130
1,2,4-Trimethylbenzene	ND		25.0	24.6		ug/L		98	80 - 123
1,2-Dibromo-3-Chloropropane	ND		25.0	26.2		ug/L		105	64 - 130

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: 280-205807-A-5 MS

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	ND		25.0	27.2		ug/L		109	80 - 120
1,2-Dichlorobenzene	ND		25.0	25.7		ug/L		103	80 - 120
1,2-Dichloroethane	ND		25.0	22.9		ug/L		92	73 - 124
1,2-Dichloropropane	ND		25.0	25.5		ug/L		102	78 - 124
1,3,5-Trimethylbenzene	ND		25.0	24.3		ug/L		97	80 - 122
1,3-Dichlorobenzene	ND		25.0	25.4		ug/L		102	80 - 120
1,3-Dichloropropane	ND		25.0	27.0		ug/L		108	80 - 121
1,4-Dichlorobenzene	ND		25.0	26.4		ug/L		106	80 - 120
2,2-Dichloropropane	ND		25.0	20.4		ug/L		82	72 - 131
2-Butanone (MEK)	ND		100	97.3		ug/L		97	59 - 141
2-Chlorotoluene	ND		25.0	24.4		ug/L		98	80 - 120
2-Hexanone	ND		100	113		ug/L		113	59 - 146
4-Chlorotoluene	ND		25.0	25.2		ug/L		101	80 - 121
4-Isopropyltoluene	ND		25.0	25.7		ug/L		103	80 - 124
4-Methyl-2-pentanone (MIBK)	ND		100	115		ug/L		115	63 - 144
Acetone	ND	*1	100	80.5		ug/L		81	57 - 143
Benzene	ND		25.0	24.3		ug/L		97	80 - 121
Bromobenzene	ND		25.0	24.7		ug/L		99	80 - 120
Bromochloromethane	ND		25.0	25.5		ug/L		102	76 - 126
Bromodichloromethane	ND		25.0	23.0		ug/L		92	80 - 124
Bromoform	ND		25.0	21.8		ug/L		87	66 - 134
Bromomethane	ND		25.0	20.2		ug/L		81	10 - 150
Carbon disulfide	ND		25.0	20.1		ug/L		81	70 - 127
Carbon tetrachloride	ND		25.0	23.0		ug/L		92	72 - 131
Chlorobenzene	ND		25.0	26.4		ug/L		105	80 - 120
Chloroethane	ND		25.0	20.3		ug/L		81	51 - 149
Chloroform	ND		25.0	23.3		ug/L		93	80 - 120
Chloromethane	ND		25.0	18.7		ug/L		75	51 - 142
cis-1,2-Dichloroethene	7.6		25.0	31.3		ug/L		95	80 - 121
cis-1,3-Dichloropropene	ND		25.0	23.2		ug/L		93	77 - 127
Dibromochloromethane	ND		25.0	24.7		ug/L		99	77 - 128
Dibromomethane	ND		25.0	26.4		ug/L		105	80 - 120
Dichlorodifluoromethane	ND		25.0	12.6		ug/L		50	36 - 150
Ethylbenzene	ND		25.0	25.0		ug/L		100	80 - 120
Hexachlorobutadiene	ND		25.0	27.7		ug/L		111	66 - 135
Isopropylbenzene	ND		25.0	23.2		ug/L		93	78 - 123
Methylene Chloride	ND		25.0	24.2		ug/L		97	77 - 121
m-Xylene & p-Xylene	ND		25.0	25.7		ug/L		103	80 - 121
Naphthalene	ND		25.0	26.2		ug/L		105	55 - 135
n-Butylbenzene	ND		25.0	26.8		ug/L		107	73 - 131
N-Propylbenzene	ND		25.0	24.0		ug/L		96	80 - 123
o-Xylene	ND		25.0	25.2		ug/L		101	80 - 121
sec-Butylbenzene	ND		25.0	24.9		ug/L		99	80 - 125
Styrene	ND		25.0	25.2		ug/L		101	80 - 123
tert-Butylbenzene	ND		25.0	25.0		ug/L		100	80 - 121
Tetrachloroethene	ND		25.0	23.9		ug/L		96	79 - 125
Toluene	ND		25.0	24.4		ug/L		98	80 - 120
trans-1,2-Dichloroethene	ND		25.0	23.2		ug/L		93	78 - 123
trans-1,3-Dichloropropene	ND		25.0	24.9		ug/L		100	79 - 124

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: 280-205807-A-5 MS

Matrix: Water

Analysis Batch: 691604

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
Trichloroethene	ND		25.0	22.3		ug/L		89	79 - 121
Trichlorofluoromethane	ND		25.0	21.7		ug/L		87	60 - 139
Vinyl chloride	ND		25.0	23.7		ug/L		95	60 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	98		80 - 120						
4-Bromofluorobenzene (Surr)	92		80 - 120						
Dibromofluoromethane (Surr)	98		80 - 120						
Toluene-d8 (Surr)	98		80 - 120						

Lab Sample ID: 280-205807-A-5 MSD

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	25.0		ug/L		100	79 - 125	3	20
1,1,1-Trichloroethane	ND		25.0	22.4		ug/L		89	78 - 125	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.9		ug/L		108	73 - 126	5	20
1,1,2-Trichloroethane	ND		25.0	27.4		ug/L		109	80 - 121	2	20
1,1-Dichloroethane	ND		25.0	22.6		ug/L		90	78 - 124	1	20
1,1-Dichloroethene	ND		25.0	22.4		ug/L		89	76 - 124	6	20
1,1-Dichloropropene	ND		25.0	23.1		ug/L		93	80 - 124	2	20
1,2,3-Trichlorobenzene	ND		25.0	29.1		ug/L		116	57 - 136	3	21
1,2,3-Trichloropropane	ND		25.0	24.9		ug/L		100	75 - 123	4	26
1,2,4-Trichlorobenzene	ND		25.0	27.8		ug/L		111	69 - 130	3	20
1,2,4-Trimethylbenzene	ND		25.0	23.7		ug/L		95	80 - 123	4	20
1,2-Dibromo-3-Chloropropane	ND		25.0	26.4		ug/L		106	64 - 130	1	20
1,2-Dibromoethane	ND		25.0	26.2		ug/L		105	80 - 120	4	20
1,2-Dichlorobenzene	ND		25.0	25.5		ug/L		102	80 - 120	1	20
1,2-Dichloroethane	ND		25.0	22.8		ug/L		91	73 - 124	0	20
1,2-Dichloropropane	ND		25.0	25.0		ug/L		100	78 - 124	2	20
1,3,5-Trimethylbenzene	ND		25.0	23.3		ug/L		93	80 - 122	4	20
1,3-Dichlorobenzene	ND		25.0	24.9		ug/L		100	80 - 120	2	20
1,3-Dichloropropane	ND		25.0	25.8		ug/L		103	80 - 121	4	20
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		104	80 - 120	2	20
2,2-Dichloropropane	ND		25.0	19.4		ug/L		78	72 - 131	5	20
2-Butanone (MEK)	ND		100	110		ug/L		110	59 - 141	13	20
2-Chlorotoluene	ND		25.0	23.4		ug/L		94	80 - 120	4	20
2-Hexanone	ND		100	107		ug/L		107	59 - 146	6	20
4-Chlorotoluene	ND		25.0	24.5		ug/L		98	80 - 121	3	20
4-Isopropyltoluene	ND		25.0	25.4		ug/L		101	80 - 124	1	20
4-Methyl-2-pentanone (MIBK)	ND		100	110		ug/L		110	63 - 144	4	20
Acetone	ND	*1	100	94.3		ug/L		94	57 - 143	16	22
Benzene	ND		25.0	24.2		ug/L		97	80 - 121	1	20
Bromobenzene	ND		25.0	23.5		ug/L		94	80 - 120	5	20
Bromochloromethane	ND		25.0	27.8		ug/L		111	76 - 126	9	20
Bromodichloromethane	ND		25.0	23.7		ug/L		95	80 - 124	3	20
Bromoform	ND		25.0	21.8		ug/L		87	66 - 134	0	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: 280-205807-A-5 MSD

Matrix: Water

Analysis Batch: 691604

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
Bromomethane	ND		25.0	27.7		ug/L		111	10 - 150	31	58
Carbon disulfide	ND		25.0	21.4		ug/L		86	70 - 127	6	20
Carbon tetrachloride	ND		25.0	23.2		ug/L		93	72 - 131	1	20
Chlorobenzene	ND		25.0	25.7		ug/L		103	80 - 120	2	20
Chloroethane	ND		25.0	22.2		ug/L		89	51 - 149	9	34
Chloroform	ND		25.0	23.8		ug/L		95	80 - 120	2	20
Chloromethane	ND		25.0	19.1		ug/L		76	51 - 142	2	21
cis-1,2-Dichloroethene	7.6		25.0	31.1		ug/L		94	80 - 121	1	20
cis-1,3-Dichloropropene	ND		25.0	22.5		ug/L		90	77 - 127	3	20
Dibromochloromethane	ND		25.0	23.9		ug/L		96	77 - 128	3	20
Dibromomethane	ND		25.0	27.0		ug/L		108	80 - 120	3	20
Dichlorodifluoromethane	ND		25.0	12.7		ug/L		51	36 - 150	1	35
Ethylbenzene	ND		25.0	24.4		ug/L		98	80 - 120	2	20
Hexachlorobutadiene	ND		25.0	27.8		ug/L		111	66 - 135	0	20
Isopropylbenzene	ND		25.0	22.2		ug/L		89	78 - 123	4	20
Methylene Chloride	ND		25.0	26.7		ug/L		107	77 - 121	10	20
m-Xylene & p-Xylene	ND		25.0	25.1		ug/L		100	80 - 121	2	20
Naphthalene	ND		25.0	26.4		ug/L		106	55 - 135	1	23
n-Butylbenzene	ND		25.0	26.1		ug/L		104	73 - 131	3	25
N-Propylbenzene	ND		25.0	23.0		ug/L		92	80 - 123	4	20
o-Xylene	ND		25.0	25.3		ug/L		101	80 - 121	0	20
sec-Butylbenzene	ND		25.0	24.1		ug/L		96	80 - 125	3	20
Styrene	ND		25.0	25.3		ug/L		101	80 - 123	0	20
tert-Butylbenzene	ND		25.0	24.3		ug/L		97	80 - 121	3	20
Tetrachloroethene	ND		25.0	23.3		ug/L		93	79 - 125	2	20
Toluene	ND		25.0	24.6		ug/L		98	80 - 120	0	20
trans-1,2-Dichloroethene	ND		25.0	23.7		ug/L		95	78 - 123	2	20
trans-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	79 - 124	1	20
Trichloroethene	ND		25.0	21.3		ug/L		85	79 - 121	4	20
Trichlorofluoromethane	ND		25.0	22.5		ug/L		90	60 - 139	4	25
Vinyl chloride	ND		25.0	24.9		ug/L		100	60 - 136	5	23

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	87		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: MB 280-691740/9

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: MB 280-691740/9

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			04/15/25 20:15	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			04/15/25 20:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			04/15/25 20:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			04/15/25 20:15	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
2-Butanone (MEK)	ND		10	4.0	ug/L			04/15/25 20:15	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
2-Hexanone	ND		5.0	1.5	ug/L			04/15/25 20:15	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			04/15/25 20:15	1
Acetone	10.9	J	15	5.0	ug/L			04/15/25 20:15	1
Benzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Bromobenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Bromochloromethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Bromodichloromethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Bromoform	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Bromomethane	ND		5.0	2.5	ug/L			04/15/25 20:15	1
Carbon disulfide	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Chlorobenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Chloroethane	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Chloroform	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Chloromethane	ND		2.0	0.50	ug/L			04/15/25 20:15	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Dibromomethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Ethylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Isopropylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Methylene Chloride	ND		2.0	1.0	ug/L			04/15/25 20:15	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Naphthalene	ND		3.0	1.0	ug/L			04/15/25 20:15	1
n-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
N-Propylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
o-Xylene	ND		1.0	0.25	ug/L			04/15/25 20:15	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: MB 280-691740/9

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Styrene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Tetrachloroethene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Toluene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Trichloroethene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Vinyl chloride	ND		1.0	0.25	ug/L			04/15/25 20:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		80 - 120		04/15/25 20:15	1
4-Bromofluorobenzene (Surr)	89		80 - 120		04/15/25 20:15	1
Dibromofluoromethane (Surr)	98		80 - 120		04/15/25 20:15	1
Toluene-d8 (Surr)	96		80 - 120		04/15/25 20:15	1

Lab Sample ID: LCS 280-691740/4

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	50.6		ug/L		101	79 - 125
1,1,1-Trichloroethane	50.0	46.1		ug/L		92	78 - 125
1,1,2,2-Tetrachloroethane	50.0	50.6		ug/L		101	73 - 126
1,1,2-Trichloroethane	50.0	55.9		ug/L		112	80 - 121
1,1-Dichloroethane	50.0	44.8		ug/L		90	78 - 124
1,1-Dichloroethene	50.0	50.9		ug/L		102	76 - 124
1,1-Dichloropropene	50.0	47.8		ug/L		96	80 - 124
1,2,3-Trichlorobenzene	50.0	53.5		ug/L		107	57 - 136
1,2,3-Trichloropropane	50.0	46.6		ug/L		93	75 - 123
1,2,4-Trichlorobenzene	50.0	51.1		ug/L		102	69 - 130
1,2,4-Trimethylbenzene	50.0	46.3		ug/L		93	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	51.2		ug/L		102	64 - 130
1,2-Dibromoethane	50.0	51.6		ug/L		103	80 - 120
1,2-Dichlorobenzene	50.0	47.8		ug/L		96	80 - 120
1,2-Dichloroethane	50.0	44.1		ug/L		88	73 - 124
1,2-Dichloropropane	50.0	47.9		ug/L		96	78 - 124
1,3,5-Trimethylbenzene	50.0	46.2		ug/L		92	80 - 122
1,3-Dichlorobenzene	50.0	48.9		ug/L		98	80 - 120
1,3-Dichloropropane	50.0	49.0		ug/L		98	80 - 121
1,4-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 120
2,2-Dichloropropane	50.0	46.3		ug/L		93	72 - 131
2-Butanone (MEK)	200	169		ug/L		85	59 - 141
2-Chlorotoluene	50.0	46.0		ug/L		92	80 - 120
2-Hexanone	200	197		ug/L		98	59 - 146
4-Chlorotoluene	50.0	47.1		ug/L		94	80 - 121
4-Isopropyltoluene	50.0	49.8		ug/L		100	80 - 124

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: LCS 280-691740/4

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone (MIBK)	200	218		ug/L		109	63 - 144
Acetone	200	169		ug/L		84	57 - 143
Benzene	50.0	46.1		ug/L		92	80 - 121
Bromobenzene	50.0	45.4		ug/L		91	80 - 120
Bromochloromethane	50.0	48.4		ug/L		97	76 - 126
Bromodichloromethane	50.0	50.7		ug/L		101	80 - 124
Bromoform	50.0	45.1		ug/L		90	66 - 134
Bromomethane	50.0	52.8		ug/L		106	10 - 150
Carbon disulfide	50.0	54.1		ug/L		108	70 - 127
Carbon tetrachloride	50.0	51.6		ug/L		103	72 - 131
Chlorobenzene	50.0	49.0		ug/L		98	80 - 120
Chloroethane	50.0	49.8		ug/L		100	51 - 149
Chloroform	50.0	45.6		ug/L		91	80 - 120
Chloromethane	50.0	41.0		ug/L		82	51 - 142
cis-1,2-Dichloroethene	50.0	47.5		ug/L		95	80 - 121
cis-1,3-Dichloropropene	50.0	46.9		ug/L		94	77 - 127
Dibromochloromethane	50.0	51.8		ug/L		104	77 - 128
Dibromomethane	50.0	49.7		ug/L		99	80 - 120
Dichlorodifluoromethane	50.0	43.2		ug/L		86	36 - 150
Ethylbenzene	50.0	48.2		ug/L		96	80 - 120
Hexachlorobutadiene	50.0	54.4		ug/L		109	66 - 135
Isopropylbenzene	50.0	44.5		ug/L		89	78 - 123
Methylene Chloride	50.0	53.0		ug/L		106	77 - 121
m-Xylene & p-Xylene	50.0	49.3		ug/L		99	80 - 121
Naphthalene	50.0	48.5		ug/L		97	55 - 135
n-Butylbenzene	50.0	52.2		ug/L		104	73 - 131
N-Propylbenzene	50.0	46.2		ug/L		92	80 - 123
o-Xylene	50.0	49.6		ug/L		99	80 - 121
sec-Butylbenzene	50.0	49.0		ug/L		98	80 - 125
Styrene	50.0	49.6		ug/L		99	80 - 123
tert-Butylbenzene	50.0	48.0		ug/L		96	80 - 121
Tetrachloroethene	50.0	45.5		ug/L		91	79 - 125
Toluene	50.0	49.3		ug/L		99	80 - 120
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	78 - 123
trans-1,3-Dichloropropene	50.0	53.3		ug/L		107	79 - 124
Trichloroethene	50.0	40.1		ug/L		80	79 - 121
Trichlorofluoromethane	50.0	49.8		ug/L		100	60 - 139
Vinyl chloride	50.0	49.9		ug/L		100	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		80 - 120
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	94		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: LCSD 280-691740/5

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/L		104	79 - 125	3	20
1,1,1-Trichloroethane	50.0	46.6		ug/L		93	78 - 125	1	20
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/L		95	73 - 126	6	20
1,1,2-Trichloroethane	50.0	53.8		ug/L		108	80 - 121	4	20
1,1-Dichloroethane	50.0	43.5		ug/L		87	78 - 124	3	20
1,1-Dichloroethene	50.0	50.1		ug/L		100	76 - 124	2	20
1,1-Dichloropropene	50.0	47.0		ug/L		94	80 - 124	2	20
1,2,3-Trichlorobenzene	50.0	53.5		ug/L		107	57 - 136	0	21
1,2,3-Trichloropropane	50.0	45.2		ug/L		90	75 - 123	3	26
1,2,4-Trichlorobenzene	50.0	51.4		ug/L		103	69 - 130	1	20
1,2,4-Trimethylbenzene	50.0	46.6		ug/L		93	80 - 123	1	20
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/L		104	64 - 130	1	20
1,2-Dibromoethane	50.0	50.7		ug/L		101	80 - 120	2	20
1,2-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120	3	20
1,2-Dichloroethane	50.0	42.9		ug/L		86	73 - 124	3	20
1,2-Dichloropropane	50.0	47.8		ug/L		96	78 - 124	0	20
1,3,5-Trimethylbenzene	50.0	46.1		ug/L		92	80 - 122	0	20
1,3-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	1	20
1,3-Dichloropropane	50.0	47.7		ug/L		95	80 - 121	3	20
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	1	20
2,2-Dichloropropane	50.0	45.1		ug/L		90	72 - 131	3	20
2-Butanone (MEK)	200	188		ug/L		94	59 - 141	10	20
2-Chlorotoluene	50.0	45.9		ug/L		92	80 - 120	0	20
2-Hexanone	200	184		ug/L		92	59 - 146	6	20
4-Chlorotoluene	50.0	47.5		ug/L		95	80 - 121	1	20
4-Isopropyltoluene	50.0	50.4		ug/L		101	80 - 124	1	20
4-Methyl-2-pentanone (MIBK)	200	201		ug/L		100	63 - 144	8	20
Acetone	200	218	*1	ug/L		109	57 - 143	25	22
Benzene	50.0	46.8		ug/L		94	80 - 121	1	20
Bromobenzene	50.0	44.4		ug/L		89	80 - 120	2	20
Bromochloromethane	50.0	53.9		ug/L		108	76 - 126	11	20
Bromodichloromethane	50.0	49.7		ug/L		99	80 - 124	2	20
Bromoform	50.0	46.7		ug/L		93	66 - 134	4	20
Bromomethane	50.0	53.8		ug/L		108	10 - 150	2	58
Carbon disulfide	50.0	54.2		ug/L		108	70 - 127	0	20
Carbon tetrachloride	50.0	53.2		ug/L		106	72 - 131	3	20
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120	2	20
Chloroethane	50.0	48.9		ug/L		98	51 - 149	2	34
Chloroform	50.0	46.2		ug/L		92	80 - 120	1	20
Chloromethane	50.0	37.4		ug/L		75	51 - 142	9	21
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	80 - 121	3	20
cis-1,3-Dichloropropene	50.0	45.0		ug/L		90	77 - 127	4	20
Dibromochloromethane	50.0	51.4		ug/L		103	77 - 128	1	20
Dibromomethane	50.0	54.1		ug/L		108	80 - 120	9	20
Dichlorodifluoromethane	50.0	42.4		ug/L		85	36 - 150	2	35
Ethylbenzene	50.0	49.0		ug/L		98	80 - 120	2	20
Hexachlorobutadiene	50.0	54.2		ug/L		108	66 - 135	0	20
Isopropylbenzene	50.0	44.5		ug/L		89	78 - 123	0	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

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

Lab Sample ID: LCSD 280-691740/5

Matrix: Water

Analysis Batch: 691740

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
Methylene Chloride	50.0	53.4		ug/L		107	77 - 121	1	20
m-Xylene & p-Xylene	50.0	51.0		ug/L		102	80 - 121	3	20
Naphthalene	50.0	49.3		ug/L		99	55 - 135	2	23
n-Butylbenzene	50.0	51.6		ug/L		103	73 - 131	1	25
N-Propylbenzene	50.0	46.7		ug/L		93	80 - 123	1	20
o-Xylene	50.0	51.3		ug/L		103	80 - 121	3	20
sec-Butylbenzene	50.0	49.0		ug/L		98	80 - 125	0	20
Styrene	50.0	51.1		ug/L		102	80 - 123	3	20
tert-Butylbenzene	50.0	48.4		ug/L		97	80 - 121	1	20
Tetrachloroethene	50.0	47.9		ug/L		96	79 - 125	5	20
Toluene	50.0	50.2		ug/L		100	80 - 120	2	20
trans-1,2-Dichloroethene	50.0	51.1		ug/L		102	78 - 123	4	20
trans-1,3-Dichloropropene	50.0	51.7		ug/L		103	79 - 124	3	20
Trichloroethene	50.0	42.1		ug/L		84	79 - 121	5	20
Trichlorofluoromethane	50.0	50.9		ug/L		102	60 - 139	2	25
Vinyl chloride	50.0	46.3		ug/L		93	60 - 136	7	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	84		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	92		80 - 120

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-691305/1-A

Matrix: Water

Analysis Batch: 691609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 691305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		04/11/25 13:04	04/14/25 15:38	1

Lab Sample ID: LCS 280-691305/2-A

Matrix: Water

Analysis Batch: 691609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 691305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.1		ug/L		103	89 - 111

Lab Sample ID: 280-205801-A-1-B MS

Matrix: Water

Analysis Batch: 691609

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 691305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	39.1		ug/L		98	79 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-205801-A-1-C MSD

Matrix: Water

Analysis Batch: 691609

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 691305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	41.5		ug/L		104	79 - 120	6	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-691335/1-A

Matrix: Water

Analysis Batch: 691862

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 691335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	60	ug/L		04/14/25 15:46	04/15/25 20:25	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 20:25	1
Magnesium	ND		200	50	ug/L		04/14/25 15:46	04/15/25 20:25	1
Manganese	ND		10	2.5	ug/L		04/14/25 15:46	04/15/25 20:25	1
Sodium	ND		1000	450	ug/L		04/14/25 15:46	04/15/25 20:25	1

Lab Sample ID: LCS 280-691335/2-A

Matrix: Water

Analysis Batch: 691862

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 691335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	49700		ug/L		99	85 - 115
Iron	10000	10100		ug/L		101	85 - 115
Magnesium	50000	48800		ug/L		98	85 - 115
Manganese	1000	999		ug/L		100	85 - 115
Sodium	50000	52600		ug/L		105	85 - 115

Lab Sample ID: 280-205820-6 MS

Matrix: Water

Analysis Batch: 691862

Client Sample ID: MW-10D

Prep Type: Dissolved

Prep Batch: 691335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	110000		50000	157000		ug/L		98	75 - 125
Iron	ND		10000	9950		ug/L		100	75 - 125
Magnesium	34000		50000	83500		ug/L		98	75 - 125
Manganese	59		1000	1040		ug/L		98	75 - 125
Sodium	33000		50000	86900		ug/L		108	75 - 125

Lab Sample ID: 280-205820-6 MSD

Matrix: Water

Analysis Batch: 691862

Client Sample ID: MW-10D

Prep Type: Dissolved

Prep Batch: 691335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	110000		50000	156000		ug/L		95	75 - 125	1	20
Iron	ND		10000	9950		ug/L		99	75 - 125	0	20
Magnesium	34000		50000	83100		ug/L		97	75 - 125	0	20
Manganese	59		1000	1040		ug/L		98	75 - 125	0	20
Sodium	33000		50000	86600		ug/L		107	75 - 125	0	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-691496/40

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			04/14/25 22:56	1

Lab Sample ID: MB 280-691496/6

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			04/14/25 13:55	1

Lab Sample ID: LCS 280-691496/38

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCS 280-691496/4

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 280-691496/39

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: LCSD 280-691496/5

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-691496/3

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.94	J	mg/L		98	50 - 150

Lab Sample ID: 280-205820-2 MS

Matrix: Water

Analysis Batch: 691496

Client Sample ID: MW-11S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	21		50.0	71.7		mg/L		101	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-205820-2 MSD

Matrix: Water

Analysis Batch: 691496

Client Sample ID: MW-11S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	21		50.0	71.6		mg/L		101	80 - 120	0	20

Lab Sample ID: 280-205820-2 DU

Matrix: Water

Analysis Batch: 691496

Client Sample ID: MW-11S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	21		21.1		mg/L		1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-692003/6

Matrix: Water

Analysis Batch: 692003

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			04/16/25 13:26	1

Lab Sample ID: 280-205776-P-1 DU

Matrix: Water

Analysis Batch: 692003

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	170		173		mg/L		0.9	20

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

Lab Sample ID: MB 280-691453/1

Matrix: Water

Analysis Batch: 691453

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	6.0	mg/L			04/14/25 08:57	1

Lab Sample ID: LCS 280-691453/2

Matrix: Water

Analysis Batch: 691453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	500	471		mg/L		94	88 - 114

Lab Sample ID: 280-205797-A-1 DU

Matrix: Water

Analysis Batch: 691453

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	28000		26800		mg/L		3	10

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-691517/1

Matrix: Water

Analysis Batch: 691517

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.5	mg/L			04/14/25 12:38	1

Lab Sample ID: LCS 280-691517/2

Matrix: Water

Analysis Batch: 691517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	505	476		mg/L		94	80 - 114

Lab Sample ID: 280-205713-A-3 DU

Matrix: Water

Analysis Batch: 691517

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	2.0	J	2.00	J	mg/L		0	10

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

GC/MS VOA

Analysis Batch: 691604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205820-1	MW-11D	Total/NA	Water	8260D	
MB 280-691604/9	Method Blank	Total/NA	Water	8260D	
LCS 280-691604/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-691604/5	Lab Control Sample Dup	Total/NA	Water	8260D	
280-205807-A-5 MS	Matrix Spike	Total/NA	Water	8260D	
280-205807-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 691740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205820-2	MW-11S	Total/NA	Water	8260D	
280-205820-3	MW-1D	Total/NA	Water	8260D	
280-205820-4	MW-3D	Total/NA	Water	8260D	
280-205820-5	MW-10S	Total/NA	Water	8260D	
280-205820-6	MW-10D	Total/NA	Water	8260D	
280-205820-7	Duplicate	Total/NA	Water	8260D	
MB 280-691740/9	Method Blank	Total/NA	Water	8260D	
LCS 280-691740/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-691740/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 691305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205820-1	MW-11D	Total/NA	Water	200.8	
280-205820-2	MW-11S	Total/NA	Water	200.8	
280-205820-3	MW-1D	Total/NA	Water	200.8	
280-205820-4	MW-3D	Total/NA	Water	200.8	
280-205820-5	MW-10S	Total/NA	Water	200.8	
280-205820-6	MW-10D	Total/NA	Water	200.8	
280-205820-7	Duplicate	Total/NA	Water	200.8	
MB 280-691305/1-A	Method Blank	Total/NA	Water	3005A	
LCS 280-691305/2-A	Lab Control Sample	Total/NA	Water	3005A	
280-205801-A-1-B MS	Matrix Spike	Dissolved	Water	200.8	
280-205801-A-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	

Prep Batch: 691335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205820-1	MW-11D	Dissolved	Water	3005A	
280-205820-2	MW-11S	Dissolved	Water	3005A	
280-205820-3	MW-1D	Dissolved	Water	3005A	
280-205820-4	MW-3D	Dissolved	Water	3005A	
280-205820-5	MW-10S	Dissolved	Water	3005A	
280-205820-6	MW-10D	Dissolved	Water	3005A	
280-205820-7	Duplicate	Dissolved	Water	3005A	
MB 280-691335/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-691335/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-205820-6 MS	MW-10D	Dissolved	Water	3005A	
280-205820-6 MSD	MW-10D	Dissolved	Water	3005A	

Eurofins Denver

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

Metals

Analysis Batch: 691609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205820-1	MW-11D	Total/NA	Water	200.8	691305
280-205820-2	MW-11S	Total/NA	Water	200.8	691305
280-205820-3	MW-1D	Total/NA	Water	200.8	691305
280-205820-4	MW-3D	Total/NA	Water	200.8	691305
280-205820-5	MW-10S	Total/NA	Water	200.8	691305
280-205820-6	MW-10D	Total/NA	Water	200.8	691305
280-205820-7	Duplicate	Total/NA	Water	200.8	691305
MB 280-691305/1-A	Method Blank	Total/NA	Water	200.8	691305
LCS 280-691305/2-A	Lab Control Sample	Total/NA	Water	200.8	691305
280-205801-A-1-B MS	Matrix Spike	Dissolved	Water	200.8	691305
280-205801-A-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	691305

Analysis Batch: 691862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205820-1	MW-11D	Dissolved	Water	6010D	691335
280-205820-2	MW-11S	Dissolved	Water	6010D	691335
280-205820-3	MW-1D	Dissolved	Water	6010D	691335
280-205820-4	MW-3D	Dissolved	Water	6010D	691335
280-205820-5	MW-10S	Dissolved	Water	6010D	691335
280-205820-6	MW-10D	Dissolved	Water	6010D	691335
280-205820-7	Duplicate	Dissolved	Water	6010D	691335
MB 280-691335/1-A	Method Blank	Total Recoverable	Water	6010D	691335
LCS 280-691335/2-A	Lab Control Sample	Total Recoverable	Water	6010D	691335
280-205820-6 MS	MW-10D	Dissolved	Water	6010D	691335
280-205820-6 MSD	MW-10D	Dissolved	Water	6010D	691335

General Chemistry

Analysis Batch: 691453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205820-1	MW-11D	Total/NA	Water	SM 2540C	
280-205820-2	MW-11S	Total/NA	Water	SM 2540C	
280-205820-3	MW-1D	Total/NA	Water	SM 2540C	
280-205820-4	MW-3D	Total/NA	Water	SM 2540C	
280-205820-5	MW-10S	Total/NA	Water	SM 2540C	
280-205820-6	MW-10D	Total/NA	Water	SM 2540C	
280-205820-7	Duplicate	Total/NA	Water	SM 2540C	
MB 280-691453/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-691453/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-205797-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 691496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205820-1	MW-11D	Total/NA	Water	300.0	
280-205820-2	MW-11S	Total/NA	Water	300.0	
280-205820-3	MW-1D	Total/NA	Water	300.0	
280-205820-4	MW-3D	Total/NA	Water	300.0	
280-205820-5	MW-10S	Total/NA	Water	300.0	
280-205820-6	MW-10D	Total/NA	Water	300.0	
280-205820-7	Duplicate	Total/NA	Water	300.0	
MB 280-691496/40	Method Blank	Total/NA	Water	300.0	

Eurofins Denver

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

General Chemistry (Continued)

Analysis Batch: 691496 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-691496/6	Method Blank	Total/NA	Water	300.0	
LCS 280-691496/38	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-691496/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-691496/39	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-691496/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-691496/3	Lab Control Sample	Total/NA	Water	300.0	
280-205820-2 MS	MW-11S	Total/NA	Water	300.0	
280-205820-2 MSD	MW-11S	Total/NA	Water	300.0	
280-205820-2 DU	MW-11S	Total/NA	Water	300.0	

Analysis Batch: 691517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205820-1	MW-11D	Total/NA	Water	SM 2540D	
280-205820-2	MW-11S	Total/NA	Water	SM 2540D	
280-205820-3	MW-1D	Total/NA	Water	SM 2540D	
280-205820-4	MW-3D	Total/NA	Water	SM 2540D	
280-205820-5	MW-10S	Total/NA	Water	SM 2540D	
280-205820-6	MW-10D	Total/NA	Water	SM 2540D	
280-205820-7	Duplicate	Total/NA	Water	SM 2540D	
MB 280-691517/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-691517/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-205713-A-3 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 692003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205820-1	MW-11D	Total/NA	Water	SM 2320B	
280-205820-2	MW-11S	Total/NA	Water	SM 2320B	
280-205820-3	MW-1D	Total/NA	Water	SM 2320B	
280-205820-4	MW-3D	Total/NA	Water	SM 2320B	
280-205820-5	MW-10S	Total/NA	Water	SM 2320B	
280-205820-6	MW-10D	Total/NA	Water	SM 2320B	
280-205820-7	Duplicate	Total/NA	Water	SM 2320B	
MB 280-692003/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-692003/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-692003/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-205776-P-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

Client Sample ID: MW-11D

Date Collected: 04/08/25 11:20

Date Received: 04/10/25 09:35

Lab Sample ID: 280-205820-1

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	8260D		1	5 mL	5 mL	691604	04/15/25 10:22	MD	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691305	04/11/25 13:04	SLH	EET DEN
Total/NA	Analysis	200.8		1			691609	04/14/25 16:00	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691335	04/14/25 15:46	SMK	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 20:55	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691496	04/14/25 18:14	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692003	04/16/25 15:18	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	691453	04/14/25 08:57	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691517	04/14/25 12:38	BRD	EET DEN

Client Sample ID: MW-11S

Date Collected: 04/08/25 12:15

Date Received: 04/10/25 09:35

Lab Sample ID: 280-205820-2

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	8260D		1	5 mL	5 mL	691740	04/15/25 23:09	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691305	04/11/25 13:04	SLH	EET DEN
Total/NA	Analysis	200.8		1			691609	04/14/25 16:07	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691335	04/14/25 15:46	SMK	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 20:59	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691496	04/14/25 18:56	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692003	04/16/25 15:24	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	691453	04/14/25 08:57	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691517	04/14/25 12:38	BRD	EET DEN

Client Sample ID: MW-1D

Date Collected: 04/08/25 14:20

Date Received: 04/10/25 09:35

Lab Sample ID: 280-205820-3

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	8260D		1	5 mL	5 mL	691740	04/15/25 23:29	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691305	04/11/25 13:04	SLH	EET DEN
Total/NA	Analysis	200.8		1			691609	04/14/25 16:09	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691335	04/14/25 15:46	SMK	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 21:17	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691496	04/14/25 20:35	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692003	04/16/25 15:29	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	691453	04/14/25 08:57	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691517	04/14/25 12:38	BRD	EET DEN

Eurofins Denver

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

Client Sample ID: MW-3D

Date Collected: 04/08/25 15:25

Date Received: 04/10/25 09:35

Lab Sample ID: 280-205820-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	691740	04/15/25 23:49	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691305	04/11/25 13:04	SLH	EET DEN
Total/NA	Analysis	200.8		1			691609	04/14/25 16:12	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691335	04/14/25 15:46	SMK	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 21:21	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691496	04/14/25 20:21	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692003	04/16/25 15:35	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	691453	04/14/25 08:57	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691517	04/14/25 12:38	BRD	EET DEN

Client Sample ID: MW-10S

Date Collected: 04/08/25 16:45

Date Received: 04/10/25 09:35

Lab Sample ID: 280-205820-5

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	8260D		1	5 mL	5 mL	691740	04/16/25 00:08	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691305	04/11/25 13:04	SLH	EET DEN
Total/NA	Analysis	200.8		1			691609	04/14/25 16:14	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691335	04/14/25 15:46	SMK	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 21:25	NKC	EET DEN
Total/NA	Analysis	300.0		10	10 mL	10 mL	691496	04/15/25 01:58	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692003	04/16/25 15:43	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	691453	04/14/25 08:57	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691517	04/14/25 12:38	BRD	EET DEN

Client Sample ID: MW-10D

Date Collected: 04/08/25 17:25

Date Received: 04/10/25 09:35

Lab Sample ID: 280-205820-6

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	8260D		1	5 mL	5 mL	691740	04/16/25 00:28	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691305	04/11/25 13:04	SLH	EET DEN
Total/NA	Analysis	200.8		1			691609	04/14/25 16:16	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691335	04/14/25 15:46	SMK	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 21:29	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691496	04/14/25 20:07	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692003	04/16/25 15:49	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	691453	04/14/25 08:57	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691517	04/14/25 12:38	BRD	EET DEN

Eurofins Denver

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205820-1

Client Sample ID: Duplicate

Lab Sample ID: 280-205820-7

Date Collected: 04/08/25 07:00

Matrix: Water

Date Received: 04/10/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	691740	04/16/25 00:48	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691305	04/11/25 13:04	SLH	EET DEN
Total/NA	Analysis	200.8		1			691609	04/14/25 16:19	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691335	04/14/25 15:46	SMK	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 21:51	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691496	04/14/25 19:53	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692003	04/16/25 15:54	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	691453	04/14/25 08:57	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691517	04/14/25 12:38	BRD	EET DEN

Laboratory References:

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

Chain of Custody Record

Client Information		Sampler: Nicholas Rudolph		Lab PM: Collins, Janice S		Carrier Tracking No(s):		COC No: 280-97584-22898.1							
Client Contact:		Phone: 5035806462		E-Mail: Janice.Collins@et.eurofins.com				Page:							
Company: Valley Landfills, Inc. Republic Services		Due Date Requested:		Analysis Requested		Job #:									
Address: 28972 Coffin Butte Road		TAT Requested (days):						Preservation Codes:							
City: Corvallis								A - HCL M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)							
State, Zip: OR, 97330		Compliance Project: Δ Yes Δ No						Other:							
Phone: 503-675-1335(Tel)		PO #: 1584668													
Email:		WO #:													
Project Name: Coffin Butte/Valley Landfills		Project #: 28003197 "GW_SLCS_Leachate"													
Site:		SSOW#:													
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B - Bicarb Alkalinity	2540C/300 - TDS/Chloride	6010D - Dissolved Metals - List D1 (FF)	200.8 - Total Arsenic	2540D - TSS	8260D - VOCs	Total Number of Containers	Special Instructions/Note:
MW-11D	4/8/25	1120	G	W											
MW-11S	4/8/25	1215	G	W											
MW-1D	4/8/25	1420	G	W											
MW-3D	4/8/25	1525	G	W											
MW-10S	4/8/25	1645	G	W											
MW-10D	4/8/25	1725	G	W											
Duplicate 1	4/8/25	0700	G	W											
															
280-205820 Chain of Custody															
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months															
Special Instructions/QC Requirements:															
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____															
Relinquished by: Nicholas Rudolph Date/Time: 4/9/25 1430 Company: GLA															
Relinquished by: _____ Date/Time: _____ Company: _____															
Relinquished by: _____ Date/Time: _____ Company: _____															
Custody Seals Intact: Δ Yes Δ No _____ and Other Remarks: 1.6 8:1.3 M: Naysa															

Do not lift using this tag

ORIGIN ID:CV0A

SHIP DATE: 09APR25
ACTWGT: 63.85 LB
CAD: /SSF02600
DIMS: 26x14x14 IN

TO **SAMPLE RECEIVING**
EUROFINS ENVIR TST DENVER
4955 YARROW ST.

ARVADA CO 80002

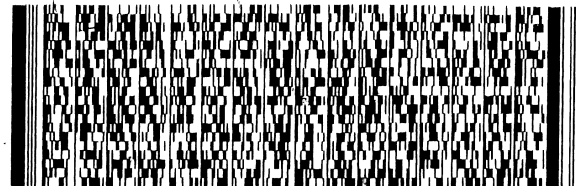
(US)

(303) 736-0100

REF:

INU:

DEPT:



FedEx
Express



TRK# 8185 0566 6250
0667

THU - 10 APR 10:30
PRIORITY OVERNIGHT

XA LAAA

80002
CO - US DEN



280-205820 Waybill



Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-205820-1

Login Number: 205820

List Source: Eurofins Denver

List Number: 1

Creator: Little, Matthew L

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	

ANALYTICAL REPORT

PREPARED FOR

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Generated 4/21/2025 10:09:35 AM

JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-205844-1

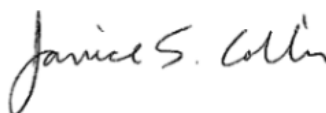
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Job Notes

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

Authorization



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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Qualifiers

Metals

Qualifier	Qualifier Description
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
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.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

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Job Narrative 280-205844-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/11/2025 9:30 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 time was 3.0°C.

Metals

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

General Chemistry

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

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Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Client Sample ID: S2

Lab Sample ID: 280-205844-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	15000		200	60	ug/L	1		6010D	Dissolved
Iron	46	J	100	40	ug/L	1		6010D	Dissolved
Magnesium	6200		200	50	ug/L	1		6010D	Dissolved
Manganese	9.2	J	10	2.5	ug/L	1		6010D	Dissolved
Sodium	6500		1000	450	ug/L	1		6010D	Dissolved
Chloride	5.3		3.0	1.3	mg/L	1		300.0	Total/NA

Client Sample ID: S1

Lab Sample ID: 280-205844-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	15000		200	60	ug/L	1		6010D	Dissolved
Magnesium	6200		200	50	ug/L	1		6010D	Dissolved
Manganese	9.0	J	10	2.5	ug/L	1		6010D	Dissolved
Sodium	6300		1000	450	ug/L	1		6010D	Dissolved
Chloride	4.8		3.0	1.3	mg/L	1		300.0	Total/NA
ortho-Phosphate	0.046	J	0.10	0.035	mg/L	1		365.1	Total/NA

Client Sample ID: S4

Lab Sample ID: 280-205844-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	15000		200	60	ug/L	1		6010D	Dissolved
Magnesium	6100		200	50	ug/L	1		6010D	Dissolved
Manganese	9.5	J	10	2.5	ug/L	1		6010D	Dissolved
Sodium	6500		1000	450	ug/L	1		6010D	Dissolved
Chloride	5.2		3.0	1.3	mg/L	1		300.0	Total/NA

Client Sample ID: Duplicate

Lab Sample ID: 280-205844-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	15000		200	60	ug/L	1		6010D	Dissolved
Magnesium	6100		200	50	ug/L	1		6010D	Dissolved
Manganese	9.2	J	10	2.5	ug/L	1		6010D	Dissolved
Sodium	6400		1000	450	ug/L	1		6010D	Dissolved
Chloride	5.2		3.0	1.3	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
351.2	Nitrogen, Total Kjeldahl	EPA	EET DEN
365.1	Phosphorus, Ortho	EPA	EET DEN
365.1	Phosphorus, Total	EPA	EET DEN
SM5210B	BOD, 5 Day	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
351.2	Nitrogen, Total Kjeldahl	EPA	EET DEN
365.2/365.3/365	Phosphorus, Total	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-205844-1	S2	Water	04/10/25 09:45	04/11/25 09:30
280-205844-2	S1	Water	04/10/25 08:30	04/11/25 09:30
280-205844-3	S4	Water	04/10/25 09:10	04/11/25 09:30
280-205844-4	Duplicate	Water	04/10/25 07:00	04/11/25 09:30

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

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

Client Sample ID: S2
Date Collected: 04/10/25 09:45
Date Received: 04/11/25 09:30

Lab Sample ID: 280-205844-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15000		200	60	ug/L		04/14/25 15:46	04/15/25 18:11	1
Iron	46	J	100	40	ug/L		04/14/25 15:46	04/15/25 18:11	1
Magnesium	6200		200	50	ug/L		04/14/25 15:46	04/15/25 18:11	1
Manganese	9.2	J	10	2.5	ug/L		04/14/25 15:46	04/15/25 18:11	1
Sodium	6500		1000	450	ug/L		04/14/25 15:46	04/15/25 18:11	1

Client Sample ID: S1
Date Collected: 04/10/25 08:30
Date Received: 04/11/25 09:30

Lab Sample ID: 280-205844-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15000		200	60	ug/L		04/14/25 15:46	04/15/25 18:46	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 18:46	1
Magnesium	6200		200	50	ug/L		04/14/25 15:46	04/15/25 18:46	1
Manganese	9.0	J	10	2.5	ug/L		04/14/25 15:46	04/15/25 18:46	1
Sodium	6300		1000	450	ug/L		04/14/25 15:46	04/15/25 18:46	1

Client Sample ID: S4
Date Collected: 04/10/25 09:10
Date Received: 04/11/25 09:30

Lab Sample ID: 280-205844-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15000		200	60	ug/L		04/14/25 15:46	04/15/25 18:50	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 18:50	1
Magnesium	6100		200	50	ug/L		04/14/25 15:46	04/15/25 18:50	1
Manganese	9.5	J	10	2.5	ug/L		04/14/25 15:46	04/15/25 18:50	1
Sodium	6500		1000	450	ug/L		04/14/25 15:46	04/15/25 18:50	1

Client Sample ID: Duplicate
Date Collected: 04/10/25 07:00
Date Received: 04/11/25 09:30

Lab Sample ID: 280-205844-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15000		200	60	ug/L		04/14/25 15:46	04/15/25 18:54	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 18:54	1
Magnesium	6100		200	50	ug/L		04/14/25 15:46	04/15/25 18:54	1
Manganese	9.2	J	10	2.5	ug/L		04/14/25 15:46	04/15/25 18:54	1
Sodium	6400		1000	450	ug/L		04/14/25 15:46	04/15/25 18:54	1

General Chemistry

Client Sample ID: S2
Date Collected: 04/10/25 09:45
Date Received: 04/11/25 09:30

Lab Sample ID: 280-205844-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	5.3		3.0	1.3	mg/L			04/15/25 20:59	1
Nitrogen, Kjeldahl (EPA 351.2)	ND		1.5	0.60	mg/L		04/16/25 16:02	04/17/25 16:52	1
ortho-Phosphate (EPA 365.1)	ND		0.10	0.035	mg/L			04/11/25 15:49	1
Phosphorus, Total (EPA 365.1)	ND		0.10	0.035	mg/L		04/16/25 14:41	04/17/25 17:07	1
Biochemical Oxygen Demand (SM5210B)	ND		5.0	1.9	mg/L			04/11/25 15:56	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

General Chemistry

Client Sample ID: S1
Date Collected: 04/10/25 08:30
Date Received: 04/11/25 09:30

Lab Sample ID: 280-205844-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	4.8		3.0	1.3	mg/L			04/15/25 21:13	1
Nitrogen, Kjeldahl (EPA 351.2)	ND		1.5	0.60	mg/L		04/16/25 16:02	04/17/25 16:52	1
ortho-Phosphate (EPA 365.1)	0.046	J	0.10	0.035	mg/L			04/11/25 15:49	1
Phosphorus, Total (EPA 365.1)	ND		0.10	0.035	mg/L		04/16/25 14:41	04/17/25 17:07	1
Biochemical Oxygen Demand (SM5210B)	ND		5.0	1.9	mg/L			04/11/25 15:56	1

Client Sample ID: S4
Date Collected: 04/10/25 09:10
Date Received: 04/11/25 09:30

Lab Sample ID: 280-205844-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	5.2		3.0	1.3	mg/L			04/15/25 21:27	1
Nitrogen, Kjeldahl (EPA 351.2)	ND		1.5	0.60	mg/L		04/16/25 16:02	04/17/25 16:52	1
ortho-Phosphate (EPA 365.1)	ND		0.10	0.035	mg/L			04/11/25 15:49	1
Phosphorus, Total (EPA 365.1)	ND		0.10	0.035	mg/L		04/16/25 14:41	04/17/25 17:07	1
Biochemical Oxygen Demand (SM5210B)	ND		5.0	1.9	mg/L			04/11/25 15:56	1

Client Sample ID: Duplicate
Date Collected: 04/10/25 07:00
Date Received: 04/11/25 09:30

Lab Sample ID: 280-205844-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	5.2		3.0	1.3	mg/L			04/15/25 21:41	1
Nitrogen, Kjeldahl (EPA 351.2)	ND		1.5	0.60	mg/L		04/16/25 16:02	04/17/25 16:52	1
ortho-Phosphate (EPA 365.1)	ND		0.10	0.035	mg/L			04/11/25 15:49	1
Phosphorus, Total (EPA 365.1)	ND		0.10	0.035	mg/L		04/16/25 14:41	04/17/25 17:07	1
Biochemical Oxygen Demand (SM5210B)	ND		5.0	1.9	mg/L			04/11/25 15:56	1

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-691503/1-A

Matrix: Water

Analysis Batch: 691862

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 691503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	60	ug/L		04/14/25 15:46	04/15/25 18:03	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 18:03	1
Magnesium	ND		200	50	ug/L		04/14/25 15:46	04/15/25 18:03	1
Manganese	ND		10	2.5	ug/L		04/14/25 15:46	04/15/25 18:03	1
Sodium	ND		1000	450	ug/L		04/14/25 15:46	04/15/25 18:03	1

Lab Sample ID: LCS 280-691503/2-A

Matrix: Water

Analysis Batch: 691862

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 691503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	100000	99300		ug/L		99	85 - 115
Iron	20000	20000		ug/L		100	85 - 115
Magnesium	100000	99000		ug/L		99	85 - 115
Manganese	2000	1980		ug/L		99	85 - 115
Sodium	100000	109000		ug/L		109	85 - 115

Lab Sample ID: 280-205844-1 MS

Matrix: Water

Analysis Batch: 691862

Client Sample ID: S2

Prep Type: Dissolved

Prep Batch: 691503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	15000		50000	64700		ug/L		100	75 - 125
Iron	46	J	10000	10200		ug/L		101	75 - 125
Magnesium	6200		50000	56000		ug/L		100	75 - 125
Manganese	9.2	J	1000	1010		ug/L		100	75 - 125
Sodium	6500		50000	59400		ug/L		106	75 - 125

Lab Sample ID: 280-205844-1 MSD

Matrix: Water

Analysis Batch: 691862

Client Sample ID: S2

Prep Type: Dissolved

Prep Batch: 691503

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	15000		50000	65000		ug/L		101	75 - 125	0	20
Iron	46	J	10000	10200		ug/L		102	75 - 125	1	20
Magnesium	6200		50000	56100		ug/L		100	75 - 125	0	20
Manganese	9.2	J	1000	1020		ug/L		101	75 - 125	1	20
Sodium	6500		50000	59600		ug/L		106	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-691730/6

Matrix: Water

Analysis Batch: 691730

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			04/15/25 17:12	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-691730/4

Matrix: Water

Analysis Batch: 691730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 280-691730/5

Matrix: Water

Analysis Batch: 691730

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-691730/3

Matrix: Water

Analysis Batch: 691730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.93	J	mg/L		98	50 - 150

Lab Sample ID: 280-205559-B-10 MS

Matrix: Water

Analysis Batch: 691730

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	310	E	50.0	363	E 4	mg/L		98	80 - 120

Lab Sample ID: 280-205559-B-10 MSD

Matrix: Water

Analysis Batch: 691730

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	310	E	50.0	362	E 4	mg/L		96	80 - 120	0	20

Lab Sample ID: 280-205559-B-10 DU

Matrix: Water

Analysis Batch: 691730

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	310	E	313	E	mg/L		0.3	15

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 280-691998/30-A

Matrix: Water

Analysis Batch: 692215

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 691998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	ND		1.5	0.60	mg/L		04/16/25 16:02	04/17/25 16:48	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 280-691998/28-A
Matrix: Water
Analysis Batch: 692215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 691998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	6.00	5.76		mg/L		96	90 - 110

Lab Sample ID: LCSD 280-691998/29-A
Matrix: Water
Analysis Batch: 692215

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 691998

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	6.00	5.79		mg/L		96	90 - 110	0	25

Lab Sample ID: 280-205906-B-1-B MS
Matrix: Water
Analysis Batch: 692215

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 691998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	ND		3.00	3.20		mg/L		107	90 - 110

Lab Sample ID: 280-205906-B-1-C MSD
Matrix: Water
Analysis Batch: 692215

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 691998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	ND		3.00	3.14		mg/L		105	90 - 110	2	25

Method: 365.1 - Phosphorus, Ortho

Lab Sample ID: MB 280-691355/12
Matrix: Water
Analysis Batch: 691355

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.10	0.035	mg/L			04/11/25 14:38	1

Lab Sample ID: LCS 280-691355/10
Matrix: Water
Analysis Batch: 691355

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
ortho-Phosphate	0.500	0.501		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-691355/11
Matrix: Water
Analysis Batch: 691355

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
ortho-Phosphate	0.500	0.500		mg/L		100	90 - 110	0	10

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Method: 365.1 - Phosphorus, Ortho (Continued)

Lab Sample ID: 280-205844-1 MS

Matrix: Water

Analysis Batch: 691355

Client Sample ID: S2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
ortho-Phosphate	ND		0.500	0.520		mg/L		104	90 - 110		

Lab Sample ID: 280-205844-1 MSD

Matrix: Water

Analysis Batch: 691355

Client Sample ID: S2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
ortho-Phosphate	ND		0.500	0.524		mg/L		105	90 - 110	1	10

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 280-691969/5-A

Matrix: Water

Analysis Batch: 692221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 691969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	ND		0.10	0.035	mg/L		04/16/25 14:41	04/17/25 17:06	1

Lab Sample ID: LCS 280-691969/3-A

Matrix: Water

Analysis Batch: 692221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 691969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phosphorus, Total	0.500	0.508		mg/L		102	90 - 110		

Lab Sample ID: LCSD 280-691969/4-A

Matrix: Water

Analysis Batch: 692221

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 691969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus, Total	0.500	0.492		mg/L		98	90 - 110	3	10

Lab Sample ID: 280-206097-G-1-B MS

Matrix: Water

Analysis Batch: 692221

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 691969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Phosphorus, Total	0.055	J	0.500	0.536		mg/L		96	90 - 110		

Lab Sample ID: 280-206097-G-1-C MSD

Matrix: Water

Analysis Batch: 692221

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 691969

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus, Total	0.055	J	0.500	0.549		mg/L		99	90 - 110	2	10

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 280-691268/27

Matrix: Water

Analysis Batch: 691268

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	0.75	mg/L			04/11/25 15:56	1

Lab Sample ID: MB 280-691268/4

Matrix: Water

Analysis Batch: 691268

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	0.75	mg/L			04/11/25 10:47	1

Lab Sample ID: SCB 280-691268/1

Matrix: Water

Analysis Batch: 691268

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.969	J	2.0	0.75	mg/L			04/11/25 10:47	1

Lab Sample ID: USB 280-691268/2

Matrix: Water

Analysis Batch: 691268

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	0.75	mg/L			04/11/25 10:47	1

Lab Sample ID: LCS 280-691268/26

Matrix: Water

Analysis Batch: 691268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	179		mg/L		90	85 - 115

Lab Sample ID: LCS 280-691268/3

Matrix: Water

Analysis Batch: 691268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	194		mg/L		98	85 - 115

Lab Sample ID: 280-205777-B-1 DU

Matrix: Water

Analysis Batch: 691268

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Biochemical Oxygen Demand	2.8	J	2.80	J	mg/L		2	20

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Metals

Prep Batch: 691503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-1	S2	Dissolved	Water	3005A	
280-205844-2	S1	Dissolved	Water	3005A	
280-205844-3	S4	Dissolved	Water	3005A	
280-205844-4	Duplicate	Dissolved	Water	3005A	
MB 280-691503/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-691503/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-205844-1 MS	S2	Dissolved	Water	3005A	
280-205844-1 MSD	S2	Dissolved	Water	3005A	

Analysis Batch: 691862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-1	S2	Dissolved	Water	6010D	691503
280-205844-2	S1	Dissolved	Water	6010D	691503
280-205844-3	S4	Dissolved	Water	6010D	691503
280-205844-4	Duplicate	Dissolved	Water	6010D	691503
MB 280-691503/1-A	Method Blank	Total Recoverable	Water	6010D	691503
LCS 280-691503/2-A	Lab Control Sample	Total Recoverable	Water	6010D	691503
280-205844-1 MS	S2	Dissolved	Water	6010D	691503
280-205844-1 MSD	S2	Dissolved	Water	6010D	691503

General Chemistry

Analysis Batch: 691268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-1	S2	Total/NA	Water	SM5210B	
280-205844-2	S1	Total/NA	Water	SM5210B	
280-205844-3	S4	Total/NA	Water	SM5210B	
280-205844-4	Duplicate	Total/NA	Water	SM5210B	
MB 280-691268/27	Method Blank	Total/NA	Water	SM5210B	
MB 280-691268/4	Method Blank	Total/NA	Water	SM5210B	
SCB 280-691268/1	Method Blank	Total/NA	Water	SM5210B	
USB 280-691268/2	Method Blank	Total/NA	Water	SM5210B	
LCS 280-691268/26	Lab Control Sample	Total/NA	Water	SM5210B	
LCS 280-691268/3	Lab Control Sample	Total/NA	Water	SM5210B	
280-205777-B-1 DU	Duplicate	Total/NA	Water	SM5210B	

Analysis Batch: 691355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-1	S2	Total/NA	Water	365.1	
280-205844-2	S1	Total/NA	Water	365.1	
280-205844-3	S4	Total/NA	Water	365.1	
280-205844-4	Duplicate	Total/NA	Water	365.1	
MB 280-691355/12	Method Blank	Total/NA	Water	365.1	
LCS 280-691355/10	Lab Control Sample	Total/NA	Water	365.1	
LCSD 280-691355/11	Lab Control Sample Dup	Total/NA	Water	365.1	
280-205844-1 MS	S2	Total/NA	Water	365.1	
280-205844-1 MSD	S2	Total/NA	Water	365.1	

Analysis Batch: 691730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-1	S2	Total/NA	Water	300.0	

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

General Chemistry (Continued)

Analysis Batch: 691730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-2	S1	Total/NA	Water	300.0	
280-205844-3	S4	Total/NA	Water	300.0	
280-205844-4	Duplicate	Total/NA	Water	300.0	
MB 280-691730/6	Method Blank	Total/NA	Water	300.0	
LCS 280-691730/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-691730/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-691730/3	Lab Control Sample	Total/NA	Water	300.0	
280-205559-B-10 MS	Matrix Spike	Total/NA	Water	300.0	
280-205559-B-10 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-205559-B-10 DU	Duplicate	Total/NA	Water	300.0	

Prep Batch: 691969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-1	S2	Total/NA	Water	365.2/365.3/365	
280-205844-2	S1	Total/NA	Water	365.2/365.3/365	
280-205844-3	S4	Total/NA	Water	365.2/365.3/365	
280-205844-4	Duplicate	Total/NA	Water	365.2/365.3/365	
MB 280-691969/5-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 280-691969/3-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 280-691969/4-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
280-206097-G-1-B MS	Matrix Spike	Total/NA	Water	365.2/365.3/365	
280-206097-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	365.2/365.3/365	

Prep Batch: 691998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-1	S2	Total/NA	Water	351.2	
280-205844-2	S1	Total/NA	Water	351.2	
280-205844-3	S4	Total/NA	Water	351.2	
280-205844-4	Duplicate	Total/NA	Water	351.2	
MB 280-691998/30-A	Method Blank	Total/NA	Water	351.2	
LCS 280-691998/28-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 280-691998/29-A	Lab Control Sample Dup	Total/NA	Water	351.2	
280-205906-B-1-B MS	Matrix Spike	Total/NA	Water	351.2	
280-205906-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	

Analysis Batch: 692215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-1	S2	Total/NA	Water	351.2	691998
280-205844-2	S1	Total/NA	Water	351.2	691998
280-205844-3	S4	Total/NA	Water	351.2	691998
280-205844-4	Duplicate	Total/NA	Water	351.2	691998
MB 280-691998/30-A	Method Blank	Total/NA	Water	351.2	691998
LCS 280-691998/28-A	Lab Control Sample	Total/NA	Water	351.2	691998
LCSD 280-691998/29-A	Lab Control Sample Dup	Total/NA	Water	351.2	691998
280-205906-B-1-B MS	Matrix Spike	Total/NA	Water	351.2	691998
280-205906-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	691998

Analysis Batch: 692221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-1	S2	Total/NA	Water	365.1	691969
280-205844-2	S1	Total/NA	Water	365.1	691969

Eurofins Denver

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

General Chemistry (Continued)

Analysis Batch: 692221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205844-3	S4	Total/NA	Water	365.1	691969
280-205844-4	Duplicate	Total/NA	Water	365.1	691969
MB 280-691969/5-A	Method Blank	Total/NA	Water	365.1	691969
LCS 280-691969/3-A	Lab Control Sample	Total/NA	Water	365.1	691969
LCSD 280-691969/4-A	Lab Control Sample Dup	Total/NA	Water	365.1	691969
280-206097-G-1-B MS	Matrix Spike	Total/NA	Water	365.1	691969
280-206097-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	365.1	691969

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Client Sample ID: S2

Lab Sample ID: 280-205844-1

Date Collected: 04/10/25 09:45

Matrix: Water

Date Received: 04/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 18:11	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691730	04/15/25 20:59	IRC	EET DEN
Total/NA	Prep	351.2			25 mL	25 mL	691998	04/16/25 16:02	AKF	EET DEN
Total/NA	Analysis	351.2		1			692215	04/17/25 16:52	AKF	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	691355	04/11/25 15:49	ABW	EET DEN
Total/NA	Prep	365.2/365.3/365			50 mL	50 mL	691969	04/16/25 14:41	ABW	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	692221	04/17/25 17:07	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	691268	04/11/25 15:56	MF	EET DEN

Client Sample ID: S1

Lab Sample ID: 280-205844-2

Date Collected: 04/10/25 08:30

Matrix: Water

Date Received: 04/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 18:46	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691730	04/15/25 21:13	IRC	EET DEN
Total/NA	Prep	351.2			25 mL	25 mL	691998	04/16/25 16:02	AKF	EET DEN
Total/NA	Analysis	351.2		1			692215	04/17/25 16:52	AKF	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	691355	04/11/25 15:49	ABW	EET DEN
Total/NA	Prep	365.2/365.3/365			50 mL	50 mL	691969	04/16/25 14:41	ABW	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	692221	04/17/25 17:07	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	691268	04/11/25 15:56	MF	EET DEN

Client Sample ID: S4

Lab Sample ID: 280-205844-3

Date Collected: 04/10/25 09:10

Matrix: Water

Date Received: 04/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 18:50	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691730	04/15/25 21:27	IRC	EET DEN
Total/NA	Prep	351.2			25 mL	25 mL	691998	04/16/25 16:02	AKF	EET DEN
Total/NA	Analysis	351.2		1			692215	04/17/25 16:52	AKF	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	691355	04/11/25 15:49	ABW	EET DEN
Total/NA	Prep	365.2/365.3/365			50 mL	50 mL	691969	04/16/25 14:41	ABW	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	692221	04/17/25 17:07	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	691268	04/11/25 15:56	MF	EET DEN

Eurofins Denver

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205844-1

Client Sample ID: Duplicate

Lab Sample ID: 280-205844-4

Date Collected: 04/10/25 07:00

Matrix: Water

Date Received: 04/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 18:54	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691730	04/15/25 21:41	IRC	EET DEN
Total/NA	Prep	351.2			25 mL	25 mL	691998	04/16/25 16:02	AKF	EET DEN
Total/NA	Analysis	351.2		1			692215	04/17/25 16:52	AKF	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	691355	04/11/25 15:49	ABW	EET DEN
Total/NA	Prep	365.2/365.3/365			50 mL	50 mL	691969	04/16/25 14:41	ABW	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	692221	04/17/25 17:07	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	691268	04/11/25 15:56	MF	EET DEN

Laboratory References:

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

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-205844-1

Login Number: 205844

List Number: 1

Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761
Generated 4/18/2025 10:45:49 AM

JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-205964-1

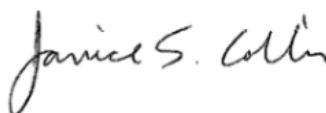
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Job Notes

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Authorization



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Authorized for release by
Janice Collins, Project Manager
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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

Qualifiers

Metals

Qualifier	Qualifier Description
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

Job ID: 280-205964-1

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Job Narrative 280-205964-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/12/2025 9:30 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 time was 0.3°C.

Metals

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

General Chemistry

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

Eurofins Denver

Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

Client Sample ID: SU-3

Lab Sample ID: 280-205964-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	50000		200	60	ug/L	1		6010D	Dissolved
Iron	63	J	100	40	ug/L	1		6010D	Dissolved
Magnesium	22000		200	50	ug/L	1		6010D	Dissolved
Manganese	200		10	2.5	ug/L	1		6010D	Dissolved
Sodium	85000		1000	450	ug/L	1		6010D	Dissolved
Chloride	130		15	6.5	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	270		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	530		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SU-4

Lab Sample ID: 280-205964-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	16000		200	60	ug/L	1		6010D	Dissolved
Magnesium	7100		200	50	ug/L	1		6010D	Dissolved
Manganese	7.4	J	10	2.5	ug/L	1		6010D	Dissolved
Sodium	7900		1000	450	ug/L	1		6010D	Dissolved
Chloride	2.7	J	3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	83		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	130		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SU-5

Lab Sample ID: 280-205964-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	36000		200	60	ug/L	1		6010D	Dissolved
Magnesium	18000		200	50	ug/L	1		6010D	Dissolved
Sodium	12000		1000	450	ug/L	1		6010D	Dissolved
Chloride	17		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	140		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	240		10	6.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-205964-1	SU-3	Water	04/10/25 14:45	04/12/25 09:30
280-205964-2	SU-4	Water	04/10/25 14:15	04/12/25 09:30
280-205964-3	SU-5	Water	04/10/25 14:30	04/12/25 09:30

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

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

Client Sample ID: SU-3
Date Collected: 04/10/25 14:45
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205964-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	50000		200	60	ug/L		04/14/25 15:46	04/15/25 19:38	1
Iron	63	J	100	40	ug/L		04/14/25 15:46	04/15/25 19:38	1
Magnesium	22000		200	50	ug/L		04/14/25 15:46	04/15/25 19:38	1
Manganese	200		10	2.5	ug/L		04/14/25 15:46	04/15/25 19:38	1
Sodium	85000		1000	450	ug/L		04/14/25 15:46	04/15/25 19:38	1

Client Sample ID: SU-4
Date Collected: 04/10/25 14:15
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205964-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	16000		200	60	ug/L		04/14/25 15:46	04/15/25 19:43	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 19:43	1
Magnesium	7100		200	50	ug/L		04/14/25 15:46	04/15/25 19:43	1
Manganese	7.4	J	10	2.5	ug/L		04/14/25 15:46	04/15/25 19:43	1
Sodium	7900		1000	450	ug/L		04/14/25 15:46	04/15/25 19:43	1

Client Sample ID: SU-5
Date Collected: 04/10/25 14:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205964-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	36000		200	60	ug/L		04/14/25 15:46	04/15/25 19:47	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 19:47	1
Magnesium	18000		200	50	ug/L		04/14/25 15:46	04/15/25 19:47	1
Manganese	ND		10	2.5	ug/L		04/14/25 15:46	04/15/25 19:47	1
Sodium	12000		1000	450	ug/L		04/14/25 15:46	04/15/25 19:47	1

General Chemistry

Client Sample ID: SU-3
Date Collected: 04/10/25 14:45
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205964-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	130		15	6.5	mg/L			04/14/25 21:17	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	270		10	7.0	mg/L			04/16/25 23:24	1
Total Dissolved Solids (SM 2540C)	530		10	6.0	mg/L			04/15/25 09:26	1

Client Sample ID: SU-4
Date Collected: 04/10/25 14:15
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205964-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2.7	J	3.0	1.3	mg/L			04/14/25 21:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	83		10	7.0	mg/L			04/16/25 23:29	1
Total Dissolved Solids (SM 2540C)	130		10	6.0	mg/L			04/15/25 09:26	1

Client Sample ID: SU-5
Date Collected: 04/10/25 14:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205964-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	17		3.0	1.3	mg/L			04/14/25 20:49	1

Eurofins Denver

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

General Chemistry (Continued)

Client Sample ID: SU-5

Date Collected: 04/10/25 14:30

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205964-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃ (SM 2320B)	140		10	7.0	mg/L			04/16/25 23:34	1
Total Dissolved Solids (SM 2540C)	240		10	6.0	mg/L			04/15/25 09:26	1

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-691503/1-A

Matrix: Water

Analysis Batch: 691862

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 691503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	60	ug/L		04/14/25 15:46	04/15/25 18:03	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 18:03	1
Magnesium	ND		200	50	ug/L		04/14/25 15:46	04/15/25 18:03	1
Manganese	ND		10	2.5	ug/L		04/14/25 15:46	04/15/25 18:03	1
Sodium	ND		1000	450	ug/L		04/14/25 15:46	04/15/25 18:03	1

Lab Sample ID: LCS 280-691503/2-A

Matrix: Water

Analysis Batch: 691862

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 691503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	100000	99300		ug/L		99	85 - 115
Iron	20000	20000		ug/L		100	85 - 115
Magnesium	100000	99000		ug/L		99	85 - 115
Manganese	2000	1980		ug/L		99	85 - 115
Sodium	100000	109000		ug/L		109	85 - 115

Lab Sample ID: 280-205844-C-1-B MS

Matrix: Water

Analysis Batch: 691862

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 691503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	15000		50000	64700		ug/L		100	75 - 125
Iron	46	J	10000	10200		ug/L		101	75 - 125
Magnesium	6200		50000	56000		ug/L		100	75 - 125
Manganese	9.2	J	1000	1010		ug/L		100	75 - 125
Sodium	6500		50000	59400		ug/L		106	75 - 125

Lab Sample ID: 280-205844-C-1-C MSD

Matrix: Water

Analysis Batch: 691862

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 691503

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Calcium	15000		50000	65000		ug/L		101	75 - 125	0	20
Iron	46	J	10000	10200		ug/L		102	75 - 125	1	20
Magnesium	6200		50000	56100		ug/L		100	75 - 125	0	20
Manganese	9.2	J	1000	1020		ug/L		101	75 - 125	1	20
Sodium	6500		50000	59600		ug/L		106	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-691496/6

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			04/14/25 13:55	1

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-691496/4

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 280-691496/5

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-691496/3

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.94	J	mg/L		98	50 - 150

Lab Sample ID: 280-205820-E-2 MS

Matrix: Water

Analysis Batch: 691496

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	21		50.0	71.7		mg/L		101	80 - 120

Lab Sample ID: 280-205820-E-2 MSD

Matrix: Water

Analysis Batch: 691496

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	21		50.0	71.6		mg/L		101	80 - 120	0	20

Lab Sample ID: 280-205820-E-2 DU

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	21		21.1		mg/L		1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-692108/6

Matrix: Water

Analysis Batch: 692108

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			04/16/25 21:32	1

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-205355-B-2 DU

Matrix: Water

Analysis Batch: 692108

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	170		164		mg/L		0.9	20

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

Lab Sample ID: MB 280-691646/1

Matrix: Water

Analysis Batch: 691646

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	6.0	mg/L			04/15/25 09:26	1

Lab Sample ID: LCS 280-691646/2

Matrix: Water

Analysis Batch: 691646

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD
Total Dissolved Solids	503	487		mg/L		97	88 - 114	

Lab Sample ID: LCSD 280-691646/3

Matrix: Water

Analysis Batch: 691646

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	503	497		mg/L		99	88 - 114	2	10

Lab Sample ID: 280-205959-A-8 DU

Matrix: Water

Analysis Batch: 691646

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5400		5380		mg/L		1	10

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

Metals

Prep Batch: 691503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205964-1	SU-3	Dissolved	Water	3005A	
280-205964-2	SU-4	Dissolved	Water	3005A	
280-205964-3	SU-5	Dissolved	Water	3005A	
MB 280-691503/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-691503/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-205844-C-1-B MS	Matrix Spike	Dissolved	Water	3005A	
280-205844-C-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 691862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205964-1	SU-3	Dissolved	Water	6010D	691503
280-205964-2	SU-4	Dissolved	Water	6010D	691503
280-205964-3	SU-5	Dissolved	Water	6010D	691503
MB 280-691503/1-A	Method Blank	Total Recoverable	Water	6010D	691503
LCS 280-691503/2-A	Lab Control Sample	Total Recoverable	Water	6010D	691503
280-205844-C-1-B MS	Matrix Spike	Dissolved	Water	6010D	691503
280-205844-C-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	691503

General Chemistry

Analysis Batch: 691496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205964-1	SU-3	Total/NA	Water	300.0	
280-205964-2	SU-4	Total/NA	Water	300.0	
280-205964-3	SU-5	Total/NA	Water	300.0	
MB 280-691496/6	Method Blank	Total/NA	Water	300.0	
LCS 280-691496/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-691496/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-691496/3	Lab Control Sample	Total/NA	Water	300.0	
280-205820-E-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-205820-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-205820-E-2 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 691646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205964-1	SU-3	Total/NA	Water	SM 2540C	
280-205964-2	SU-4	Total/NA	Water	SM 2540C	
280-205964-3	SU-5	Total/NA	Water	SM 2540C	
MB 280-691646/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-691646/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-691646/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-205959-A-8 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 692108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205964-1	SU-3	Total/NA	Water	SM 2320B	
280-205964-2	SU-4	Total/NA	Water	SM 2320B	
280-205964-3	SU-5	Total/NA	Water	SM 2320B	
MB 280-692108/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-692108/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-692108/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Eurofins Denver

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

General Chemistry (Continued)

Analysis Batch: 692108 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205355-B-2 DU	Duplicate	Total/NA	Water	SM 2320B	

- 1
- 2
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- 11
- 12
- 13

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205964-1

Client Sample ID: SU-3

Date Collected: 04/10/25 14:45

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205964-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 19:38	NKC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	691496	04/14/25 21:17	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692108	04/16/25 23:24	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	691646	04/15/25 09:26	BRD	EET DEN

Client Sample ID: SU-4

Date Collected: 04/10/25 14:15

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205964-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 19:43	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691496	04/14/25 21:03	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692108	04/16/25 23:29	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	691646	04/15/25 09:26	BRD	EET DEN

Client Sample ID: SU-5

Date Collected: 04/10/25 14:30

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205964-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 19:47	NKC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	691496	04/14/25 20:49	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692108	04/16/25 23:34	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	691646	04/15/25 09:26	BRD	EET DEN

Laboratory References:

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

Client Information		Company: Valley Landfills, Inc. Republic Services	
Client Contact:	Address: 28972 Coffin Butte Road	City: Corvallis	State, Zip: OR, 97330
Phone: 503-675-1335(Tel)	PO#: 1584668	WO #:	
Email:	Project Name: Coffin Butte/Valley Landfills	Site:	
Due Date Requested:		TAT Requested (days):	
Compliance Project: ☐ Yes ☒ No		PO #:	
Project #:		WO #:	
Sample Identification		Sample Date	Sample Time
SV-3	4/10/25	1445	G
SV-4	1	1415	W
SV-5	1	1430	W
Sample Type (C=Comp, G=grab)		Sample Time	Matrix (W=water, S=solid, O=waste, BT=tissue, A=air)
Preservation Code:		Sample Time	Matrix
Field Filtered Sample (Yes or No)		Sample Time	Matrix
Perform MS/MSD (Yes or No)		Sample Time	Matrix
2220B - Bicarb Alkalinity		Sample Time	Matrix
240C/300 - TDS/Chloride		Sample Time	Matrix
6010D - Dissolved Metals (FF)		Sample Time	Matrix
Total Number of Containers		Sample Time	Matrix
Special Instructions/Note:		Sample Time	Matrix
Preservation Codes:		Sample Time	Matrix
A - HCL		Sample Time	Matrix
B - NaOH		Sample Time	Matrix
C - Zn Acetate		Sample Time	Matrix
D - Nitric Acid		Sample Time	Matrix
E - NaHSO4		Sample Time	Matrix
F - MeOH		Sample Time	Matrix
G - Anchor		Sample Time	Matrix
H - Ascorbic Acid		Sample Time	Matrix
I - Ice		Sample Time	Matrix
J - DI Water		Sample Time	Matrix
K - EDTA		Sample Time	Matrix
L - EDA		Sample Time	Matrix
Other:		Sample Time	Matrix
Carrier Tracking No(s):		Sample Time	Matrix
COC No: 280-97584-22898.1		Sample Time	Matrix
Page:		Sample Time	Matrix
Job #:		Sample Time	Matrix
Analysis Requested		Sample Time	Matrix
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Time	Matrix
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months		Sample Time	Matrix
Special Instructions/QC Requirements:		Sample Time	Matrix
Method of Shipment:		Sample Time	Matrix
Received by:		Sample Time	Matrix
Date/Time:		Sample Time	Matrix
Company:		Sample Time	Matrix
Relinquished by:		Sample Time	Matrix
Date/Time:		Sample Time	Matrix
Company:		Sample Time	Matrix
Relinquished by:		Sample Time	Matrix
Date/Time:		Sample Time	Matrix
Company:		Sample Time	Matrix
Custody Seal No.:		Sample Time	Matrix
A Yes ☐ No ☒		Sample Time	Matrix

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-205964-1

Login Number: 205964

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761

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JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-205965-1

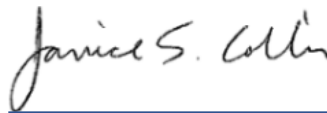
Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD 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.

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.
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Job ID: 280-205965-1

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Job Narrative 280-205965-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/12/2025 9:30 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 time was 0.3°C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 280-205965-1. The container labels list LDS-25, while the COC lists LDS-2B. Logged per the COC.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA

Method 8260D: The following samples were diluted due to the foamy nature of the sample matrix: 280-205965-1, 280-205965-2 and 280-205965-5. Elevated reporting limits (RLs) are provided.

Method 8260D: The following compounds were outside control limits of 20%D in the continuing calibration verification (CCV) associated with batch 280-691604: Dichlorodifluoromethane (-28.1%D). This compound is considered a poor performer and has recovered within LCS/LCSD limits. The following samples are affected: 280-205965-1, 280-205965-2, 280-205965-5, 280-205965-6 and CCV 280-691604/2.

Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: 280-205965-5. The affected sample has a reported pH of 7.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-691604 recovered outside control limits for Acetone (RPD 24, RPD Limit 22). Laboratory control sample / laboratory control sample duplicate (LCS/LCSD) percent recovery is in control for affected analytes. The associated samples are: 280-205965-1, 280-205965-2, 280-205965-3, 280-205965-4, 280-205965-5, 280-205965-6 and LCSD 280-691604/5.

Method 8260D: For Method 8260, the RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-691740 recovered outside control limits (22%) for the following analytes: Acetone at 25%. 280-205965-4 and LCSD 280-691740/5

Method 8260D: For Method 8260, the method blank for analytical batch 280-691740 contained Acetone above the method detection limit. This target analyte concentration was greater than half of the reporting limit (RL) in the method blank but Acetone is a common laboratory contaminate and is under the RL; therefore, re-extraction and/or re-analysis of samples was not performed. 280-205965-4 and MB 280-691740/9

Method 8260D: For Method 8260, insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-691740. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 280-205965-4

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

Metals

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Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Job ID: 280-205965-1 (Continued)

Eurofins Denver

Method 200.8: The following sample was received with insufficient preservation: 280-205965-5. Nitric acid was added by the laboratory and the desired pH was achieved.

Method 200.8: The following samples were diluted due to the nature of the sample matrix: 280-205895-A-6-A, 280-205895-A-6-B MS and 280-205895-A-6-C MSD. Elevated reporting limits (RLs) are provided.

Method 6010D - Dissolved: The following sample was received with insufficient preservation: 280-205965-5. Nitric acid was added by the laboratory and the desired pH was achieved.

Method 6010D - Dissolved: The following sample was diluted to bring the concentration of target analytes within the calibration range: 280-205965-1. Elevated reporting limits (RLs) are provided.

Method 6010D - Dissolved: The following samples were diluted to bring the concentration of target analytes within the calibration range: 280-205965-5, 280-205967-E-1-D, 280-205967-E-1-E MS, 280-205967-E-1-F MSD, 280-205967-E-1-D PDS and 280-205967-E-1-D SD. Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Eurofins Denver

Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Client Sample ID: LDS-2B

Lab Sample ID: 280-205965-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	40	J *1	75	25	ug/L	5		8260D	Total/NA
Arsenic	17		2.0	0.50	ug/L	1		200.8	Total/NA
Calcium	200000		200	60	ug/L	1		6010D	Dissolved
Iron	2400		100	40	ug/L	1		6010D	Dissolved
Magnesium	130000		200	50	ug/L	1		6010D	Dissolved
Manganese	4500		10	2.5	ug/L	1		6010D	Dissolved
Sodium	1700000		5000	2300	ug/L	5		6010D	Dissolved
Chloride	2100		150	65	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	1100		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5200		100	60	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	7.2		4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: LDS-3

Lab Sample ID: 280-205965-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.80	J	2.0	0.50	ug/L	1		200.8	Total/NA
Calcium	42000		200	60	ug/L	1		6010D	Dissolved
Iron	61	J	100	40	ug/L	1		6010D	Dissolved
Magnesium	17000		200	50	ug/L	1		6010D	Dissolved
Manganese	130		10	2.5	ug/L	1		6010D	Dissolved
Sodium	85000		1000	450	ug/L	1		6010D	Dissolved
Chloride	140		15	6.5	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	78		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	460		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: LDS-4

Lab Sample ID: 280-205965-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.88	J	2.0	0.50	ug/L	1		200.8	Total/NA
Calcium	130000		200	60	ug/L	1		6010D	Dissolved
Magnesium	51000		200	50	ug/L	1		6010D	Dissolved
Sodium	130000		1000	450	ug/L	1		6010D	Dissolved
Chloride	230		15	6.5	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	400		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1000		20	12	mg/L	1		SM 2540C	Total/NA

Client Sample ID: LDS-5

Lab Sample ID: 280-205965-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.94	J	2.0	0.50	ug/L	1		200.8	Total/NA
Calcium	120000		200	60	ug/L	1		6010D	Dissolved
Magnesium	49000		200	50	ug/L	1		6010D	Dissolved
Sodium	330000		1000	450	ug/L	1		6010D	Dissolved
Chloride	640		60	26	mg/L	20		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	120		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1500		20	12	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	1.6	J	4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: LDS-ELP

Lab Sample ID: 280-205965-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		2.0	0.50	ug/L	1		200.8	Total/NA
Calcium	690000		1000	300	ug/L	5		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Client Sample ID: LDS-ELP (Continued)

Lab Sample ID: 280-205965-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1000		100	40	ug/L	1		6010D	Dissolved
Magnesium	250000		200	50	ug/L	1		6010D	Dissolved
Manganese	11000		10	2.5	ug/L	1		6010D	Dissolved
Sodium	2200000		5000	2300	ug/L	5		6010D	Dissolved
Chloride	2700		150	65	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	1800		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9600		1000	600	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	2.4	J	4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 280-205965-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
200.8	Preparation, Total Metals	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-205965-1	LDS-2B	Water	04/09/25 17:50	04/12/25 09:30
280-205965-2	LDS-3	Water	04/09/25 18:30	04/12/25 09:30
280-205965-3	LDS-4	Water	04/09/25 17:30	04/12/25 09:30
280-205965-4	LDS-5	Water	04/09/25 17:05	04/12/25 09:30
280-205965-5	LDS-ELP	Water	04/09/25 16:10	04/12/25 09:30
280-205965-6	Trip Blank	Water	04/09/25 16:10	04/12/25 09:30

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: LDS-2B
Date Collected: 04/09/25 17:50
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,1,1-Trichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,1,2-Trichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,1-Dichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,1-Dichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,1-Dichloropropene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,2,3-Trichlorobenzene	ND		20	5.0	ug/L			04/15/25 14:25	5
1,2,3-Trichloropropane	ND		10	2.5	ug/L			04/15/25 14:25	5
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			04/15/25 14:25	5
1,2,4-Trimethylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,2-Dibromo-3-Chloropropane	ND		25	7.5	ug/L			04/15/25 14:25	5
1,2-Dibromoethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,2-Dichlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,2-Dichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,2-Dichloropropane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,3,5-Trimethylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,3-Dichlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,3-Dichloropropane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
1,4-Dichlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
2,2-Dichloropropane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
2-Butanone (MEK)	ND		50	20	ug/L			04/15/25 14:25	5
2-Chlorotoluene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
2-Hexanone	ND		25	7.5	ug/L			04/15/25 14:25	5
4-Chlorotoluene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
4-Isopropyltoluene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
4-Methyl-2-pentanone (MIBK)	ND		25	7.5	ug/L			04/15/25 14:25	5
Acetone	40	J*1	75	25	ug/L			04/15/25 14:25	5
Benzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Bromobenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Bromochloromethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Bromodichloromethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Bromoform	ND		10	2.5	ug/L			04/15/25 14:25	5
Bromomethane	ND		25	13	ug/L			04/15/25 14:25	5
Carbon disulfide	ND		10	2.5	ug/L			04/15/25 14:25	5
Carbon tetrachloride	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Chlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Chloroethane	ND		10	2.5	ug/L			04/15/25 14:25	5
Chloroform	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Chloromethane	ND		10	2.5	ug/L			04/15/25 14:25	5
cis-1,2-Dichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Dibromochloromethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Dibromomethane	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Dichlorodifluoromethane	ND		10	2.5	ug/L			04/15/25 14:25	5
Ethylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Hexachlorobutadiene	ND		10	2.5	ug/L			04/15/25 14:25	5
Isopropylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Methylene Chloride	ND		10	5.0	ug/L			04/15/25 14:25	5

Eurofins Denver

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Client Sample ID: LDS-2B
Date Collected: 04/09/25 17:50
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		10	2.5	ug/L			04/15/25 14:25	5
Naphthalene	ND		15	5.0	ug/L			04/15/25 14:25	5
n-Butylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
N-Propylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
o-Xylene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
sec-Butylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Styrene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
tert-Butylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Tetrachloroethene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Toluene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
trans-1,2-Dichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
trans-1,3-Dichloropropene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Trichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Trichlorofluoromethane	ND		10	2.5	ug/L			04/15/25 14:25	5
Vinyl chloride	ND		5.0	1.3	ug/L			04/15/25 14:25	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120					04/15/25 14:25	5
4-Bromofluorobenzene (Surr)	93		80 - 120					04/15/25 14:25	5
Dibromofluoromethane (Surr)	98		80 - 120					04/15/25 14:25	5
Toluene-d8 (Surr)	95		80 - 120					04/15/25 14:25	5

Client Sample ID: LDS-3
Date Collected: 04/09/25 18:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,1,1-Trichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,1,2-Trichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,1-Dichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,1-Dichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,1-Dichloropropene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,2,3-Trichlorobenzene	ND		20	5.0	ug/L			04/15/25 14:47	5
1,2,3-Trichloropropane	ND		10	2.5	ug/L			04/15/25 14:47	5
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			04/15/25 14:47	5
1,2,4-Trimethylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,2-Dibromo-3-Chloropropane	ND		25	7.5	ug/L			04/15/25 14:47	5
1,2-Dibromoethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,2-Dichlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,2-Dichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,2-Dichloropropane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,3,5-Trimethylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,3-Dichlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,3-Dichloropropane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
1,4-Dichlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
2,2-Dichloropropane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
2-Butanone (MEK)	ND		50	20	ug/L			04/15/25 14:47	5
2-Chlorotoluene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
2-Hexanone	ND		25	7.5	ug/L			04/15/25 14:47	5

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Client Sample ID: LDS-3
Date Collected: 04/09/25 18:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
4-Isopropyltoluene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
4-Methyl-2-pentanone (MIBK)	ND		25	7.5	ug/L			04/15/25 14:47	5
Acetone	ND	*1	75	25	ug/L			04/15/25 14:47	5
Benzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Bromobenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Bromochloromethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Bromodichloromethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Bromoform	ND		10	2.5	ug/L			04/15/25 14:47	5
Bromomethane	ND		25	13	ug/L			04/15/25 14:47	5
Carbon disulfide	ND		10	2.5	ug/L			04/15/25 14:47	5
Carbon tetrachloride	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Chlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Chloroethane	ND		10	2.5	ug/L			04/15/25 14:47	5
Chloroform	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Chloromethane	ND		10	2.5	ug/L			04/15/25 14:47	5
cis-1,2-Dichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Dibromochloromethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Dibromomethane	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Dichlorodifluoromethane	ND		10	2.5	ug/L			04/15/25 14:47	5
Ethylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Hexachlorobutadiene	ND		10	2.5	ug/L			04/15/25 14:47	5
Isopropylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Methylene Chloride	ND		10	5.0	ug/L			04/15/25 14:47	5
m-Xylene & p-Xylene	ND		10	2.5	ug/L			04/15/25 14:47	5
Naphthalene	ND		15	5.0	ug/L			04/15/25 14:47	5
n-Butylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
N-Propylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
o-Xylene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
sec-Butylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Styrene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
tert-Butylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Tetrachloroethene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Toluene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
trans-1,2-Dichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
trans-1,3-Dichloropropene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Trichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:47	5
Trichlorofluoromethane	ND		10	2.5	ug/L			04/15/25 14:47	5
Vinyl chloride	ND		5.0	1.3	ug/L			04/15/25 14:47	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		80 - 120		04/15/25 14:47	5
4-Bromofluorobenzene (Surr)	93		80 - 120		04/15/25 14:47	5
Dibromofluoromethane (Surr)	95		80 - 120		04/15/25 14:47	5
Toluene-d8 (Surr)	96		80 - 120		04/15/25 14:47	5

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: LDS-4
Date Collected: 04/09/25 17:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			04/17/25 01:43	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			04/17/25 01:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			04/17/25 01:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			04/17/25 01:43	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
2-Butanone (MEK)	ND		10	4.0	ug/L			04/17/25 01:43	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
2-Hexanone	ND		5.0	1.5	ug/L			04/17/25 01:43	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			04/17/25 01:43	1
Acetone	ND		15	5.0	ug/L			04/17/25 01:43	1
Benzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Bromobenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Bromochloromethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Bromodichloromethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Bromoform	ND		2.0	0.50	ug/L			04/17/25 01:43	1
Bromomethane	ND		5.0	2.5	ug/L			04/17/25 01:43	1
Carbon disulfide	ND		2.0	0.50	ug/L			04/17/25 01:43	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Chlorobenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Chloroethane	ND		2.0	0.50	ug/L			04/17/25 01:43	1
Chloroform	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Chloromethane	ND		2.0	0.50	ug/L			04/17/25 01:43	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Dibromomethane	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			04/17/25 01:43	1
Ethylbenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			04/17/25 01:43	1
Isopropylbenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Methylene Chloride	ND		2.0	1.0	ug/L			04/17/25 01:43	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Client Sample ID: LDS-4
Date Collected: 04/09/25 17:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			04/17/25 01:43	1
Naphthalene	ND		3.0	1.0	ug/L			04/17/25 01:43	1
n-Butylbenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
N-Propylbenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
o-Xylene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Styrene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Tetrachloroethene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Toluene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Trichloroethene	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			04/17/25 01:43	1
Vinyl chloride	ND		1.0	0.25	ug/L			04/17/25 01:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120					04/17/25 01:43	1
4-Bromofluorobenzene (Surr)	93		80 - 120					04/17/25 01:43	1
Dibromofluoromethane (Surr)	106		80 - 120					04/17/25 01:43	1
Toluene-d8 (Surr)	99		80 - 120					04/17/25 01:43	1

Client Sample ID: LDS-5
Date Collected: 04/09/25 17:05
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			04/16/25 01:48	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			04/16/25 01:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			04/16/25 01:48	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			04/16/25 01:48	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
2-Butanone (MEK)	ND		10	4.0	ug/L			04/16/25 01:48	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
2-Hexanone	ND		5.0	1.5	ug/L			04/16/25 01:48	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Client Sample ID: LDS-5
Date Collected: 04/09/25 17:05
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			04/16/25 01:48	1
Acetone	ND	*1	15	5.0	ug/L			04/16/25 01:48	1
Benzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Bromobenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Bromochloromethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Bromodichloromethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Bromoform	ND		2.0	0.50	ug/L			04/16/25 01:48	1
Bromomethane	ND		5.0	2.5	ug/L			04/16/25 01:48	1
Carbon disulfide	ND		2.0	0.50	ug/L			04/16/25 01:48	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Chlorobenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Chloroethane	ND		2.0	0.50	ug/L			04/16/25 01:48	1
Chloroform	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Chloromethane	ND		2.0	0.50	ug/L			04/16/25 01:48	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Dibromomethane	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			04/16/25 01:48	1
Ethylbenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			04/16/25 01:48	1
Isopropylbenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Methylene Chloride	ND		2.0	1.0	ug/L			04/16/25 01:48	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			04/16/25 01:48	1
Naphthalene	ND		3.0	1.0	ug/L			04/16/25 01:48	1
n-Butylbenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
N-Propylbenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
o-Xylene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Styrene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Tetrachloroethene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Toluene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Trichloroethene	ND		1.0	0.25	ug/L			04/16/25 01:48	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			04/16/25 01:48	1
Vinyl chloride	ND		1.0	0.25	ug/L			04/16/25 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		04/16/25 01:48	1
4-Bromofluorobenzene (Surr)	98		80 - 120		04/16/25 01:48	1
Dibromofluoromethane (Surr)	98		80 - 120		04/16/25 01:48	1
Toluene-d8 (Surr)	98		80 - 120		04/16/25 01:48	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: LDS-ELP
Date Collected: 04/09/25 16:10
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,1,1-Trichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,1,2-Trichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,1-Dichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,1-Dichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,1-Dichloropropene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,2,3-Trichlorobenzene	ND		20	5.0	ug/L			04/15/25 14:03	5
1,2,3-Trichloropropane	ND		10	2.5	ug/L			04/15/25 14:03	5
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			04/15/25 14:03	5
1,2,4-Trimethylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,2-Dibromo-3-Chloropropane	ND		25	7.5	ug/L			04/15/25 14:03	5
1,2-Dibromoethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,2-Dichlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,2-Dichloroethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,2-Dichloropropane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,3,5-Trimethylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,3-Dichlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,3-Dichloropropane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
1,4-Dichlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
2,2-Dichloropropane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
2-Butanone (MEK)	ND		50	20	ug/L			04/15/25 14:03	5
2-Chlorotoluene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
2-Hexanone	ND		25	7.5	ug/L			04/15/25 14:03	5
4-Chlorotoluene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
4-Isopropyltoluene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
4-Methyl-2-pentanone (MIBK)	ND		25	7.5	ug/L			04/15/25 14:03	5
Acetone	ND	*1	75	25	ug/L			04/15/25 14:03	5
Benzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Bromobenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Bromochloromethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Bromodichloromethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Bromoform	ND		10	2.5	ug/L			04/15/25 14:03	5
Bromomethane	ND		25	13	ug/L			04/15/25 14:03	5
Carbon disulfide	ND		10	2.5	ug/L			04/15/25 14:03	5
Carbon tetrachloride	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Chlorobenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Chloroethane	ND		10	2.5	ug/L			04/15/25 14:03	5
Chloroform	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Chloromethane	ND		10	2.5	ug/L			04/15/25 14:03	5
cis-1,2-Dichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Dibromochloromethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Dibromomethane	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Dichlorodifluoromethane	ND		10	2.5	ug/L			04/15/25 14:03	5
Ethylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Hexachlorobutadiene	ND		10	2.5	ug/L			04/15/25 14:03	5
Isopropylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Methylene Chloride	ND		10	5.0	ug/L			04/15/25 14:03	5

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Client Sample ID: LDS-ELP
Date Collected: 04/09/25 16:10
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		10	2.5	ug/L			04/15/25 14:03	5
Naphthalene	ND		15	5.0	ug/L			04/15/25 14:03	5
n-Butylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
N-Propylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
o-Xylene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
sec-Butylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Styrene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
tert-Butylbenzene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Tetrachloroethene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Toluene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
trans-1,2-Dichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
trans-1,3-Dichloropropene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Trichloroethene	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Trichlorofluoromethane	ND		10	2.5	ug/L			04/15/25 14:03	5
Vinyl chloride	ND		5.0	1.3	ug/L			04/15/25 14:03	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		80 - 120					04/15/25 14:03	5
4-Bromofluorobenzene (Surr)	93		80 - 120					04/15/25 14:03	5
Dibromofluoromethane (Surr)	95		80 - 120					04/15/25 14:03	5
Toluene-d8 (Surr)	96		80 - 120					04/15/25 14:03	5

Client Sample ID: Trip Blank
Date Collected: 04/09/25 16:10
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			04/15/25 09:03	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			04/15/25 09:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			04/15/25 09:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			04/15/25 09:03	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
2-Butanone (MEK)	ND		10	4.0	ug/L			04/15/25 09:03	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
2-Hexanone	ND		5.0	1.5	ug/L			04/15/25 09:03	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Client Sample ID: Trip Blank
Date Collected: 04/09/25 16:10
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			04/15/25 09:03	1
Acetone	ND	*1	15	5.0	ug/L			04/15/25 09:03	1
Benzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Bromobenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Bromochloromethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Bromodichloromethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Bromoform	ND		2.0	0.50	ug/L			04/15/25 09:03	1
Bromomethane	ND		5.0	2.5	ug/L			04/15/25 09:03	1
Carbon disulfide	ND		2.0	0.50	ug/L			04/15/25 09:03	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Chlorobenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Chloroethane	ND		2.0	0.50	ug/L			04/15/25 09:03	1
Chloroform	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Chloromethane	ND		2.0	0.50	ug/L			04/15/25 09:03	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Dibromomethane	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			04/15/25 09:03	1
Ethylbenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			04/15/25 09:03	1
Isopropylbenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Methylene Chloride	ND		2.0	1.0	ug/L			04/15/25 09:03	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			04/15/25 09:03	1
Naphthalene	ND		3.0	1.0	ug/L			04/15/25 09:03	1
n-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
N-Propylbenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
o-Xylene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Styrene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Tetrachloroethene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Toluene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Trichloroethene	ND		1.0	0.25	ug/L			04/15/25 09:03	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			04/15/25 09:03	1
Vinyl chloride	ND		1.0	0.25	ug/L			04/15/25 09:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		80 - 120		04/15/25 09:03	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/15/25 09:03	1
Dibromofluoromethane (Surr)	97		80 - 120		04/15/25 09:03	1
Toluene-d8 (Surr)	101		80 - 120		04/15/25 09:03	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method: EPA 200.8 - Metals (ICP/MS)

Client Sample ID: LDS-2B
Date Collected: 04/09/25 17:50
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		2.0	0.50	ug/L		04/14/25 15:46	04/15/25 19:52	1

Client Sample ID: LDS-3
Date Collected: 04/09/25 18:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.80	J	2.0	0.50	ug/L		04/14/25 15:46	04/15/25 19:54	1

Client Sample ID: LDS-4
Date Collected: 04/09/25 17:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.88	J	2.0	0.50	ug/L		04/14/25 15:46	04/15/25 19:57	1

Client Sample ID: LDS-5
Date Collected: 04/09/25 17:05
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.94	J	2.0	0.50	ug/L		04/14/25 15:46	04/15/25 19:59	1

Client Sample ID: LDS-ELP
Date Collected: 04/09/25 16:10
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		2.0	0.50	ug/L		04/16/25 08:41	04/17/25 18:30	1

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

Client Sample ID: LDS-2B
Date Collected: 04/09/25 17:50
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200000		200	60	ug/L		04/14/25 15:46	04/15/25 19:51	1
Iron	2400		100	40	ug/L		04/14/25 15:46	04/15/25 19:51	1
Magnesium	130000		200	50	ug/L		04/14/25 15:46	04/15/25 19:51	1
Manganese	4500		10	2.5	ug/L		04/14/25 15:46	04/15/25 19:51	1
Sodium	1700000		5000	2300	ug/L		04/14/25 15:46	04/16/25 19:51	5

Client Sample ID: LDS-3
Date Collected: 04/09/25 18:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	42000		200	60	ug/L		04/14/25 15:46	04/15/25 19:55	1
Iron	61	J	100	40	ug/L		04/14/25 15:46	04/15/25 19:55	1
Magnesium	17000		200	50	ug/L		04/14/25 15:46	04/15/25 19:55	1
Manganese	130		10	2.5	ug/L		04/14/25 15:46	04/15/25 19:55	1
Sodium	85000		1000	450	ug/L		04/14/25 15:46	04/15/25 19:55	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Client Sample ID: LDS-4
Date Collected: 04/09/25 17:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000		200	60	ug/L		04/14/25 15:46	04/15/25 20:00	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 20:00	1
Magnesium	51000		200	50	ug/L		04/14/25 15:46	04/15/25 20:00	1
Manganese	ND		10	2.5	ug/L		04/14/25 15:46	04/15/25 20:00	1
Sodium	130000		1000	450	ug/L		04/14/25 15:46	04/15/25 20:00	1

Client Sample ID: LDS-5
Date Collected: 04/09/25 17:05
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120000		200	60	ug/L		04/14/25 15:46	04/15/25 20:04	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 20:04	1
Magnesium	49000		200	50	ug/L		04/14/25 15:46	04/15/25 20:04	1
Manganese	ND		10	2.5	ug/L		04/14/25 15:46	04/15/25 20:04	1
Sodium	330000		1000	450	ug/L		04/14/25 15:46	04/15/25 20:04	1

Client Sample ID: LDS-ELP
Date Collected: 04/09/25 16:10
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	690000		1000	300	ug/L		04/16/25 08:41	04/17/25 21:10	5
Iron	1000		100	40	ug/L		04/16/25 08:41	04/16/25 22:17	1
Magnesium	250000		200	50	ug/L		04/16/25 08:41	04/16/25 22:17	1
Manganese	11000		10	2.5	ug/L		04/16/25 08:41	04/16/25 22:17	1
Sodium	2200000		5000	2300	ug/L		04/16/25 08:41	04/17/25 21:10	5

General Chemistry

Client Sample ID: LDS-2B
Date Collected: 04/09/25 17:50
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2100		150	65	mg/L			04/14/25 19:49	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1100		10	7.0	mg/L			04/17/25 07:50	1
Total Dissolved Solids (SM 2540C)	5200		100	60	mg/L			04/14/25 09:03	1
Total Suspended Solids (SM 2540D)	7.2		4.0	1.5	mg/L			04/16/25 11:30	1

Client Sample ID: LDS-3
Date Collected: 04/09/25 18:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	140		15	6.5	mg/L			04/15/25 00:34	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	78		10	7.0	mg/L			04/17/25 07:54	1
Total Dissolved Solids (SM 2540C)	460		10	6.0	mg/L			04/14/25 09:03	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			04/16/25 11:30	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

General Chemistry

Client Sample ID: LDS-4
Date Collected: 04/09/25 17:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	230		15	6.5	mg/L			04/15/25 00:20	5
Bicarbonate Alkalinity as CaCO ₃ (SM 2320B)	400		10	7.0	mg/L			04/17/25 08:01	1
Total Dissolved Solids (SM 2540C)	1000		20	12	mg/L			04/14/25 09:03	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			04/16/25 11:30	1

Client Sample ID: LDS-5
Date Collected: 04/09/25 17:05
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	640		60	26	mg/L			04/14/25 17:42	20
Bicarbonate Alkalinity as CaCO ₃ (SM 2320B)	120		10	7.0	mg/L			04/17/25 08:06	1
Total Dissolved Solids (SM 2540C)	1500		20	12	mg/L			04/14/25 09:03	1
Total Suspended Solids (SM 2540D)	1.6	J	4.0	1.5	mg/L			04/16/25 11:30	1

Client Sample ID: LDS-ELP
Date Collected: 04/09/25 16:10
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2700		150	65	mg/L			04/14/25 19:35	50
Bicarbonate Alkalinity as CaCO ₃ (SM 2320B)	1800		10	7.0	mg/L			04/17/25 08:22	1
Total Dissolved Solids (SM 2540C)	9600		1000	600	mg/L			04/14/25 09:03	1
Total Suspended Solids (SM 2540D)	2.4	J	4.0	1.5	mg/L			04/16/25 11:30	1

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(80-120)	(80-120)	(80-120)	(80-120)
280-205807-A-5 MS	Matrix Spike	98	92	98	98
280-205807-A-5 MSD	Matrix Spike Duplicate	99	87	100	94
280-205933-E-10 MS	Matrix Spike	97	96	100	98
280-205933-G-10 MSD	Matrix Spike Duplicate	95	94	102	100
280-205965-1	LDS-2B	96	93	98	95
280-205965-2	LDS-3	94	93	95	96
280-205965-3	LDS-4	101	93	106	99
280-205965-4	LDS-5	97	98	98	98
280-205965-5	LDS-ELP	93	93	95	96
280-205965-6	Trip Blank	94	96	97	101
LCS 280-691604/4	Lab Control Sample	96	92	98	96
LCS 280-691740/4	Lab Control Sample	89	88	98	94
LCS 280-692027/4	Lab Control Sample	98	93	103	101
LCSD 280-691604/5	Lab Control Sample Dup	93	92	99	95
LCSD 280-691740/5	Lab Control Sample Dup	92	84	103	92
LCSD 280-692027/5	Lab Control Sample Dup	98	95	102	100
MB 280-691604/9	Method Blank	94	95	97	100
MB 280-691740/9	Method Blank	90	89	98	96
MB 280-692027/9	Method Blank	97	95	101	102

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-691604/9

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			04/15/25 08:20	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			04/15/25 08:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			04/15/25 08:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			04/15/25 08:20	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
2-Butanone (MEK)	ND		10	4.0	ug/L			04/15/25 08:20	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
2-Hexanone	ND		5.0	1.5	ug/L			04/15/25 08:20	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			04/15/25 08:20	1
Acetone	ND		15	5.0	ug/L			04/15/25 08:20	1
Benzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Bromobenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Bromochloromethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Bromodichloromethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Bromoform	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Bromomethane	ND		5.0	2.5	ug/L			04/15/25 08:20	1
Carbon disulfide	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Chlorobenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Chloroethane	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Chloroform	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Chloromethane	ND		2.0	0.50	ug/L			04/15/25 08:20	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Dibromomethane	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Ethylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Isopropylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: MB 280-691604/9

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	1.0	ug/L			04/15/25 08:20	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Naphthalene	ND		3.0	1.0	ug/L			04/15/25 08:20	1
n-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
N-Propylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
o-Xylene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Styrene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Tetrachloroethene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Toluene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Trichloroethene	ND		1.0	0.25	ug/L			04/15/25 08:20	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			04/15/25 08:20	1
Vinyl chloride	ND		1.0	0.25	ug/L			04/15/25 08:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		80 - 120		04/15/25 08:20	1
4-Bromofluorobenzene (Surr)	95		80 - 120		04/15/25 08:20	1
Dibromofluoromethane (Surr)	97		80 - 120		04/15/25 08:20	1
Toluene-d8 (Surr)	100		80 - 120		04/15/25 08:20	1

Lab Sample ID: LCS 280-691604/4

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	51.3		ug/L		103	79 - 125
1,1,1-Trichloroethane	50.0	43.3		ug/L		87	78 - 125
1,1,2,2-Tetrachloroethane	50.0	53.9		ug/L		108	73 - 126
1,1,2-Trichloroethane	50.0	53.8		ug/L		108	80 - 121
1,1-Dichloroethane	50.0	44.9		ug/L		90	78 - 124
1,1-Dichloroethene	50.0	41.3		ug/L		83	76 - 124
1,1-Dichloropropene	50.0	44.0		ug/L		88	80 - 124
1,2,3-Trichlorobenzene	50.0	56.2		ug/L		112	57 - 136
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	75 - 123
1,2,4-Trichlorobenzene	50.0	53.7		ug/L		107	69 - 130
1,2,4-Trimethylbenzene	50.0	48.0		ug/L		96	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	54.0		ug/L		108	64 - 130
1,2-Dibromoethane	50.0	53.2		ug/L		106	80 - 120
1,2-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	43.7		ug/L		87	73 - 124
1,2-Dichloropropane	50.0	49.3		ug/L		99	78 - 124
1,3,5-Trimethylbenzene	50.0	48.0		ug/L		96	80 - 122
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120
1,3-Dichloropropane	50.0	51.7		ug/L		103	80 - 121
1,4-Dichlorobenzene	50.0	51.5		ug/L		103	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: LCS 280-691604/4

Matrix: Water

Analysis Batch: 691604

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	50.0	45.1		ug/L		90	72 - 131
2-Butanone (MEK)	200	236		ug/L		118	59 - 141
2-Chlorotoluene	50.0	47.4		ug/L		95	80 - 120
2-Hexanone	200	232		ug/L		116	59 - 146
4-Chlorotoluene	50.0	48.8		ug/L		98	80 - 121
4-Isopropyltoluene	50.0	50.5		ug/L		101	80 - 124
4-Methyl-2-pentanone (MIBK)	200	239		ug/L		119	63 - 144
Acetone	200	235		ug/L		117	57 - 143
Benzene	50.0	45.6		ug/L		91	80 - 121
Bromobenzene	50.0	46.9		ug/L		94	80 - 120
Bromochloromethane	50.0	48.8		ug/L		98	76 - 126
Bromodichloromethane	50.0	48.0		ug/L		96	80 - 124
Bromoform	50.0	45.4		ug/L		91	66 - 134
Bromomethane	50.0	41.1		ug/L		82	10 - 150
Carbon disulfide	50.0	41.5		ug/L		83	70 - 127
Carbon tetrachloride	50.0	45.6		ug/L		91	72 - 131
Chlorobenzene	50.0	49.9		ug/L		100	80 - 120
Chloroethane	50.0	44.3		ug/L		89	51 - 149
Chloroform	50.0	45.1		ug/L		90	80 - 120
Chloromethane	50.0	46.0		ug/L		92	51 - 142
cis-1,2-Dichloroethene	50.0	46.6		ug/L		93	80 - 121
cis-1,3-Dichloropropene	50.0	48.7		ug/L		97	77 - 127
Dibromochloromethane	50.0	51.4		ug/L		103	77 - 128
Dibromomethane	50.0	53.4		ug/L		107	80 - 120
Dichlorodifluoromethane	50.0	36.0		ug/L		72	36 - 150
Ethylbenzene	50.0	47.4		ug/L		95	80 - 120
Hexachlorobutadiene	50.0	55.5		ug/L		111	66 - 135
Isopropylbenzene	50.0	45.2		ug/L		90	78 - 123
Methylene Chloride	50.0	50.3		ug/L		101	77 - 121
m-Xylene & p-Xylene	50.0	50.0		ug/L		100	80 - 121
Naphthalene	50.0	51.6		ug/L		103	55 - 135
n-Butylbenzene	50.0	53.8		ug/L		108	73 - 131
N-Propylbenzene	50.0	46.9		ug/L		94	80 - 123
o-Xylene	50.0	50.0		ug/L		100	80 - 121
sec-Butylbenzene	50.0	49.8		ug/L		100	80 - 125
Styrene	50.0	50.9		ug/L		102	80 - 123
tert-Butylbenzene	50.0	48.2		ug/L		96	80 - 121
Tetrachloroethene	50.0	45.0		ug/L		90	79 - 125
Toluene	50.0	47.2		ug/L		94	80 - 120
trans-1,2-Dichloroethene	50.0	43.9		ug/L		88	78 - 123
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	79 - 124
Trichloroethene	50.0	43.0		ug/L		86	79 - 121
Trichlorofluoromethane	50.0	41.9		ug/L		84	60 - 139
Vinyl chloride	50.0	55.7		ug/L		111	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: LCS 280-691604/4

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 280-691604/5

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/L		108	79 - 125	5	20
1,1,1-Trichloroethane	50.0	44.8		ug/L		90	78 - 125	3	20
1,1,2,2-Tetrachloroethane	50.0	57.0		ug/L		114	73 - 126	5	20
1,1,2-Trichloroethane	50.0	56.3		ug/L		113	80 - 121	5	20
1,1-Dichloroethane	50.0	45.5		ug/L		91	78 - 124	1	20
1,1-Dichloroethene	50.0	42.4		ug/L		85	76 - 124	3	20
1,1-Dichloropropene	50.0	45.5		ug/L		91	80 - 124	3	20
1,2,3-Trichlorobenzene	50.0	62.4		ug/L		125	57 - 136	10	21
1,2,3-Trichloropropane	50.0	53.3		ug/L		107	75 - 123	7	26
1,2,4-Trichlorobenzene	50.0	58.5		ug/L		117	69 - 130	9	20
1,2,4-Trimethylbenzene	50.0	51.7		ug/L		103	80 - 123	8	20
1,2-Dibromo-3-Chloropropane	50.0	59.4		ug/L		119	64 - 130	10	20
1,2-Dibromoethane	50.0	56.4		ug/L		113	80 - 120	6	20
1,2-Dichlorobenzene	50.0	54.8		ug/L		110	80 - 120	9	20
1,2-Dichloroethane	50.0	44.9		ug/L		90	73 - 124	3	20
1,2-Dichloropropane	50.0	50.5		ug/L		101	78 - 124	2	20
1,3,5-Trimethylbenzene	50.0	51.1		ug/L		102	80 - 122	6	20
1,3-Dichlorobenzene	50.0	53.9		ug/L		108	80 - 120	9	20
1,3-Dichloropropane	50.0	53.7		ug/L		107	80 - 121	4	20
1,4-Dichlorobenzene	50.0	55.3		ug/L		111	80 - 120	7	20
2,2-Dichloropropane	50.0	46.2		ug/L		92	72 - 131	2	20
2-Butanone (MEK)	200	228		ug/L		114	59 - 141	4	20
2-Chlorotoluene	50.0	51.4		ug/L		103	80 - 120	8	20
2-Hexanone	200	235		ug/L		117	59 - 146	1	20
4-Chlorotoluene	50.0	52.4		ug/L		105	80 - 121	7	20
4-Isopropyltoluene	50.0	54.7		ug/L		109	80 - 124	8	20
4-Methyl-2-pentanone (MIBK)	200	239		ug/L		120	63 - 144	0	20
Acetone	200	185	*1	ug/L		92	57 - 143	24	22
Benzene	50.0	46.8		ug/L		94	80 - 121	2	20
Bromobenzene	50.0	50.8		ug/L		102	80 - 120	8	20
Bromochloromethane	50.0	52.2		ug/L		104	76 - 126	7	20
Bromodichloromethane	50.0	49.6		ug/L		99	80 - 124	3	20
Bromoform	50.0	49.2		ug/L		98	66 - 134	8	20
Bromomethane	50.0	45.4		ug/L		91	10 - 150	10	58
Carbon disulfide	50.0	43.0		ug/L		86	70 - 127	4	20
Carbon tetrachloride	50.0	48.2		ug/L		96	72 - 131	6	20
Chlorobenzene	50.0	52.2		ug/L		104	80 - 120	4	20
Chloroethane	50.0	47.4		ug/L		95	51 - 149	7	34
Chloroform	50.0	46.1		ug/L		92	80 - 120	2	20
Chloromethane	50.0	44.2		ug/L		88	51 - 142	4	21

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: LCSD 280-691604/5

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	80 - 121	2	20
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	77 - 127	3	20
Dibromochloromethane	50.0	54.9		ug/L		110	77 - 128	6	20
Dibromomethane	50.0	54.8		ug/L		110	80 - 120	3	20
Dichlorodifluoromethane	50.0	34.6		ug/L		69	36 - 150	4	35
Ethylbenzene	50.0	50.7		ug/L		101	80 - 120	7	20
Hexachlorobutadiene	50.0	60.8		ug/L		122	66 - 135	9	20
Isopropylbenzene	50.0	48.6		ug/L		97	78 - 123	7	20
Methylene Chloride	50.0	51.0		ug/L		102	77 - 121	1	20
m-Xylene & p-Xylene	50.0	52.7		ug/L		105	80 - 121	5	20
Naphthalene	50.0	56.6		ug/L		113	55 - 135	9	23
n-Butylbenzene	50.0	58.1		ug/L		116	73 - 131	8	25
N-Propylbenzene	50.0	51.4		ug/L		103	80 - 123	9	20
o-Xylene	50.0	52.1		ug/L		104	80 - 121	4	20
sec-Butylbenzene	50.0	54.1		ug/L		108	80 - 125	8	20
Styrene	50.0	52.6		ug/L		105	80 - 123	3	20
tert-Butylbenzene	50.0	52.7		ug/L		105	80 - 121	9	20
Tetrachloroethene	50.0	48.1		ug/L		96	79 - 125	7	20
Toluene	50.0	49.0		ug/L		98	80 - 120	4	20
trans-1,2-Dichloroethene	50.0	46.6		ug/L		93	78 - 123	6	20
trans-1,3-Dichloropropene	50.0	54.6		ug/L		109	79 - 124	5	20
Trichloroethene	50.0	44.3		ug/L		89	79 - 121	3	20
Trichlorofluoromethane	50.0	45.0		ug/L		90	60 - 139	7	25
Vinyl chloride	50.0	54.6		ug/L		109	60 - 136	2	23

Surrogate	%Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: 280-205807-A-5 MS

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		25.0	25.7		ug/L		103	79 - 125
1,1,1-Trichloroethane	ND		25.0	22.5		ug/L		90	78 - 125
1,1,2,2-Tetrachloroethane	ND		25.0	28.4		ug/L		113	73 - 126
1,1,2-Trichloroethane	ND		25.0	27.9		ug/L		111	80 - 121
1,1-Dichloroethane	ND		25.0	22.9		ug/L		92	78 - 124
1,1-Dichloroethene	ND		25.0	21.0		ug/L		84	76 - 124
1,1-Dichloropropene	ND		25.0	22.7		ug/L		91	80 - 124
1,2,3-Trichlorobenzene	ND		25.0	28.1		ug/L		112	57 - 136
1,2,3-Trichloropropane	ND		25.0	25.9		ug/L		104	75 - 123
1,2,4-Trichlorobenzene	ND		25.0	26.9		ug/L		107	69 - 130
1,2,4-Trimethylbenzene	ND		25.0	24.6		ug/L		98	80 - 123
1,2-Dibromo-3-Chloropropane	ND		25.0	26.2		ug/L		105	64 - 130

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: 280-205807-A-5 MS

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	ND		25.0	27.2		ug/L		109	80 - 120
1,2-Dichlorobenzene	ND		25.0	25.7		ug/L		103	80 - 120
1,2-Dichloroethane	ND		25.0	22.9		ug/L		92	73 - 124
1,2-Dichloropropane	ND		25.0	25.5		ug/L		102	78 - 124
1,3,5-Trimethylbenzene	ND		25.0	24.3		ug/L		97	80 - 122
1,3-Dichlorobenzene	ND		25.0	25.4		ug/L		102	80 - 120
1,3-Dichloropropane	ND		25.0	27.0		ug/L		108	80 - 121
1,4-Dichlorobenzene	ND		25.0	26.4		ug/L		106	80 - 120
2,2-Dichloropropane	ND		25.0	20.4		ug/L		82	72 - 131
2-Butanone (MEK)	ND		100	97.3		ug/L		97	59 - 141
2-Chlorotoluene	ND		25.0	24.4		ug/L		98	80 - 120
2-Hexanone	ND		100	113		ug/L		113	59 - 146
4-Chlorotoluene	ND		25.0	25.2		ug/L		101	80 - 121
4-Isopropyltoluene	ND		25.0	25.7		ug/L		103	80 - 124
4-Methyl-2-pentanone (MIBK)	ND		100	115		ug/L		115	63 - 144
Acetone	ND	*1	100	80.5		ug/L		81	57 - 143
Benzene	ND		25.0	24.3		ug/L		97	80 - 121
Bromobenzene	ND		25.0	24.7		ug/L		99	80 - 120
Bromochloromethane	ND		25.0	25.5		ug/L		102	76 - 126
Bromodichloromethane	ND		25.0	23.0		ug/L		92	80 - 124
Bromoform	ND		25.0	21.8		ug/L		87	66 - 134
Bromomethane	ND		25.0	20.2		ug/L		81	10 - 150
Carbon disulfide	ND		25.0	20.1		ug/L		81	70 - 127
Carbon tetrachloride	ND		25.0	23.0		ug/L		92	72 - 131
Chlorobenzene	ND		25.0	26.4		ug/L		105	80 - 120
Chloroethane	ND		25.0	20.3		ug/L		81	51 - 149
Chloroform	ND		25.0	23.3		ug/L		93	80 - 120
Chloromethane	ND		25.0	18.7		ug/L		75	51 - 142
cis-1,2-Dichloroethene	7.6		25.0	31.3		ug/L		95	80 - 121
cis-1,3-Dichloropropene	ND		25.0	23.2		ug/L		93	77 - 127
Dibromochloromethane	ND		25.0	24.7		ug/L		99	77 - 128
Dibromomethane	ND		25.0	26.4		ug/L		105	80 - 120
Dichlorodifluoromethane	ND		25.0	12.6		ug/L		50	36 - 150
Ethylbenzene	ND		25.0	25.0		ug/L		100	80 - 120
Hexachlorobutadiene	ND		25.0	27.7		ug/L		111	66 - 135
Isopropylbenzene	ND		25.0	23.2		ug/L		93	78 - 123
Methylene Chloride	ND		25.0	24.2		ug/L		97	77 - 121
m-Xylene & p-Xylene	ND		25.0	25.7		ug/L		103	80 - 121
Naphthalene	ND		25.0	26.2		ug/L		105	55 - 135
n-Butylbenzene	ND		25.0	26.8		ug/L		107	73 - 131
N-Propylbenzene	ND		25.0	24.0		ug/L		96	80 - 123
o-Xylene	ND		25.0	25.2		ug/L		101	80 - 121
sec-Butylbenzene	ND		25.0	24.9		ug/L		99	80 - 125
Styrene	ND		25.0	25.2		ug/L		101	80 - 123
tert-Butylbenzene	ND		25.0	25.0		ug/L		100	80 - 121
Tetrachloroethene	ND		25.0	23.9		ug/L		96	79 - 125
Toluene	ND		25.0	24.4		ug/L		98	80 - 120
trans-1,2-Dichloroethene	ND		25.0	23.2		ug/L		93	78 - 123
trans-1,3-Dichloropropene	ND		25.0	24.9		ug/L		100	79 - 124

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: 280-205807-A-5 MS

Matrix: Water

Analysis Batch: 691604

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
Trichloroethene	ND		25.0	22.3		ug/L		89	79 - 121
Trichlorofluoromethane	ND		25.0	21.7		ug/L		87	60 - 139
Vinyl chloride	ND		25.0	23.7		ug/L		95	60 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	98		80 - 120						
4-Bromofluorobenzene (Surr)	92		80 - 120						
Dibromofluoromethane (Surr)	98		80 - 120						
Toluene-d8 (Surr)	98		80 - 120						

Lab Sample ID: 280-205807-A-5 MSD

Matrix: Water

Analysis Batch: 691604

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	25.0		ug/L		100	79 - 125	3	20
1,1,1-Trichloroethane	ND		25.0	22.4		ug/L		89	78 - 125	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.9		ug/L		108	73 - 126	5	20
1,1,2-Trichloroethane	ND		25.0	27.4		ug/L		109	80 - 121	2	20
1,1-Dichloroethane	ND		25.0	22.6		ug/L		90	78 - 124	1	20
1,1-Dichloroethene	ND		25.0	22.4		ug/L		89	76 - 124	6	20
1,1-Dichloropropene	ND		25.0	23.1		ug/L		93	80 - 124	2	20
1,2,3-Trichlorobenzene	ND		25.0	29.1		ug/L		116	57 - 136	3	21
1,2,3-Trichloropropane	ND		25.0	24.9		ug/L		100	75 - 123	4	26
1,2,4-Trichlorobenzene	ND		25.0	27.8		ug/L		111	69 - 130	3	20
1,2,4-Trimethylbenzene	ND		25.0	23.7		ug/L		95	80 - 123	4	20
1,2-Dibromo-3-Chloropropane	ND		25.0	26.4		ug/L		106	64 - 130	1	20
1,2-Dibromoethane	ND		25.0	26.2		ug/L		105	80 - 120	4	20
1,2-Dichlorobenzene	ND		25.0	25.5		ug/L		102	80 - 120	1	20
1,2-Dichloroethane	ND		25.0	22.8		ug/L		91	73 - 124	0	20
1,2-Dichloropropane	ND		25.0	25.0		ug/L		100	78 - 124	2	20
1,3,5-Trimethylbenzene	ND		25.0	23.3		ug/L		93	80 - 122	4	20
1,3-Dichlorobenzene	ND		25.0	24.9		ug/L		100	80 - 120	2	20
1,3-Dichloropropane	ND		25.0	25.8		ug/L		103	80 - 121	4	20
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		104	80 - 120	2	20
2,2-Dichloropropane	ND		25.0	19.4		ug/L		78	72 - 131	5	20
2-Butanone (MEK)	ND		100	110		ug/L		110	59 - 141	13	20
2-Chlorotoluene	ND		25.0	23.4		ug/L		94	80 - 120	4	20
2-Hexanone	ND		100	107		ug/L		107	59 - 146	6	20
4-Chlorotoluene	ND		25.0	24.5		ug/L		98	80 - 121	3	20
4-Isopropyltoluene	ND		25.0	25.4		ug/L		101	80 - 124	1	20
4-Methyl-2-pentanone (MIBK)	ND		100	110		ug/L		110	63 - 144	4	20
Acetone	ND	*1	100	94.3		ug/L		94	57 - 143	16	22
Benzene	ND		25.0	24.2		ug/L		97	80 - 121	1	20
Bromobenzene	ND		25.0	23.5		ug/L		94	80 - 120	5	20
Bromochloromethane	ND		25.0	27.8		ug/L		111	76 - 126	9	20
Bromodichloromethane	ND		25.0	23.7		ug/L		95	80 - 124	3	20
Bromoform	ND		25.0	21.8		ug/L		87	66 - 134	0	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: 280-205807-A-5 MSD

Matrix: Water

Analysis Batch: 691604

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
Bromomethane	ND		25.0	27.7		ug/L		111	10 - 150	31	58
Carbon disulfide	ND		25.0	21.4		ug/L		86	70 - 127	6	20
Carbon tetrachloride	ND		25.0	23.2		ug/L		93	72 - 131	1	20
Chlorobenzene	ND		25.0	25.7		ug/L		103	80 - 120	2	20
Chloroethane	ND		25.0	22.2		ug/L		89	51 - 149	9	34
Chloroform	ND		25.0	23.8		ug/L		95	80 - 120	2	20
Chloromethane	ND		25.0	19.1		ug/L		76	51 - 142	2	21
cis-1,2-Dichloroethene	7.6		25.0	31.1		ug/L		94	80 - 121	1	20
cis-1,3-Dichloropropene	ND		25.0	22.5		ug/L		90	77 - 127	3	20
Dibromochloromethane	ND		25.0	23.9		ug/L		96	77 - 128	3	20
Dibromomethane	ND		25.0	27.0		ug/L		108	80 - 120	3	20
Dichlorodifluoromethane	ND		25.0	12.7		ug/L		51	36 - 150	1	35
Ethylbenzene	ND		25.0	24.4		ug/L		98	80 - 120	2	20
Hexachlorobutadiene	ND		25.0	27.8		ug/L		111	66 - 135	0	20
Isopropylbenzene	ND		25.0	22.2		ug/L		89	78 - 123	4	20
Methylene Chloride	ND		25.0	26.7		ug/L		107	77 - 121	10	20
m-Xylene & p-Xylene	ND		25.0	25.1		ug/L		100	80 - 121	2	20
Naphthalene	ND		25.0	26.4		ug/L		106	55 - 135	1	23
n-Butylbenzene	ND		25.0	26.1		ug/L		104	73 - 131	3	25
N-Propylbenzene	ND		25.0	23.0		ug/L		92	80 - 123	4	20
o-Xylene	ND		25.0	25.3		ug/L		101	80 - 121	0	20
sec-Butylbenzene	ND		25.0	24.1		ug/L		96	80 - 125	3	20
Styrene	ND		25.0	25.3		ug/L		101	80 - 123	0	20
tert-Butylbenzene	ND		25.0	24.3		ug/L		97	80 - 121	3	20
Tetrachloroethene	ND		25.0	23.3		ug/L		93	79 - 125	2	20
Toluene	ND		25.0	24.6		ug/L		98	80 - 120	0	20
trans-1,2-Dichloroethene	ND		25.0	23.7		ug/L		95	78 - 123	2	20
trans-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	79 - 124	1	20
Trichloroethene	ND		25.0	21.3		ug/L		85	79 - 121	4	20
Trichlorofluoromethane	ND		25.0	22.5		ug/L		90	60 - 139	4	25
Vinyl chloride	ND		25.0	24.9		ug/L		100	60 - 136	5	23

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	87		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: MB 280-691740/9

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: MB 280-691740/9

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			04/15/25 20:15	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			04/15/25 20:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			04/15/25 20:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			04/15/25 20:15	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
2-Butanone (MEK)	ND		10	4.0	ug/L			04/15/25 20:15	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
2-Hexanone	ND		5.0	1.5	ug/L			04/15/25 20:15	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			04/15/25 20:15	1
Acetone	10.9	J	15	5.0	ug/L			04/15/25 20:15	1
Benzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Bromobenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Bromochloromethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Bromodichloromethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Bromoform	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Bromomethane	ND		5.0	2.5	ug/L			04/15/25 20:15	1
Carbon disulfide	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Chlorobenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Chloroethane	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Chloroform	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Chloromethane	ND		2.0	0.50	ug/L			04/15/25 20:15	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Dibromomethane	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Ethylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Isopropylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Methylene Chloride	ND		2.0	1.0	ug/L			04/15/25 20:15	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Naphthalene	ND		3.0	1.0	ug/L			04/15/25 20:15	1
n-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
N-Propylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
o-Xylene	ND		1.0	0.25	ug/L			04/15/25 20:15	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: MB 280-691740/9

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Styrene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Tetrachloroethene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Toluene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Trichloroethene	ND		1.0	0.25	ug/L			04/15/25 20:15	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			04/15/25 20:15	1
Vinyl chloride	ND		1.0	0.25	ug/L			04/15/25 20:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		80 - 120		04/15/25 20:15	1
4-Bromofluorobenzene (Surr)	89		80 - 120		04/15/25 20:15	1
Dibromofluoromethane (Surr)	98		80 - 120		04/15/25 20:15	1
Toluene-d8 (Surr)	96		80 - 120		04/15/25 20:15	1

Lab Sample ID: LCS 280-691740/4

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	50.6		ug/L		101	79 - 125
1,1,1-Trichloroethane	50.0	46.1		ug/L		92	78 - 125
1,1,2,2-Tetrachloroethane	50.0	50.6		ug/L		101	73 - 126
1,1,2-Trichloroethane	50.0	55.9		ug/L		112	80 - 121
1,1-Dichloroethane	50.0	44.8		ug/L		90	78 - 124
1,1-Dichloroethene	50.0	50.9		ug/L		102	76 - 124
1,1-Dichloropropene	50.0	47.8		ug/L		96	80 - 124
1,2,3-Trichlorobenzene	50.0	53.5		ug/L		107	57 - 136
1,2,3-Trichloropropane	50.0	46.6		ug/L		93	75 - 123
1,2,4-Trichlorobenzene	50.0	51.1		ug/L		102	69 - 130
1,2,4-Trimethylbenzene	50.0	46.3		ug/L		93	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	51.2		ug/L		102	64 - 130
1,2-Dibromoethane	50.0	51.6		ug/L		103	80 - 120
1,2-Dichlorobenzene	50.0	47.8		ug/L		96	80 - 120
1,2-Dichloroethane	50.0	44.1		ug/L		88	73 - 124
1,2-Dichloropropane	50.0	47.9		ug/L		96	78 - 124
1,3,5-Trimethylbenzene	50.0	46.2		ug/L		92	80 - 122
1,3-Dichlorobenzene	50.0	48.9		ug/L		98	80 - 120
1,3-Dichloropropane	50.0	49.0		ug/L		98	80 - 121
1,4-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 120
2,2-Dichloropropane	50.0	46.3		ug/L		93	72 - 131
2-Butanone (MEK)	200	169		ug/L		85	59 - 141
2-Chlorotoluene	50.0	46.0		ug/L		92	80 - 120
2-Hexanone	200	197		ug/L		98	59 - 146
4-Chlorotoluene	50.0	47.1		ug/L		94	80 - 121
4-Isopropyltoluene	50.0	49.8		ug/L		100	80 - 124

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: LCS 280-691740/4

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone (MIBK)	200	218		ug/L		109	63 - 144
Acetone	200	169		ug/L		84	57 - 143
Benzene	50.0	46.1		ug/L		92	80 - 121
Bromobenzene	50.0	45.4		ug/L		91	80 - 120
Bromochloromethane	50.0	48.4		ug/L		97	76 - 126
Bromodichloromethane	50.0	50.7		ug/L		101	80 - 124
Bromoform	50.0	45.1		ug/L		90	66 - 134
Bromomethane	50.0	52.8		ug/L		106	10 - 150
Carbon disulfide	50.0	54.1		ug/L		108	70 - 127
Carbon tetrachloride	50.0	51.6		ug/L		103	72 - 131
Chlorobenzene	50.0	49.0		ug/L		98	80 - 120
Chloroethane	50.0	49.8		ug/L		100	51 - 149
Chloroform	50.0	45.6		ug/L		91	80 - 120
Chloromethane	50.0	41.0		ug/L		82	51 - 142
cis-1,2-Dichloroethene	50.0	47.5		ug/L		95	80 - 121
cis-1,3-Dichloropropene	50.0	46.9		ug/L		94	77 - 127
Dibromochloromethane	50.0	51.8		ug/L		104	77 - 128
Dibromomethane	50.0	49.7		ug/L		99	80 - 120
Dichlorodifluoromethane	50.0	43.2		ug/L		86	36 - 150
Ethylbenzene	50.0	48.2		ug/L		96	80 - 120
Hexachlorobutadiene	50.0	54.4		ug/L		109	66 - 135
Isopropylbenzene	50.0	44.5		ug/L		89	78 - 123
Methylene Chloride	50.0	53.0		ug/L		106	77 - 121
m-Xylene & p-Xylene	50.0	49.3		ug/L		99	80 - 121
Naphthalene	50.0	48.5		ug/L		97	55 - 135
n-Butylbenzene	50.0	52.2		ug/L		104	73 - 131
N-Propylbenzene	50.0	46.2		ug/L		92	80 - 123
o-Xylene	50.0	49.6		ug/L		99	80 - 121
sec-Butylbenzene	50.0	49.0		ug/L		98	80 - 125
Styrene	50.0	49.6		ug/L		99	80 - 123
tert-Butylbenzene	50.0	48.0		ug/L		96	80 - 121
Tetrachloroethene	50.0	45.5		ug/L		91	79 - 125
Toluene	50.0	49.3		ug/L		99	80 - 120
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	78 - 123
trans-1,3-Dichloropropene	50.0	53.3		ug/L		107	79 - 124
Trichloroethene	50.0	40.1		ug/L		80	79 - 121
Trichlorofluoromethane	50.0	49.8		ug/L		100	60 - 139
Vinyl chloride	50.0	49.9		ug/L		100	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		80 - 120
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	94		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: LCSD 280-691740/5

Matrix: Water

Analysis Batch: 691740

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/L		104	79 - 125	3	20
1,1,1-Trichloroethane	50.0	46.6		ug/L		93	78 - 125	1	20
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/L		95	73 - 126	6	20
1,1,2-Trichloroethane	50.0	53.8		ug/L		108	80 - 121	4	20
1,1-Dichloroethane	50.0	43.5		ug/L		87	78 - 124	3	20
1,1-Dichloroethene	50.0	50.1		ug/L		100	76 - 124	2	20
1,1-Dichloropropene	50.0	47.0		ug/L		94	80 - 124	2	20
1,2,3-Trichlorobenzene	50.0	53.5		ug/L		107	57 - 136	0	21
1,2,3-Trichloropropane	50.0	45.2		ug/L		90	75 - 123	3	26
1,2,4-Trichlorobenzene	50.0	51.4		ug/L		103	69 - 130	1	20
1,2,4-Trimethylbenzene	50.0	46.6		ug/L		93	80 - 123	1	20
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/L		104	64 - 130	1	20
1,2-Dibromoethane	50.0	50.7		ug/L		101	80 - 120	2	20
1,2-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120	3	20
1,2-Dichloroethane	50.0	42.9		ug/L		86	73 - 124	3	20
1,2-Dichloropropane	50.0	47.8		ug/L		96	78 - 124	0	20
1,3,5-Trimethylbenzene	50.0	46.1		ug/L		92	80 - 122	0	20
1,3-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	1	20
1,3-Dichloropropane	50.0	47.7		ug/L		95	80 - 121	3	20
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	1	20
2,2-Dichloropropane	50.0	45.1		ug/L		90	72 - 131	3	20
2-Butanone (MEK)	200	188		ug/L		94	59 - 141	10	20
2-Chlorotoluene	50.0	45.9		ug/L		92	80 - 120	0	20
2-Hexanone	200	184		ug/L		92	59 - 146	6	20
4-Chlorotoluene	50.0	47.5		ug/L		95	80 - 121	1	20
4-Isopropyltoluene	50.0	50.4		ug/L		101	80 - 124	1	20
4-Methyl-2-pentanone (MIBK)	200	201		ug/L		100	63 - 144	8	20
Acetone	200	218	*1	ug/L		109	57 - 143	25	22
Benzene	50.0	46.8		ug/L		94	80 - 121	1	20
Bromobenzene	50.0	44.4		ug/L		89	80 - 120	2	20
Bromochloromethane	50.0	53.9		ug/L		108	76 - 126	11	20
Bromodichloromethane	50.0	49.7		ug/L		99	80 - 124	2	20
Bromoform	50.0	46.7		ug/L		93	66 - 134	4	20
Bromomethane	50.0	53.8		ug/L		108	10 - 150	2	58
Carbon disulfide	50.0	54.2		ug/L		108	70 - 127	0	20
Carbon tetrachloride	50.0	53.2		ug/L		106	72 - 131	3	20
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120	2	20
Chloroethane	50.0	48.9		ug/L		98	51 - 149	2	34
Chloroform	50.0	46.2		ug/L		92	80 - 120	1	20
Chloromethane	50.0	37.4		ug/L		75	51 - 142	9	21
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	80 - 121	3	20
cis-1,3-Dichloropropene	50.0	45.0		ug/L		90	77 - 127	4	20
Dibromochloromethane	50.0	51.4		ug/L		103	77 - 128	1	20
Dibromomethane	50.0	54.1		ug/L		108	80 - 120	9	20
Dichlorodifluoromethane	50.0	42.4		ug/L		85	36 - 150	2	35
Ethylbenzene	50.0	49.0		ug/L		98	80 - 120	2	20
Hexachlorobutadiene	50.0	54.2		ug/L		108	66 - 135	0	20
Isopropylbenzene	50.0	44.5		ug/L		89	78 - 123	0	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: LCSD 280-691740/5

Matrix: Water

Analysis Batch: 691740

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
Methylene Chloride	50.0	53.4		ug/L		107	77 - 121	1	20
m-Xylene & p-Xylene	50.0	51.0		ug/L		102	80 - 121	3	20
Naphthalene	50.0	49.3		ug/L		99	55 - 135	2	23
n-Butylbenzene	50.0	51.6		ug/L		103	73 - 131	1	25
N-Propylbenzene	50.0	46.7		ug/L		93	80 - 123	1	20
o-Xylene	50.0	51.3		ug/L		103	80 - 121	3	20
sec-Butylbenzene	50.0	49.0		ug/L		98	80 - 125	0	20
Styrene	50.0	51.1		ug/L		102	80 - 123	3	20
tert-Butylbenzene	50.0	48.4		ug/L		97	80 - 121	1	20
Tetrachloroethene	50.0	47.9		ug/L		96	79 - 125	5	20
Toluene	50.0	50.2		ug/L		100	80 - 120	2	20
trans-1,2-Dichloroethene	50.0	51.1		ug/L		102	78 - 123	4	20
trans-1,3-Dichloropropene	50.0	51.7		ug/L		103	79 - 124	3	20
Trichloroethene	50.0	42.1		ug/L		84	79 - 121	5	20
Trichlorofluoromethane	50.0	50.9		ug/L		102	60 - 139	2	25
Vinyl chloride	50.0	46.3		ug/L		93	60 - 136	7	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	84		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: MB 280-692027/9

Matrix: Water

Analysis Batch: 692027

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			04/16/25 19:48	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			04/16/25 19:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			04/16/25 19:48	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			04/16/25 19:48	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: MB 280-692027/9

Matrix: Water

Analysis Batch: 692027

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
2-Butanone (MEK)	ND		10	4.0	ug/L			04/16/25 19:48	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
2-Hexanone	ND		5.0	1.5	ug/L			04/16/25 19:48	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			04/16/25 19:48	1
Acetone	ND		15	5.0	ug/L			04/16/25 19:48	1
Benzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Bromobenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Bromochloromethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Bromodichloromethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Bromoform	ND		2.0	0.50	ug/L			04/16/25 19:48	1
Bromomethane	ND		5.0	2.5	ug/L			04/16/25 19:48	1
Carbon disulfide	ND		2.0	0.50	ug/L			04/16/25 19:48	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Chlorobenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Chloroethane	ND		2.0	0.50	ug/L			04/16/25 19:48	1
Chloroform	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Chloromethane	ND		2.0	0.50	ug/L			04/16/25 19:48	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Dibromomethane	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			04/16/25 19:48	1
Ethylbenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			04/16/25 19:48	1
Isopropylbenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Methylene Chloride	ND		2.0	1.0	ug/L			04/16/25 19:48	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			04/16/25 19:48	1
Naphthalene	ND		3.0	1.0	ug/L			04/16/25 19:48	1
n-Butylbenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
N-Propylbenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
o-Xylene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Styrene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Tetrachloroethene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Toluene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Trichloroethene	ND		1.0	0.25	ug/L			04/16/25 19:48	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			04/16/25 19:48	1
Vinyl chloride	ND		1.0	0.25	ug/L			04/16/25 19:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		04/16/25 19:48	1
4-Bromofluorobenzene (Surr)	95		80 - 120		04/16/25 19:48	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: MB 280-692027/9

Matrix: Water

Analysis Batch: 692027

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120		04/16/25 19:48	1
Toluene-d8 (Surr)	102		80 - 120		04/16/25 19:48	1

Lab Sample ID: LCS 280-692027/4

Matrix: Water

Analysis Batch: 692027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/L		106	79 - 125
1,1,1-Trichloroethane	50.0	52.9		ug/L		106	78 - 125
1,1,2,2-Tetrachloroethane	50.0	47.1		ug/L		94	73 - 126
1,1,2-Trichloroethane	50.0	52.9		ug/L		106	80 - 121
1,1-Dichloroethane	50.0	51.1		ug/L		102	78 - 124
1,1-Dichloroethene	50.0	54.5		ug/L		109	76 - 124
1,1-Dichloropropene	50.0	50.8		ug/L		102	80 - 124
1,2,3-Trichlorobenzene	50.0	48.5		ug/L		97	57 - 136
1,2,3-Trichloropropane	50.0	47.5		ug/L		95	75 - 123
1,2,4-Trichlorobenzene	50.0	48.3		ug/L		97	69 - 130
1,2,4-Trimethylbenzene	50.0	46.1		ug/L		92	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	48.6		ug/L		97	64 - 130
1,2-Dibromoethane	50.0	51.1		ug/L		102	80 - 120
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	48.5		ug/L		97	73 - 124
1,2-Dichloropropane	50.0	50.7		ug/L		101	78 - 124
1,3,5-Trimethylbenzene	50.0	48.0		ug/L		96	80 - 122
1,3-Dichlorobenzene	50.0	48.6		ug/L		97	80 - 120
1,3-Dichloropropane	50.0	51.4		ug/L		103	80 - 121
1,4-Dichlorobenzene	50.0	48.8		ug/L		98	80 - 120
2,2-Dichloropropane	50.0	55.5		ug/L		111	72 - 131
2-Butanone (MEK)	200	187		ug/L		93	59 - 141
2-Chlorotoluene	50.0	47.6		ug/L		95	80 - 120
2-Hexanone	200	198		ug/L		99	59 - 146
4-Chlorotoluene	50.0	48.8		ug/L		98	80 - 121
4-Isopropyltoluene	50.0	49.2		ug/L		98	80 - 124
4-Methyl-2-pentanone (MIBK)	200	206		ug/L		103	63 - 144
Acetone	200	194		ug/L		97	57 - 143
Benzene	50.0	49.9		ug/L		100	80 - 121
Bromobenzene	50.0	49.7		ug/L		99	80 - 120
Bromochloromethane	50.0	52.0		ug/L		104	76 - 126
Bromodichloromethane	50.0	51.3		ug/L		103	80 - 124
Bromoform	50.0	55.3		ug/L		111	66 - 134
Bromomethane	50.0	56.5		ug/L		113	10 - 150
Carbon disulfide	50.0	51.0		ug/L		102	70 - 127
Carbon tetrachloride	50.0	53.7		ug/L		107	72 - 131
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120
Chloroethane	50.0	48.3		ug/L		97	51 - 149
Chloroform	50.0	51.3		ug/L		103	80 - 120
Chloromethane	50.0	43.3		ug/L		87	51 - 142

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: LCS 280-692027/4

Matrix: Water

Analysis Batch: 692027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	50.0	52.4		ug/L		105	80 - 121
cis-1,3-Dichloropropene	50.0	50.9		ug/L		102	77 - 127
Dibromochloromethane	50.0	53.4		ug/L		107	77 - 128
Dibromomethane	50.0	51.0		ug/L		102	80 - 120
Dichlorodifluoromethane	50.0	45.4		ug/L		91	36 - 150
Ethylbenzene	50.0	50.4		ug/L		101	80 - 120
Hexachlorobutadiene	50.0	52.3		ug/L		105	66 - 135
Isopropylbenzene	50.0	48.6		ug/L		97	78 - 123
Methylene Chloride	50.0	46.6		ug/L		93	77 - 121
m-Xylene & p-Xylene	50.0	50.8		ug/L		102	80 - 121
Naphthalene	50.0	45.1		ug/L		90	55 - 135
n-Butylbenzene	50.0	47.4		ug/L		95	73 - 131
N-Propylbenzene	50.0	48.2		ug/L		96	80 - 123
o-Xylene	50.0	51.6		ug/L		103	80 - 121
sec-Butylbenzene	50.0	50.4		ug/L		101	80 - 125
Styrene	50.0	51.0		ug/L		102	80 - 123
tert-Butylbenzene	50.0	49.3		ug/L		99	80 - 121
Tetrachloroethene	50.0	53.2		ug/L		106	79 - 125
Toluene	50.0	51.5		ug/L		103	80 - 120
trans-1,2-Dichloroethene	50.0	52.0		ug/L		104	78 - 123
trans-1,3-Dichloropropene	50.0	52.3		ug/L		105	79 - 124
Trichloroethene	50.0	48.0		ug/L		96	79 - 121
Trichlorofluoromethane	50.0	46.5		ug/L		93	60 - 139
Vinyl chloride	50.0	45.9		ug/L		92	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 280-692027/5

Matrix: Water

Analysis Batch: 692027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.9		ug/L		106	79 - 125	0	20
1,1,1-Trichloroethane	50.0	52.8		ug/L		106	78 - 125	0	20
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	73 - 126	0	20
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	80 - 121	2	20
1,1-Dichloroethane	50.0	50.7		ug/L		101	78 - 124	1	20
1,1-Dichloroethene	50.0	54.4		ug/L		109	76 - 124	0	20
1,1-Dichloropropene	50.0	50.6		ug/L		101	80 - 124	1	20
1,2,3-Trichlorobenzene	50.0	50.6		ug/L		101	57 - 136	4	21
1,2,3-Trichloropropane	50.0	47.2		ug/L		94	75 - 123	1	26
1,2,4-Trichlorobenzene	50.0	48.9		ug/L		98	69 - 130	1	20
1,2,4-Trimethylbenzene	50.0	47.4		ug/L		95	80 - 123	3	20
1,2-Dibromo-3-Chloropropane	50.0	49.1		ug/L		98	64 - 130	1	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: LCSD 280-692027/5

Matrix: Water

Analysis Batch: 692027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane	50.0	50.6		ug/L		101	80 - 120	1	20
1,2-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120	1	20
1,2-Dichloroethane	50.0	48.0		ug/L		96	73 - 124	1	20
1,2-Dichloropropane	50.0	50.8		ug/L		102	78 - 124	0	20
1,3,5-Trimethylbenzene	50.0	49.3		ug/L		99	80 - 122	3	20
1,3-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120	1	20
1,3-Dichloropropane	50.0	49.5		ug/L		99	80 - 121	4	20
1,4-Dichlorobenzene	50.0	48.8		ug/L		98	80 - 120	0	20
2,2-Dichloropropane	50.0	54.4		ug/L		109	72 - 131	2	20
2-Butanone (MEK)	200	182		ug/L		91	59 - 141	2	20
2-Chlorotoluene	50.0	48.6		ug/L		97	80 - 120	2	20
2-Hexanone	200	192		ug/L		96	59 - 146	3	20
4-Chlorotoluene	50.0	49.9		ug/L		100	80 - 121	2	20
4-Isopropyltoluene	50.0	49.5		ug/L		99	80 - 124	1	20
4-Methyl-2-pentanone (MIBK)	200	203		ug/L		101	63 - 144	1	20
Acetone	200	194		ug/L		97	57 - 143	0	22
Benzene	50.0	50.1		ug/L		100	80 - 121	0	20
Bromobenzene	50.0	50.9		ug/L		102	80 - 120	2	20
Bromochloromethane	50.0	53.3		ug/L		107	76 - 126	2	20
Bromodichloromethane	50.0	51.3		ug/L		103	80 - 124	0	20
Bromoform	50.0	54.1		ug/L		108	66 - 134	2	20
Bromomethane	50.0	61.5		ug/L		123	10 - 150	8	58
Carbon disulfide	50.0	51.1		ug/L		102	70 - 127	0	20
Carbon tetrachloride	50.0	53.4		ug/L		107	72 - 131	1	20
Chlorobenzene	50.0	49.7		ug/L		99	80 - 120	1	20
Chloroethane	50.0	47.3		ug/L		95	51 - 149	2	34
Chloroform	50.0	50.6		ug/L		101	80 - 120	1	20
Chloromethane	50.0	42.2		ug/L		84	51 - 142	3	21
cis-1,2-Dichloroethene	50.0	51.9		ug/L		104	80 - 121	1	20
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	77 - 127	0	20
Dibromochloromethane	50.0	53.4		ug/L		107	77 - 128	0	20
Dibromomethane	50.0	49.5		ug/L		99	80 - 120	3	20
Dichlorodifluoromethane	50.0	46.4		ug/L		93	36 - 150	2	35
Ethylbenzene	50.0	51.6		ug/L		103	80 - 120	2	20
Hexachlorobutadiene	50.0	53.4		ug/L		107	66 - 135	2	20
Isopropylbenzene	50.0	50.2		ug/L		100	78 - 123	3	20
Methylene Chloride	50.0	46.6		ug/L		93	77 - 121	0	20
m-Xylene & p-Xylene	50.0	50.6		ug/L		101	80 - 121	0	20
Naphthalene	50.0	46.3		ug/L		93	55 - 135	3	23
n-Butylbenzene	50.0	47.3		ug/L		95	73 - 131	0	25
N-Propylbenzene	50.0	49.9		ug/L		100	80 - 123	3	20
o-Xylene	50.0	51.3		ug/L		103	80 - 121	1	20
sec-Butylbenzene	50.0	51.8		ug/L		104	80 - 125	3	20
Styrene	50.0	49.9		ug/L		100	80 - 123	2	20
tert-Butylbenzene	50.0	49.2		ug/L		98	80 - 121	0	20
Tetrachloroethene	50.0	51.6		ug/L		103	79 - 125	3	20
Toluene	50.0	52.1		ug/L		104	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	78 - 123	2	20
trans-1,3-Dichloropropene	50.0	51.4		ug/L		103	79 - 124	2	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: LCSD 280-692027/5

Matrix: Water

Analysis Batch: 692027

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
Trichloroethene	50.0	48.7		ug/L		97	79 - 121	1	20
Trichlorofluoromethane	50.0	46.4		ug/L		93	60 - 139	0	25
Vinyl chloride	50.0	45.4		ug/L		91	60 - 136	1	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 280-205933-E-10 MS

Matrix: Water

Analysis Batch: 692027

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		50.0	51.9		ug/L		104	79 - 125
1,1,1-Trichloroethane	ND		50.0	53.8		ug/L		108	78 - 125
1,1,2,2-Tetrachloroethane	ND		50.0	49.3		ug/L		99	73 - 126
1,1,2-Trichloroethane	ND		50.0	51.8		ug/L		104	80 - 121
1,1-Dichloroethane	ND		50.0	51.4		ug/L		103	78 - 124
1,1-Dichloroethene	ND		50.0	55.0		ug/L		110	76 - 124
1,1-Dichloropropene	ND		50.0	51.3		ug/L		103	80 - 124
1,2,3-Trichlorobenzene	ND		50.0	46.9		ug/L		94	57 - 136
1,2,3-Trichloropropane	ND		50.0	48.0		ug/L		96	75 - 123
1,2,4-Trichlorobenzene	ND		50.0	46.8		ug/L		94	69 - 130
1,2,4-Trimethylbenzene	ND		50.0	48.4		ug/L		97	80 - 123
1,2-Dibromo-3-Chloropropane	ND		50.0	49.0		ug/L		98	64 - 130
1,2-Dibromoethane	ND		50.0	49.3		ug/L		99	80 - 120
1,2-Dichlorobenzene	ND		50.0	50.1		ug/L		100	80 - 120
1,2-Dichloroethane	ND		50.0	48.4		ug/L		97	73 - 124
1,2-Dichloropropane	ND		50.0	51.1		ug/L		102	78 - 124
1,3,5-Trimethylbenzene	ND		50.0	50.2		ug/L		100	80 - 122
1,3-Dichlorobenzene	ND		50.0	49.9		ug/L		100	80 - 120
1,3-Dichloropropane	ND		50.0	49.5		ug/L		99	80 - 121
1,4-Dichlorobenzene	ND		50.0	49.0		ug/L		98	80 - 120
2,2-Dichloropropane	ND		50.0	50.6		ug/L		101	72 - 131
2-Butanone (MEK)	ND		200	183		ug/L		91	59 - 141
2-Chlorotoluene	ND		50.0	50.3		ug/L		101	80 - 120
2-Hexanone	ND		200	192		ug/L		96	59 - 146
4-Chlorotoluene	ND		50.0	50.9		ug/L		102	80 - 121
4-Isopropyltoluene	ND		50.0	49.7		ug/L		99	80 - 124
4-Methyl-2-pentanone (MIBK)	ND		200	206		ug/L		103	63 - 144
Acetone	ND		200	178		ug/L		89	57 - 143
Benzene	ND		50.0	50.9		ug/L		102	80 - 121
Bromobenzene	ND		50.0	51.6		ug/L		103	80 - 120
Bromochloromethane	ND		50.0	54.0		ug/L		108	76 - 126
Bromodichloromethane	ND		50.0	52.1		ug/L		104	80 - 124
Bromoform	ND		50.0	53.0		ug/L		106	66 - 134

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: 280-205933-E-10 MS

Matrix: Water

Analysis Batch: 692027

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
Bromomethane	ND		50.0	50.1		ug/L		100	10 - 150
Carbon disulfide	ND		50.0	52.2		ug/L		104	70 - 127
Carbon tetrachloride	ND		50.0	55.7		ug/L		111	72 - 131
Chlorobenzene	ND		50.0	49.5		ug/L		99	80 - 120
Chloroethane	ND		50.0	49.7		ug/L		99	51 - 149
Chloroform	ND		50.0	52.0		ug/L		104	80 - 120
Chloromethane	ND		50.0	43.9		ug/L		88	51 - 142
cis-1,2-Dichloroethene	ND		50.0	52.5		ug/L		105	80 - 121
cis-1,3-Dichloropropene	ND		50.0	49.2		ug/L		98	77 - 127
Dibromochloromethane	ND		50.0	53.3		ug/L		107	77 - 128
Dibromomethane	ND		50.0	51.8		ug/L		104	80 - 120
Dichlorodifluoromethane	ND		50.0	49.3		ug/L		99	36 - 150
Ethylbenzene	ND		50.0	50.9		ug/L		102	80 - 120
Hexachlorobutadiene	ND		50.0	50.6		ug/L		101	66 - 135
Isopropylbenzene	ND		50.0	51.2		ug/L		102	78 - 123
Methylene Chloride	ND		50.0	47.8		ug/L		96	77 - 121
m-Xylene & p-Xylene	ND		50.0	50.5		ug/L		101	80 - 121
Naphthalene	ND		50.0	44.1		ug/L		88	55 - 135
n-Butylbenzene	ND		50.0	47.6		ug/L		95	73 - 131
N-Propylbenzene	ND		50.0	50.4		ug/L		101	80 - 123
o-Xylene	ND		50.0	51.4		ug/L		103	80 - 121
sec-Butylbenzene	ND		50.0	51.1		ug/L		102	80 - 125
Styrene	ND		50.0	50.4		ug/L		101	80 - 123
tert-Butylbenzene	0.41	J	50.0	50.7		ug/L		101	80 - 121
Tetrachloroethene	ND		50.0	52.2		ug/L		104	79 - 125
Toluene	ND		50.0	52.5		ug/L		105	80 - 120
trans-1,2-Dichloroethene	ND		50.0	53.2		ug/L		106	78 - 123
trans-1,3-Dichloropropene	ND		50.0	51.0		ug/L		102	79 - 124
Trichloroethene	ND		50.0	47.8		ug/L		96	79 - 121
Trichlorofluoromethane	ND		50.0	48.5		ug/L		97	60 - 139
Vinyl chloride	ND		50.0	47.7		ug/L		95	60 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 280-205933-G-10 MSD

Matrix: Water

Analysis Batch: 692027

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	53.2		ug/L		106	79 - 125	2	20
1,1,1-Trichloroethane	ND		50.0	52.9		ug/L		106	78 - 125	2	20
1,1,2,2-Tetrachloroethane	ND		50.0	50.4		ug/L		101	73 - 126	2	20
1,1,2-Trichloroethane	ND		50.0	52.5		ug/L		105	80 - 121	1	20
1,1-Dichloroethane	ND		50.0	51.5		ug/L		103	78 - 124	0	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: 280-205933-G-10 MSD

Matrix: Water

Analysis Batch: 692027

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		50.0	56.1		ug/L		112	76 - 124	2	20
1,1-Dichloropropene	ND		50.0	51.5		ug/L		103	80 - 124	0	20
1,2,3-Trichlorobenzene	ND		50.0	51.2		ug/L		102	57 - 136	9	21
1,2,3-Trichloropropane	ND		50.0	49.5		ug/L		99	75 - 123	3	26
1,2,4-Trichlorobenzene	ND		50.0	49.0		ug/L		98	69 - 130	5	20
1,2,4-Trimethylbenzene	ND		50.0	48.2		ug/L		96	80 - 123	0	20
1,2-Dibromo-3-Chloropropane	ND		50.0	52.4		ug/L		105	64 - 130	7	20
1,2-Dibromoethane	ND		50.0	51.3		ug/L		103	80 - 120	4	20
1,2-Dichlorobenzene	ND		50.0	51.3		ug/L		103	80 - 120	2	20
1,2-Dichloroethane	ND		50.0	48.4		ug/L		97	73 - 124	0	20
1,2-Dichloropropane	ND		50.0	50.8		ug/L		102	78 - 124	1	20
1,3,5-Trimethylbenzene	ND		50.0	49.8		ug/L		100	80 - 122	1	20
1,3-Dichlorobenzene	ND		50.0	50.6		ug/L		101	80 - 120	1	20
1,3-Dichloropropane	ND		50.0	51.0		ug/L		102	80 - 121	3	20
1,4-Dichlorobenzene	ND		50.0	49.4		ug/L		99	80 - 120	1	20
2,2-Dichloropropane	ND		50.0	50.6		ug/L		101	72 - 131	0	20
2-Butanone (MEK)	ND		200	191		ug/L		96	59 - 141	5	20
2-Chlorotoluene	ND		50.0	50.3		ug/L		101	80 - 120	0	20
2-Hexanone	ND		200	207		ug/L		103	59 - 146	7	20
4-Chlorotoluene	ND		50.0	50.1		ug/L		100	80 - 121	2	20
4-Isopropyltoluene	ND		50.0	51.0		ug/L		102	80 - 124	3	20
4-Methyl-2-pentanone (MIBK)	ND		200	211		ug/L		105	63 - 144	3	20
Acetone	ND		200	184		ug/L		92	57 - 143	3	22
Benzene	ND		50.0	50.5		ug/L		101	80 - 121	1	20
Bromobenzene	ND		50.0	51.2		ug/L		102	80 - 120	1	20
Bromochloromethane	ND		50.0	55.8		ug/L		112	76 - 126	3	20
Bromodichloromethane	ND		50.0	51.6		ug/L		103	80 - 124	1	20
Bromoform	ND		50.0	56.9		ug/L		114	66 - 134	7	20
Bromomethane	ND		50.0	49.9		ug/L		100	10 - 150	0	58
Carbon disulfide	ND		50.0	52.5		ug/L		105	70 - 127	1	20
Carbon tetrachloride	ND		50.0	55.6		ug/L		111	72 - 131	0	20
Chlorobenzene	ND		50.0	50.7		ug/L		101	80 - 120	2	20
Chloroethane	ND		50.0	46.3		ug/L		93	51 - 149	7	34
Chloroform	ND		50.0	52.4		ug/L		105	80 - 120	1	20
Chloromethane	ND		50.0	41.1		ug/L		82	51 - 142	6	21
cis-1,2-Dichloroethene	ND		50.0	52.6		ug/L		105	80 - 121	0	20
cis-1,3-Dichloropropene	ND		50.0	50.5		ug/L		101	77 - 127	3	20
Dibromochloromethane	ND		50.0	54.1		ug/L		108	77 - 128	2	20
Dibromomethane	ND		50.0	52.2		ug/L		104	80 - 120	1	20
Dichlorodifluoromethane	ND		50.0	44.9		ug/L		90	36 - 150	9	35
Ethylbenzene	ND		50.0	52.7		ug/L		105	80 - 120	3	20
Hexachlorobutadiene	ND		50.0	53.5		ug/L		107	66 - 135	6	20
Isopropylbenzene	ND		50.0	50.9		ug/L		102	78 - 123	1	20
Methylene Chloride	ND		50.0	47.3		ug/L		95	77 - 121	1	20
m-Xylene & p-Xylene	ND		50.0	51.7		ug/L		103	80 - 121	2	20
Naphthalene	ND		50.0	48.1		ug/L		96	55 - 135	9	23
n-Butylbenzene	ND		50.0	48.3		ug/L		97	73 - 131	1	25
N-Propylbenzene	ND		50.0	50.2		ug/L		100	80 - 123	1	20
o-Xylene	ND		50.0	52.5		ug/L		105	80 - 121	2	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: 280-205933-G-10 MSD

Matrix: Water

Analysis Batch: 692027

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
sec-Butylbenzene	ND		50.0	52.3		ug/L		105	80 - 125	2	20
Styrene	ND		50.0	52.5		ug/L		105	80 - 123	4	20
tert-Butylbenzene	0.41	J	50.0	50.8		ug/L		101	80 - 121	0	20
Tetrachloroethene	ND		50.0	54.7		ug/L		109	79 - 125	5	20
Toluene	ND		50.0	52.1		ug/L		104	80 - 120	1	20
trans-1,2-Dichloroethene	ND		50.0	52.6		ug/L		105	78 - 123	1	20
trans-1,3-Dichloropropene	ND		50.0	51.2		ug/L		102	79 - 124	0	20
Trichloroethene	ND		50.0	48.7		ug/L		97	79 - 121	2	20
Trichlorofluoromethane	ND		50.0	44.7		ug/L		89	60 - 139	8	25
Vinyl chloride	ND		50.0	43.7		ug/L		87	60 - 136	9	23

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-691500/1-A

Matrix: Water

Analysis Batch: 691821

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 691500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		04/14/25 15:46	04/15/25 18:54	1

Lab Sample ID: LCS 280-691500/2-A

Matrix: Water

Analysis Batch: 691821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 691500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	38.7		ug/L		97	89 - 111

Lab Sample ID: 280-205859-B-1-B MS

Matrix: Water

Analysis Batch: 691821

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 691500

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	35		40.0	78.9		ug/L		109	79 - 120

Lab Sample ID: 280-205859-B-1-C MSD

Matrix: Water

Analysis Batch: 691821

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 691500

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	35		40.0	78.0		ug/L		107	79 - 120	1	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-691542/1-A
Matrix: Water
Analysis Batch: 692294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 691542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		04/16/25 08:41	04/18/25 07:40	1

Lab Sample ID: LCS 280-691542/2-A
Matrix: Water
Analysis Batch: 692294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 691542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	42.4		ug/L		106	89 - 111

Lab Sample ID: 280-205895-A-6-B MS
Matrix: Water
Analysis Batch: 692825

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 691542

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	37.1		ug/L		93	79 - 120

Lab Sample ID: 280-205895-A-6-C MSD
Matrix: Water
Analysis Batch: 692825

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 691542

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	40.0		ug/L		100	79 - 120	7	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-691503/1-A
Matrix: Water
Analysis Batch: 691862

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 691503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	60	ug/L		04/14/25 15:46	04/15/25 18:03	1
Iron	ND		100	40	ug/L		04/14/25 15:46	04/15/25 18:03	1
Magnesium	ND		200	50	ug/L		04/14/25 15:46	04/15/25 18:03	1
Manganese	ND		10	2.5	ug/L		04/14/25 15:46	04/15/25 18:03	1
Sodium	ND		1000	450	ug/L		04/14/25 15:46	04/15/25 18:03	1

Lab Sample ID: LCS 280-691503/2-A
Matrix: Water
Analysis Batch: 691862

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 691503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	100000	99300		ug/L		99	85 - 115
Iron	20000	20000		ug/L		100	85 - 115
Magnesium	100000	99000		ug/L		99	85 - 115
Manganese	2000	1980		ug/L		99	85 - 115
Sodium	100000	109000		ug/L		109	85 - 115

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: MB 280-691547/1-A

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 691547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	60	ug/L		04/16/25 08:41	04/16/25 22:08	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/16/25 22:08	1
Magnesium	ND		200	50	ug/L		04/16/25 08:41	04/16/25 22:08	1
Manganese	ND		10	2.5	ug/L		04/16/25 08:41	04/16/25 22:08	1
Sodium	ND		1000	450	ug/L		04/16/25 08:41	04/16/25 22:08	1

Lab Sample ID: LCS 280-691547/2-A

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 691547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	49100		ug/L		98	85 - 115
Iron	10000	9940		ug/L		99	85 - 115
Magnesium	50000	49000		ug/L		98	85 - 115
Manganese	1000	988		ug/L		99	85 - 115
Sodium	50000	50200		ug/L		100	85 - 115

Lab Sample ID: 280-205844-C-1-B MS

Matrix: Water

Analysis Batch: 691862

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 691503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	15000		50000	64700		ug/L		100	75 - 125
Iron	46	J	10000	10200		ug/L		101	75 - 125
Magnesium	6200		50000	56000		ug/L		100	75 - 125
Manganese	9.2	J	1000	1010		ug/L		100	75 - 125
Sodium	6500		50000	59400		ug/L		106	75 - 125

Lab Sample ID: 280-205844-C-1-C MSD

Matrix: Water

Analysis Batch: 691862

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 691503

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Calcium	15000		50000	65000		ug/L		101	75 - 125	0	20
Iron	46	J	10000	10200		ug/L		102	75 - 125	1	20
Magnesium	6200		50000	56100		ug/L		100	75 - 125	0	20
Manganese	9.2	J	1000	1020		ug/L		101	75 - 125	1	20
Sodium	6500		50000	59600		ug/L		106	75 - 125	0	20

Lab Sample ID: 280-205967-E-1-E MS

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 691547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	260000		50000	304000	4	ug/L		82	75 - 125
Iron	5300		10000	14700		ug/L		94	75 - 125
Magnesium	390000		50000	431000	4	ug/L		80	75 - 125
Manganese	2900		1000	3790		ug/L		88	75 - 125

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

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

Lab Sample ID: 280-205967-E-1-E MS
Matrix: Water
Analysis Batch: 692283

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 691547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	3900000		50000	3820000	4	ug/L		-248	75 - 125

Lab Sample ID: 280-205967-E-1-F MSD
Matrix: Water
Analysis Batch: 692081

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 691547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	260000		50000	304000	4	ug/L		82	75 - 125	0	20
Iron	5300		10000	14700		ug/L		94	75 - 125	0	20
Magnesium	390000		50000	430000	4	ug/L		79	75 - 125	0	20
Manganese	2900		1000	3790		ug/L		88	75 - 125	0	20

Lab Sample ID: 280-205967-E-1-F MSD
Matrix: Water
Analysis Batch: 692283

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 691547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	3900000		50000	3830000	4	ug/L		-228	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-691492/6
Matrix: Water
Analysis Batch: 691492

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			04/14/25 13:58	1

Lab Sample ID: LCS 280-691492/4
Matrix: Water
Analysis Batch: 691492

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

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

Lab Sample ID: LCSD 280-691492/5
Matrix: Water
Analysis Batch: 691492

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-691492/3
Matrix: Water
Analysis Batch: 691492

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.99	J	mg/L		100	50 - 150

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-205749-B-4 MS

Matrix: Water

Analysis Batch: 691492

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	130		500	636		mg/L		102	80 - 120

Lab Sample ID: 280-205749-B-4 MSD

Matrix: Water

Analysis Batch: 691492

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	130		500	636		mg/L		102	80 - 120	0	20

Lab Sample ID: 280-205749-B-4 DU

Matrix: Water

Analysis Batch: 691492

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	130		127		mg/L		0	15

Lab Sample ID: MB 280-691496/40

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			04/14/25 22:56	1

Lab Sample ID: LCS 280-691496/38

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 280-691496/39

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-691496/3

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.94	J	mg/L		98	50 - 150

Lab Sample ID: 280-205855-B-1 MS

Matrix: Water

Analysis Batch: 691496

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	140		250	399		mg/L		102	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-205855-B-1 MSD

Matrix: Water

Analysis Batch: 691496

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	140		250	396		mg/L		101	80 - 120	1	20

Lab Sample ID: 280-205855-B-1 DU

Matrix: Water

Analysis Batch: 691496

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	140		144		mg/L		0.1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-692108/90

Matrix: Water

Analysis Batch: 692108

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			04/17/25 05:55	1

Lab Sample ID: 280-205713-B-2 DU

Matrix: Water

Analysis Batch: 692108

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	210		214		mg/L		1	20

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

Lab Sample ID: MB 280-691456/1

Matrix: Water

Analysis Batch: 691456

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	6.0	mg/L			04/14/25 09:03	1

Lab Sample ID: LCS 280-691456/2

Matrix: Water

Analysis Batch: 691456

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	503	496		mg/L		99	88 - 114

Lab Sample ID: 280-205898-C-1 DU

Matrix: Water

Analysis Batch: 691456

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	690		680		mg/L		2	10

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-691898/1

Matrix: Water

Analysis Batch: 691898

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.5	mg/L			04/16/25 11:30	1

Lab Sample ID: LCS 280-691898/2

Matrix: Water

Analysis Batch: 691898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	504	480		mg/L		95	80 - 114

Lab Sample ID: 280-205828-K-2 DU

Matrix: Water

Analysis Batch: 691898

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	170		160		mg/L		8	10

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

GC/MS VOA

Analysis Batch: 691604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-1	LDS-2B	Total/NA	Water	8260D	
280-205965-2	LDS-3	Total/NA	Water	8260D	
280-205965-5	LDS-ELP	Total/NA	Water	8260D	
280-205965-6	Trip Blank	Total/NA	Water	8260D	
MB 280-691604/9	Method Blank	Total/NA	Water	8260D	
LCS 280-691604/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-691604/5	Lab Control Sample Dup	Total/NA	Water	8260D	
280-205807-A-5 MS	Matrix Spike	Total/NA	Water	8260D	
280-205807-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 691740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-4	LDS-5	Total/NA	Water	8260D	
MB 280-691740/9	Method Blank	Total/NA	Water	8260D	
LCS 280-691740/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-691740/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 692027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-3	LDS-4	Total/NA	Water	8260D	
MB 280-692027/9	Method Blank	Total/NA	Water	8260D	
LCS 280-692027/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-692027/5	Lab Control Sample Dup	Total/NA	Water	8260D	
280-205933-E-10 MS	Matrix Spike	Total/NA	Water	8260D	
280-205933-G-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Metals

Prep Batch: 691500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-1	LDS-2B	Total/NA	Water	200.8	
280-205965-2	LDS-3	Total/NA	Water	200.8	
280-205965-3	LDS-4	Total/NA	Water	200.8	
280-205965-4	LDS-5	Total/NA	Water	200.8	
MB 280-691500/1-A	Method Blank	Total/NA	Water	3005A	
LCS 280-691500/2-A	Lab Control Sample	Total/NA	Water	3005A	
280-205859-B-1-B MS	Matrix Spike	Total/NA	Water	200.8	
280-205859-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Prep Batch: 691503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-1	LDS-2B	Dissolved	Water	3005A	
280-205965-2	LDS-3	Dissolved	Water	3005A	
280-205965-3	LDS-4	Dissolved	Water	3005A	
280-205965-4	LDS-5	Dissolved	Water	3005A	
MB 280-691503/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-691503/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-205844-C-1-B MS	Matrix Spike	Dissolved	Water	3005A	
280-205844-C-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Metals

Prep Batch: 691542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-5	LDS-ELP	Total/NA	Water	200.8	
MB 280-691542/1-A	Method Blank	Total/NA	Water	3005A	
LCS 280-691542/2-A	Lab Control Sample	Total/NA	Water	3005A	
280-205895-A-6-B MS	Matrix Spike	Total/NA	Water	3005A	
280-205895-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Prep Batch: 691547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-5	LDS-ELP	Dissolved	Water	3005A	
MB 280-691547/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-691547/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-205967-E-1-E MS	Matrix Spike	Dissolved	Water	3005A	
280-205967-E-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 691821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-1	LDS-2B	Total/NA	Water	200.8	691500
280-205965-2	LDS-3	Total/NA	Water	200.8	691500
280-205965-3	LDS-4	Total/NA	Water	200.8	691500
280-205965-4	LDS-5	Total/NA	Water	200.8	691500
MB 280-691500/1-A	Method Blank	Total/NA	Water	200.8	691500
LCS 280-691500/2-A	Lab Control Sample	Total/NA	Water	200.8	691500
280-205859-B-1-B MS	Matrix Spike	Total/NA	Water	200.8	691500
280-205859-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	691500

Analysis Batch: 691862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-1	LDS-2B	Dissolved	Water	6010D	691503
280-205965-2	LDS-3	Dissolved	Water	6010D	691503
280-205965-3	LDS-4	Dissolved	Water	6010D	691503
280-205965-4	LDS-5	Dissolved	Water	6010D	691503
MB 280-691503/1-A	Method Blank	Total Recoverable	Water	6010D	691503
LCS 280-691503/2-A	Lab Control Sample	Total Recoverable	Water	6010D	691503
280-205844-C-1-B MS	Matrix Spike	Dissolved	Water	6010D	691503
280-205844-C-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	691503

Analysis Batch: 692080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-1	LDS-2B	Dissolved	Water	6010D	691503

Analysis Batch: 692081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-5	LDS-ELP	Dissolved	Water	6010D	691547
MB 280-691547/1-A	Method Blank	Total Recoverable	Water	6010D	691547
LCS 280-691547/2-A	Lab Control Sample	Total Recoverable	Water	6010D	691547
280-205967-E-1-E MS	Matrix Spike	Dissolved	Water	6010D	691547
280-205967-E-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	691547

Analysis Batch: 692283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-5	LDS-ELP	Dissolved	Water	6010D	691547

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Metals (Continued)

Analysis Batch: 692283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205967-E-1-E MS	Matrix Spike	Dissolved	Water	6010D	691547
280-205967-E-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	691547

Analysis Batch: 692294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-5	LDS-ELP	Total/NA	Water	200.8	691542
MB 280-691542/1-A	Method Blank	Total/NA	Water	200.8	691542
LCS 280-691542/2-A	Lab Control Sample	Total/NA	Water	200.8	691542

Analysis Batch: 692825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205895-A-6-B MS	Matrix Spike	Total/NA	Water	200.8	691542
280-205895-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	691542

General Chemistry

Analysis Batch: 691456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-1	LDS-2B	Total/NA	Water	SM 2540C	
280-205965-2	LDS-3	Total/NA	Water	SM 2540C	
280-205965-3	LDS-4	Total/NA	Water	SM 2540C	
280-205965-4	LDS-5	Total/NA	Water	SM 2540C	
280-205965-5	LDS-ELP	Total/NA	Water	SM 2540C	
MB 280-691456/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-691456/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-205898-C-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 691492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-1	LDS-2B	Total/NA	Water	300.0	
280-205965-4	LDS-5	Total/NA	Water	300.0	
280-205965-5	LDS-ELP	Total/NA	Water	300.0	
MB 280-691492/6	Method Blank	Total/NA	Water	300.0	
LCS 280-691492/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-691492/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-691492/3	Lab Control Sample	Total/NA	Water	300.0	
280-205749-B-4 MS	Matrix Spike	Total/NA	Water	300.0	
280-205749-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-205749-B-4 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 691496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-2	LDS-3	Total/NA	Water	300.0	
280-205965-3	LDS-4	Total/NA	Water	300.0	
MB 280-691496/40	Method Blank	Total/NA	Water	300.0	
LCS 280-691496/38	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-691496/39	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-691496/3	Lab Control Sample	Total/NA	Water	300.0	
280-205855-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-205855-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-205855-B-1 DU	Duplicate	Total/NA	Water	300.0	

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

General Chemistry

Analysis Batch: 691898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-1	LDS-2B	Total/NA	Water	SM 2540D	
280-205965-2	LDS-3	Total/NA	Water	SM 2540D	
280-205965-3	LDS-4	Total/NA	Water	SM 2540D	
280-205965-4	LDS-5	Total/NA	Water	SM 2540D	
280-205965-5	LDS-ELP	Total/NA	Water	SM 2540D	
MB 280-691898/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-691898/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-205828-K-2 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 692108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205965-1	LDS-2B	Total/NA	Water	SM 2320B	
280-205965-2	LDS-3	Total/NA	Water	SM 2320B	
280-205965-3	LDS-4	Total/NA	Water	SM 2320B	
280-205965-4	LDS-5	Total/NA	Water	SM 2320B	
280-205965-5	LDS-ELP	Total/NA	Water	SM 2320B	
MB 280-692108/90	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-692108/88	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-692108/89	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-205713-B-2 DU	Duplicate	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Client Sample ID: LDS-2B

Lab Sample ID: 280-205965-1

Date Collected: 04/09/25 17:50

Matrix: Water

Date Received: 04/12/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	691604	04/15/25 14:25	MD	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691500	04/14/25 15:46	SLH	EET DEN
Total/NA	Analysis	200.8		1			691821	04/15/25 19:52	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 19:51	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		5			692080	04/16/25 19:51	NKC	EET DEN
Total/NA	Analysis	300.0		50	10 mL	10 mL	691492	04/14/25 19:49	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692108	04/17/25 07:50	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	691456	04/14/25 09:03	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691898	04/16/25 11:30	BRD	EET DEN

Client Sample ID: LDS-3

Lab Sample ID: 280-205965-2

Date Collected: 04/09/25 18:30

Matrix: Water

Date Received: 04/12/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	691604	04/15/25 14:47	MD	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691500	04/14/25 15:46	SLH	EET DEN
Total/NA	Analysis	200.8		1			691821	04/15/25 19:54	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 19:55	NKC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	691496	04/15/25 00:34	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692108	04/17/25 07:54	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	691456	04/14/25 09:03	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691898	04/16/25 11:30	BRD	EET DEN

Client Sample ID: LDS-4

Lab Sample ID: 280-205965-3

Date Collected: 04/09/25 17:30

Matrix: Water

Date Received: 04/12/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692027	04/17/25 01:43	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691500	04/14/25 15:46	SLH	EET DEN
Total/NA	Analysis	200.8		1			691821	04/15/25 19:57	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 20:00	NKC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	691496	04/15/25 00:20	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692108	04/17/25 08:01	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	691456	04/14/25 09:03	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691898	04/16/25 11:30	BRD	EET DEN

Eurofins Denver

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205965-1

Client Sample ID: LDS-5

Date Collected: 04/09/25 17:05

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	691740	04/16/25 01:48	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691500	04/14/25 15:46	SLH	EET DEN
Total/NA	Analysis	200.8		1			691821	04/15/25 19:59	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691503	04/14/25 15:46	SLH	EET DEN
Dissolved	Analysis	6010D		1			691862	04/15/25 20:04	NKC	EET DEN
Total/NA	Analysis	300.0		20	10 mL	10 mL	691492	04/14/25 17:42	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692108	04/17/25 08:06	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	691456	04/14/25 09:03	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691898	04/16/25 11:30	BRD	EET DEN

Client Sample ID: LDS-ELP

Date Collected: 04/09/25 16:10

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-5

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	8260D		5	5 mL	5 mL	691604	04/15/25 14:03	MD	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	691542	04/16/25 08:41	SMK	EET DEN
Total/NA	Analysis	200.8		1			692294	04/17/25 18:30	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691547	04/16/25 08:41	SMK	EET DEN
Dissolved	Analysis	6010D		1			692081	04/16/25 22:17	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	691547	04/16/25 08:41	SMK	EET DEN
Dissolved	Analysis	6010D		5			692283	04/17/25 21:10	NKC	EET DEN
Total/NA	Analysis	300.0		50	10 mL	10 mL	691492	04/14/25 19:35	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			692108	04/17/25 08:22	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	1 mL	100 mL	691456	04/14/25 09:03	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	691898	04/16/25 11:30	BRD	EET DEN

Client Sample ID: Trip Blank

Date Collected: 04/09/25 16:10

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205965-6

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	8260D		1	5 mL	5 mL	691604	04/15/25 09:03	MD	EET DEN

Laboratory References:

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

Eurofins Denver

Chain of Custody Record



Client Information		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:	
Nicholas Rudolph		Collins, Janice S		Collins, Janice S				280-97584-22898.1	
Phone:		5035806462		E-Mail:		Janice.Collins@et.eurofins.com		Page:	
Company: Valley Landfills, Inc. Republic Services									
Address: 28972 Coffin Butte Road									
City: Corvallis									
State, Zip: OR, 97330									
Phone: 503-675-1335 (Tel)									
Email:									
Project Name: Coffin Butte/Valley Landfills									
Site:									
Project #: 28003197 "GW_SLCS_Leachate"									
SSOW#:									
Due Date Requested:									
TAT Requested (days):									
Compliance Project: ☐ Yes ☐ No									
PO #: 503-675-1335 (Tel)									
WO #:									
Analysis Requested									
Perform MS/MSD (Yes or No)									
Field Filtered Sample (Yes or No)									
2320B - Bicarb Alkalinity									
2540C/300 - TDS/Chloride									
6010D - Dissolved Metals - List D1 (FF)									
200.8 - Total Arsenic									
2540D - TSS									
8260D - VOCs									
Total Number of Containers									
Special Instructions/Note:									
Preservation Codes:									
A - HCL									
B - NaOH									
C - Zn Acetate									
D - Nitric Acid									
E - NaHSO4									
F - MeOH									
R - Na2SO3									
S - H2SO4									
T - TSP Dodecahydrate									
U - Acetone									
V - MCAA									
W - pH 4-5									
L - EDTA									
Z - other (specify)									
Other:									
Barcode: 280-205965 Chain of Custody									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo.)									
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months									
Special Instructions/QC Requirements:									
Possible Hazard Identification									
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:									
Date:									
Relinquished by: Nicholas Rudolph									
Date/Time: 4/10/25 1545									
Relinquished by:									
Date/Time:									
Relinquished by:									
Date/Time:									
Custody Seals Intact: ☐ Yes ☐ No									
Custody Seal No.:									
Cooler Temperature(s) °C and Other Remarks: T100 CF:03 PL:NAWA									
Received by:									
Date/Time: 4/10/25 9130									
Company: EET-DEU									
Received by:									
Date/Time:									
Company:									
Received by:									
Date/Time:									
Company:									

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-205965-1

Login Number: 205965

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ 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.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Narrative to indicate if headspace container used for analysis.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761
Generated 4/21/2025 10:48:47 AM

JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-205969-1

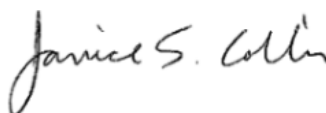
Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
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.
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Job ID: 280-205969-1

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Job Narrative 280-205969-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/12/2025 9:30 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 time was 0.5°C.

Metals

Method 6010D - Dissolved: The instrument blank for analytical batch 280-692081 contained Ca greater than the reporting limit (RL), and were not reanalyzed because sample results were at least 10x greater than the instrument blank or non detect. The data have been qualified and reported.

Method 6010D - Dissolved: The instrument blank for analytical batch 280-692081 contained Na greater than one-half the reporting limit (RL), and were not re-analyzed because Na is a common lab contaminant and is therefore controlled up to the full RL. The data have been qualified and reported.

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

General Chemistry

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

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Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Client Sample ID: MW-85

Lab Sample ID: 280-205969-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	33000	^2	200	60	ug/L	1		6010D	Dissolved
Magnesium	14000		200	50	ug/L	1		6010D	Dissolved
Potassium	730	J	1500	500	ug/L	1		6010D	Dissolved
Silicon	24000		500	150	ug/L	1		6010D	Dissolved
Sodium	20000		1000	450	ug/L	1		6010D	Dissolved
Total Suspended Solids	2.4	J	4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-95

Lab Sample ID: 280-205969-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	95000	^2	200	60	ug/L	1		6010D	Dissolved
Iron	1000		100	40	ug/L	1		6010D	Dissolved
Magnesium	13000		200	50	ug/L	1		6010D	Dissolved
Manganese	1400		10	2.5	ug/L	1		6010D	Dissolved
Potassium	1400	J	1500	500	ug/L	1		6010D	Dissolved
Silicon	19000		500	150	ug/L	1		6010D	Dissolved
Sodium	110000		1000	450	ug/L	1		6010D	Dissolved
Total Suspended Solids	4.4		4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 280-205969-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	45000	^2	200	60	ug/L	1		6010D	Dissolved
Magnesium	22000		200	50	ug/L	1		6010D	Dissolved
Silicon	27000		500	150	ug/L	1		6010D	Dissolved
Sodium	29000		1000	450	ug/L	1		6010D	Dissolved
Total Suspended Solids	1.6	J	4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 280-205969-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	28000	^2	200	60	ug/L	1		6010D	Dissolved
Magnesium	12000		200	50	ug/L	1		6010D	Dissolved
Silicon	28000		500	150	ug/L	1		6010D	Dissolved
Sodium	19000		1000	450	ug/L	1		6010D	Dissolved

Client Sample ID: MW-18

Lab Sample ID: 280-205969-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	26000	^2	200	60	ug/L	1		6010D	Dissolved
Magnesium	9200		200	50	ug/L	1		6010D	Dissolved
Silicon	16000		500	150	ug/L	1		6010D	Dissolved
Sodium	11000		1000	450	ug/L	1		6010D	Dissolved

Client Sample ID: MW-19

Lab Sample ID: 280-205969-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	91000		200	60	ug/L	1		6010D	Dissolved
Magnesium	37000		200	50	ug/L	1		6010D	Dissolved
Manganese	5.9	J	10	2.5	ug/L	1		6010D	Dissolved
Silicon	24000		500	150	ug/L	1		6010D	Dissolved
Sodium	26000		1000	450	ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Client Sample ID: MW-20

Lab Sample ID: 280-205969-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	93000		200	60	ug/L	1		6010D	Dissolved
Magnesium	33000		200	50	ug/L	1		6010D	Dissolved
Manganese	650		10	2.5	ug/L	1		6010D	Dissolved
Silicon	18000		500	150	ug/L	1		6010D	Dissolved
Sodium	26000		1000	450	ug/L	1		6010D	Dissolved
Total Suspended Solids	1.6	J	4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 280-205969-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	110000		200	60	ug/L	1		6010D	Dissolved
Iron	73	J	100	40	ug/L	1		6010D	Dissolved
Magnesium	52000		200	50	ug/L	1		6010D	Dissolved
Manganese	120		10	2.5	ug/L	1		6010D	Dissolved
Silicon	15000		500	150	ug/L	1		6010D	Dissolved
Sodium	26000		1000	450	ug/L	1		6010D	Dissolved
Total Suspended Solids	6.4		4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-24

Lab Sample ID: 280-205969-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	37000		200	60	ug/L	1		6010D	Dissolved
Magnesium	14000		200	50	ug/L	1		6010D	Dissolved
Silicon	23000		500	150	ug/L	1		6010D	Dissolved
Sodium	22000		1000	450	ug/L	1		6010D	Dissolved

Client Sample ID: Phillips

Lab Sample ID: 280-205969-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	26000		200	60	ug/L	1		6010D	Dissolved
Magnesium	10000		200	50	ug/L	1		6010D	Dissolved
Silicon	23000		500	150	ug/L	1		6010D	Dissolved
Sodium	20000		1000	450	ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN

Protocol References:

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: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-205969-1	MW-85	Water	04/10/25 18:25	04/12/25 09:30
280-205969-2	MW-95	Water	04/11/25 12:05	04/12/25 09:30
280-205969-3	MW-15	Water	04/10/25 18:05	04/12/25 09:30
280-205969-4	MW-17	Water	04/11/25 08:30	04/12/25 09:30
280-205969-5	MW-18	Water	04/11/25 08:55	04/12/25 09:30
280-205969-6	MW-19	Water	04/11/25 09:35	04/12/25 09:30
280-205969-7	MW-20	Water	04/11/25 10:00	04/12/25 09:30
280-205969-8	MW-21	Water	04/11/25 10:25	04/12/25 09:30
280-205969-9	MW-24	Water	04/11/25 11:30	04/12/25 09:30
280-205969-10	Phillips	Water	04/11/25 11:00	04/12/25 09:30

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

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

Client Sample ID: MW-85
Date Collected: 04/10/25 18:25
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	33000	^2	200	60	ug/L		04/16/25 08:41	04/17/25 00:17	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/17/25 00:17	1
Magnesium	14000		200	50	ug/L		04/16/25 08:41	04/17/25 00:17	1
Manganese	ND		10	2.5	ug/L		04/16/25 08:41	04/17/25 00:17	1
Potassium	730	J	1500	500	ug/L		04/16/25 08:41	04/17/25 00:17	1
Silicon	24000		500	150	ug/L		04/16/25 08:41	04/17/25 00:17	1
Sodium	20000		1000	450	ug/L		04/16/25 08:41	04/17/25 00:17	1

Client Sample ID: MW-95
Date Collected: 04/11/25 12:05
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	95000	^2	200	60	ug/L		04/16/25 08:41	04/17/25 00:22	1
Iron	1000		100	40	ug/L		04/16/25 08:41	04/17/25 00:22	1
Magnesium	13000		200	50	ug/L		04/16/25 08:41	04/17/25 00:22	1
Manganese	1400		10	2.5	ug/L		04/16/25 08:41	04/17/25 00:22	1
Potassium	1400	J	1500	500	ug/L		04/16/25 08:41	04/17/25 00:22	1
Silicon	19000		500	150	ug/L		04/16/25 08:41	04/17/25 00:22	1
Sodium	110000		1000	450	ug/L		04/16/25 08:41	04/17/25 00:22	1

Client Sample ID: MW-15
Date Collected: 04/10/25 18:05
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	45000	^2	200	60	ug/L		04/16/25 08:41	04/17/25 00:26	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/17/25 00:26	1
Magnesium	22000		200	50	ug/L		04/16/25 08:41	04/17/25 00:26	1
Manganese	ND		10	2.5	ug/L		04/16/25 08:41	04/17/25 00:26	1
Potassium	ND		1500	500	ug/L		04/16/25 08:41	04/17/25 00:26	1
Silicon	27000		500	150	ug/L		04/16/25 08:41	04/17/25 00:26	1
Sodium	29000		1000	450	ug/L		04/16/25 08:41	04/17/25 00:26	1

Client Sample ID: MW-17
Date Collected: 04/11/25 08:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	28000	^2	200	60	ug/L		04/16/25 08:41	04/17/25 00:30	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/17/25 00:30	1
Magnesium	12000		200	50	ug/L		04/16/25 08:41	04/17/25 00:30	1
Manganese	ND		10	2.5	ug/L		04/16/25 08:41	04/17/25 00:30	1
Potassium	ND		1500	500	ug/L		04/16/25 08:41	04/17/25 00:30	1
Silicon	28000		500	150	ug/L		04/16/25 08:41	04/17/25 00:30	1
Sodium	19000		1000	450	ug/L		04/16/25 08:41	04/17/25 00:30	1

Client Sample ID: MW-18
Date Collected: 04/11/25 08:55
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	26000	^2	200	60	ug/L		04/16/25 08:41	04/17/25 00:35	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/17/25 00:35	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Client Sample ID: MW-18
Date Collected: 04/11/25 08:55
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	9200		200	50	ug/L		04/16/25 08:41	04/17/25 00:35	1
Manganese	ND		10	2.5	ug/L		04/16/25 08:41	04/17/25 00:35	1
Potassium	ND		1500	500	ug/L		04/16/25 08:41	04/17/25 00:35	1
Silicon	16000		500	150	ug/L		04/16/25 08:41	04/17/25 00:35	1
Sodium	11000		1000	450	ug/L		04/16/25 08:41	04/17/25 00:35	1

Client Sample ID: MW-19
Date Collected: 04/11/25 09:35
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	91000		200	60	ug/L		04/16/25 08:41	04/16/25 20:16	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/16/25 20:16	1
Magnesium	37000		200	50	ug/L		04/16/25 08:41	04/16/25 20:16	1
Manganese	5.9	J	10	2.5	ug/L		04/16/25 08:41	04/16/25 20:16	1
Potassium	ND		1500	500	ug/L		04/16/25 08:41	04/16/25 20:16	1
Silicon	24000		500	150	ug/L		04/16/25 08:41	04/16/25 20:16	1
Sodium	26000		1000	450	ug/L		04/16/25 08:41	04/16/25 20:16	1

Client Sample ID: MW-20
Date Collected: 04/11/25 10:00
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	93000		200	60	ug/L		04/16/25 08:41	04/16/25 20:21	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/16/25 20:21	1
Magnesium	33000		200	50	ug/L		04/16/25 08:41	04/16/25 20:21	1
Manganese	650		10	2.5	ug/L		04/16/25 08:41	04/16/25 20:21	1
Potassium	ND		1500	500	ug/L		04/16/25 08:41	04/16/25 20:21	1
Silicon	18000		500	150	ug/L		04/16/25 08:41	04/16/25 20:21	1
Sodium	26000		1000	450	ug/L		04/16/25 08:41	04/16/25 20:21	1

Client Sample ID: MW-21
Date Collected: 04/11/25 10:25
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	110000		200	60	ug/L		04/16/25 08:41	04/16/25 20:25	1
Iron	73	J	100	40	ug/L		04/16/25 08:41	04/16/25 20:25	1
Magnesium	52000		200	50	ug/L		04/16/25 08:41	04/16/25 20:25	1
Manganese	120		10	2.5	ug/L		04/16/25 08:41	04/16/25 20:25	1
Potassium	ND		1500	500	ug/L		04/16/25 08:41	04/16/25 20:25	1
Silicon	15000		500	150	ug/L		04/16/25 08:41	04/16/25 20:25	1
Sodium	26000		1000	450	ug/L		04/16/25 08:41	04/16/25 20:25	1

Client Sample ID: MW-24
Date Collected: 04/11/25 11:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	37000		200	60	ug/L		04/16/25 08:41	04/16/25 20:29	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/16/25 20:29	1
Magnesium	14000		200	50	ug/L		04/16/25 08:41	04/16/25 20:29	1
Manganese	ND		10	2.5	ug/L		04/16/25 08:41	04/16/25 20:29	1

Eurofins Denver

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Client Sample ID: MW-24
Date Collected: 04/11/25 11:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		1500	500	ug/L		04/16/25 08:41	04/16/25 20:29	1
Silicon	23000		500	150	ug/L		04/16/25 08:41	04/16/25 20:29	1
Sodium	22000		1000	450	ug/L		04/16/25 08:41	04/16/25 20:29	1

Client Sample ID: Phillips
Date Collected: 04/11/25 11:00
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	26000		200	60	ug/L		04/16/25 08:41	04/16/25 20:33	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/16/25 20:33	1
Magnesium	10000		200	50	ug/L		04/16/25 08:41	04/16/25 20:33	1
Manganese	ND		10	2.5	ug/L		04/16/25 08:41	04/16/25 20:33	1
Potassium	ND		1500	500	ug/L		04/16/25 08:41	04/16/25 20:33	1
Silicon	23000		500	150	ug/L		04/16/25 08:41	04/16/25 20:33	1
Sodium	20000		1000	450	ug/L		04/16/25 08:41	04/16/25 20:33	1

General Chemistry

Client Sample ID: MW-85
Date Collected: 04/10/25 18:25
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	2.4	J	4.0	1.5	mg/L			04/17/25 11:40	1

Client Sample ID: MW-95
Date Collected: 04/11/25 12:05
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	4.4		4.0	1.5	mg/L			04/17/25 11:40	1

Client Sample ID: MW-15
Date Collected: 04/10/25 18:05
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	1.6	J	4.0	1.5	mg/L			04/17/25 11:40	1

Client Sample ID: MW-17
Date Collected: 04/11/25 08:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			04/17/25 11:40	1

Client Sample ID: MW-18
Date Collected: 04/11/25 08:55
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			04/18/25 12:23	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

General Chemistry

Client Sample ID: MW-19
Date Collected: 04/11/25 09:35
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			04/18/25 12:23	1

Client Sample ID: MW-20
Date Collected: 04/11/25 10:00
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	1.6	J	4.0	1.5	mg/L			04/18/25 12:23	1

Client Sample ID: MW-21
Date Collected: 04/11/25 10:25
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	6.4		4.0	1.5	mg/L			04/18/25 12:23	1

Client Sample ID: MW-24
Date Collected: 04/11/25 11:30
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			04/18/25 12:23	1

Client Sample ID: Phillips
Date Collected: 04/11/25 11:00
Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			04/18/25 12:23	1

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-691547/1-A

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 691547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	60	ug/L		04/16/25 08:41	04/16/25 22:08	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/16/25 22:08	1
Magnesium	ND		200	50	ug/L		04/16/25 08:41	04/16/25 22:08	1
Manganese	ND		10	2.5	ug/L		04/16/25 08:41	04/16/25 22:08	1
Potassium	ND		1500	500	ug/L		04/16/25 08:41	04/16/25 22:08	1
Silicon	ND		500	150	ug/L		04/16/25 08:41	04/16/25 22:08	1
Sodium	ND		1000	450	ug/L		04/16/25 08:41	04/16/25 22:08	1

Lab Sample ID: LCS 280-691547/2-A

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 691547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	49100		ug/L		98	85 - 115
Iron	10000	9940		ug/L		99	85 - 115
Magnesium	50000	49000		ug/L		98	85 - 115
Manganese	1000	988		ug/L		99	85 - 115
Potassium	50000	49800		ug/L		100	85 - 115
Silicon	10000	9620		ug/L		96	85 - 115
Sodium	50000	50200		ug/L		100	85 - 115

Lab Sample ID: MB 280-691758/1-A

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 691758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	60	ug/L		04/16/25 08:41	04/16/25 20:08	1
Iron	ND		100	40	ug/L		04/16/25 08:41	04/16/25 20:08	1
Magnesium	ND		200	50	ug/L		04/16/25 08:41	04/16/25 20:08	1
Manganese	ND		10	2.5	ug/L		04/16/25 08:41	04/16/25 20:08	1
Potassium	ND		1500	500	ug/L		04/16/25 08:41	04/16/25 20:08	1
Silicon	ND		500	150	ug/L		04/16/25 08:41	04/16/25 20:08	1
Sodium	ND		1000	450	ug/L		04/16/25 08:41	04/16/25 20:08	1

Lab Sample ID: LCS 280-691758/2-A

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 691758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	48900		ug/L		98	85 - 115
Iron	10000	9880		ug/L		99	85 - 115
Magnesium	50000	48700		ug/L		97	85 - 115
Manganese	1000	982		ug/L		98	85 - 115
Potassium	50000	49400		ug/L		99	85 - 115
Silicon	10000	9600		ug/L		96	85 - 115
Sodium	50000	49900		ug/L		100	85 - 115

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

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

Lab Sample ID: 280-205967-E-1-E MS

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 691547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	260000		50000	304000	4	ug/L		82	75 - 125
Iron	5300		10000	14700		ug/L		94	75 - 125
Magnesium	390000		50000	431000	4	ug/L		80	75 - 125
Manganese	2900		1000	3790		ug/L		88	75 - 125
Potassium	360000		50000	403000	4	ug/L		87	75 - 125
Silicon	57000		10000	59700	4	ug/L		26	75 - 125

Lab Sample ID: 280-205967-E-1-E MS

Matrix: Water

Analysis Batch: 692283

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 691547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	3900000		50000	3820000	4	ug/L		-248	75 - 125

Lab Sample ID: 280-205967-E-1-F MSD

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 691547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	260000		50000	304000	4	ug/L		82	75 - 125	0	20
Iron	5300		10000	14700		ug/L		94	75 - 125	0	20
Magnesium	390000		50000	430000	4	ug/L		79	75 - 125	0	20
Manganese	2900		1000	3790		ug/L		88	75 - 125	0	20
Potassium	360000		50000	400000	4	ug/L		81	75 - 125	1	20
Silicon	57000		10000	59000	4	ug/L		19	75 - 125	1	20

Lab Sample ID: 280-205967-E-1-F MSD

Matrix: Water

Analysis Batch: 692283

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 691547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	3900000		50000	3830000	4	ug/L		-228	75 - 125	0	20

Lab Sample ID: 280-205916-A-4-B MS

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 691758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	47000		50000	95200		ug/L		96	75 - 125
Iron	180		10000	10100		ug/L		99	75 - 125
Magnesium	13000		50000	61600		ug/L		98	75 - 125
Manganese	26		1000	1000		ug/L		98	75 - 125
Potassium	4000		50000	54100		ug/L		100	75 - 125
Silicon	16000		10000	25600		ug/L		92	75 - 125
Sodium	17000		50000	68500		ug/L		102	75 - 125

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

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

Lab Sample ID: 280-205916-A-4-C MSD

Matrix: Water

Analysis Batch: 692081

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 691758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	47000		50000	95900		ug/L		98	75 - 125	1	20
Iron	180		10000	10100		ug/L		100	75 - 125	1	20
Magnesium	13000		50000	61700		ug/L		98	75 - 125	0	20
Manganese	26		1000	1000		ug/L		98	75 - 125	0	20
Potassium	4000		50000	54000		ug/L		100	75 - 125	0	20
Silicon	16000		10000	25900		ug/L		94	75 - 125	1	20
Sodium	17000		50000	68500		ug/L		102	75 - 125	0	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-692103/1

Matrix: Water

Analysis Batch: 692103

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.5	mg/L			04/17/25 11:40	1

Lab Sample ID: LCS 280-692103/2

Matrix: Water

Analysis Batch: 692103

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	504	462		mg/L		92	80 - 114

Lab Sample ID: 280-205796-C-1 DU

Matrix: Water

Analysis Batch: 692103

Client Sample ID: Duplicate

Prep Type: Total/NA

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

Lab Sample ID: MB 280-692314/1

Matrix: Water

Analysis Batch: 692314

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.5	mg/L			04/18/25 12:23	1

Lab Sample ID: LCS 280-692314/2

Matrix: Water

Analysis Batch: 692314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	504	491		mg/L		97	80 - 114

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 280-206020-A-1 DU
Matrix: Water
Analysis Batch: 692314

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	3.6	J	3.60	J	mg/L		0	10

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Metals

Prep Batch: 691547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205969-1	MW-85	Dissolved	Water	3005A	
280-205969-2	MW-95	Dissolved	Water	3005A	
280-205969-3	MW-15	Dissolved	Water	3005A	
280-205969-4	MW-17	Dissolved	Water	3005A	
280-205969-5	MW-18	Dissolved	Water	3005A	
MB 280-691547/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-691547/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-205967-E-1-E MS	Matrix Spike	Dissolved	Water	3005A	
280-205967-E-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 691758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205969-6	MW-19	Dissolved	Water	3005A	
280-205969-7	MW-20	Dissolved	Water	3005A	
280-205969-8	MW-21	Dissolved	Water	3005A	
280-205969-9	MW-24	Dissolved	Water	3005A	
280-205969-10	Phillips	Dissolved	Water	3005A	
MB 280-691758/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-691758/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-205916-A-4-B MS	Matrix Spike	Dissolved	Water	3005A	
280-205916-A-4-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 692081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205969-1	MW-85	Dissolved	Water	6010D	691547
280-205969-2	MW-95	Dissolved	Water	6010D	691547
280-205969-3	MW-15	Dissolved	Water	6010D	691547
280-205969-4	MW-17	Dissolved	Water	6010D	691547
280-205969-5	MW-18	Dissolved	Water	6010D	691547
280-205969-6	MW-19	Dissolved	Water	6010D	691758
280-205969-7	MW-20	Dissolved	Water	6010D	691758
280-205969-8	MW-21	Dissolved	Water	6010D	691758
280-205969-9	MW-24	Dissolved	Water	6010D	691758
280-205969-10	Phillips	Dissolved	Water	6010D	691758
MB 280-691547/1-A	Method Blank	Total Recoverable	Water	6010D	691547
MB 280-691758/1-A	Method Blank	Total Recoverable	Water	6010D	691758
LCS 280-691547/2-A	Lab Control Sample	Total Recoverable	Water	6010D	691547
LCS 280-691758/2-A	Lab Control Sample	Total Recoverable	Water	6010D	691758
280-205916-A-4-B MS	Matrix Spike	Dissolved	Water	6010D	691758
280-205916-A-4-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	691758
280-205967-E-1-E MS	Matrix Spike	Dissolved	Water	6010D	691547
280-205967-E-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	691547

Analysis Batch: 692283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205967-E-1-E MS	Matrix Spike	Dissolved	Water	6010D	691547
280-205967-E-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	691547

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

General Chemistry

Analysis Batch: 692103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205969-1	MW-85	Total/NA	Water	SM 2540D	
280-205969-2	MW-95	Total/NA	Water	SM 2540D	
280-205969-3	MW-15	Total/NA	Water	SM 2540D	
280-205969-4	MW-17	Total/NA	Water	SM 2540D	
MB 280-692103/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-692103/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-205796-C-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 692314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205969-5	MW-18	Total/NA	Water	SM 2540D	
280-205969-6	MW-19	Total/NA	Water	SM 2540D	
280-205969-7	MW-20	Total/NA	Water	SM 2540D	
280-205969-8	MW-21	Total/NA	Water	SM 2540D	
280-205969-9	MW-24	Total/NA	Water	SM 2540D	
280-205969-10	Phillips	Total/NA	Water	SM 2540D	
MB 280-692314/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-692314/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-206020-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Client Sample ID: MW-85

Date Collected: 04/10/25 18:25

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691547	04/16/25 08:41	SMK	EET DEN
Dissolved	Analysis	6010D		1			692081	04/17/25 00:17	NKC	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	692103	04/17/25 11:40	BRD	EET DEN

Client Sample ID: MW-95

Date Collected: 04/11/25 12:05

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691547	04/16/25 08:41	SMK	EET DEN
Dissolved	Analysis	6010D		1			692081	04/17/25 00:22	NKC	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	692103	04/17/25 11:40	BRD	EET DEN

Client Sample ID: MW-15

Date Collected: 04/10/25 18:05

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691547	04/16/25 08:41	SMK	EET DEN
Dissolved	Analysis	6010D		1			692081	04/17/25 00:26	NKC	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	692103	04/17/25 11:40	BRD	EET DEN

Client Sample ID: MW-17

Date Collected: 04/11/25 08:30

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691547	04/16/25 08:41	SMK	EET DEN
Dissolved	Analysis	6010D		1			692081	04/17/25 00:30	NKC	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	692103	04/17/25 11:40	BRD	EET DEN

Client Sample ID: MW-18

Date Collected: 04/11/25 08:55

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691547	04/16/25 08:41	SMK	EET DEN
Dissolved	Analysis	6010D		1			692081	04/17/25 00:35	NKC	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	692314	04/18/25 12:23	BRD	EET DEN

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Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-205969-1

Client Sample ID: MW-19

Date Collected: 04/11/25 09:35

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691758	04/16/25 08:41	AMH	EET DEN
Dissolved	Analysis	6010D		1			692081	04/16/25 20:16	NKC	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	692314	04/18/25 12:23	BRD	EET DEN

Client Sample ID: MW-20

Date Collected: 04/11/25 10:00

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691758	04/16/25 08:41	AMH	EET DEN
Dissolved	Analysis	6010D		1			692081	04/16/25 20:21	NKC	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	692314	04/18/25 12:23	BRD	EET DEN

Client Sample ID: MW-21

Date Collected: 04/11/25 10:25

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691758	04/16/25 08:41	AMH	EET DEN
Dissolved	Analysis	6010D		1			692081	04/16/25 20:25	NKC	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	692314	04/18/25 12:23	BRD	EET DEN

Client Sample ID: MW-24

Date Collected: 04/11/25 11:30

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691758	04/16/25 08:41	AMH	EET DEN
Dissolved	Analysis	6010D		1			692081	04/16/25 20:29	NKC	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	692314	04/18/25 12:23	BRD	EET DEN

Client Sample ID: Phillips

Date Collected: 04/11/25 11:00

Date Received: 04/12/25 09:30

Lab Sample ID: 280-205969-10

Matrix: Water

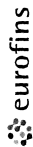
Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	691758	04/16/25 08:41	AMH	EET DEN
Dissolved	Analysis	6010D		1			692081	04/16/25 20:33	NKC	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	692314	04/18/25 12:23	BRD	EET DEN

Laboratory References:

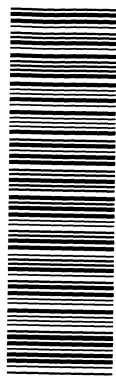
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver

Chain of Custody Record



Client Information		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact:		Nicholas Rudolph	Collins, Janice S		280-97584-22898.1
Company:		Phone: 5035806462	E-Mail: Janice.Collins@et.eurofins.com		Page:
Valley Landfills, Inc. Republic Services					Job #:
Address: 28972 Coffin Butte Road					
City: Corvallis					
State, Zip: OR, 97330					
Phone: 503-675-1335(Tel)					
Email:					
Project Name: Coffin Butte/Valley Landfills					
Site:					
Due Date Requested:					
TAT Requested (days):					
Compliance Project: ☐ Yes ☒ No					
PO #: 503-675-1335(Tel)					
PO#: 1584668					
WO #:					
Project #: 28003197 "Long List Groundwater"					
SSOW#:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=air)
MW-85	4/10/25	1825	6A	W	
MW-95	4/11/25	1205	6A	W	
MW-15	4/10/25	1805			
MW-17	4/11/25	0830			
MW-18	4/11/25	0855			
MW-19	4/11/25	0935			
MW-20	4/11/25	1000			
MW-21	4/11/25	1025			
MW-24	4/11/25	1130			
Phillips	4/11/25	1100			
Possible Hazard Identification		☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: Nicholas Rudolph	4/11/25	1330		Received by: [Signature]	Date/Time: 4/10/25 0930
Relinquished by:	Date/Time:			Received by:	Date/Time:
Relinquished by:	Date/Time:			Received by:	Date/Time:
Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2 10Naga c740.3			


280-205969 Chain of Custody

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-205969-1

Login Number: 205969

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Nick Rudolph

MONITORING WELL WATER LEVEL MEASUREMENTS

4Q Oct event

Solinist 101 500' tape

COFFIN BUTTE LANDFILL

10/27/2025

Well ID	Date	Measured By	DTW	NOTES
MW-1S	10/27/2025	NR	-	DRY TO 24.50'
MW-1Da			30.69	
MW-3S				DRY TO 27.2'
MW-3Da			26.94	
MW-6a				Does not exist
MW-7S				Does not exist
MW-7D				Does not exist
MW-8Sa			3.62	
MW-8D			5.07	
MW-9S			9.26	
MW-10Sa				DRY TO 43.5'
MW-10Da			32.36	
MW-11Sa			16.39	
MW-11Da			16.37	
MW-12Sa				DRY TO 27.9'
MW-12Da			26.24	
MW-13				Does not exist
MW-14S			19.92	
MW-14D			28.18	
MW-15a			4.32	
MW-16a				Decommissioned
MW-17a				DRY TO 29.1'
MW-18a			11.83	
MW-19a			7.15	
MW-20a			9.67	
MW-21a			6.81	
MW-22a				Does not exist
MW-23a			2.02	
MW-24a			22.39	
MW-25a				Does not exist
MW-26a			8.80	
MW-27a			22.90	
P-8				DRY TO 30.0'
P-9R			16.59	Does not exist
P-10			3.31	Does not exist
P-11				Does not exist
P-16				Does not exist
P-17				Does not exist
P-18				Does not exist
P-19			9.53	
P-20				Does not exist
P-21				Does not exist
P-22			38.23	
P-23			103.32	
QP-1S				Does not exist
QP-2S				Does not exist

**MONITORING WELL WATER LEVEL MEAUREMENTS
COFFIN BUTTE LANDFILL**

Well ID	Date	Measured By	DTW	NOTES
BH-16			2.35	
BH-17			22.58	
QP-3S			311.60	
QP-4S			115.98	
QP-5N			100.12	
QP-6N			54.83	
QP-7N			12.0	
WP-1			14.31	
WP-3				DRY TO 12.2'
WP-5			12.50	
WP-6			10.60	
WP-8			11.10	
WP-9			5.79	
PW-1				
PW-2			18.21	
Duplex			20.35	
Phillips			30.83	
Berkland (New)			43.60	
Berkland (old)			9.96	
Merril			25.01	
S-1			14.34	
S-2			14.91	
S-4			16.03	

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill CB
Well I.D.: MW-1D
Collected By: NR
Casing Diameter (inches): 2
Starting Water Level: 30.60
Total Depth (feet): 41.40
Water column (feet): 11.0
Screen Length (feet): -
Purge Volume (gallons): 2.5
Horiba Model S/N: U52

Project No.: AU25.1012
Sampling Date: 10/28/2025
Purge start Time: 0840
Purge Stop time: 0849
Sampling Time: 0900
Ending Water Level (feet): 30.08
Total Purged (gallons): 2.5
PID/FID Reading: _____
Duplicate Sample: YES ☐ NO ☒

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0.5	31.0	5.80	0.284	4.4	5.11	12.29	302
1	30.80	6.44	0.279	10.2	3.89	12.87	257
1.5	30.80	6.90	0.271	14.5	3.10	13.41	244
2	30.80	7.19	0.269	16.6	3.22	13.44	236
2.5	30.80	7.31	0.269	15.9	3.28	13.47	234

Purge Sampling Rates: 30 psi CPM #4

Well condition: Good

Additional Info/Comments: Coal temps overcast

Name: Nick Rudolph

Signature: Nick Rudolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill CB
Well I.D.: MW-30
Collected By: NR
Casing Diameter (inches): 2
Starting Water Level: 26.85
Total Depth (feet): 56.20
Water column (feet): _____
Screen Length (feet): -
Purge Volume (gallons): 2
Horiba Model S/N: V-52

Project No.: A025.1012
Sampling Date: 10/28/2025
Purge start Time: 1029
Purge Stop time: 1039
Sampling Time: 1045
Ending Water Level (feet): 27.61
Total Purged (gallons): 2
PID/FID Reading: _____
Duplicate Sample: YES NO

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0	27.45	7.83	0.349	1.1	6.32	12.21	230
0.5	27.61	7.47	0.329	2.7	4.08	13.19	244
1	27.61	7.35	0.341	2.0	4.03	13.47	244
1.5	27.61	7.39	0.345	1.2	3.99	13.73	241
2	27.61	7.44	0.349	0.5	3.91	13.67	239

Purge Sampling Rates: 30 psi CRM #4

Well condition: GOOD

Additional Info/Comments: Cloudy cool temps

Name: Nick Rudolph

Signature: Nick Rudolph

Project No.: AV25.1012

Sampling Date: 10/28/2025

Purge start Time: _____

Purge Stop time: _____

Sampling Time: _____

Ending Water Level (feet): _____

Total Purged (gallons): _____

PID/FID Reading: _____

Duplicate Sample: YES ☐ NO ☒

[illegible]

Purge Sampling Rates:

Well condition:

Additional Info/Comments:

Name:

Signature:

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: <u>Valley Landfill CB</u> Well I.D.: <u>MW-10D</u> Collected By: <u>NR</u> Casing Diameter (inches): <u>2</u> Starting Water Level: <u>32.26</u> Total Depth (feet): <u>83.50</u> Water column (feet): _____ Screen Length (feet): _____ Purge Volume (gallons): <u>2</u> Horiba Model S/N: <u>U-52</u>	Project No.: <u>AV25.1012</u> Sampling Date: <u>10/28/2025</u> Purge start Time: <u>1140</u> Purge Stop time: <u>1153</u> Sampling Time: <u>1200</u> Ending Water Level (feet): <u>42.01</u> Total Purged (gallons): <u>2</u> PID/FID Reading: _____ Duplicate Sample: YES ☐ NO ☒
--	--

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0	34.94	7.95	0.507	3.1	6.19	15.26	157
0.5	37.38	7.52	0.695	9.1	2.40	14.90	180
1	37.38	7.46	0.700	1.4	2.38	14.72	176
1.5	40.39	7.41	0.703	0.1	2.45	14.65	172
2	42.01	7.43	6.701	0.5	2.38	14.60	169

Purge Sampling Rates: 35 psi CPM #4

Well condition: GOOD

Additional Info/Comments: overcast cool temps

Name: Nick Riddolph Signature: Nh Riddolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.:	<u>Valley Landfill CB</u>	Project No.:	<u>AV25.1012</u>
Well I.D.:	<u>MW-115</u>	Sampling Date:	<u>10/28/2025</u>
Collected By:	<u>NR</u>	Purge start Time:	<u>1232</u>
Casing Diameter (inches):	<u>2</u>	Purge Stop time:	<u>1242</u>
Starting Water Level:	<u>16.15</u>	Sampling Time:	<u>1250</u>
Total Depth (feet):	<u>31.90</u>	Ending Water Level (feet):	<u>18.05</u>
Water column (feet):		Total Purged (gallons):	<u>2</u>
Screen Length (feet):	<u>-</u>	PID/FID Reading:	
Purge Volume (gallons):	<u>2</u>	Duplicate Sample:	YES ☐ NO ☒
Horiba Model S/N:	<u>U-52</u>		

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0	18.62	7.42	0.739	34.2	4.53	14.41	188
0.5	18.08	7.15	0.953	9.7	3.67	14.44	198
1	18.05	7.14	1.06	5.4	3.51	14.48	200
1.5	18.05	7.26	1.16	1.7	3.46	14.44	201
2	18.05	7.23	1.19	1.3	3.47	14.39	201

Purge Sampling Rates: 22 psi CPM #4

Well condition: OK

Additional Info/Comments: overcast cool temp

Name: Nick Rudolph

Signature: Nick Rudolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.:	<u>Valley Landfill CB</u>	Project No.:	<u>AV25 1012</u>
Well I.D.:	<u>MW-11D</u>	Sampling Date:	<u>10/28/2025</u>
Collected By:	<u>NR</u>	Purge start Time:	<u>1300</u>
Casing Diameter (inches):	<u>2</u>	Purge Stop time:	<u>1313</u>
Starting Water Level:	<u>16.50</u>	Sampling Time:	<u>1320</u>
Total Depth (feet):	<u>75.20</u>	Ending Water Level (feet):	<u>17.05</u>
Water column (feet):	<u>-</u>	Total Purged (gallons):	<u>2</u>
Screen Length (feet):	<u>-</u>	PID/FID Reading:	<u>-</u>
Purge Volume (gallons):	<u>2</u>	Duplicate Sample:	YES ☐ NO ☒
Horiba Model S/N:	<u>U-52</u>		

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0	16.85	7.57	1.56	0.1	4.22	14.60	220
0.5	17.05	7.07	1.44	10.3	2.40	14.43	30
1	17.05	7.15	1.72	0.9	2.57	14.30	22
1.5	17.05	7.17	1.74	0.0	2.43	14.15	5
2	17.05	7.17	1.74	0.0	2.39	14.12	5

Purge Sampling Rates: psi CPM #4

Well condition: OK

Additional Info/Comments: Overcast cooltemp

Name: Nick Rudolph Signature: Nick Rudolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: <u>Valley Landfill CB</u> Well I.D.: <u>10 MW-125</u> Collected By: <u>NR</u> Casing Diameter (inches): <u>2</u> Starting Water Level: <u>27.90 DRY</u> Total Depth (feet): <u>27.90</u> Water column (feet): _____ Screen Length (feet): <u>-</u> Purge Volume (gallons): _____ Horiba Model S/N: _____	Project No.: <u>AU25.1012</u> Sampling Date: <u>10/28/2025</u> Purge start Time: _____ Purge Stop time: _____ Sampling Time: _____ Ending Water Level (feet): _____ Total Purged (gallons): _____ PID/FID Reading: _____ Duplicate Sample: YES ☐ NO ☒
--	---

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Purge Sampling Rates: _____

Well condition: Good - Well dry

Additional Info/Comments: Well was Dry

Name: Nick Rudolph Signature: Nick Rudolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill CB
Well I.D.: MW-12D
Collected By: NR
Casing Diameter (inches): 2
Starting Water Level: 26.23
Total Depth (feet): 61.90
Water column (feet):
Screen Length (feet): -
Purge Volume (gallons): 2
Horiba Model S/N: U-52

Project No.: AU25.1012
Sampling Date: 10/28/2025
Purge start Time: 0935
Purge Stop time: 0948
Sampling Time: 0955
Ending Water Level (feet): 27.35
Total Purged (gallons): 2
PID/FID Reading:
Duplicate Sample: YES ☐ NO ☒

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0	27.25	7.01	0.235	3.2	6.01	12.49	288
0.5	27.35	7.01	0.233	6.1	3.50	13.06	283
0.75	27.35	7.24	0.233	8.9	8.74	13.52	271
1	27.35	7.37	0.233	9.8	3.45	13.62	265
1.5	27.35	7.40	0.235	9.0	3.99	13.58	263
2	27.35	7.42	0.234	7.1	4.03	13.69	262

Purge Sampling Rates: 30 psi CPM #4

Well condition: GOOD

Additional Info/Comments: Cloudy cool temp

Name: Nick Rudolph

Signature: Nick Rudolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill CB
Well I.D.: MW-23
Collected By: NR
Casing Diameter (inches): 2
Starting Water Level: 2.02
Total Depth (feet): 24.3
Water column (feet):
Screen Length (feet):
Purge Volume (gallons): 2
Horiba Model S/N: V-52

Project No.: AU25.1012
Sampling Date: 10/29/2025
Purge start Time: 1519
Purge Stop time: 1530
Sampling Time: 1540
Ending Water Level (feet): 10.10
Total Purged (gallons): 2
PID/FID Reading:
Duplicate Sample: YES ☐ NO ☒

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0.5	4.10	7.92	0.282	8.5	4.62	16.44	-103
1	5.99	7.61	0.289	5.2	3.85	16.42	-92
1.5	7.29	7.42	0.297	4.1	3.85	16.38	-96
1.75	9.01	7.41	0.304	9.5	3.70	16.32	-100
2	10.10	7.38	0.308	9.4	3.78	16.34	-100

Purge Sampling Rates: 15 psi CPM#4

Well condition: OK

Additional Info/Comments: Sunny Warm

Name: Nick Rudder

Signature: Nh RDR

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill CB
Well I.D.: MW-26
Collected By: NR
Casing Diameter (inches): 2
Starting Water Level: 8.74
Total Depth (feet): 30.0
Water column (feet):
Screen Length (feet):
Purge Volume (gallons): 1.25
Horiba Model S/N: U-52

Project No.: AV25.1012
Sampling Date: 10/28/2025
Purge start Time: 1440
Purge Stop time: 1455
Sampling Time: 1505
Ending Water Level (feet):
Total Purged (gallons): 1.25
PID/FID Reading:
Duplicate Sample: YES ☐ NO ☒

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0	9.89	8.18	0.243	6.7	4.45	15.61	10
.5	10.01	7.58	0.235	8.4	3.39	15.41	-95
.75	10.01	7.71	0.235	10.0	2.78	15.37	-132
1	10.01	7.76	0.235	16.2	2.83	15.36	-133
1.25	10.15	7.78	0.236	15.3	2.79	15.27	-122

Purge Sampling Rates: 5PSL CPM #4

Well condition: OK

Additional Info/Comments: OVERCAST Cool temp

Name: Nick Rudolph

Signature: Nick Rudolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.:	<u>Valley Landfill CB</u>	Project No.:	<u>AV25.1012</u>
Well I.D.:	<u>MW-27</u>	Sampling Date:	<u>10/28</u>
Collected By:	<u>NR</u>	Purge start Time:	<u>1355</u>
Casing Diameter (inches):	<u>2</u>	Purge Stop time:	<u>1407</u>
Starting Water Level:	<u>22.15</u>	Sampling Time:	<u>1415</u>
Total Depth (feet):	<u>37.7</u>	Ending Water Level (feet):	<u>32.54</u>
Water column (feet):		Total Purged (gallons):	<u>2</u>
Screen Length (feet):	<u>-</u>	PID/FID Reading:	
Purge Volume (gallons):	<u>2</u>	Duplicate Sample:	YES ☐ NO ☒
Horiba Model S/N:	<u>N-52/2FB4N4V4</u>		

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0	22.95	7.32	0.632	35.8	3.26	16.03	-3
.5	25.46	6.93	0.644	8.3	2.91	16.04	-4
1	29.45	7.09	0.583	3.6	2.89	16.01	-55
1.5	30.65	7.02	0.640	45.9	2.85	16.06	-81
2	32.54	7.07	0.658	50.2	2.80	16.01	-88

Purge Sampling Rates: 30 psi CPM #4

Well condition: OK

Additional Info/Comments: PARTLY CLOUDY cool temp

Name: Nick Rudolph

Signature: Nh Ralph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill CB
Well I.D.: P-8
Collected By: NR
Casing Diameter (inches): 2
Starting Water Level: DRY
Total Depth (feet): 30.0
Water column (feet): _____
Screen Length (feet): -
Purge Volume (gallons): -
Horiba Model S/N: U-52/U-5000

Project No.: A025.1012
Sampling Date: 10/28/25
Purge start Time: _____
Purge Stop time: _____
Sampling Time: _____
Ending Water Level (feet): _____
Total Purged (gallons): _____
PID/FID Reading: _____
Duplicate Sample: YES ☐ NO ☒

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Purge Sampling Rates:

Well condition: OK Well dry not able to purge water

Additional Info/Comments: _____

Name: Nick Rudolph

Signature: Nick Rudolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: <u>Valley Landfill CB</u> Well I.D.: <u>MW-83</u> Collected By: <u>NR</u> Casing Diameter (inches): <u>2</u> Starting Water Level: <u>4.52</u> Total Depth (feet): <u>34.5</u> Water column (feet): _____ Screen Length (feet): _____ Purge Volume (gallons): <u>2</u> Horiba Model S/N: <u>V-52</u>	Project No.: <u>AV25.1012</u> Sampling Date: <u>10/27/2025</u> Purge start Time: <u>1300</u> Purge Stop time: <u>1312</u> Sampling Time: <u>1320</u> Ending Water Level (feet): <u>5.65</u> Total Purged (gallons): <u>2</u> PID/FID Reading: _____ Duplicate Sample: YES ☐ NO ☒
---	---

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0.5	5.70	7.63	0.282	1.6	4.40	15.44	175
1	5.75	7.62	0.281	6.5	2.64	15.32	152
1.5	5.65	7.58	0.281	4.3	2.60	15.30	157
2	5.65	7.55	0.280	3.1	2.56	15.33	161

Purge Sampling Rates: 15 psi CPM4

Well condition: OK

Additional Info/Comments: Warm/Sunny

Name: Nick Rudolph

Signature: Nh Rudolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: <u>Valley Landfill CB</u>	Project No.: <u>A025.1012</u>
Well I.D.: <u>MW-15</u>	Sampling Date: <u>10/29/2025</u>
Collected By: <u>NR</u>	Purge start Time: <u>1220</u>
Casing Diameter (inches): <u>2 inch</u>	Purge Stop time: <u>1229</u>
Starting Water Level: <u>4.82</u>	Sampling Time: <u>1235</u>
Total Depth (feet): <u>31.1</u>	Ending Water Level (feet): <u>8.81</u>
Water column (feet): _____	Total Purged (gallons): <u>2</u>
Screen Length (feet): <u>-</u>	PID/FID Reading: _____
Purge Volume (gallons): <u>2</u>	Duplicate Sample: YES ☐ NO ☒
Horiba Model S/N: <u>U-52</u>	

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
.5	6.83	7.42	0.316	5.4	3.60	14.7	169
1	7.79	7.01	0.337	1.9	3.22	14.21	180
1.5	8.15	6.89	0.376	1.5	3.41	14.01	185
2	8.81	6.85	0.394	1.1	3.29	13.90	184

Purge Sampling Rates: 20 psi CPM 4

Well condition: OK

Additional Info/Comments: Partly Cloudy ~~cool~~ Warm

Name: Nick Rudolph Signature: Nh Rudolph

Site Name.: Valley Landfill CB

Well I.D.: MW-17

Collected By: NR

Casing Diameter (inches): 2

Starting Water Level: DRY

Total Depth (feet): 29.1

Water column (feet): _____

Screen Length (feet): _____

Purge Volume (gallons): _____

Horiba Model S/N: _____

Project No.: 4025.1012

Sampling Date: 10/29/2025

Purge start Time: _____

Purge Stop time: _____

Sampling Time: _____

Ending Water Level (feet): _____

Total Purged (gallons): _____

PID/FID Reading: _____

Duplicate Sample: ~~YES~~ NO

[illegible]

psi CPM #2

OK, Well is Dry pump doesn't pump water

Sunny Warm

Nick Rudolph

7th Rd/2

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: <u>Valley Landfill CB</u> Well I.D.: <u>MW-18</u> Collected By: <u>NR</u> Casing Diameter (inches): <u>2</u> Starting Water Level: <u>11.23</u> Total Depth (feet): <u>23.1</u> Water column (feet): _____ Screen Length (feet): _____ Purge Volume (gallons): <u>2</u> Horiba Model S/N: <u>U-52</u>	Project No.: <u>AU25-1019</u> Sampling Date: <u>10/30/2025</u> Purge start Time: <u>0835</u> Purge Stop time: <u>0844</u> Sampling Time: <u>0850</u> Ending Water Level (feet): <u>11.78</u> Total Purged (gallons): <u>2</u> PID/FID Reading: _____ Duplicate Sample: <u>YES</u> ☒ <u>Duplicate 1</u> ☐ NO
--	--

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
.5	11.75	6.16	0.243	7.4	8.11	11.40	307
1	11.78	6.16	0.209	16.9	8.15	12.56	285
1.5	11.78	6.59	0.210	23.1	8.09	12.74	265
2	11.78	6.87	0.210	26.5	8.13	12.76	253

Purge Sampling Rates: 18 PSI CPM #4

Well condition: OK

Additional Info/Comments: Cool Partially cloudy

Name: Nick Rudolph Signature: NH Ralt

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill CB
Well I.D.: MW-19
Collected By: NR
Casing Diameter (inches): 2
Starting Water Level: 7.09
Total Depth (feet): 25.3
Water column (feet): _____
Screen Length (feet): _____
Purge Volume (gallons): 2
Horiba Model S/N: U-52/U-5000

Project No.: AV25.1012
Sampling Date: 10/29/2025
Purge start Time: 1705
Purge Stop time: 1715
Sampling Time: 1725
Ending Water Level (feet): 15.52
Total Purged (gallons): 2
PID/FID Reading: _____
Duplicate Sample: ☒ YES ☐ NO

Duplicate 2

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
<u>0.5</u>	<u>8.83</u>	<u>7.80</u>	<u>0.774</u>	<u>1.4</u>	<u>4.56</u>	<u>14.90</u>	<u>129</u>
<u>1</u>	<u>10.01</u>	<u>7.64</u>	<u>0.792</u>	<u>0.6</u>	<u>4.01</u>	<u>14.85</u>	<u>139</u>
<u>1.5</u>	<u>15.02</u>	<u>7.51</u>	<u>0.796</u>	<u>0.6</u>	<u>4.57</u>	<u>14.81</u>	<u>145</u>
<u>2</u>	<u>15.52</u>	<u>7.46</u>	<u>0.795</u>	<u>0.4</u>	<u>4.54</u>	<u>14.58</u>	<u>146</u>

Purge Sampling Rates: 15 psi CPM #4

Well condition: OK

Additional Info/Comments: Sunny Warm

Name: Nick Rudolph

Signature: Nick Rudolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill
Well I.D.: MW-20
Collected By: NR
Casing Diameter (inches): 2
Starting Water Level: 9.44
Total Depth (feet): 23.8
Water column (feet): _____
Screen Length (feet): _____
Purge Volume (gallons): 2
Horiba Model S/N: U-52/U-5000

Project No.: AV25.1019
Sampling Date: 10/30/2025
Purge start Time: 1050
Purge Stop time: 1058
Sampling Time: 1105
Ending Water Level (feet): 14.65
Total Purged (gallons): 2
PID/FID Reading: _____
Duplicate Sample: YES ☐ NO ☒

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0.5	11.73	7.81	0.695	1.3	4.32	12.90	146
1	14.10	7.70	0.674	0.7	3.77	13.25	149
1.5	14.33	7.60	0.672	0.9	3.65	13.37	150
2	14.65	7.55	0.678	1.7	3.59	13.41	149

Purge Sampling Rates: 18 psi CPM #4

Well condition: OK

Additional Info/Comments: Overcast cool

Name: _____

Signature: Mh Ralt

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill
Well I.D.: MW-21
Collected By: NR
Casing Diameter (inches): 2
Starting Water Level: 6.64
Total Depth (feet): 19.3
Water column (feet): _____
Screen Length (feet): _____
Purge Volume (gallons): 1.5
Horiba Model S/N: U-25/U-5000

Project No.: AU25.1019
Sampling Date: 10/30/2025
Purge start Time: 0947
Purge Stop time: 1001
Sampling Time: 1030
Ending Water Level (feet): 13.63 (Below pump)
Total Purged (gallons): 1.5
PID/FID Reading: _____
Duplicate Sample: YES ☐ NO ☒

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0.5	9.63	7.44	0.786	9.1	10.87	12.24	0
1	13.63	7.54	0.779	9.1	4.45	12.49	22
1.25	water	7.68	0.781	13.3	4.92	12.46	28
1.5	Below pump	7.70	0.794	29.7	4.89	12.39	16

Purge Sampling Rates: 15 psi CPM #4

Well condition: OK, water

Additional Info/Comments: clear sky cool, water level fell below bladder pump during purge.

Name: Nick Ruddle

Signature: NH Ruddle

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill CB
Well I.D.: MW-24
Collected By: NR
Casing Diameter (inches): 2
Starting Water Level: 22.45
Total Depth (feet): 37.7
Water column (feet): _____
Screen Length (feet): _____
Purge Volume (gallons): 2
Horiba Model S/N: U-52/U-5000

Project No.: AU25-1019
Sampling Date: 10/30/2025
Purge start Time: 1155
Purge Stop time: 1205
Sampling Time: 1210
Ending Water Level (feet): 23.74
Total Purged (gallons): 2
PID/FID Reading: _____
Duplicate Sample: YES ☐ NO ☒

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0.5	22.89	7.53	276	5.0	4.64	15.17	126
1	23.33	7.63	274	3.6	3.26	15.05	127
1.5	23.55	7.65	273	3.0	3.19	15.33	133
2	23.74	7.64	272	1.8	3.14	15.42	134

Purge Sampling Rates: 20 psi CPM4

Well condition: OK

Additional Info/Comments: Partially cloudy, cool

Name: Nick Rudolph Signature: NH Rudolph

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Valley Landfill CB
Well I.D.: Phillips
Collected By: NR
Casing Diameter (inches): 6
Starting Water Level: 30.91
Total Depth (feet): -
Water column (feet): -
Screen Length (feet): -
Purge Volume (gallons): Grab
Horiba Model S/N: U-52 / U-5000

Project No.: A025-1019
Sampling Date: 10/30/2025
Purge start Time: 1339
Purge Stop time: 1349
Sampling Time: 1355
Ending Water Level (feet): -
Total Purged (gallons): -
PID/FID Reading: -
Duplicate Sample: YES ☐ NO ☒

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
-	-	7.94	0.216	107	9.37	14.00	155
		7.91	0.216	72.5	9.06	13.94	155
		7.89	0.215	0.8	8.52	13.91	158
		7.86	0.217	0.9	7.24	13.85	161
		7.86	0.216	0.6	7.12	13.91	162

Purge Sampling Rates: Unknown used permanent pump

Well condition: Debris, mouse droppings and trash clutter around well head
Sampling port corroded

Additional Info/Comments: Sulfur smell from water

Name: Nick Rudolph

Signature: N.R.

**GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET**

Site: Valley Landfill CB Project No.: AV25-1012
Station I.D.: LDS-2B Sampling Date: 10/31/2025
Collected By: NR Sampling Time: 0915
Horiba Model S/N: V-52/U-5000 Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Dark Brown	Strong	6.83	10.4	7.7	0.96	11.84	-4

Leachate sampling station conditions: Valve on sample port broken
Needs repair, Site personnel fixed port

Additional Info/Comments: overcast/foggy, cool temp

Name: Nick Rudolph Signature: Nick Rudolph

GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET

Site: Valley Landfill Project No.: AUZS-¹⁰¹²~~1019~~

Station I.D.: LDS-3 Sampling Date: 10/30/2025

Collected By: NR Sampling Time: 1700

Horiba Model S/N: V-52/V-5000 Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Yellowish	Slight	6.79	2.81	0.0	3.64	18.49	182

Leachate sampling station conditions: OK

Additional Info/Comments: Partially cloudy, warm

Name: Nick Rudolph Signature: Nh Rudolph

**GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET**

Site: Valley Landfill CB Project No.: AUZ5-1012
 Station I.D.: LDS-4 Sampling Date: 10/30
 Collected By: NR Sampling Time: 1635
 Horiba Model S/N: V-52/V-5000 Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Brownish	Slight	7.32	1.61	2.0	3.64	21.40	156

Leachate sampling station conditions: OK

Additional Info/Comments: Overcast, Cool

Name: Nick Rudolph Signature: [Signature]

**GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET**

Site: Valley Landfill CB

Project No.: AV25. ¹⁰¹²~~1012~~

Station I.D.: LDS-5

Sampling Date: 10/30/2025

Collected By: NR

Sampling Time: 1605

Horiba Model S/N: V-52/V-5000

Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Light brown	Slight	7.65	2.40	2.2	6.22	21.61	167

Leachate sampling station conditions: OK

Additional Info/Comments: Overcast, cool

Name: Nick Rudolph Signature: Nh Rudolph

GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET

Site: Valley Landfill CB Project No.: AU25.1012

Station I.D.: LDS-WLP Sampling Date: 10/30/2025

Collected By: NR Sampling Time: 1740

Horiba Model S/N: U-52/U-5000 Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Leachate sampling station conditions: OK, Pump functions

Additional Info/Comments: no fluid present in WLP detection system

Name:

Nick Rudolph

Signature:

Nh Rudolph

**GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET**

Site: Valley Landfill CB Project No.: AU25-1019 ¹⁰¹²

Station I.D.: LDS-ELP Sampling Date: 10/30/2025

Collected By: NR Sampling Time: 1805

Horiba Model S/N: U-SZ/U-SCE Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Brown	Slight	7.43	15.5	11.5	0.75	14.05	51

Leachate sampling station conditions: OK

Additional Info/Comments: Clear, cool temp

Name:

Nick Rudolph

Signature:

Nick Rudolph

GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET

Site: Valley Landfill CB Project No.: AU25.1012

Station I.D.: L-Pond Sampling Date: 10/30/2025
Collected By: NR Sampling Time: 1727
Horiba Model S/N: J-52/V-5000 Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Dark Brown	strong	7.87	21.9	149	0.78	18.01	-230

Leachate sampling station conditions: OK NOAS effervesc

Additional Info/Comments: clear, cool

Name: Nick Rudolph Signature: Nh RUP

GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Valley Landfill CB

Project No.: AU 25.1012

Station I.D.: 3-1

Sampling Date: 10/29/2025

Collected By: NL

Sampling Time: 1015

Horiba Model S/N: V-52

Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Light brown	None	7.61	0.190	1.8	9.48	9.85	170

Surface water conditions (including stream flow rate, stream depth): Stream w/ low/moderate
flow, 20 ft wide, 3/4 ft deep

Additional Info/Comments: heavy leaf matter

Name: Nick Rudolph Signature: Nick Rudolph

**GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET**

Site Name: Valley Landfill CB

Project No.: AU25.1012

Station I.D.: SZ

Sampling Date: 10/29/2025

Collected By: NR

Sampling Time: 0900

Horiba Model S/N: U-52

Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
<u>Slightly Brown</u>	<u>None</u>	<u>6.12</u>	<u>0.198</u>	<u>4.1</u>	<u>8.27</u>	<u>9.82</u>	<u>273</u>

Surface water conditions (including stream flow rate, stream depth): Shallow Stream 4-6 inch deep
low flow heavy leaf matter

Additional Info/Comments:

Name: Nick Rudolph

Signature: Nick Rudolph

GROUNDWATER MONITORING PROGRAM SURFACE WATER DATA SHEET

Site Name: Valley Landfill CB

Project No.: AU25.1012

Station I.D.: S-4

Sampling Date: 10/29/2025

Collected By: NR

Sampling Time: 0940

Horiba Model S/N: U-52/U-5000

Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Light brown	None	7.16	0.190	4.6	10.02	9.68	192

Surface water conditions (including stream flow rate, stream depth): Small stream w/ 3-4ft
deep pools intermittent, moderate flow 8ft wide

Additional Info/Comments: heavy leaf matter

Name: Nick Rudolph Signature: Nh Rudolph

GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Valley Landfill

Project No.: AU25-1012

Station I.D.: S-U3

Sampling Date: 10/30/2025

Collected By: NR

Sampling Time:

Horiba Model S/N: V-52/V-5000

Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Surface water conditions (including stream flow rate, stream depth): HDPE Pipe no flow

Additional Info/Comments: Pipe was dry w/ no flow

Name: Nick Rudolph

Signature: NR

GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Valley Landfill CB

Project No.: AU25.1012

Station I.D.: S-V4

Sampling Date: 10/28/2025

Collected By: NR

Sampling Time: 1715

Horiba Model S/N: V-52

Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
		7.96	0.139	20.6	6.83	15.86	84

Surface water conditions (including stream flow rate, stream depth): HDPE 4 inch pipe w/
low flow

Additional Info/Comments: Partly cloudy, cool temperature

Name: Nick Rudolph Signature: Nh Rudolph

GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Valley Landfill CB

Project No.: AUZ5.1012

Station I.D.: S-US

Sampling Date: 10/28/2025

Collected By: NR

Sampling Time: 1630

Horiba Model S/N: V-52

Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Clear	none	7.71	0.254	7.7	7.29	15.78	132

Surface water conditions (including stream flow rate, stream depth): HDPE 4 inch pipe w/
trickle flow

Additional Info/Comments: Partly cloudy cool temp

Name: Nick Rudolph Signature: Nick Rudolph

GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Valley Landfill CB Project No.: AV25-1012

Station I.D.: SU-6 Sampling Date: 10/30/2025
Collected By: NR Sampling Time: _____
Horiba Model S/N: V-52/V-5000 Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Surface water conditions (including stream flow rate, stream depth): outfall pipe submerged under
soil overburden and ~ 1.5 ft of flowing surface water
Site operations need to clear ditch to access sample location

Additional Info/Comments:

Name: Nick Rudolph Signature: Nh Rdph

GROUNDWATER MONITORING PROGRAM SURFACE WATER DATA SHEET

Site Name: Valley Landfill CB

Project No.: AU25-1012

Station I.D.: S-U7

Sampling Date: 10/30/25

Collected By: NR

Sampling Time: _____

Horiba Model S/N: V-52/V-5000

Duplicate Sample: YES ☐ NO ☒

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Surface water conditions (including stream flow rate, stream depth): Site operators performed maintenance on location of cut fall and buried pipe behind liner, operations will need to uncover pipe to collect samples going forward

Operators observed pipe as dry w/ no flow

Additional Info/Comments:

Name: Nick Rudolph

Signature: Nh Rd/2

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site / Facility Name) Coffin Butte PROJECT (Name / Number) AU25-1012

Instrument Make/Model # <u>HORIBA U-52</u>					<u>U-5000</u> <u>10/28/2025</u>	
Date/Time	pH	Electrical Conductivity (µMhos/cm)	Turbidity (NTU)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	<u>3.88</u>	<u>4.55</u>	<u>0.0</u>	<u>10.29</u>		
Calibration	<u>4.00</u>	<u>4.50</u>	<u>0.0</u>	<u>-</u>		
Calibration Successful? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	enter YES or NO	
Satisfies Protocol?	<u>Y</u>	<u>Y</u>	<u>Y</u>		Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	<u>NR</u>	<u>[Signature]</u>			Signature or initials	<u>NR RLP</u>
Physical Condition of Unit			<u>Good</u>			

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site / Facility Name) Valley Landfill CB PROJECT (Name / Number) AV25 - 1012

Instrument Make/Model # <u>Horiba U-52 U-5000</u>					<u>10/29/2025</u>	
Date/Time	pH	Electrical Conductivity (µMhos/cm)	Turbidity (NTU)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	<u>4.10</u>	<u>4.48</u>	<u>0.5</u>	<u>9.84</u>		
Calibration	<u>4.00</u>	<u>4.56</u>	<u>0.0</u>	<u>-</u>		
Calibration Successful? (Y/N)	<u>Y</u>				enter YES or NO	
Satisfies Protocol?	<u>Y</u>				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	<u>NR</u>				Signature or initials	<u>NH Rolf</u>
Physical Condition of Unit			<u>Good</u>			

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site / Facility Name) Valley Landfill CB PROJECT (Name / Number) AV25.1019

Instrument Make/Model # <u>V-52 / V-5000</u>					<u>10/30/2025</u>	
Date/Time	pH	Electrical Conductivity (µMhos/cm)	Turbidity (NTU)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	3.91	4.57	0.4	11.59		
Calibration	4.00	4.56	0.1	12.09		
Calibration Successful? (Y/N)	Y	Y	Y	Y	enter YES or NO	
Satisfies Protocol?	Y	Y	0 Y	Y	Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NR				Signature or initials	<u>Mh R dp</u>
Physical Condition of Unit			<u>OK</u>			

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site / Facility Name) Valley Landfill Coffin Butte PROJECT (Name / Number) AJ25-1012

Instrument Make/Model # <u>V-52 / V-5000</u>					<u>10/31/2025</u>	
Date/Time	pH	Electrical Conductivity (µMhos/cm)	Turbidity (NTU)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	4.09	4.49	0.8	12.38	—	
Calibration	4.0	4.49	0.0	—	—	
Calibration Successful? (Y/N)	Y	Y	Y	Y	enter YES or NO	
Satisfies Protocol?					Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NR	—	—	—	Signature or initials	<u>Mh Rdf2</u>
Physical Condition of Unit			GOOD			

ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761
Generated 11/6/2025 12:48:25 PM

JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-216057-1

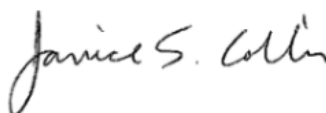
Eurofins Denver

Job Notes

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

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
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.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Job ID: 280-216057-1

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Job Narrative 280-216057-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/30/2025 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 time was 1.1°C.

Metals

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

General Chemistry

Method 365.1_Ortho: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-720481 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Client Sample ID: S1

Lab Sample ID: 280-216057-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	25000		200	60	ug/L	1		6010D	Dissolved
Magnesium	9600		200	50	ug/L	1		6010D	Dissolved
Manganese	12		10	2.5	ug/L	1		6010D	Dissolved
Sodium	11000		1000	450	ug/L	1		6010D	Dissolved
Chloride	17		3.0	1.3	mg/L	1		300.0	Total/NA
Phosphorus, Total	0.039	J	0.10	0.035	mg/L	1		365.1	Total/NA
Biochemical Oxygen Demand	1.9	J	2.5	0.94	mg/L	1		SM5210B	Total/NA

Client Sample ID: S2

Lab Sample ID: 280-216057-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	26000		200	60	ug/L	1		6010D	Dissolved
Magnesium	9800		200	50	ug/L	1		6010D	Dissolved
Manganese	14		10	2.5	ug/L	1		6010D	Dissolved
Sodium	12000		1000	450	ug/L	1		6010D	Dissolved
Chloride	18		3.0	1.3	mg/L	1		300.0	Total/NA
Phosphorus, Total	0.053	J	0.10	0.035	mg/L	1		365.1	Total/NA
Biochemical Oxygen Demand	1.6	J	2.5	0.94	mg/L	1		SM5210B	Total/NA

Client Sample ID: S4

Lab Sample ID: 280-216057-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	24000		200	60	ug/L	1		6010D	Dissolved
Magnesium	9400		200	50	ug/L	1		6010D	Dissolved
Manganese	12		10	2.5	ug/L	1		6010D	Dissolved
Sodium	11000		1000	450	ug/L	1		6010D	Dissolved
Chloride	17		3.0	1.3	mg/L	1		300.0	Total/NA
Phosphorus, Total	0.057	J	0.10	0.035	mg/L	1		365.1	Total/NA
Biochemical Oxygen Demand	2.0	J	2.5	0.94	mg/L	1		SM5210B	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
351.2	Nitrogen, Total Kjeldahl	EPA	EET DEN
365.1	Phosphorus, Ortho	EPA	EET DEN
365.1	Phosphorus, Total	EPA	EET DEN
SM5210B	BOD, 5 Day	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
351.2	Nitrogen, Total Kjeldahl	EPA	EET DEN
365.2/365.3/365	Phosphorus, Total	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
280-216057-1	S1	Water	10/29/25 10:15	10/30/25 09:10	Oregon
280-216057-2	S2	Water	10/29/25 09:00	10/30/25 09:10	Oregon
280-216057-3	S4	Water	10/29/25 09:40	10/30/25 09:10	Oregon

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

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

Client Sample ID: S1
Date Collected: 10/29/25 10:15
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216057-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	25000		200	60	ug/L		10/31/25 08:26	11/04/25 05:53	1
Iron	ND		100	40	ug/L		10/31/25 08:26	11/04/25 05:53	1
Magnesium	9600		200	50	ug/L		10/31/25 08:26	11/04/25 05:53	1
Manganese	12		10	2.5	ug/L		10/31/25 08:26	11/04/25 05:53	1
Sodium	11000		1000	450	ug/L		10/31/25 08:26	11/04/25 05:53	1

Client Sample ID: S2
Date Collected: 10/29/25 09:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216057-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	26000		200	60	ug/L		10/31/25 08:26	11/04/25 05:57	1
Iron	ND		100	40	ug/L		10/31/25 08:26	11/04/25 05:57	1
Magnesium	9800		200	50	ug/L		10/31/25 08:26	11/04/25 05:57	1
Manganese	14		10	2.5	ug/L		10/31/25 08:26	11/04/25 05:57	1
Sodium	12000		1000	450	ug/L		10/31/25 08:26	11/04/25 05:57	1

Client Sample ID: S4
Date Collected: 10/29/25 09:40
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216057-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	24000		200	60	ug/L		10/31/25 08:26	11/04/25 06:01	1
Iron	ND		100	40	ug/L		10/31/25 08:26	11/04/25 06:01	1
Magnesium	9400		200	50	ug/L		10/31/25 08:26	11/04/25 06:01	1
Manganese	12		10	2.5	ug/L		10/31/25 08:26	11/04/25 06:01	1
Sodium	11000		1000	450	ug/L		10/31/25 08:26	11/04/25 06:01	1

General Chemistry

Client Sample ID: S1
Date Collected: 10/29/25 10:15
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216057-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	17		3.0	1.3	mg/L			11/03/25 18:54	1
Nitrogen, Kjeldahl (EPA 351.2)	ND		1.5	0.60	mg/L		10/31/25 20:21	11/04/25 15:53	1
ortho-Phosphate (EPA 365.1)	ND	F1	0.10	0.035	mg/L			10/30/25 17:50	1
Phosphorus, Total (EPA 365.1)	0.039	J	0.10	0.035	mg/L		10/31/25 11:14	11/03/25 12:23	1
Biochemical Oxygen Demand (SM5210B)	1.9	J	2.5	0.94	mg/L			10/31/25 09:13	1

Client Sample ID: S2
Date Collected: 10/29/25 09:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216057-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	18		3.0	1.3	mg/L			11/03/25 19:50	1
Nitrogen, Kjeldahl (EPA 351.2)	ND		1.5	0.60	mg/L		10/31/25 20:21	11/04/25 15:53	1
ortho-Phosphate (EPA 365.1)	ND		0.10	0.035	mg/L			10/30/25 17:50	1
Phosphorus, Total (EPA 365.1)	0.053	J	0.10	0.035	mg/L		10/31/25 11:14	11/03/25 12:23	1
Biochemical Oxygen Demand (SM5210B)	1.6	J	2.5	0.94	mg/L			10/31/25 09:13	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

General Chemistry

Client Sample ID: S4

Date Collected: 10/29/25 09:40

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216057-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	17		3.0	1.3	mg/L			11/03/25 20:04	1
Nitrogen, Kjeldahl (EPA 351.2)	ND		1.5	0.60	mg/L		11/04/25 14:03	11/05/25 13:41	1
ortho-Phosphate (EPA 365.1)	ND		0.10	0.035	mg/L			10/30/25 17:50	1
Phosphorus, Total (EPA 365.1)	0.057	J	0.10	0.035	mg/L		10/31/25 11:14	11/03/25 12:22	1
Biochemical Oxygen Demand (SM5210B)	2.0	J	2.5	0.94	mg/L			10/31/25 09:13	1

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-720534/1-A

Matrix: Water

Analysis Batch: 721112

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 720534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	60	ug/L		10/31/25 08:26	11/04/25 03:32	1
Iron	ND		100	40	ug/L		10/31/25 08:26	11/04/25 03:32	1
Magnesium	ND		200	50	ug/L		10/31/25 08:26	11/04/25 03:32	1
Manganese	ND		10	2.5	ug/L		10/31/25 08:26	11/04/25 03:32	1
Sodium	ND		1000	450	ug/L		10/31/25 08:26	11/04/25 03:32	1

Lab Sample ID: LCS 280-720534/2-A

Matrix: Water

Analysis Batch: 721112

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 720534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	50500		ug/L		101	85 - 115
Iron	10000	10100		ug/L		101	85 - 115
Magnesium	50000	49500		ug/L		99	85 - 115
Manganese	1000	1010		ug/L		101	85 - 115
Sodium	50000	51700		ug/L		103	85 - 115

Lab Sample ID: 280-215921-D-4-B MS

Matrix: Water

Analysis Batch: 721112

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 720534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	320000		50000	369000	4	ug/L		93	75 - 125
Iron	1400		10000	11200		ug/L		98	75 - 125
Magnesium	250000		50000	302000	4	ug/L		98	75 - 125
Manganese	56		1000	1050		ug/L		99	75 - 125
Sodium	190000		50000	245000		ug/L		114	75 - 125

Lab Sample ID: 280-215921-D-4-C MSD

Matrix: Water

Analysis Batch: 721112

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 720534

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	320000		50000	368000	4	ug/L		91	75 - 125	0	20
Iron	1400		10000	11400		ug/L		100	75 - 125	2	20
Magnesium	250000		50000	299000	4	ug/L		92	75 - 125	1	20
Manganese	56		1000	1070		ug/L		101	75 - 125	2	20
Sodium	190000		50000	244000		ug/L		112	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-720847/6

Matrix: Water

Analysis Batch: 720847

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/03/25 18:17	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-720847/4

Matrix: Water

Analysis Batch: 720847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	99.7		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-720847/5

Matrix: Water

Analysis Batch: 720847

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	99.6		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-720847/3

Matrix: Water

Analysis Batch: 720847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	3.17		mg/L		106	50 - 150

Lab Sample ID: 280-216057-1 MS

Matrix: Water

Analysis Batch: 720847

Client Sample ID: S1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	17		50.0	68.5		mg/L		102	90 - 110

Lab Sample ID: 280-216057-1 MSD

Matrix: Water

Analysis Batch: 720847

Client Sample ID: S1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	17		50.0	68.4		mg/L		102	90 - 110	0	15

Lab Sample ID: 280-216057-1 DU

Matrix: Water

Analysis Batch: 720847

Client Sample ID: S1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	17			17.3		mg/L				0.4	15

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 280-720695/28-A

Matrix: Water

Analysis Batch: 721158

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 720695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	ND		1.5	0.60	mg/L		10/31/25 20:21	11/04/25 15:06	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 280-720695/27-A

Matrix: Water

Analysis Batch: 721158

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 720695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	6.00	6.01		mg/L		100	90 - 110

Lab Sample ID: 280-215961-A-1-B MS

Matrix: Water

Analysis Batch: 721158

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 720695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	ND	F1	3.00	1.24	J F1	mg/L		41	90 - 110

Lab Sample ID: 280-215961-A-1-C MSD

Matrix: Water

Analysis Batch: 721158

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 720695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	ND	F1	3.00	1.55	F1	mg/L		52	90 - 110	22	25

Lab Sample ID: MB 280-721119/2-A

Matrix: Water

Analysis Batch: 721350

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 721119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	ND		1.5	0.60	mg/L		11/04/25 14:03	11/05/25 13:36	1

Lab Sample ID: LCS 280-721119/1-A

Matrix: Water

Analysis Batch: 721350

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 721119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	6.00	6.12		mg/L		102	90 - 110

Lab Sample ID: 280-216118-A-1-B MS

Matrix: Water

Analysis Batch: 721350

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 721119

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	1.5		3.00	4.31		mg/L		93	90 - 110

Lab Sample ID: 280-216118-A-1-C MSD

Matrix: Water

Analysis Batch: 721350

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 721119

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	1.5		3.00	4.29		mg/L		93	90 - 110	0	25

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Method: 365.1 - Phosphorus, Ortho

Lab Sample ID: MB 280-720481/11

Matrix: Water

Analysis Batch: 720481

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.10	0.035	mg/L			10/30/25 17:50	1

Lab Sample ID: LCS 280-720481/10

Matrix: Water

Analysis Batch: 720481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
ortho-Phosphate	0.500	0.539		mg/L		108	90 - 110

Lab Sample ID: 280-216057-1 MS

Matrix: Water

Analysis Batch: 720481

Client Sample ID: S1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
ortho-Phosphate	ND	F1	0.500	0.575	F1	mg/L		115	90 - 110

Lab Sample ID: 280-216057-1 MSD

Matrix: Water

Analysis Batch: 720481

Client Sample ID: S1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
ortho-Phosphate	ND	F1	0.500	0.585	F1	mg/L		117	90 - 110	2	10

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 280-720584/4-A

Matrix: Water

Analysis Batch: 720906

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 720584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	ND		0.10	0.035	mg/L		10/31/25 11:14	11/03/25 12:21	1

Lab Sample ID: LCS 280-720584/3-A

Matrix: Water

Analysis Batch: 720906

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 720584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	0.500	0.535		mg/L		107	90 - 110

Lab Sample ID: 280-216070-F-1-B MS

Matrix: Water

Analysis Batch: 720906

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 720584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	ND		0.500	0.552		mg/L		110	90 - 110

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 280-216070-F-1-C MSD

Matrix: Water

Analysis Batch: 720906

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 720584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus, Total	ND		0.500	0.547		mg/L		109	90 - 110	1	10

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 280-720547/4

Matrix: Water

Analysis Batch: 720547

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	0.75	mg/L			10/31/25 09:04	1

Lab Sample ID: SCB 280-720547/1

Matrix: Water

Analysis Batch: 720547

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.801	J	2.0	0.75	mg/L			10/31/25 09:04	1

Lab Sample ID: USB 280-720547/2

Matrix: Water

Analysis Batch: 720547

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	0.75	mg/L			10/31/25 09:04	1

Lab Sample ID: LCS 280-720547/3

Matrix: Water

Analysis Batch: 720547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	177		mg/L		89	85 - 115

Lab Sample ID: 280-216096-A-4 DU

Matrix: Water

Analysis Batch: 720547

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Biochemical Oxygen Demand	1.0	J	1.07	J	mg/L		6	20

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Metals

Prep Batch: 720534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-1	S1	Dissolved	Water	3005A	
280-216057-2	S2	Dissolved	Water	3005A	
280-216057-3	S4	Dissolved	Water	3005A	
MB 280-720534/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-720534/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-215921-D-4-B MS	Matrix Spike	Dissolved	Water	3005A	
280-215921-D-4-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 721112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-1	S1	Dissolved	Water	6010D	720534
280-216057-2	S2	Dissolved	Water	6010D	720534
280-216057-3	S4	Dissolved	Water	6010D	720534
MB 280-720534/1-A	Method Blank	Total Recoverable	Water	6010D	720534
LCS 280-720534/2-A	Lab Control Sample	Total Recoverable	Water	6010D	720534
280-215921-D-4-B MS	Matrix Spike	Dissolved	Water	6010D	720534
280-215921-D-4-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	720534

General Chemistry

Analysis Batch: 720481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-1	S1	Total/NA	Water	365.1	
280-216057-2	S2	Total/NA	Water	365.1	
280-216057-3	S4	Total/NA	Water	365.1	
MB 280-720481/11	Method Blank	Total/NA	Water	365.1	
LCS 280-720481/10	Lab Control Sample	Total/NA	Water	365.1	
280-216057-1 MS	S1	Total/NA	Water	365.1	
280-216057-1 MSD	S1	Total/NA	Water	365.1	

Analysis Batch: 720547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-1	S1	Total/NA	Water	SM5210B	
280-216057-2	S2	Total/NA	Water	SM5210B	
280-216057-3	S4	Total/NA	Water	SM5210B	
MB 280-720547/4	Method Blank	Total/NA	Water	SM5210B	
SCB 280-720547/1	Method Blank	Total/NA	Water	SM5210B	
USB 280-720547/2	Method Blank	Total/NA	Water	SM5210B	
LCS 280-720547/3	Lab Control Sample	Total/NA	Water	SM5210B	
280-216096-A-4 DU	Duplicate	Total/NA	Water	SM5210B	

Prep Batch: 720584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-1	S1	Total/NA	Water	365.2/365.3/365	
280-216057-2	S2	Total/NA	Water	365.2/365.3/365	
280-216057-3	S4	Total/NA	Water	365.2/365.3/365	
MB 280-720584/4-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 280-720584/3-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
280-216070-F-1-B MS	Matrix Spike	Total/NA	Water	365.2/365.3/365	
280-216070-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	365.2/365.3/365	

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

General Chemistry

Prep Batch: 720695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-1	S1	Total/NA	Water	351.2	
280-216057-2	S2	Total/NA	Water	351.2	
MB 280-720695/28-A	Method Blank	Total/NA	Water	351.2	
LCS 280-720695/27-A	Lab Control Sample	Total/NA	Water	351.2	
280-215961-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	
280-215961-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	

Analysis Batch: 720847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-1	S1	Total/NA	Water	300.0	
280-216057-2	S2	Total/NA	Water	300.0	
280-216057-3	S4	Total/NA	Water	300.0	
MB 280-720847/6	Method Blank	Total/NA	Water	300.0	
LCS 280-720847/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-720847/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-720847/3	Lab Control Sample	Total/NA	Water	300.0	
280-216057-1 MS	S1	Total/NA	Water	300.0	
280-216057-1 MSD	S1	Total/NA	Water	300.0	
280-216057-1 DU	S1	Total/NA	Water	300.0	

Analysis Batch: 720906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-1	S1	Total/NA	Water	365.1	720584
280-216057-2	S2	Total/NA	Water	365.1	720584
280-216057-3	S4	Total/NA	Water	365.1	720584
MB 280-720584/4-A	Method Blank	Total/NA	Water	365.1	720584
LCS 280-720584/3-A	Lab Control Sample	Total/NA	Water	365.1	720584
280-216070-F-1-B MS	Matrix Spike	Total/NA	Water	365.1	720584
280-216070-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	365.1	720584

Prep Batch: 721119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-3	S4	Total/NA	Water	351.2	
MB 280-721119/2-A	Method Blank	Total/NA	Water	351.2	
LCS 280-721119/1-A	Lab Control Sample	Total/NA	Water	351.2	
280-216118-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	
280-216118-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	

Analysis Batch: 721158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-1	S1	Total/NA	Water	351.2	720695
280-216057-2	S2	Total/NA	Water	351.2	720695
MB 280-720695/28-A	Method Blank	Total/NA	Water	351.2	720695
LCS 280-720695/27-A	Lab Control Sample	Total/NA	Water	351.2	720695
280-215961-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	720695
280-215961-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	720695

Analysis Batch: 721350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216057-3	S4	Total/NA	Water	351.2	721119
MB 280-721119/2-A	Method Blank	Total/NA	Water	351.2	721119

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

General Chemistry (Continued)

Analysis Batch: 721350 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-721119/1-A	Lab Control Sample	Total/NA	Water	351.2	721119
280-216118-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	721119
280-216118-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	721119

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216057-1

Client Sample ID: S1

Date Collected: 10/29/25 10:15

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216057-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	720534	10/31/25 08:26	AR	EET DEN
Dissolved	Analysis	6010D		1			721112	11/04/25 05:53	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720847	11/03/25 18:54	SLH	EET DEN
Total/NA	Prep	351.2			25 mL	25 mL	720695	10/31/25 20:21	BCR	EET DEN
Total/NA	Analysis	351.2		1			721158	11/04/25 15:53	BCR	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	720481	10/30/25 17:50	BCR	EET DEN
Total/NA	Prep	365.2/365.3/365			50 mL	50 mL	720584	10/31/25 11:14	ABW	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	720906	11/03/25 12:23	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	240 mL	300 mL	720547	10/31/25 09:13	BRD	EET DEN

Client Sample ID: S2

Date Collected: 10/29/25 09:00

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216057-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	720534	10/31/25 08:26	AR	EET DEN
Dissolved	Analysis	6010D		1			721112	11/04/25 05:57	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720847	11/03/25 19:50	SLH	EET DEN
Total/NA	Prep	351.2			25 mL	25 mL	720695	10/31/25 20:21	BCR	EET DEN
Total/NA	Analysis	351.2		1			721158	11/04/25 15:53	BCR	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	720481	10/30/25 17:50	BCR	EET DEN
Total/NA	Prep	365.2/365.3/365			50 mL	50 mL	720584	10/31/25 11:14	ABW	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	720906	11/03/25 12:23	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	240 mL	300 mL	720547	10/31/25 09:13	BRD	EET DEN

Client Sample ID: S4

Date Collected: 10/29/25 09:40

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216057-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	720534	10/31/25 08:26	AR	EET DEN
Dissolved	Analysis	6010D		1			721112	11/04/25 06:01	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720847	11/03/25 20:04	SLH	EET DEN
Total/NA	Prep	351.2			25 mL	25 mL	721119	11/04/25 14:03	ABW	EET DEN
Total/NA	Analysis	351.2		1			721350	11/05/25 13:41	ABW	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	720481	10/30/25 17:50	BCR	EET DEN
Total/NA	Prep	365.2/365.3/365			50 mL	50 mL	720584	10/31/25 11:14	ABW	EET DEN
Total/NA	Analysis	365.1		1	2 mL	2 mL	720906	11/03/25 12:22	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	240 mL	300 mL	720547	10/31/25 09:13	BRD	EET DEN

Laboratory References:

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

Eurofins Denver

Chain of Custody Record



Client Information Client Contact: Nick Rudolph Phone: 5035806462		Lab PM: Collins, Janice S E-Mail: Janice.Collins@et.eurofins.com		Carrier Tracking No(s): COC No: 280-97584-22898.1 Page:	
Company: Valley Landfills, Inc. Republic Services Address: 28972 Coffin Butte Road City: Corvallis State/Zip: OR, 97330 Phone: 503-675-1335(Tel) Email:		Due Date Requested: TAT Requested (days): 30 Compliance Project: ☐ Yes ☒ No PO #: PO# 1584688 WO #:		Job #: Analysis Requested	
Project Name: Coffin Butte LF Site:		Project #: 28003197 Semiannual Surfacewater (S-1 thru S-4) SSOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification S1 S2 S4		Sample Date 10/29 10/29 10/29		Sample Time 1015 0900 0940	
Sample Type G I I		Matrix W I I		Preservation Code: W I I	
Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		300.0 - Chloride	
6010D - Dissolved Metals (6) (FF)		TKN/Total Phos		365.1 - Orthophosphate (FF)	
SM5210B - BOD		N D N B N		Total Number of Containers	
Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by: Mh Ruff		Relinquished by: Mh Ruff		Relinquished by: Mh Ruff	
Relinquished by: Mh Ruff		Relinquished by: Mh Ruff		Relinquished by: Mh Ruff	
Relinquished by: Mh Ruff		Relinquished by: Mh Ruff		Relinquished by: Mh Ruff	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: T: 13 CF: -0.2 IN: 18.5	

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-216057-1

Login Number: 216057

List Source: Eurofins Denver

List Number: 1

Creator: Held, Wesley

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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761

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JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-216121-1

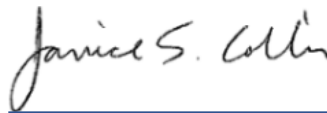
Eurofins Denver

Job Notes

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

Authorization



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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

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Eurofins Denver

Job Narrative 280-216121-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/30/2025 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 time was 1.1°C.

GC/MS VOA

Method 8260D: The following compounds were outside control limits of 20%D in the continuing calibration verification (CCV) associated with batch 280-721901: Bromomethane and Dichlorodifluoromethane. These compounds are considered poor performers and have recovered within LCS/LCSD limits. The following samples are affected: 280-216121-1, 280-216121-2, 280-216121-3 and CCVIS 280-721901/2.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-721901. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. The associated samples are: 280-216121-1, 280-216121-2 and 280-216121-3.

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

Metals

Method 200.8: The continuing calibration verification (CCV) associated with batch 280-721203 recovered above the upper control limit for Se. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are: 280-216121-2, 280-216121-3 and CCV 280-721203/51.

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

General Chemistry

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

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Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Client Sample ID: MW-1D

Lab Sample ID: 280-216121-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	3.4		2.0	0.55	ug/L	1		200.8	Total/NA
Selenium	0.60	J	2.0	0.50	ug/L	1		200.8	Total/NA
Calcium	30000		200	60	ug/L	1		6010D	Dissolved
Magnesium	12000		200	50	ug/L	1		6010D	Dissolved
Sodium	26000		1000	450	ug/L	1		6010D	Dissolved
Chloride	7.2		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	170		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	220		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-11S

Lab Sample ID: 280-216121-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	3.4		3.0	1.0	ug/L	1		200.8	Total/NA
Barium	7.9		2.0	0.55	ug/L	1		200.8	Total/NA
Calcium	200000		200	60	ug/L	1		6010D	Dissolved
Magnesium	83000		200	50	ug/L	1		6010D	Dissolved
Manganese	8.1	J	10	2.5	ug/L	1		6010D	Dissolved
Sodium	32000		1000	450	ug/L	1		6010D	Dissolved
Chloride	54		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	790		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	920		20	12	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	2.8	J	4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-11D

Lab Sample ID: 280-216121-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	7.6		3.0	1.0	ug/L	1		200.8	Total/NA
Barium	5.2		2.0	0.55	ug/L	1		200.8	Total/NA
Calcium	250000		200	60	ug/L	1		6010D	Dissolved
Magnesium	100000		200	50	ug/L	1		6010D	Dissolved
Manganese	28		10	2.5	ug/L	1		6010D	Dissolved
Sodium	41000		1000	450	ug/L	1		6010D	Dissolved
Chloride	110		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	880		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		20	12	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
200.8	Preparation, Total Metals	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
280-216121-1	MW-1D	Water	10/28/25 09:00	10/30/25 09:10	Oregon
280-216121-2	MW-11S	Water	10/28/25 12:50	10/30/25 09:10	Oregon
280-216121-3	MW-11D	Water	10/28/25 13:20	10/30/25 09:10	Oregon

- 1
- 2
- 3
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- 11
- 12
- 13
- 14

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: MW-1D

Date Collected: 10/28/25 09:00

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/10/25 15:10	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/10/25 15:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/10/25 15:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/10/25 15:10	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/10/25 15:10	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
2-Hexanone	ND		5.0	1.5	ug/L			11/10/25 15:10	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/10/25 15:10	1
Acetone	ND		15	5.0	ug/L			11/10/25 15:10	1
Benzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Bromobenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Bromoform	ND		2.0	0.50	ug/L			11/10/25 15:10	1
Bromomethane	ND		5.0	2.5	ug/L			11/10/25 15:10	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/10/25 15:10	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Chloroethane	ND		2.0	0.50	ug/L			11/10/25 15:10	1
Chloroform	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Chloromethane	ND		2.0	0.50	ug/L			11/10/25 15:10	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Dibromomethane	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/10/25 15:10	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/10/25 15:10	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/10/25 15:10	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

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

Client Sample ID: MW-1D

Date Collected: 10/28/25 09:00

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/10/25 15:10	1
Naphthalene	ND		3.0	1.0	ug/L			11/10/25 15:10	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
o-Xylene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Styrene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Toluene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Trichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/10/25 15:10	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/10/25 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120					11/10/25 15:10	1
4-Bromofluorobenzene (Surr)	112		80 - 120					11/10/25 15:10	1
Dibromofluoromethane (Surr)	96		80 - 120					11/10/25 15:10	1
Toluene-d8 (Surr)	106		80 - 120					11/10/25 15:10	1

Client Sample ID: MW-11S

Date Collected: 10/28/25 12:50

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/10/25 15:31	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/10/25 15:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/10/25 15:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/10/25 15:31	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/10/25 15:31	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
2-Hexanone	ND		5.0	1.5	ug/L			11/10/25 15:31	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

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

Client Sample ID: MW-11S

Date Collected: 10/28/25 12:50

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/10/25 15:31	1
Acetone	ND		15	5.0	ug/L			11/10/25 15:31	1
Benzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Bromobenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Bromoform	ND		2.0	0.50	ug/L			11/10/25 15:31	1
Bromomethane	ND		5.0	2.5	ug/L			11/10/25 15:31	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/10/25 15:31	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Chloroethane	ND		2.0	0.50	ug/L			11/10/25 15:31	1
Chloroform	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Chloromethane	ND		2.0	0.50	ug/L			11/10/25 15:31	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Dibromomethane	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/10/25 15:31	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/10/25 15:31	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/10/25 15:31	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/10/25 15:31	1
Naphthalene	ND		3.0	1.0	ug/L			11/10/25 15:31	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
o-Xylene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Styrene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Toluene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Trichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:31	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/10/25 15:31	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/10/25 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		11/10/25 15:31	1
4-Bromofluorobenzene (Surr)	109		80 - 120		11/10/25 15:31	1
Dibromofluoromethane (Surr)	95		80 - 120		11/10/25 15:31	1
Toluene-d8 (Surr)	105		80 - 120		11/10/25 15:31	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: MW-11D
Date Collected: 10/28/25 13:20
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/10/25 15:53	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/10/25 15:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/10/25 15:53	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/10/25 15:53	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/10/25 15:53	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
2-Hexanone	ND		5.0	1.5	ug/L			11/10/25 15:53	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/10/25 15:53	1
Acetone	ND		15	5.0	ug/L			11/10/25 15:53	1
Benzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Bromobenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Bromoform	ND		2.0	0.50	ug/L			11/10/25 15:53	1
Bromomethane	ND		5.0	2.5	ug/L			11/10/25 15:53	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/10/25 15:53	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Chloroethane	ND		2.0	0.50	ug/L			11/10/25 15:53	1
Chloroform	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Chloromethane	ND		2.0	0.50	ug/L			11/10/25 15:53	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Dibromomethane	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/10/25 15:53	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/10/25 15:53	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/10/25 15:53	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

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

Client Sample ID: MW-11D

Date Collected: 10/28/25 13:20

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/10/25 15:53	1
Naphthalene	ND		3.0	1.0	ug/L			11/10/25 15:53	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
o-Xylene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Styrene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Toluene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Trichloroethene	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/10/25 15:53	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/10/25 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120					11/10/25 15:53	1
4-Bromofluorobenzene (Surr)	114		80 - 120					11/10/25 15:53	1
Dibromofluoromethane (Surr)	95		80 - 120					11/10/25 15:53	1
Toluene-d8 (Surr)	107		80 - 120					11/10/25 15:53	1

Method: EPA 200.8 - Metals (ICP/MS)

Client Sample ID: MW-1D

Date Collected: 10/28/25 09:00

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:21	1
Arsenic	ND		2.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:21	1
Lead	ND		1.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:21	1
Nickel	ND		3.0	1.0	ug/L		10/31/25 17:57	11/05/25 05:21	1
Barium	3.4		2.0	0.55	ug/L		10/31/25 17:57	11/05/25 05:21	1
Selenium	0.60	J	2.0	0.50	ug/L		10/31/25 17:57	11/06/25 02:17	1
Chromium	ND		3.0	1.0	ug/L		10/31/25 17:57	11/05/25 05:21	1
Zinc	ND		10	5.0	ug/L		10/31/25 17:57	11/05/25 05:21	1

Client Sample ID: MW-11S

Date Collected: 10/28/25 12:50

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:24	1
Arsenic	ND		2.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:24	1
Lead	ND		1.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:24	1
Nickel	3.4		3.0	1.0	ug/L		10/31/25 17:57	11/05/25 05:24	1
Barium	7.9		2.0	0.55	ug/L		10/31/25 17:57	11/05/25 05:24	1
Selenium	ND	^+	2.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:24	1
Chromium	ND		3.0	1.0	ug/L		10/31/25 17:57	11/05/25 05:24	1
Zinc	ND		10	5.0	ug/L		10/31/25 17:57	11/05/25 05:24	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Method: EPA 200.8 - Metals (ICP/MS)

Client Sample ID: MW-11D
Date Collected: 10/28/25 13:20
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:27	1
Arsenic	ND		2.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:27	1
Lead	ND		1.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:27	1
Nickel	7.6		3.0	1.0	ug/L		10/31/25 17:57	11/05/25 05:27	1
Barium	5.2		2.0	0.55	ug/L		10/31/25 17:57	11/05/25 05:27	1
Selenium	ND	^+	2.0	0.50	ug/L		10/31/25 17:57	11/05/25 05:27	1
Chromium	ND		3.0	1.0	ug/L		10/31/25 17:57	11/05/25 05:27	1
Zinc	ND		10	5.0	ug/L		10/31/25 17:57	11/05/25 05:27	1

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

Client Sample ID: MW-1D
Date Collected: 10/28/25 09:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		10/31/25 16:43	11/06/25 06:55	1
Calcium	30000		200	60	ug/L		10/31/25 16:43	11/06/25 06:55	1
Iron	ND		100	40	ug/L		10/31/25 16:43	11/06/25 06:55	1
Magnesium	12000		200	50	ug/L		10/31/25 16:43	11/06/25 06:55	1
Manganese	ND		10	2.5	ug/L		10/31/25 16:43	11/06/25 06:55	1
Sodium	26000		1000	450	ug/L		10/31/25 16:43	11/06/25 06:55	1

Client Sample ID: MW-11S
Date Collected: 10/28/25 12:50
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		10/31/25 16:43	11/06/25 07:12	1
Calcium	200000		200	60	ug/L		10/31/25 16:43	11/06/25 07:12	1
Iron	ND		100	40	ug/L		10/31/25 16:43	11/06/25 07:12	1
Magnesium	83000		200	50	ug/L		10/31/25 16:43	11/06/25 07:12	1
Manganese	8.1	J	10	2.5	ug/L		10/31/25 16:43	11/06/25 07:12	1
Sodium	32000		1000	450	ug/L		10/31/25 16:43	11/06/25 07:12	1

Client Sample ID: MW-11D
Date Collected: 10/28/25 13:20
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		10/31/25 16:43	11/06/25 07:16	1
Calcium	250000		200	60	ug/L		10/31/25 16:43	11/06/25 07:16	1
Iron	ND		100	40	ug/L		10/31/25 16:43	11/06/25 07:16	1
Magnesium	100000		200	50	ug/L		10/31/25 16:43	11/06/25 07:16	1
Manganese	28		10	2.5	ug/L		10/31/25 16:43	11/06/25 07:16	1
Sodium	41000		1000	450	ug/L		10/31/25 16:43	11/06/25 07:16	1

General Chemistry

Client Sample ID: MW-1D
Date Collected: 10/28/25 09:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	7.2		3.0	1.3	mg/L			11/02/25 07:49	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

General Chemistry (Continued)

Client Sample ID: MW-1D

Date Collected: 10/28/25 09:00

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	170		10	7.0	mg/L			11/06/25 03:56	1
Total Dissolved Solids (SM 2540C)	220		10	6.0	mg/L			10/31/25 09:33	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			10/31/25 11:50	1

Client Sample ID: MW-11S

Date Collected: 10/28/25 12:50

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	54		3.0	1.3	mg/L			11/02/25 08:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	790		10	7.0	mg/L			11/05/25 03:58	1
Total Dissolved Solids (SM 2540C)	920		20	12	mg/L			10/31/25 09:33	1
Total Suspended Solids (SM 2540D)	2.8 J		4.0	1.5	mg/L			10/31/25 11:50	1

Client Sample ID: MW-11D

Date Collected: 10/28/25 13:20

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	110		3.0	1.3	mg/L			11/02/25 08:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	880		10	7.0	mg/L			11/01/25 02:59	1
Total Dissolved Solids (SM 2540C)	1100		20	12	mg/L			10/31/25 09:33	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			10/31/25 11:50	1

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(80-120)	(80-120)	(80-120)	(80-120)
280-216121-1	MW-1D	109	112	96	106
280-216121-2	MW-11S	108	109	95	105
280-216121-3	MW-11D	107	114	95	107
LCS 280-721901/4	Lab Control Sample	106	104	100	100
LCSD 280-721901/5	Lab Control Sample Dup	106	105	100	101
MB 280-721901/10	Method Blank	107	112	97	104
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-721901/10

Matrix: Water

Analysis Batch: 721901

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/10/25 08:57	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/10/25 08:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/10/25 08:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/10/25 08:57	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/10/25 08:57	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
2-Hexanone	ND		5.0	1.5	ug/L			11/10/25 08:57	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/10/25 08:57	1
Acetone	ND		15	5.0	ug/L			11/10/25 08:57	1
Benzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Bromobenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Bromoform	ND		2.0	0.50	ug/L			11/10/25 08:57	1
Bromomethane	ND		5.0	2.5	ug/L			11/10/25 08:57	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/10/25 08:57	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Chloroethane	ND		2.0	0.50	ug/L			11/10/25 08:57	1
Chloroform	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Chloromethane	ND		2.0	0.50	ug/L			11/10/25 08:57	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Dibromomethane	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/10/25 08:57	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/10/25 08:57	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

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

Lab Sample ID: MB 280-721901/10

Matrix: Water

Analysis Batch: 721901

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	1.0	ug/L			11/10/25 08:57	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/10/25 08:57	1
Naphthalene	ND		3.0	1.0	ug/L			11/10/25 08:57	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
o-Xylene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Styrene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Toluene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Trichloroethene	ND		1.0	0.25	ug/L			11/10/25 08:57	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/10/25 08:57	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/10/25 08:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		11/10/25 08:57	1
4-Bromofluorobenzene (Surr)	112		80 - 120		11/10/25 08:57	1
Dibromofluoromethane (Surr)	97		80 - 120		11/10/25 08:57	1
Toluene-d8 (Surr)	104		80 - 120		11/10/25 08:57	1

Lab Sample ID: LCS 280-721901/4

Matrix: Water

Analysis Batch: 721901

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	44.7		ug/L		89	79 - 125
1,1,1-Trichloroethane	50.0	44.1		ug/L		88	78 - 125
1,1,2,2-Tetrachloroethane	50.0	46.3		ug/L		93	73 - 126
1,1,2-Trichloroethane	50.0	45.1		ug/L		90	80 - 121
1,1-Dichloroethane	50.0	47.1		ug/L		94	78 - 124
1,1-Dichloroethene	50.0	41.2		ug/L		82	76 - 124
1,1-Dichloropropene	50.0	44.1		ug/L		88	80 - 124
1,2,3-Trichlorobenzene	50.0	43.3		ug/L		87	57 - 136
1,2,3-Trichloropropane	50.0	46.0		ug/L		92	75 - 123
1,2,4-Trichlorobenzene	50.0	44.0		ug/L		88	69 - 130
1,2,4-Trimethylbenzene	50.0	46.1		ug/L		92	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	42.5		ug/L		85	64 - 130
1,2-Dibromoethane	50.0	44.8		ug/L		90	80 - 120
1,2-Dichlorobenzene	50.0	43.7		ug/L		87	80 - 120
1,2-Dichloroethane	50.0	46.1		ug/L		92	73 - 124
1,2-Dichloropropane	50.0	46.8		ug/L		94	78 - 124
1,3,5-Trimethylbenzene	50.0	46.3		ug/L		93	80 - 122
1,3-Dichlorobenzene	50.0	42.3		ug/L		85	80 - 120
1,3-Dichloropropane	50.0	46.9		ug/L		94	80 - 121
1,4-Dichlorobenzene	50.0	42.7		ug/L		85	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

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

Lab Sample ID: LCS 280-721901/4

Matrix: Water

Analysis Batch: 721901

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	50.0	46.7		ug/L		93	72 - 131
2-Butanone (MEK)	200	198		ug/L		99	59 - 141
2-Chlorotoluene	50.0	44.7		ug/L		89	80 - 120
2-Hexanone	200	200		ug/L		100	59 - 146
4-Chlorotoluene	50.0	43.1		ug/L		86	80 - 121
4-Isopropyltoluene	50.0	43.5		ug/L		87	80 - 124
4-Methyl-2-pentanone (MIBK)	200	196		ug/L		98	63 - 144
Acetone	200	185		ug/L		92	57 - 143
Benzene	50.0	44.5		ug/L		89	80 - 121
Bromobenzene	50.0	42.3		ug/L		85	80 - 120
Bromochloromethane	50.0	43.7		ug/L		87	76 - 126
Bromodichloromethane	50.0	48.6		ug/L		97	80 - 124
Bromoform	50.0	41.6		ug/L		83	66 - 134
Bromomethane	50.0	28.8		ug/L		58	10 - 150
Carbon disulfide	50.0	43.9		ug/L		88	70 - 127
Carbon tetrachloride	50.0	44.3		ug/L		89	72 - 131
Chlorobenzene	50.0	43.6		ug/L		87	80 - 120
Chloroethane	50.0	53.4		ug/L		107	51 - 149
Chloroform	50.0	46.5		ug/L		93	80 - 120
Chloromethane	50.0	47.0		ug/L		94	51 - 142
cis-1,2-Dichloroethene	50.0	43.9		ug/L		88	80 - 121
cis-1,3-Dichloropropene	50.0	47.4		ug/L		95	77 - 127
Dibromochloromethane	50.0	45.5		ug/L		91	77 - 128
Dibromomethane	50.0	46.4		ug/L		93	80 - 120
Dichlorodifluoromethane	50.0	37.2		ug/L		74	36 - 150
Ethylbenzene	50.0	44.3		ug/L		89	80 - 120
Hexachlorobutadiene	50.0	41.8		ug/L		84	66 - 135
Isopropylbenzene	50.0	47.9		ug/L		96	78 - 123
Methylene Chloride	50.0	42.8		ug/L		86	77 - 121
m-Xylene & p-Xylene	50.0	44.6		ug/L		89	80 - 121
Naphthalene	50.0	47.7		ug/L		95	55 - 135
n-Butylbenzene	50.0	45.0		ug/L		90	73 - 131
N-Propylbenzene	50.0	42.8		ug/L		86	80 - 123
o-Xylene	50.0	45.9		ug/L		92	80 - 121
sec-Butylbenzene	50.0	42.7		ug/L		85	80 - 125
Styrene	50.0	49.6		ug/L		99	80 - 123
tert-Butylbenzene	50.0	44.0		ug/L		88	80 - 121
Tetrachloroethene	50.0	40.7		ug/L		81	79 - 125
Toluene	50.0	44.3		ug/L		89	80 - 120
trans-1,2-Dichloroethene	50.0	42.1		ug/L		84	78 - 123
trans-1,3-Dichloropropene	50.0	50.2		ug/L		100	79 - 124
Trichloroethene	50.0	43.5		ug/L		87	79 - 121
Trichlorofluoromethane	50.0	45.4		ug/L		91	60 - 139
Vinyl chloride	50.0	50.1		ug/L		100	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

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

Lab Sample ID: LCS 280-721901/4

Matrix: Water

Analysis Batch: 721901

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 280-721901/5

Matrix: Water

Analysis Batch: 721901

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	46.4		ug/L		93	79 - 125	4	20
1,1,1-Trichloroethane	50.0	45.3		ug/L		91	78 - 125	2	20
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/L		95	73 - 126	3	20
1,1,2-Trichloroethane	50.0	46.2		ug/L		92	80 - 121	2	20
1,1-Dichloroethane	50.0	47.4		ug/L		95	78 - 124	1	20
1,1-Dichloroethene	50.0	42.1		ug/L		84	76 - 124	2	20
1,1-Dichloropropene	50.0	44.7		ug/L		89	80 - 124	1	20
1,2,3-Trichlorobenzene	50.0	46.2		ug/L		92	57 - 136	6	21
1,2,3-Trichloropropane	50.0	47.3		ug/L		95	75 - 123	3	26
1,2,4-Trichlorobenzene	50.0	46.2		ug/L		92	69 - 130	5	20
1,2,4-Trimethylbenzene	50.0	48.2		ug/L		96	80 - 123	5	20
1,2-Dibromo-3-Chloropropane	50.0	44.4		ug/L		89	64 - 130	4	20
1,2-Dibromoethane	50.0	46.4		ug/L		93	80 - 120	4	20
1,2-Dichlorobenzene	50.0	44.7		ug/L		89	80 - 120	2	20
1,2-Dichloroethane	50.0	46.2		ug/L		92	73 - 124	0	20
1,2-Dichloropropane	50.0	47.2		ug/L		94	78 - 124	1	20
1,3,5-Trimethylbenzene	50.0	48.1		ug/L		96	80 - 122	4	20
1,3-Dichlorobenzene	50.0	43.9		ug/L		88	80 - 120	4	20
1,3-Dichloropropane	50.0	48.0		ug/L		96	80 - 121	2	20
1,4-Dichlorobenzene	50.0	43.9		ug/L		88	80 - 120	3	20
2,2-Dichloropropane	50.0	47.5		ug/L		95	72 - 131	2	20
2-Butanone (MEK)	200	201		ug/L		101	59 - 141	2	20
2-Chlorotoluene	50.0	45.9		ug/L		92	80 - 120	3	20
2-Hexanone	200	204		ug/L		102	59 - 146	2	20
4-Chlorotoluene	50.0	44.7		ug/L		89	80 - 121	4	20
4-Isopropyltoluene	50.0	45.0		ug/L		90	80 - 124	4	20
4-Methyl-2-pentanone (MIBK)	200	197		ug/L		98	63 - 144	0	20
Acetone	200	189		ug/L		94	57 - 143	2	22
Benzene	50.0	44.8		ug/L		90	80 - 121	1	20
Bromobenzene	50.0	43.7		ug/L		87	80 - 120	3	20
Bromochloromethane	50.0	43.9		ug/L		88	76 - 126	1	20
Bromodichloromethane	50.0	49.6		ug/L		99	80 - 124	2	20
Bromoform	50.0	42.3		ug/L		85	66 - 134	2	20
Bromomethane	50.0	25.3		ug/L		51	10 - 150	13	58
Carbon disulfide	50.0	44.3		ug/L		89	70 - 127	1	20
Carbon tetrachloride	50.0	45.2		ug/L		90	72 - 131	2	20
Chlorobenzene	50.0	44.9		ug/L		90	80 - 120	3	20
Chloroethane	50.0	53.6		ug/L		107	51 - 149	0	34
Chloroform	50.0	47.2		ug/L		94	80 - 120	1	20
Chloromethane	50.0	46.5		ug/L		93	51 - 142	1	21

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

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

Lab Sample ID: LCSD 280-721901/5

Matrix: Water

Analysis Batch: 721901

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	50.0	44.5		ug/L		89	80 - 121	1	20
cis-1,3-Dichloropropene	50.0	49.1		ug/L		98	77 - 127	4	20
Dibromochloromethane	50.0	47.4		ug/L		95	77 - 128	4	20
Dibromomethane	50.0	46.6		ug/L		93	80 - 120	1	20
Dichlorodifluoromethane	50.0	39.2		ug/L		78	36 - 150	5	35
Ethylbenzene	50.0	46.0		ug/L		92	80 - 120	4	20
Hexachlorobutadiene	50.0	43.7		ug/L		87	66 - 135	5	20
Isopropylbenzene	50.0	50.1		ug/L		100	78 - 123	4	20
Methylene Chloride	50.0	42.7		ug/L		85	77 - 121	0	20
m-Xylene & p-Xylene	50.0	46.2		ug/L		92	80 - 121	4	20
Naphthalene	50.0	50.1		ug/L		100	55 - 135	5	23
n-Butylbenzene	50.0	46.5		ug/L		93	73 - 131	3	25
N-Propylbenzene	50.0	44.5		ug/L		89	80 - 123	4	20
o-Xylene	50.0	47.2		ug/L		94	80 - 121	3	20
sec-Butylbenzene	50.0	44.2		ug/L		88	80 - 125	3	20
Styrene	50.0	50.5		ug/L		101	80 - 123	2	20
tert-Butylbenzene	50.0	45.1		ug/L		90	80 - 121	3	20
Tetrachloroethene	50.0	41.9		ug/L		84	79 - 125	3	20
Toluene	50.0	44.8		ug/L		90	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	43.3		ug/L		87	78 - 123	3	20
trans-1,3-Dichloropropene	50.0	50.9		ug/L		102	79 - 124	1	20
Trichloroethene	50.0	44.9		ug/L		90	79 - 121	3	20
Trichlorofluoromethane	50.0	47.1		ug/L		94	60 - 139	4	25
Vinyl chloride	50.0	50.1		ug/L		100	60 - 136	0	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-720687/1-A

Matrix: Water

Analysis Batch: 721203

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 720687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		10/31/25 17:57	11/05/25 04:40	1
Lead	ND		1.0	0.50	ug/L		10/31/25 17:57	11/05/25 04:40	1
Nickel	ND		3.0	1.0	ug/L		10/31/25 17:57	11/05/25 04:40	1
Barium	ND		2.0	0.55	ug/L		10/31/25 17:57	11/05/25 04:40	1
Chromium	ND		3.0	1.0	ug/L		10/31/25 17:57	11/05/25 04:40	1
Zinc	ND		10	5.0	ug/L		10/31/25 17:57	11/05/25 04:40	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-720687/1-A

Matrix: Water

Analysis Batch: 721424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 720687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		10/31/25 17:57	11/06/25 01:36	1
Selenium	ND		2.0	0.50	ug/L		10/31/25 17:57	11/06/25 01:36	1

Lab Sample ID: LCS 280-720687/2-A

Matrix: Water

Analysis Batch: 721203

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 720687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	40.0	37.7		ug/L		94	85 - 115
Lead	40.0	37.8		ug/L		94	85 - 115
Nickel	40.0	37.9		ug/L		95	85 - 115
Barium	40.0	37.6		ug/L		94	85 - 115
Chromium	40.0	37.2		ug/L		93	85 - 115
Zinc	40.0	43.4		ug/L		109	85 - 115

Lab Sample ID: LCS 280-720687/2-A

Matrix: Water

Analysis Batch: 721424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 720687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.1		ug/L		103	85 - 115
Selenium	40.0	40.9		ug/L		102	85 - 115

Lab Sample ID: 280-216082-A-1-B MS

Matrix: Water

Analysis Batch: 721203

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 720687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		40.0	38.2		ug/L		96	75 - 125
Lead	ND		40.0	37.8		ug/L		95	75 - 125
Nickel	8.0		40.0	44.7		ug/L		92	75 - 125
Barium	27		40.0	65.8		ug/L		98	75 - 125
Chromium	ND		40.0	36.4		ug/L		91	75 - 125
Zinc	31		40.0	66.6		ug/L		89	75 - 125

Lab Sample ID: 280-216082-A-1-B MS

Matrix: Water

Analysis Batch: 721424

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 720687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	38.9		ug/L		97	75 - 125
Selenium	ND		40.0	36.0		ug/L		90	75 - 125

Lab Sample ID: 280-216082-A-1-C MSD

Matrix: Water

Analysis Batch: 721203

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 720687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		40.0	36.6		ug/L		91	75 - 125	4	20
Lead	ND		40.0	36.1		ug/L		90	75 - 125	5	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-216082-A-1-C MSD

Matrix: Water

Analysis Batch: 721203

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 720687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	8.0		40.0	43.2		ug/L		88	75 - 125	3	20
Barium	27		40.0	61.8		ug/L		88	75 - 125	6	20
Chromium	ND		40.0	35.4		ug/L		88	75 - 125	3	20
Zinc	31		40.0	65.8		ug/L		87	75 - 125	1	20

Lab Sample ID: 280-216082-A-1-C MSD

Matrix: Water

Analysis Batch: 721424

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 720687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	36.8		ug/L		92	75 - 125	6	20
Selenium	ND		40.0	37.0		ug/L		92	75 - 125	3	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-720674/1-A

Matrix: Water

Analysis Batch: 721485

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 720674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		10/31/25 16:37	11/06/25 04:52	1
Calcium	ND		200	60	ug/L		10/31/25 16:37	11/06/25 04:52	1
Iron	ND		100	40	ug/L		10/31/25 16:37	11/06/25 04:52	1
Magnesium	ND		200	50	ug/L		10/31/25 16:37	11/06/25 04:52	1
Manganese	ND		10	2.5	ug/L		10/31/25 16:37	11/06/25 04:52	1
Sodium	ND		1000	450	ug/L		10/31/25 16:37	11/06/25 04:52	1

Lab Sample ID: LCS 280-720674/2-A

Matrix: Water

Analysis Batch: 721485

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 720674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1000	1060		ug/L		106	85 - 115
Calcium	50000	51100		ug/L		102	85 - 115
Iron	10000	10200		ug/L		102	85 - 115
Magnesium	50000	50300		ug/L		101	85 - 115
Manganese	1000	1020		ug/L		102	85 - 115
Sodium	50000	51700		ug/L		103	85 - 115

Lab Sample ID: 280-216096-E-1-B MS

Matrix: Water

Analysis Batch: 721485

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 720674

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		1000	1020		ug/L		102	75 - 125
Calcium	14000		50000	62200		ug/L		96	75 - 125
Iron	1100		10000	10700		ug/L		96	75 - 125
Magnesium	7200		50000	54800		ug/L		95	75 - 125
Manganese	200		1000	1160		ug/L		96	75 - 125
Sodium	39000		50000	88600		ug/L		100	75 - 125

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Method: 6010D - Metals (ICP)

Lab Sample ID: 280-216096-E-1-C MSD

Matrix: Water

Analysis Batch: 721485

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 720674

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		1000	1070		ug/L		107	75 - 125	5	20
Calcium	14000		50000	65500		ug/L		102	75 - 125	5	20
Iron	1100		10000	11300		ug/L		102	75 - 125	5	20
Magnesium	7200		50000	57800		ug/L		101	75 - 125	5	20
Manganese	200		1000	1220		ug/L		102	75 - 125	5	20
Sodium	39000		50000	93000		ug/L		109	75 - 125	5	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-720746/6

Matrix: Water

Analysis Batch: 720746

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/01/25 20:16	1

Lab Sample ID: LCS 280-720746/4

Matrix: Water

Analysis Batch: 720746

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	102		mg/L		102	90 - 110

Lab Sample ID: LCSD 280-720746/5

Matrix: Water

Analysis Batch: 720746

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	102		mg/L		102	90 - 110	0	10

Lab Sample ID: MRL 280-720746/3

Matrix: Water

Analysis Batch: 720746

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	3.30		mg/L		110	50 - 150

Lab Sample ID: 280-216039-K-5 MS

Matrix: Water

Analysis Batch: 720746

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	1300		1000	2290		mg/L		101	90 - 110

Lab Sample ID: 280-216039-K-5 MSD

Matrix: Water

Analysis Batch: 720746

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	1300		1000	2290		mg/L		101	90 - 110	0	15

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-216039-K-5 DU
Matrix: Water
Analysis Batch: 720746

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Chloride	1300		1290		mg/L		0.08	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-720866/62
Matrix: Water
Analysis Batch: 720866

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			11/01/25 00:45	1

Lab Sample ID: 280-215958-H-1 DU
Matrix: Water
Analysis Batch: 720866

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO3	1400		1410		mg/L		1	20

Lab Sample ID: MB 280-721296/62
Matrix: Water
Analysis Batch: 721296

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			11/05/25 03:32	1

Lab Sample ID: 280-216118-E-6 DU
Matrix: Water
Analysis Batch: 721296

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO3	640		640		mg/L		0.09	20

Lab Sample ID: MB 280-721504/62
Matrix: Water
Analysis Batch: 721504

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			11/06/25 03:51	1

Lab Sample ID: 280-216121-1 DU
Matrix: Water
Analysis Batch: 721504

Client Sample ID: MW-1D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO3	170		166		mg/L		0.2	20

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

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

Lab Sample ID: MB 280-720555/1

Matrix: Water

Analysis Batch: 720555

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	6.0	mg/L			10/31/25 09:33	1

Lab Sample ID: LCS 280-720555/2

Matrix: Water

Analysis Batch: 720555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	501	498		mg/L		99	88 - 114

Lab Sample ID: 280-216096-B-1 DU

Matrix: Water

Analysis Batch: 720555

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	180		174		mg/L		3	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-720598/1

Matrix: Water

Analysis Batch: 720598

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.5	mg/L			10/31/25 11:50	1

Lab Sample ID: LCS 280-720598/2

Matrix: Water

Analysis Batch: 720598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	501	481		mg/L		96	80 - 114

Lab Sample ID: 280-216067-A-1 DU

Matrix: Water

Analysis Batch: 720598

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	35		34.8		mg/L		0	10

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

GC/MS VOA

Analysis Batch: 721901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-1	MW-1D	Total/NA	Water	8260D	
280-216121-2	MW-11S	Total/NA	Water	8260D	
280-216121-3	MW-11D	Total/NA	Water	8260D	
MB 280-721901/10	Method Blank	Total/NA	Water	8260D	
LCS 280-721901/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-721901/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 720674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-1	MW-1D	Dissolved	Water	3005A	
280-216121-2	MW-11S	Dissolved	Water	3005A	
280-216121-3	MW-11D	Dissolved	Water	3005A	
MB 280-720674/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-720674/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-216096-E-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
280-216096-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 720687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-1	MW-1D	Total/NA	Water	200.8	
280-216121-2	MW-11S	Total/NA	Water	200.8	
280-216121-3	MW-11D	Total/NA	Water	200.8	
MB 280-720687/1-A	Method Blank	Total/NA	Water	200.8	
LCS 280-720687/2-A	Lab Control Sample	Total/NA	Water	200.8	
280-216082-A-1-B MS	Matrix Spike	Total/NA	Water	200.8	
280-216082-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 721203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-1	MW-1D	Total/NA	Water	200.8	720687
280-216121-2	MW-11S	Total/NA	Water	200.8	720687
280-216121-3	MW-11D	Total/NA	Water	200.8	720687
MB 280-720687/1-A	Method Blank	Total/NA	Water	200.8	720687
LCS 280-720687/2-A	Lab Control Sample	Total/NA	Water	200.8	720687
280-216082-A-1-B MS	Matrix Spike	Total/NA	Water	200.8	720687
280-216082-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	720687

Analysis Batch: 721424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-1	MW-1D	Total/NA	Water	200.8	720687
MB 280-720687/1-A	Method Blank	Total/NA	Water	200.8	720687
LCS 280-720687/2-A	Lab Control Sample	Total/NA	Water	200.8	720687
280-216082-A-1-B MS	Matrix Spike	Total/NA	Water	200.8	720687
280-216082-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	720687

Analysis Batch: 721485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-1	MW-1D	Dissolved	Water	6010D	720674
280-216121-2	MW-11S	Dissolved	Water	6010D	720674

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Metals (Continued)

Analysis Batch: 721485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-3	MW-11D	Dissolved	Water	6010D	720674
MB 280-720674/1-A	Method Blank	Total Recoverable	Water	6010D	720674
LCS 280-720674/2-A	Lab Control Sample	Total Recoverable	Water	6010D	720674
280-216096-E-1-B MS	Matrix Spike	Total Recoverable	Water	6010D	720674
280-216096-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010D	720674

General Chemistry

Analysis Batch: 720555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-1	MW-1D	Total/NA	Water	SM 2540C	
280-216121-2	MW-11S	Total/NA	Water	SM 2540C	
280-216121-3	MW-11D	Total/NA	Water	SM 2540C	
MB 280-720555/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-720555/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-216096-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 720598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-1	MW-1D	Total/NA	Water	SM 2540D	
280-216121-2	MW-11S	Total/NA	Water	SM 2540D	
280-216121-3	MW-11D	Total/NA	Water	SM 2540D	
MB 280-720598/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-720598/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-216067-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 720746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-1	MW-1D	Total/NA	Water	300.0	
280-216121-2	MW-11S	Total/NA	Water	300.0	
280-216121-3	MW-11D	Total/NA	Water	300.0	
MB 280-720746/6	Method Blank	Total/NA	Water	300.0	
LCS 280-720746/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-720746/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-720746/3	Lab Control Sample	Total/NA	Water	300.0	
280-216039-K-5 MS	Matrix Spike	Total/NA	Water	300.0	
280-216039-K-5 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-216039-K-5 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 720866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-3	MW-11D	Total/NA	Water	SM 2320B	
MB 280-720866/62	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-720866/60	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-720866/61	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-215958-H-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 721296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-2	MW-11S	Total/NA	Water	SM 2320B	
MB 280-721296/62	Method Blank	Total/NA	Water	SM 2320B	

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

General Chemistry (Continued)

Analysis Batch: 721296 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-721296/60	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-721296/61	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-216118-E-6 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 721504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216121-1	MW-1D	Total/NA	Water	SM 2320B	
MB 280-721504/62	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-721504/60	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-721504/61	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-216121-1 DU	MW-1D	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216121-1

Client Sample ID: MW-1D

Date Collected: 10/28/25 09:00

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-1

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	8260D		1	5 mL	5 mL	721901	11/10/25 15:10	MD	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	720687	10/31/25 17:57	SMK	EET DEN
Total/NA	Analysis	200.8		1			721203	11/05/25 05:21	LMT	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	720687	10/31/25 17:57	SMK	EET DEN
Total/NA	Analysis	200.8		1			721424	11/06/25 02:17	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720674	10/31/25 16:43	SMK	EET DEN
Dissolved	Analysis	6010D		1			721485	11/06/25 06:55	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720746	11/02/25 07:49	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721504	11/06/25 03:56	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	720555	10/31/25 09:33	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	720598	10/31/25 11:50	YBF	EET DEN

Client Sample ID: MW-11S

Date Collected: 10/28/25 12:50

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-2

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	8260D		1	5 mL	5 mL	721901	11/10/25 15:31	MD	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	720687	10/31/25 17:57	SMK	EET DEN
Total/NA	Analysis	200.8		1			721203	11/05/25 05:24	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720674	10/31/25 16:43	SMK	EET DEN
Dissolved	Analysis	6010D		1			721485	11/06/25 07:12	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720746	11/02/25 08:03	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721296	11/05/25 03:58	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	720555	10/31/25 09:33	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	720598	10/31/25 11:50	YBF	EET DEN

Client Sample ID: MW-11D

Date Collected: 10/28/25 13:20

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216121-3

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	8260D		1	5 mL	5 mL	721901	11/10/25 15:53	MD	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	720687	10/31/25 17:57	SMK	EET DEN
Total/NA	Analysis	200.8		1			721203	11/05/25 05:27	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720674	10/31/25 16:43	SMK	EET DEN
Dissolved	Analysis	6010D		1			721485	11/06/25 07:16	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720746	11/02/25 08:17	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			720866	11/01/25 02:59	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	720555	10/31/25 09:33	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	720598	10/31/25 11:50	YBF	EET DEN

Laboratory References:

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

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Chain of Custody Record

Client Information Client Contact:		Sampler: Nick Rudolph Phone: 503 580 6462		Lab PM: Collins, Janice S E-Mail: Janice.Collins@eurofins.com		Carrier Tracking No(s): COC No: 280-97584-22898.1 Page:			
Company: Valley Landfills, Inc. Republic Services Address: 28972 Coffin Butte Road City: Corvallis State, Zip: OR, 97330 Phone: 503-675-1335(Tel) Email:		Due Date Requested: TAT Requested (days): 30 Compliance Project: ☐ Yes ☒ No PO #: PO# 1584668 WO #:		Project #: 28003197 "GW_SLCS_Leachate" SSOW#:		Analysis Requested Perform MS/MSD (Yes or No) ☒ Field Filtered Sample (Yes or No) ☒ 2320B - Bicarb Alkalinity ☒ 2540C/300 - TDS/Chloride ☒ 6010D - Dissolved Metals - GW (6) (FF) ☒ 200.8 - Total Metals T1 list ☒ 2540D - TSS ☒ 8260D - VOCs ☒		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification MW-1D MW-11S MW-11D		Sample Date 10/28 1250 1320		Sample Type G G G		Matrix (W=water, S=solid, O=organic, BT=liquid, A=air) W 		Preservation Code: W 	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months		Special Instructions/Note: 280-216121 Chain of Custody			
Empty Kit Relinquished by:		Date:		Method of Shipment:		Relinquished by:			
Relinquished by:		Date/Time: 10/29/25/14/5		Company: GHA		Received by:			
Relinquished by:		Date/Time:		Company:		Received by:			
Relinquished by:		Date/Time:		Company:		Received by:			
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: T 1.3 CF 0.2 I.P.A.B.V		Company:			

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-216121-1

Login Number: 216121

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

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	

ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761
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JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-216229-1

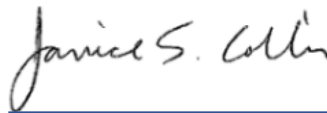
Eurofins Denver

Job Notes

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Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Job ID: 280-216229-1

Eurofins Denver

Job Narrative 280-216229-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/30/2025 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 time was 1.0°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-721873 recovered outside acceptance criteria, low biased, for Bromomethane and Chloromethane. These are considered poor performers and the LCS and LCSD are within control limits. 280-216229-1, 280-216229-2, 280-216229-3, 280-216229-4, 280-216229-5, 280-216229-6 and CCVIS 280-721873/2

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-721873. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 280-216229-1, 280-216229-2, 280-216229-3, 280-216229-4, 280-216229-5 and 280-216229-6

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

Metals

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

General Chemistry

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

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Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Client Sample ID: MW-3D

Lab Sample ID: 280-216229-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.68	J	2.0	0.50	ug/L	1		200.8	Total/NA
Barium	5.6		2.0	0.55	ug/L	1		200.8	Total/NA
Calcium	43000		200	60	ug/L	1		6010D	Dissolved
Magnesium	19000		200	50	ug/L	1		6010D	Dissolved
Sodium	21000		1000	450	ug/L	1		6010D	Dissolved
Chloride	52		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	150		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	290		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-10D

Lab Sample ID: 280-216229-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.66	J	2.0	0.50	ug/L	1		200.8	Total/NA
Nickel	9.1		3.0	1.0	ug/L	1		200.8	Total/NA
Barium	7.7		2.0	0.55	ug/L	1		200.8	Total/NA
Calcium	110000		200	60	ug/L	1		6010D	Dissolved
Iron	56	J	100	40	ug/L	1		6010D	Dissolved
Magnesium	34000		200	50	ug/L	1		6010D	Dissolved
Manganese	60		10	2.5	ug/L	1		6010D	Dissolved
Sodium	34000		1000	450	ug/L	1		6010D	Dissolved
Chloride	79		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	340		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	530		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-26

Lab Sample ID: 280-216229-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		2.0	0.50	ug/L	1		200.8	Total/NA
Barium	27		2.0	0.55	ug/L	1		200.8	Total/NA
Zinc	49		10	5.0	ug/L	1		200.8	Total/NA
Arsenic	17		15	5.0	ug/L	1		6010D	Dissolved
Calcium	25000		200	60	ug/L	1		6010D	Dissolved
Iron	510		100	40	ug/L	1		6010D	Dissolved
Magnesium	9700		200	50	ug/L	1		6010D	Dissolved
Manganese	690		10	2.5	ug/L	1		6010D	Dissolved
Sodium	28000		1000	450	ug/L	1		6010D	Dissolved
Chloride	5.7		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	150		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	210		10	6.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	8.4		4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-27

Lab Sample ID: 280-216229-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	30		2.0	0.50	ug/L	1		200.8	Total/NA
Lead	2.0		1.0	0.50	ug/L	1		200.8	Total/NA
Nickel	4.5		3.0	1.0	ug/L	1		200.8	Total/NA
Barium	110		2.0	0.55	ug/L	1		200.8	Total/NA
Zinc	15		10	5.0	ug/L	1		200.8	Total/NA
Arsenic	35		15	5.0	ug/L	1		6010D	Dissolved
Calcium	83000		200	60	ug/L	1		6010D	Dissolved
Iron	5500		100	40	ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Client Sample ID: MW-27 (Continued)

Lab Sample ID: 280-216229-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	35000		200	50	ug/L	1		6010D	Dissolved
Manganese	9000		10	2.5	ug/L	1		6010D	Dissolved
Sodium	38000		1000	450	ug/L	1		6010D	Dissolved
Chloride	14		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	420		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	460		10	6.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	53		4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: DUPLICATE

Lab Sample ID: 280-216229-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.69	J	2.0	0.50	ug/L	1		200.8	Total/NA
Barium	5.6		2.0	0.55	ug/L	1		200.8	Total/NA
Zinc	5.7	J	10	5.0	ug/L	1		200.8	Total/NA
Calcium	44000		200	60	ug/L	1		6010D	Dissolved
Magnesium	19000		200	50	ug/L	1		6010D	Dissolved
Sodium	21000		1000	450	ug/L	1		6010D	Dissolved
Chloride	52		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	160		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	290		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-12D

Lab Sample ID: 280-216229-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.97	J	1.0	0.25	ug/L	1		8260D	Total/NA
Arsenic	0.74	J	2.0	0.50	ug/L	1		200.8	Total/NA
Selenium	0.71	J	2.0	0.50	ug/L	1		200.8	Total/NA
Calcium	25000		200	60	ug/L	1		6010D	Dissolved
Magnesium	12000		200	50	ug/L	1		6010D	Dissolved
Sodium	24000		1000	450	ug/L	1		6010D	Dissolved
Chloride	7.3		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	140		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	200		10	6.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
200.8	Preparation, Total Metals	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Geo-Logic Associates

Job ID: 280-216229-1

Project/Site: Valley LF - Republic Serv Coffin Butte

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
280-216229-1	MW-3D	Water	10/28/25 10:45	10/30/25 09:10	Oregon
280-216229-2	MW-10D	Water	10/28/25 12:00	10/30/25 09:10	Oregon
280-216229-3	MW-26	Water	10/28/25 15:05	10/30/25 09:10	Oregon
280-216229-4	MW-27	Water	10/28/25 14:15	10/30/25 09:10	Oregon
280-216229-5	DUPLICATE	Water	10/28/25 07:00	10/30/25 09:10	Oregon
280-216229-6	MW-12D	Water	10/28/25 09:55	10/30/25 09:10	Oregon

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: MW-3D

Date Collected: 10/28/25 10:45

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/09/25 11:22	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/09/25 11:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/09/25 11:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/09/25 11:22	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/09/25 11:22	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
2-Hexanone	ND		5.0	1.5	ug/L			11/09/25 11:22	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/09/25 11:22	1
Acetone	ND		15	5.0	ug/L			11/09/25 11:22	1
Benzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Bromobenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Bromoform	ND		2.0	0.50	ug/L			11/09/25 11:22	1
Bromomethane	ND		5.0	2.5	ug/L			11/09/25 11:22	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/09/25 11:22	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Chloroethane	ND		2.0	0.50	ug/L			11/09/25 11:22	1
Chloroform	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Chloromethane	ND		2.0	0.50	ug/L			11/09/25 11:22	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Dibromomethane	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/09/25 11:22	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/09/25 11:22	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/09/25 11:22	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Client Sample ID: MW-3D

Date Collected: 10/28/25 10:45

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/09/25 11:22	1
Naphthalene	ND		3.0	1.0	ug/L			11/09/25 11:22	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
o-Xylene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Styrene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Toluene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Trichloroethene	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/09/25 11:22	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/09/25 11:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120					11/09/25 11:22	1
4-Bromofluorobenzene (Surr)	98		80 - 120					11/09/25 11:22	1
Dibromofluoromethane (Surr)	95		80 - 120					11/09/25 11:22	1
Toluene-d8 (Surr)	96		80 - 120					11/09/25 11:22	1

Client Sample ID: MW-10D

Date Collected: 10/28/25 12:00

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/09/25 11:43	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/09/25 11:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/09/25 11:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/09/25 11:43	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/09/25 11:43	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
2-Hexanone	ND		5.0	1.5	ug/L			11/09/25 11:43	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Client Sample ID: MW-10D
Date Collected: 10/28/25 12:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/09/25 11:43	1
Acetone	ND		15	5.0	ug/L			11/09/25 11:43	1
Benzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Bromobenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Bromoform	ND		2.0	0.50	ug/L			11/09/25 11:43	1
Bromomethane	ND		5.0	2.5	ug/L			11/09/25 11:43	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/09/25 11:43	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Chloroethane	ND		2.0	0.50	ug/L			11/09/25 11:43	1
Chloroform	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Chloromethane	ND		2.0	0.50	ug/L			11/09/25 11:43	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Dibromomethane	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/09/25 11:43	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/09/25 11:43	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/09/25 11:43	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/09/25 11:43	1
Naphthalene	ND		3.0	1.0	ug/L			11/09/25 11:43	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
o-Xylene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Styrene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Toluene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Trichloroethene	ND		1.0	0.25	ug/L			11/09/25 11:43	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/09/25 11:43	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/09/25 11:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		11/09/25 11:43	1
4-Bromofluorobenzene (Surr)	98		80 - 120		11/09/25 11:43	1
Dibromofluoromethane (Surr)	94		80 - 120		11/09/25 11:43	1
Toluene-d8 (Surr)	95		80 - 120		11/09/25 11:43	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: MW-26

Date Collected: 10/28/25 15:05

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/09/25 12:04	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/09/25 12:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/09/25 12:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/09/25 12:04	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/09/25 12:04	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
2-Hexanone	ND		5.0	1.5	ug/L			11/09/25 12:04	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/09/25 12:04	1
Acetone	ND		15	5.0	ug/L			11/09/25 12:04	1
Benzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Bromobenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Bromoform	ND		2.0	0.50	ug/L			11/09/25 12:04	1
Bromomethane	ND		5.0	2.5	ug/L			11/09/25 12:04	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/09/25 12:04	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Chloroethane	ND		2.0	0.50	ug/L			11/09/25 12:04	1
Chloroform	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Chloromethane	ND		2.0	0.50	ug/L			11/09/25 12:04	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Dibromomethane	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/09/25 12:04	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/09/25 12:04	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/09/25 12:04	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Client Sample ID: MW-26

Date Collected: 10/28/25 15:05

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/09/25 12:04	1
Naphthalene	ND		3.0	1.0	ug/L			11/09/25 12:04	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
o-Xylene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Styrene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Toluene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Trichloroethene	ND		1.0	0.25	ug/L			11/09/25 12:04	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/09/25 12:04	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/09/25 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		11/09/25 12:04	1
4-Bromofluorobenzene (Surr)	100		80 - 120		11/09/25 12:04	1
Dibromofluoromethane (Surr)	94		80 - 120		11/09/25 12:04	1
Toluene-d8 (Surr)	97		80 - 120		11/09/25 12:04	1

Client Sample ID: MW-27

Date Collected: 10/28/25 14:15

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/09/25 13:30	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/09/25 13:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/09/25 13:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/09/25 13:30	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/09/25 13:30	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
2-Hexanone	ND		5.0	1.5	ug/L			11/09/25 13:30	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Client Sample ID: MW-27

Date Collected: 10/28/25 14:15

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/09/25 13:30	1
Acetone	ND		15	5.0	ug/L			11/09/25 13:30	1
Benzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Bromobenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Bromoform	ND		2.0	0.50	ug/L			11/09/25 13:30	1
Bromomethane	ND		5.0	2.5	ug/L			11/09/25 13:30	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/09/25 13:30	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Chloroethane	ND		2.0	0.50	ug/L			11/09/25 13:30	1
Chloroform	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Chloromethane	ND		2.0	0.50	ug/L			11/09/25 13:30	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Dibromomethane	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/09/25 13:30	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/09/25 13:30	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/09/25 13:30	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/09/25 13:30	1
Naphthalene	ND		3.0	1.0	ug/L			11/09/25 13:30	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
o-Xylene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Styrene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Toluene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Trichloroethene	ND		1.0	0.25	ug/L			11/09/25 13:30	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/09/25 13:30	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/09/25 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		11/09/25 13:30	1
4-Bromofluorobenzene (Surr)	100		80 - 120		11/09/25 13:30	1
Dibromofluoromethane (Surr)	94		80 - 120		11/09/25 13:30	1
Toluene-d8 (Surr)	97		80 - 120		11/09/25 13:30	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: DUPLICATE
Date Collected: 10/28/25 07:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/09/25 13:51	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/09/25 13:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/09/25 13:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/09/25 13:51	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/09/25 13:51	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
2-Hexanone	ND		5.0	1.5	ug/L			11/09/25 13:51	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/09/25 13:51	1
Acetone	ND		15	5.0	ug/L			11/09/25 13:51	1
Benzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Bromobenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Bromoform	ND		2.0	0.50	ug/L			11/09/25 13:51	1
Bromomethane	ND		5.0	2.5	ug/L			11/09/25 13:51	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/09/25 13:51	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Chloroethane	ND		2.0	0.50	ug/L			11/09/25 13:51	1
Chloroform	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Chloromethane	ND		2.0	0.50	ug/L			11/09/25 13:51	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Dibromomethane	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/09/25 13:51	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/09/25 13:51	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/09/25 13:51	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Client Sample ID: DUPLICATE
Date Collected: 10/28/25 07:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/09/25 13:51	1
Naphthalene	ND		3.0	1.0	ug/L			11/09/25 13:51	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
o-Xylene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Styrene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Toluene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Trichloroethene	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/09/25 13:51	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/09/25 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120					11/09/25 13:51	1
4-Bromofluorobenzene (Surr)	101		80 - 120					11/09/25 13:51	1
Dibromofluoromethane (Surr)	92		80 - 120					11/09/25 13:51	1
Toluene-d8 (Surr)	96		80 - 120					11/09/25 13:51	1

Client Sample ID: MW-12D
Date Collected: 10/28/25 09:55
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/09/25 14:12	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/09/25 14:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/09/25 14:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/09/25 14:12	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/09/25 14:12	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
2-Hexanone	ND		5.0	1.5	ug/L			11/09/25 14:12	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Client Sample ID: MW-12D

Date Collected: 10/28/25 09:55

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/09/25 14:12	1
Acetone	ND		15	5.0	ug/L			11/09/25 14:12	1
Benzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Bromobenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Bromoform	ND		2.0	0.50	ug/L			11/09/25 14:12	1
Bromomethane	ND		5.0	2.5	ug/L			11/09/25 14:12	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/09/25 14:12	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Chloroethane	ND		2.0	0.50	ug/L			11/09/25 14:12	1
Chloroform	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Chloromethane	ND		2.0	0.50	ug/L			11/09/25 14:12	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Dibromomethane	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/09/25 14:12	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/09/25 14:12	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/09/25 14:12	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/09/25 14:12	1
Naphthalene	ND		3.0	1.0	ug/L			11/09/25 14:12	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
o-Xylene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Styrene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Tetrachloroethene	0.97 J		1.0	0.25	ug/L			11/09/25 14:12	1
Toluene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Trichloroethene	ND		1.0	0.25	ug/L			11/09/25 14:12	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/09/25 14:12	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/09/25 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		11/09/25 14:12	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/09/25 14:12	1
Dibromofluoromethane (Surr)	94		80 - 120		11/09/25 14:12	1
Toluene-d8 (Surr)	95		80 - 120		11/09/25 14:12	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: EPA 200.8 - Metals (ICP/MS)

Client Sample ID: MW-3D
Date Collected: 10/28/25 10:45
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:23	1
Arsenic	0.68	J	2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:23	1
Lead	ND		1.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:23	1
Nickel	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:23	1
Barium	5.6		2.0	0.55	ug/L		11/03/25 16:02	11/09/25 17:23	1
Selenium	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:23	1
Chromium	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:23	1
Zinc	ND		10	5.0	ug/L		11/03/25 16:02	11/09/25 17:23	1

Client Sample ID: MW-10D
Date Collected: 10/28/25 12:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:26	1
Arsenic	0.66	J	2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:26	1
Lead	ND		1.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:26	1
Nickel	9.1		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:26	1
Barium	7.7		2.0	0.55	ug/L		11/03/25 16:02	11/09/25 17:26	1
Selenium	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:26	1
Chromium	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:26	1
Zinc	ND		10	5.0	ug/L		11/03/25 16:02	11/09/25 17:26	1

Client Sample ID: MW-26
Date Collected: 10/28/25 15:05
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:29	1
Arsenic	14		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:29	1
Lead	ND		1.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:29	1
Nickel	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:29	1
Barium	27		2.0	0.55	ug/L		11/03/25 16:02	11/09/25 17:29	1
Selenium	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:29	1
Chromium	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:29	1
Zinc	49		10	5.0	ug/L		11/03/25 16:02	11/09/25 17:29	1

Client Sample ID: MW-27
Date Collected: 10/28/25 14:15
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:31	1
Arsenic	30		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:31	1
Lead	2.0		1.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:31	1
Nickel	4.5		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:31	1
Barium	110		2.0	0.55	ug/L		11/03/25 16:02	11/09/25 17:31	1
Selenium	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:31	1
Chromium	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:31	1
Zinc	15		10	5.0	ug/L		11/03/25 16:02	11/09/25 17:31	1

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: EPA 200.8 - Metals (ICP/MS)

Client Sample ID: DUPLICATE
Date Collected: 10/28/25 07:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:40	1
Arsenic	0.69	J	2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:40	1
Lead	ND		1.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:40	1
Nickel	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:40	1
Barium	5.6		2.0	0.55	ug/L		11/03/25 16:02	11/09/25 17:40	1
Selenium	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:40	1
Chromium	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:40	1
Zinc	5.7	J	10	5.0	ug/L		11/03/25 16:02	11/09/25 17:40	1

Client Sample ID: MW-12D
Date Collected: 10/28/25 09:55
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:43	1
Arsenic	0.74	J	2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:43	1
Lead	ND		1.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:43	1
Nickel	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:43	1
Barium	ND		2.0	0.55	ug/L		11/03/25 16:02	11/09/25 17:43	1
Selenium	0.71	J	2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:43	1
Chromium	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:43	1
Zinc	ND		10	5.0	ug/L		11/03/25 16:02	11/09/25 17:43	1

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

Client Sample ID: MW-3D
Date Collected: 10/28/25 10:45
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/03/25 16:14	11/05/25 12:24	1
Calcium	43000		200	60	ug/L		11/03/25 16:14	11/05/25 12:24	1
Iron	ND		100	40	ug/L		11/03/25 16:14	11/05/25 12:24	1
Magnesium	19000		200	50	ug/L		11/03/25 16:14	11/05/25 12:24	1
Manganese	ND		10	2.5	ug/L		11/03/25 16:14	11/05/25 12:24	1
Sodium	21000		1000	450	ug/L		11/03/25 16:14	11/05/25 12:24	1

Client Sample ID: MW-10D
Date Collected: 10/28/25 12:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/03/25 16:14	11/05/25 12:28	1
Calcium	110000		200	60	ug/L		11/03/25 16:14	11/05/25 12:28	1
Iron	56	J	100	40	ug/L		11/03/25 16:14	11/05/25 12:28	1
Magnesium	34000		200	50	ug/L		11/03/25 16:14	11/05/25 12:28	1
Manganese	60		10	2.5	ug/L		11/03/25 16:14	11/05/25 12:28	1
Sodium	34000		1000	450	ug/L		11/03/25 16:14	11/05/25 12:28	1

Client Sample ID: MW-26
Date Collected: 10/28/25 15:05
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		15	5.0	ug/L		11/03/25 16:14	11/05/25 12:33	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Client Sample ID: MW-26
Date Collected: 10/28/25 15:05
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	25000		200	60	ug/L		11/03/25 16:14	11/05/25 12:33	1
Iron	510		100	40	ug/L		11/03/25 16:14	11/05/25 12:33	1
Magnesium	9700		200	50	ug/L		11/03/25 16:14	11/05/25 12:33	1
Manganese	690		10	2.5	ug/L		11/03/25 16:14	11/05/25 12:33	1
Sodium	28000		1000	450	ug/L		11/03/25 16:14	11/05/25 12:33	1

Client Sample ID: MW-27
Date Collected: 10/28/25 14:15
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	35		15	5.0	ug/L		11/03/25 16:14	11/05/25 12:37	1
Calcium	83000		200	60	ug/L		11/03/25 16:14	11/05/25 12:37	1
Iron	5500		100	40	ug/L		11/03/25 16:14	11/05/25 12:37	1
Magnesium	35000		200	50	ug/L		11/03/25 16:14	11/05/25 12:37	1
Manganese	9000		10	2.5	ug/L		11/03/25 16:14	11/05/25 12:37	1
Sodium	38000		1000	450	ug/L		11/03/25 16:14	11/05/25 12:37	1

Client Sample ID: DUPLICATE
Date Collected: 10/28/25 07:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/03/25 16:14	11/05/25 13:11	1
Calcium	44000		200	60	ug/L		11/03/25 16:14	11/05/25 13:11	1
Iron	ND		100	40	ug/L		11/03/25 16:14	11/05/25 13:11	1
Magnesium	19000		200	50	ug/L		11/03/25 16:14	11/05/25 13:11	1
Manganese	ND		10	2.5	ug/L		11/03/25 16:14	11/05/25 13:11	1
Sodium	21000		1000	450	ug/L		11/03/25 16:14	11/05/25 13:11	1

Client Sample ID: MW-12D
Date Collected: 10/28/25 09:55
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/03/25 16:14	11/05/25 13:16	1
Calcium	25000		200	60	ug/L		11/03/25 16:14	11/05/25 13:16	1
Iron	ND		100	40	ug/L		11/03/25 16:14	11/05/25 13:16	1
Magnesium	12000		200	50	ug/L		11/03/25 16:14	11/05/25 13:16	1
Manganese	ND		10	2.5	ug/L		11/03/25 16:14	11/05/25 13:16	1
Sodium	24000		1000	450	ug/L		11/03/25 16:14	11/05/25 13:16	1

General Chemistry

Client Sample ID: MW-3D
Date Collected: 10/28/25 10:45
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	52		3.0	1.3	mg/L			11/04/25 01:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	150		10	7.0	mg/L			11/05/25 06:08	1
Total Dissolved Solids (SM 2540C)	290		10	6.0	mg/L			11/03/25 09:59	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/03/25 14:48	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

General Chemistry

Client Sample ID: MW-10D
Date Collected: 10/28/25 12:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	79		3.0	1.3	mg/L			11/04/25 01:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	340		10	7.0	mg/L			11/05/25 06:14	1
Total Dissolved Solids (SM 2540C)	530		10	6.0	mg/L			11/03/25 09:59	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/03/25 14:48	1

Client Sample ID: MW-26
Date Collected: 10/28/25 15:05
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	5.7		3.0	1.3	mg/L			11/04/25 02:11	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	150		10	7.0	mg/L			11/05/25 06:19	1
Total Dissolved Solids (SM 2540C)	210		10	6.0	mg/L			11/03/25 09:59	1
Total Suspended Solids (SM 2540D)	8.4		4.0	1.5	mg/L			11/03/25 14:48	1

Client Sample ID: MW-27
Date Collected: 10/28/25 14:15
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	14		3.0	1.3	mg/L			11/04/25 02:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	420		10	7.0	mg/L			11/05/25 07:20	1
Total Dissolved Solids (SM 2540C)	460		10	6.0	mg/L			11/03/25 09:59	1
Total Suspended Solids (SM 2540D)	53		4.0	1.5	mg/L			11/03/25 14:48	1

Client Sample ID: DUPLICATE
Date Collected: 10/28/25 07:00
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	52		3.0	1.3	mg/L			11/04/25 02:40	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	160		10	7.0	mg/L			11/05/25 07:26	1
Total Dissolved Solids (SM 2540C)	290		10	6.0	mg/L			11/03/25 09:59	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/03/25 14:48	1

Client Sample ID: MW-12D
Date Collected: 10/28/25 09:55
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	7.3		3.0	1.3	mg/L			11/04/25 02:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	140		10	7.0	mg/L			11/05/25 07:31	1
Total Dissolved Solids (SM 2540C)	200		10	6.0	mg/L			11/03/25 09:59	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/03/25 14:48	1

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(80-120)	(80-120)	(80-120)	(80-120)
280-216229-1	MW-3D	105	98	95	96
280-216229-2	MW-10D	106	98	94	95
280-216229-3	MW-26	106	100	94	97
280-216229-4	MW-27	104	100	94	97
280-216229-5	DUPLICATE	102	101	92	96
280-216229-6	MW-12D	105	99	94	95
LCS 280-721873/4	Lab Control Sample	108	99	101	94
LCSD 280-721873/5	Lab Control Sample Dup	104	97	101	96
MB 280-721873/10	Method Blank	107	99	96	96
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-721873/10

Matrix: Water

Analysis Batch: 721873

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/09/25 10:28	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/09/25 10:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/09/25 10:28	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/09/25 10:28	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/09/25 10:28	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
2-Hexanone	ND		5.0	1.5	ug/L			11/09/25 10:28	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/09/25 10:28	1
Acetone	ND		15	5.0	ug/L			11/09/25 10:28	1
Benzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Bromobenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Bromoform	ND		2.0	0.50	ug/L			11/09/25 10:28	1
Bromomethane	ND		5.0	2.5	ug/L			11/09/25 10:28	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/09/25 10:28	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Chloroethane	ND		2.0	0.50	ug/L			11/09/25 10:28	1
Chloroform	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Chloromethane	ND		2.0	0.50	ug/L			11/09/25 10:28	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Dibromomethane	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/09/25 10:28	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/09/25 10:28	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Lab Sample ID: MB 280-721873/10

Matrix: Water

Analysis Batch: 721873

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	1.0	ug/L			11/09/25 10:28	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/09/25 10:28	1
Naphthalene	ND		3.0	1.0	ug/L			11/09/25 10:28	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
o-Xylene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Styrene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Toluene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Trichloroethene	ND		1.0	0.25	ug/L			11/09/25 10:28	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/09/25 10:28	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/09/25 10:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		11/09/25 10:28	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/09/25 10:28	1
Dibromofluoromethane (Surr)	96		80 - 120		11/09/25 10:28	1
Toluene-d8 (Surr)	96		80 - 120		11/09/25 10:28	1

Lab Sample ID: LCS 280-721873/4

Matrix: Water

Analysis Batch: 721873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	41.6		ug/L		83	79 - 125
1,1,1-Trichloroethane	50.0	45.0		ug/L		90	78 - 125
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	73 - 126
1,1,2-Trichloroethane	50.0	45.4		ug/L		91	80 - 121
1,1-Dichloroethane	50.0	43.6		ug/L		87	78 - 124
1,1-Dichloroethene	50.0	42.7		ug/L		85	76 - 124
1,1-Dichloropropene	50.0	43.8		ug/L		88	80 - 124
1,2,3-Trichlorobenzene	50.0	42.9		ug/L		86	57 - 136
1,2,3-Trichloropropane	50.0	49.4		ug/L		99	75 - 123
1,2,4-Trichlorobenzene	50.0	42.5		ug/L		85	69 - 130
1,2,4-Trimethylbenzene	50.0	45.4		ug/L		91	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	64 - 130
1,2-Dibromoethane	50.0	46.3		ug/L		93	80 - 120
1,2-Dichlorobenzene	50.0	45.8		ug/L		92	80 - 120
1,2-Dichloroethane	50.0	53.1		ug/L		106	73 - 124
1,2-Dichloropropane	50.0	43.2		ug/L		86	78 - 124
1,3,5-Trimethylbenzene	50.0	44.5		ug/L		89	80 - 122
1,3-Dichlorobenzene	50.0	45.9		ug/L		92	80 - 120
1,3-Dichloropropane	50.0	42.8		ug/L		86	80 - 121
1,4-Dichlorobenzene	50.0	44.3		ug/L		89	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Lab Sample ID: LCS 280-721873/4

Matrix: Water

Analysis Batch: 721873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	50.0	45.1		ug/L		90	72 - 131
2-Butanone (MEK)	200	173		ug/L		87	59 - 141
2-Chlorotoluene	50.0	45.0		ug/L		90	80 - 120
2-Hexanone	200	182		ug/L		91	59 - 146
4-Chlorotoluene	50.0	45.9		ug/L		92	80 - 121
4-Isopropyltoluene	50.0	43.5		ug/L		87	80 - 124
4-Methyl-2-pentanone (MIBK)	200	184		ug/L		92	63 - 144
Acetone	200	193		ug/L		96	57 - 143
Benzene	50.0	44.5		ug/L		89	80 - 121
Bromobenzene	50.0	46.6		ug/L		93	80 - 120
Bromochloromethane	50.0	51.0		ug/L		102	76 - 126
Bromodichloromethane	50.0	47.5		ug/L		95	80 - 124
Bromoform	50.0	44.5		ug/L		89	66 - 134
Bromomethane	50.0	31.3		ug/L		63	10 - 150
Carbon disulfide	50.0	41.8		ug/L		84	70 - 127
Carbon tetrachloride	50.0	41.6		ug/L		83	72 - 131
Chlorobenzene	50.0	44.6		ug/L		89	80 - 120
Chloroethane	50.0	42.4		ug/L		85	51 - 149
Chloroform	50.0	47.4		ug/L		95	80 - 120
Chloromethane	50.0	34.6		ug/L		69	51 - 142
cis-1,2-Dichloroethene	50.0	45.1		ug/L		90	80 - 121
cis-1,3-Dichloropropene	50.0	42.7		ug/L		85	77 - 127
Dibromochloromethane	50.0	50.5		ug/L		101	77 - 128
Dibromomethane	50.0	47.1		ug/L		94	80 - 120
Dichlorodifluoromethane	50.0	46.3		ug/L		93	36 - 150
Ethylbenzene	50.0	43.6		ug/L		87	80 - 120
Hexachlorobutadiene	50.0	40.6		ug/L		81	66 - 135
Isopropylbenzene	50.0	45.4		ug/L		91	78 - 123
Methylene Chloride	50.0	44.3		ug/L		89	77 - 121
m-Xylene & p-Xylene	50.0	43.6		ug/L		87	80 - 121
Naphthalene	50.0	44.0		ug/L		88	55 - 135
n-Butylbenzene	50.0	44.1		ug/L		88	73 - 131
N-Propylbenzene	50.0	43.7		ug/L		87	80 - 123
o-Xylene	50.0	44.0		ug/L		88	80 - 121
sec-Butylbenzene	50.0	42.1		ug/L		84	80 - 125
Styrene	50.0	44.5		ug/L		89	80 - 123
tert-Butylbenzene	50.0	43.4		ug/L		87	80 - 121
Tetrachloroethene	50.0	43.1		ug/L		86	79 - 125
Toluene	50.0	45.2		ug/L		90	80 - 120
trans-1,2-Dichloroethene	50.0	44.8		ug/L		90	78 - 123
trans-1,3-Dichloropropene	50.0	43.8		ug/L		88	79 - 124
Trichloroethene	50.0	46.9		ug/L		94	79 - 121
Trichlorofluoromethane	50.0	50.8		ug/L		102	60 - 139
Vinyl chloride	50.0	44.3		ug/L		89	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Lab Sample ID: LCS 280-721873/4

Matrix: Water

Analysis Batch: 721873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: LCSD 280-721873/5

Matrix: Water

Analysis Batch: 721873

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	43.3		ug/L		87	79 - 125	4	20
1,1,1-Trichloroethane	50.0	47.6		ug/L		95	78 - 125	5	20
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	73 - 126	0	20
1,1,2-Trichloroethane	50.0	45.7		ug/L		91	80 - 121	1	20
1,1-Dichloroethane	50.0	44.6		ug/L		89	78 - 124	2	20
1,1-Dichloroethene	50.0	44.9		ug/L		90	76 - 124	5	20
1,1-Dichloropropene	50.0	46.4		ug/L		93	80 - 124	6	20
1,2,3-Trichlorobenzene	50.0	48.2		ug/L		96	57 - 136	12	21
1,2,3-Trichloropropane	50.0	50.4		ug/L		101	75 - 123	2	26
1,2,4-Trichlorobenzene	50.0	48.4		ug/L		97	69 - 130	13	20
1,2,4-Trimethylbenzene	50.0	50.3		ug/L		101	80 - 123	10	20
1,2-Dibromo-3-Chloropropane	50.0	50.9		ug/L		102	64 - 130	1	20
1,2-Dibromoethane	50.0	46.7		ug/L		93	80 - 120	1	20
1,2-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120	6	20
1,2-Dichloroethane	50.0	53.4		ug/L		107	73 - 124	1	20
1,2-Dichloropropane	50.0	44.7		ug/L		89	78 - 124	3	20
1,3,5-Trimethylbenzene	50.0	50.0		ug/L		100	80 - 122	12	20
1,3-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120	7	20
1,3-Dichloropropane	50.0	43.8		ug/L		88	80 - 121	2	20
1,4-Dichlorobenzene	50.0	47.8		ug/L		96	80 - 120	8	20
2,2-Dichloropropane	50.0	47.2		ug/L		94	72 - 131	5	20
2-Butanone (MEK)	200	174		ug/L		87	59 - 141	1	20
2-Chlorotoluene	50.0	49.3		ug/L		99	80 - 120	9	20
2-Hexanone	200	185		ug/L		92	59 - 146	2	20
4-Chlorotoluene	50.0	49.4		ug/L		99	80 - 121	7	20
4-Isopropyltoluene	50.0	50.1		ug/L		100	80 - 124	14	20
4-Methyl-2-pentanone (MIBK)	200	183		ug/L		92	63 - 144	1	20
Acetone	200	198		ug/L		99	57 - 143	3	22
Benzene	50.0	45.9		ug/L		92	80 - 121	3	20
Bromobenzene	50.0	49.3		ug/L		99	80 - 120	6	20
Bromochloromethane	50.0	50.6		ug/L		101	76 - 126	1	20
Bromodichloromethane	50.0	48.6		ug/L		97	80 - 124	2	20
Bromoform	50.0	44.6		ug/L		89	66 - 134	0	20
Bromomethane	50.0	35.5		ug/L		71	10 - 150	12	58
Carbon disulfide	50.0	43.5		ug/L		87	70 - 127	4	20
Carbon tetrachloride	50.0	44.4		ug/L		89	72 - 131	6	20
Chlorobenzene	50.0	46.6		ug/L		93	80 - 120	4	20
Chloroethane	50.0	43.6		ug/L		87	51 - 149	3	34
Chloroform	50.0	48.8		ug/L		98	80 - 120	3	20
Chloromethane	50.0	34.8		ug/L		70	51 - 142	1	21

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Lab Sample ID: LCSD 280-721873/5

Matrix: Water

Analysis Batch: 721873

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	50.0	46.4		ug/L		93	80 - 121	3	20
cis-1,3-Dichloropropene	50.0	44.3		ug/L		89	77 - 127	3	20
Dibromochloromethane	50.0	50.5		ug/L		101	77 - 128	0	20
Dibromomethane	50.0	47.1		ug/L		94	80 - 120	0	20
Dichlorodifluoromethane	50.0	48.1		ug/L		96	36 - 150	4	35
Ethylbenzene	50.0	47.6		ug/L		95	80 - 120	9	20
Hexachlorobutadiene	50.0	46.1		ug/L		92	66 - 135	13	20
Isopropylbenzene	50.0	50.2		ug/L		100	78 - 123	10	20
Methylene Chloride	50.0	46.3		ug/L		93	77 - 121	4	20
m-Xylene & p-Xylene	50.0	46.3		ug/L		93	80 - 121	6	20
Naphthalene	50.0	47.7		ug/L		95	55 - 135	8	23
n-Butylbenzene	50.0	51.0		ug/L		102	73 - 131	14	25
N-Propylbenzene	50.0	49.3		ug/L		99	80 - 123	12	20
o-Xylene	50.0	46.5		ug/L		93	80 - 121	6	20
sec-Butylbenzene	50.0	48.7		ug/L		97	80 - 125	14	20
Styrene	50.0	46.2		ug/L		92	80 - 123	4	20
tert-Butylbenzene	50.0	49.5		ug/L		99	80 - 121	13	20
Tetrachloroethene	50.0	46.0		ug/L		92	79 - 125	7	20
Toluene	50.0	47.4		ug/L		95	80 - 120	5	20
trans-1,2-Dichloroethene	50.0	45.8		ug/L		92	78 - 123	2	20
trans-1,3-Dichloropropene	50.0	44.3		ug/L		89	79 - 124	1	20
Trichloroethene	50.0	49.5		ug/L		99	79 - 121	5	20
Trichlorofluoromethane	50.0	52.4		ug/L		105	60 - 139	3	25
Vinyl chloride	50.0	44.8		ug/L		90	60 - 136	1	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-720929/1-A

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 720929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:09	1
Arsenic	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:09	1
Lead	ND		1.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:09	1
Nickel	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:09	1
Barium	ND		2.0	0.55	ug/L		11/03/25 16:02	11/09/25 17:09	1
Selenium	ND		2.0	0.50	ug/L		11/03/25 16:02	11/09/25 17:09	1
Chromium	ND		3.0	1.0	ug/L		11/03/25 16:02	11/09/25 17:09	1
Zinc	ND		10	5.0	ug/L		11/03/25 16:02	11/09/25 17:09	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-720929/2-A

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 720929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	97.0		ug/L		97	85 - 115
Arsenic	100	99.7		ug/L		100	85 - 115
Lead	100	96.0		ug/L		96	85 - 115
Nickel	100	97.2		ug/L		97	85 - 115
Barium	100	97.0		ug/L		97	85 - 115
Selenium	100	99.4		ug/L		99	85 - 115
Chromium	100	99.6		ug/L		100	85 - 115
Zinc	100	105		ug/L		105	85 - 115

Lab Sample ID: 280-216234-C-5-B MS

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 720929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		100	95.2		ug/L		95	75 - 125
Arsenic	1.1	J	100	98.5		ug/L		97	75 - 125
Lead	1.6		100	97.9		ug/L		96	75 - 125
Nickel	3.1		100	101		ug/L		98	75 - 125
Barium	24		100	129		ug/L		105	75 - 125
Selenium	0.93	J	100	97.0		ug/L		96	75 - 125
Chromium	ND		100	99.2		ug/L		99	75 - 125
Zinc	15		100	104		ug/L		88	75 - 125

Lab Sample ID: 280-216234-C-5-C MSD

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 720929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		100	95.5		ug/L		96	75 - 125	0	20
Arsenic	1.1	J	100	95.5		ug/L		94	75 - 125	3	20
Lead	1.6		100	96.0		ug/L		94	75 - 125	2	20
Nickel	3.1		100	99.6		ug/L		96	75 - 125	1	20
Barium	24		100	123		ug/L		98	75 - 125	5	20
Selenium	0.93	J	100	98.8		ug/L		98	75 - 125	2	20
Chromium	ND		100	99.2		ug/L		99	75 - 125	0	20
Zinc	15		100	104		ug/L		88	75 - 125	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-720937/1-A

Matrix: Water

Analysis Batch: 721343

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 720937

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/03/25 16:14	11/05/25 12:16	1
Calcium	ND		200	60	ug/L		11/03/25 16:14	11/05/25 12:16	1
Iron	ND		100	40	ug/L		11/03/25 16:14	11/05/25 12:16	1
Magnesium	ND		200	50	ug/L		11/03/25 16:14	11/05/25 12:16	1
Manganese	ND		10	2.5	ug/L		11/03/25 16:14	11/05/25 12:16	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

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

Lab Sample ID: MB 280-720937/1-A

Matrix: Water

Analysis Batch: 721343

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 720937

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1000	450	ug/L		11/03/25 16:14	11/05/25 12:16	1

Lab Sample ID: LCS 280-720937/2-A

Matrix: Water

Analysis Batch: 721343

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 720937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1000	1050		ug/L		105	85 - 115
Calcium	50000	50400		ug/L		101	85 - 115
Iron	10000	10100		ug/L		101	85 - 115
Magnesium	50000	50700		ug/L		101	85 - 115
Manganese	1000	1030		ug/L		103	85 - 115
Sodium	50000	53200		ug/L		106	85 - 115

Lab Sample ID: 280-216229-4 MS

Matrix: Water

Analysis Batch: 721343

Client Sample ID: MW-27

Prep Type: Dissolved

Prep Batch: 720937

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	35		1000	1070		ug/L		103	75 - 125
Calcium	83000		50000	130000		ug/L		94	75 - 125
Iron	5500		10000	15100		ug/L		97	75 - 125
Magnesium	35000		50000	84300		ug/L		99	75 - 125
Manganese	9000		1000	9790	4	ug/L		77	75 - 125
Sodium	38000		50000	88200		ug/L		101	75 - 125

Lab Sample ID: 280-216229-4 MSD

Matrix: Water

Analysis Batch: 721343

Client Sample ID: MW-27

Prep Type: Dissolved

Prep Batch: 720937

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	35		1000	1080		ug/L		104	75 - 125	1	20
Calcium	83000		50000	133000		ug/L		101	75 - 125	2	20
Iron	5500		10000	15400		ug/L		100	75 - 125	2	20
Magnesium	35000		50000	85500		ug/L		101	75 - 125	1	20
Manganese	9000		1000	9980	4	ug/L		96	75 - 125	2	20
Sodium	38000		50000	90700		ug/L		106	75 - 125	3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-720845/6

Matrix: Water

Analysis Batch: 720845

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/03/25 13:31	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-720845/4

Matrix: Water

Analysis Batch: 720845

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 280-720845/5

Matrix: Water

Analysis Batch: 720845

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-720845/3

Matrix: Water

Analysis Batch: 720845

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.91	J	mg/L		97	50 - 150

Lab Sample ID: 280-216229-1 MS

Matrix: Water

Analysis Batch: 720845

Client Sample ID: MW-3D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	52		50.0	105		mg/L		106	90 - 110

Lab Sample ID: 280-216229-1 MSD

Matrix: Water

Analysis Batch: 720845

Client Sample ID: MW-3D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	52		50.0	105		mg/L		106	90 - 110	0	15

Lab Sample ID: 280-216229-1 DU

Matrix: Water

Analysis Batch: 720845

Client Sample ID: MW-3D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	52		51.6		mg/L		0.2	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-721296/62

Matrix: Water

Analysis Batch: 721296

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			11/05/25 03:32	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 280-721296/90

Matrix: Water

Analysis Batch: 721296

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			11/05/25 06:47	1

Lab Sample ID: 280-216118-E-6 DU

Matrix: Water

Analysis Batch: 721296

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	640		640		mg/L		0.09	20

Lab Sample ID: 280-216240-D-1 DU

Matrix: Water

Analysis Batch: 721296

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	90		89.9		mg/L		0.4	20

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

Lab Sample ID: MB 280-720831/1

Matrix: Water

Analysis Batch: 720831

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	6.0	mg/L			11/03/25 09:59	1

Lab Sample ID: LCS 280-720831/2

Matrix: Water

Analysis Batch: 720831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	501	497		mg/L		99	88 - 114

Lab Sample ID: 280-216226-A-1 DU

Matrix: Water

Analysis Batch: 720831

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	6700		6350		mg/L		5	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-720913/1

Matrix: Water

Analysis Batch: 720913

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.5	mg/L			11/03/25 14:48	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 280-720913/2

Matrix: Water

Analysis Batch: 720913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	501	483		mg/L		96	80 - 114

Lab Sample ID: 280-216201-E-12 DU

Matrix: Water

Analysis Batch: 720913

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	4.4		4.80		mg/L		9	10

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

GC/MS VOA

Analysis Batch: 721873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216229-1	MW-3D	Total/NA	Water	8260D	
280-216229-2	MW-10D	Total/NA	Water	8260D	
280-216229-3	MW-26	Total/NA	Water	8260D	
280-216229-4	MW-27	Total/NA	Water	8260D	
280-216229-5	DUPLICATE	Total/NA	Water	8260D	
280-216229-6	MW-12D	Total/NA	Water	8260D	
MB 280-721873/10	Method Blank	Total/NA	Water	8260D	
LCS 280-721873/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-721873/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 720929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216229-1	MW-3D	Total/NA	Water	200.8	
280-216229-2	MW-10D	Total/NA	Water	200.8	
280-216229-3	MW-26	Total/NA	Water	200.8	
280-216229-4	MW-27	Total/NA	Water	200.8	
280-216229-5	DUPLICATE	Total/NA	Water	200.8	
280-216229-6	MW-12D	Total/NA	Water	200.8	
MB 280-720929/1-A	Method Blank	Total/NA	Water	200.8	
LCS 280-720929/2-A	Lab Control Sample	Total/NA	Water	200.8	
280-216234-C-5-B MS	Matrix Spike	Total Recoverable	Water	3005A	
280-216234-C-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 720937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216229-1	MW-3D	Dissolved	Water	3005A	
280-216229-2	MW-10D	Dissolved	Water	3005A	
280-216229-3	MW-26	Dissolved	Water	3005A	
280-216229-4	MW-27	Dissolved	Water	3005A	
280-216229-5	DUPLICATE	Dissolved	Water	3005A	
280-216229-6	MW-12D	Dissolved	Water	3005A	
MB 280-720937/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-720937/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-216229-4 MS	MW-27	Dissolved	Water	3005A	
280-216229-4 MSD	MW-27	Dissolved	Water	3005A	

Analysis Batch: 721343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216229-1	MW-3D	Dissolved	Water	6010D	720937
280-216229-2	MW-10D	Dissolved	Water	6010D	720937
280-216229-3	MW-26	Dissolved	Water	6010D	720937
280-216229-4	MW-27	Dissolved	Water	6010D	720937
280-216229-5	DUPLICATE	Dissolved	Water	6010D	720937
280-216229-6	MW-12D	Dissolved	Water	6010D	720937
MB 280-720937/1-A	Method Blank	Total Recoverable	Water	6010D	720937
LCS 280-720937/2-A	Lab Control Sample	Total Recoverable	Water	6010D	720937
280-216229-4 MS	MW-27	Dissolved	Water	6010D	720937
280-216229-4 MSD	MW-27	Dissolved	Water	6010D	720937

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Metals

Analysis Batch: 721903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216229-1	MW-3D	Total/NA	Water	200.8	720929
280-216229-2	MW-10D	Total/NA	Water	200.8	720929
280-216229-3	MW-26	Total/NA	Water	200.8	720929
280-216229-4	MW-27	Total/NA	Water	200.8	720929
280-216229-5	DUPLICATE	Total/NA	Water	200.8	720929
280-216229-6	MW-12D	Total/NA	Water	200.8	720929
MB 280-720929/1-A	Method Blank	Total/NA	Water	200.8	720929
LCS 280-720929/2-A	Lab Control Sample	Total/NA	Water	200.8	720929
280-216234-C-5-B MS	Matrix Spike	Total Recoverable	Water	200.8	720929
280-216234-C-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	720929

General Chemistry

Analysis Batch: 720831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216229-1	MW-3D	Total/NA	Water	SM 2540C	
280-216229-2	MW-10D	Total/NA	Water	SM 2540C	
280-216229-3	MW-26	Total/NA	Water	SM 2540C	
280-216229-4	MW-27	Total/NA	Water	SM 2540C	
280-216229-5	DUPLICATE	Total/NA	Water	SM 2540C	
280-216229-6	MW-12D	Total/NA	Water	SM 2540C	
MB 280-720831/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-720831/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-216226-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 720845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216229-1	MW-3D	Total/NA	Water	300.0	
280-216229-2	MW-10D	Total/NA	Water	300.0	
280-216229-3	MW-26	Total/NA	Water	300.0	
280-216229-4	MW-27	Total/NA	Water	300.0	
280-216229-5	DUPLICATE	Total/NA	Water	300.0	
280-216229-6	MW-12D	Total/NA	Water	300.0	
MB 280-720845/6	Method Blank	Total/NA	Water	300.0	
LCS 280-720845/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-720845/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-720845/3	Lab Control Sample	Total/NA	Water	300.0	
280-216229-1 MS	MW-3D	Total/NA	Water	300.0	
280-216229-1 MSD	MW-3D	Total/NA	Water	300.0	
280-216229-1 DU	MW-3D	Total/NA	Water	300.0	

Analysis Batch: 720913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216229-1	MW-3D	Total/NA	Water	SM 2540D	
280-216229-2	MW-10D	Total/NA	Water	SM 2540D	
280-216229-3	MW-26	Total/NA	Water	SM 2540D	
280-216229-4	MW-27	Total/NA	Water	SM 2540D	
280-216229-5	DUPLICATE	Total/NA	Water	SM 2540D	
280-216229-6	MW-12D	Total/NA	Water	SM 2540D	
MB 280-720913/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-720913/2	Lab Control Sample	Total/NA	Water	SM 2540D	

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

General Chemistry (Continued)

Analysis Batch: 720913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216201-E-12 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 721296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216229-1	MW-3D	Total/NA	Water	SM 2320B	
280-216229-2	MW-10D	Total/NA	Water	SM 2320B	
280-216229-3	MW-26	Total/NA	Water	SM 2320B	
280-216229-4	MW-27	Total/NA	Water	SM 2320B	
280-216229-5	DUPLICATE	Total/NA	Water	SM 2320B	
280-216229-6	MW-12D	Total/NA	Water	SM 2320B	
MB 280-721296/62	Method Blank	Total/NA	Water	SM 2320B	
MB 280-721296/90	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-721296/60	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-721296/88	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-721296/61	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LCSD 280-721296/89	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-216118-E-6 DU	Duplicate	Total/NA	Water	SM 2320B	
280-216240-D-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Client Sample ID: MW-3D

Date Collected: 10/28/25 10:45

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-1

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	8260D		1	5 mL	5 mL	721873	11/09/25 11:22	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	720929	11/03/25 16:02	SMK	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 17:23	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:14	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 12:24	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720845	11/04/25 01:01	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721296	11/05/25 06:08	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	720831	11/03/25 09:59	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	720913	11/03/25 14:48	YBF	EET DEN

Client Sample ID: MW-10D

Date Collected: 10/28/25 12:00

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-2

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	8260D		1	5 mL	5 mL	721873	11/09/25 11:43	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	720929	11/03/25 16:02	SMK	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 17:26	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:14	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 12:28	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720845	11/04/25 01:57	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721296	11/05/25 06:14	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	720831	11/03/25 09:59	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	720913	11/03/25 14:48	YBF	EET DEN

Client Sample ID: MW-26

Date Collected: 10/28/25 15:05

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-3

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	8260D		1	5 mL	5 mL	721873	11/09/25 12:04	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	720929	11/03/25 16:02	SMK	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 17:29	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:14	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 12:33	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720845	11/04/25 02:11	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721296	11/05/25 06:19	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	720831	11/03/25 09:59	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	720913	11/03/25 14:48	YBF	EET DEN

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Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216229-1

Client Sample ID: MW-27

Date Collected: 10/28/25 14:15

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	721873	11/09/25 13:30	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	720929	11/03/25 16:02	SMK	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 17:31	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:14	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 12:37	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720845	11/04/25 02:25	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721296	11/05/25 07:20	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	720831	11/03/25 09:59	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	720913	11/03/25 14:48	YBF	EET DEN

Client Sample ID: DUPLICATE

Date Collected: 10/28/25 07:00

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-5

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	8260D		1	5 mL	5 mL	721873	11/09/25 13:51	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	720929	11/03/25 16:02	SMK	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 17:40	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:14	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 13:11	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720845	11/04/25 02:40	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721296	11/05/25 07:26	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	720831	11/03/25 09:59	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	720913	11/03/25 14:48	YBF	EET DEN

Client Sample ID: MW-12D

Date Collected: 10/28/25 09:55

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216229-6

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	8260D		1	5 mL	5 mL	721873	11/09/25 14:12	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	720929	11/03/25 16:02	SMK	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 17:43	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:14	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 13:16	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720845	11/04/25 02:54	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721296	11/05/25 07:31	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	720831	11/03/25 09:59	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	720913	11/03/25 14:48	YBF	EET DEN

Laboratory References:

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

Eurofins Denver

Chain of Custody Record

Client Information Client Contact: Nick Rudolph Phone: 503 580 6462 Lab PM: Collins, Janice S E-Mail: Janice.Collins@et.eurofins.com		Carrier Tracking No(s): COC No: 280-97584-22898-1 Page:	
Company: Valley Landfills, Inc. Republic Services Address: 28972 Coffin Butte Road City: Corvallis State, Zip: OR, 97330 Phone: 503-675-1335(Tel) Email: Project Name: Coffin Butte Landfill Site: Compliance Wells		Due Date Requested: TAT Requested (days): 30 Compliance Project: ☐ Yes ☒ No PO #: PO# 1584668 WO #: Project #: 28003197 "GW_SLCS_Leachate" SSOW#:	
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=wasteoil, BT=tissue, A=air) Preservation Code:		Analysis Requested 220B - Bicarb Alkalinity 2540C/300 - TDS/Chloride 6010D - Dissolved Metals - GW (6) (FF) 200.8 - Total Metals T1 list 2540D - TSS 8260D - VOCs	
MW-3D MW-10D MW-2G MW-27 DUPLICATE MW-12D		Total Number of Containers Special Instructions/Note: 280-216229 Chain of Custody	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by: Relinquished by: [Signature] Relinquished by: Relinquished by:		Special Instructions/QC Requirements: Method of Shipment: Date: 10/29/25 1415 Company: GLA Received by: [Signature] Date/Time: 10/30/25 9:10 Company: CETOEN	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.: T-1.2 CF-0.1 EK-PABU	

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-216229-1

Login Number: 216229

List Source: Eurofins Denver

List Number: 1

Creator: Little, Matthew L

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	

ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761
Generated 11/10/2025 2:13:10 AM

JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-216232-1

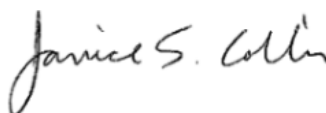
Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
11/10/2025 2:13:10 AM

Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216232-1

Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216232-1

Job ID: 280-216232-1

Eurofins Denver

Job Narrative 280-216232-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/30/2025 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 time was 1.0°C.

Metals

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

General Chemistry

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

Eurofins Denver

Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216232-1

Client Sample ID: S-U4

Lab Sample ID: 280-216232-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	18000		200	60	ug/L	1		6010D	Dissolved
Magnesium	7700		200	50	ug/L	1		6010D	Dissolved
Sodium	9200		1000	450	ug/L	1		6010D	Dissolved
Chloride	2.9	J	3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	89		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	160		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: S-U5

Lab Sample ID: 280-216232-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	34000		200	60	ug/L	1		6010D	Dissolved
Magnesium	17000		200	50	ug/L	1		6010D	Dissolved
Sodium	11000		1000	450	ug/L	1		6010D	Dissolved
Chloride	7.9		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	150		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	220		10	6.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Geo-Logic Associates

Job ID: 280-216232-1

Project/Site: Valley LF - Republic Serv Coffin Butte

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216232-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
280-216232-1	S-U4	Water	10/28/25 17:15	10/30/25 09:10	Oregon
280-216232-2	S-U5	Water	10/28/25 16:30	10/30/25 09:10	Oregon

- 1
- 2
- 3
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- 9
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- 11
- 12
- 13

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216232-1

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

Client Sample ID: S-U4

Date Collected: 10/28/25 17:15

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216232-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	18000		200	60	ug/L		11/03/25 09:43	11/06/25 22:34	1
Iron	ND		100	40	ug/L		11/03/25 09:43	11/06/25 22:34	1
Magnesium	7700		200	50	ug/L		11/03/25 09:43	11/06/25 22:34	1
Manganese	ND		10	2.5	ug/L		11/03/25 09:43	11/06/25 22:34	1
Sodium	9200		1000	450	ug/L		11/03/25 09:43	11/06/25 22:34	1

Client Sample ID: S-U5

Date Collected: 10/28/25 16:30

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216232-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	34000		200	60	ug/L		11/03/25 09:43	11/06/25 22:38	1
Iron	ND		100	40	ug/L		11/03/25 09:43	11/06/25 22:38	1
Magnesium	17000		200	50	ug/L		11/03/25 09:43	11/06/25 22:38	1
Manganese	ND		10	2.5	ug/L		11/03/25 09:43	11/06/25 22:38	1
Sodium	11000		1000	450	ug/L		11/03/25 09:43	11/06/25 22:38	1

General Chemistry

Client Sample ID: S-U4

Date Collected: 10/28/25 17:15

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216232-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2.9	J	3.0	1.3	mg/L			11/04/25 03:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	89		10	7.0	mg/L			11/05/25 08:03	1
Total Dissolved Solids (SM 2540C)	160		10	6.0	mg/L			11/04/25 10:29	1

Client Sample ID: S-U5

Date Collected: 10/28/25 16:30

Date Received: 10/30/25 09:10

Lab Sample ID: 280-216232-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	7.9		3.0	1.3	mg/L			11/04/25 04:33	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	150		10	7.0	mg/L			11/05/25 08:09	1
Total Dissolved Solids (SM 2540C)	220		10	6.0	mg/L			11/04/25 10:29	1

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216232-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-720825/1-A
Matrix: Water
Analysis Batch: 721751

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 720825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	60	ug/L		11/03/25 09:43	11/06/25 20:39	1
Iron	ND		100	40	ug/L		11/03/25 09:43	11/06/25 20:39	1
Magnesium	ND		200	50	ug/L		11/03/25 09:43	11/06/25 20:39	1
Manganese	ND		10	2.5	ug/L		11/03/25 09:43	11/06/25 20:39	1
Sodium	ND		1000	450	ug/L		11/03/25 09:43	11/06/25 20:39	1

Lab Sample ID: LCS 280-720825/2-A
Matrix: Water
Analysis Batch: 721751

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 720825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	50400		ug/L		101	85 - 115
Iron	10000	10200		ug/L		102	85 - 115
Magnesium	50000	50600		ug/L		101	85 - 115
Manganese	1000	1030		ug/L		103	85 - 115
Sodium	50000	51500		ug/L		103	85 - 115

Lab Sample ID: 280-216224-B-1-B MS
Matrix: Water
Analysis Batch: 721751

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 720825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	380000		50000	445000	4	ug/L		121	75 - 125
Iron	ND		10000	10200		ug/L		102	75 - 125
Magnesium	43000		50000	95800		ug/L		105	75 - 125
Manganese	ND		1000	1040		ug/L		104	75 - 125
Sodium	230000		50000	296000	4	ug/L		125	75 - 125

Lab Sample ID: 280-216224-B-1-C MSD
Matrix: Water
Analysis Batch: 721751

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 720825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	380000		50000	428000	4	ug/L		87	75 - 125	4	20
Iron	ND		10000	9870		ug/L		99	75 - 125	3	20
Magnesium	43000		50000	91300		ug/L		96	75 - 125	5	20
Manganese	ND		1000	996		ug/L		100	75 - 125	4	20
Sodium	230000		50000	283000	4	ug/L		100	75 - 125	4	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-720845/6
Matrix: Water
Analysis Batch: 720845

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/03/25 13:31	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216232-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-720845/4

Matrix: Water

Analysis Batch: 720845

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 280-720845/5

Matrix: Water

Analysis Batch: 720845

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-720845/3

Matrix: Water

Analysis Batch: 720845

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.91	J	mg/L		97	50 - 150

Lab Sample ID: 280-216232-2 MS

Matrix: Water

Analysis Batch: 720845

Client Sample ID: S-U5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.9		50.0	60.8		mg/L		106	90 - 110

Lab Sample ID: 280-216232-2 MSD

Matrix: Water

Analysis Batch: 720845

Client Sample ID: S-U5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.9		50.0	60.6		mg/L		105	90 - 110	0	15

Lab Sample ID: 280-216232-2 DU

Matrix: Water

Analysis Batch: 720845

Client Sample ID: S-U5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.9			7.88		mg/L				0.2	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-721296/90

Matrix: Water

Analysis Batch: 721296

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			11/05/25 06:47	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216232-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-216240-D-1 DU
Matrix: Water
Analysis Batch: 721296

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO3	90		89.9		mg/L		0.4	20

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

Lab Sample ID: MB 280-721046/1
Matrix: Water
Analysis Batch: 721046

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	6.0	mg/L			11/04/25 10:29	1

Lab Sample ID: LCS 280-721046/2
Matrix: Water
Analysis Batch: 721046

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	501	500		mg/L		100	88 - 114

Lab Sample ID: 280-216173-A-2 DU
Matrix: Water
Analysis Batch: 721046

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	3000		2980		mg/L		0.1	10

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216232-1

Metals

Prep Batch: 720825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216232-1	S-U4	Dissolved	Water	3005A	
280-216232-2	S-U5	Dissolved	Water	3005A	
MB 280-720825/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-720825/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-216224-B-1-B MS	Matrix Spike	Dissolved	Water	3005A	
280-216224-B-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 721751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216232-1	S-U4	Dissolved	Water	6010D	720825
280-216232-2	S-U5	Dissolved	Water	6010D	720825
MB 280-720825/1-A	Method Blank	Total Recoverable	Water	6010D	720825
LCS 280-720825/2-A	Lab Control Sample	Total Recoverable	Water	6010D	720825
280-216224-B-1-B MS	Matrix Spike	Dissolved	Water	6010D	720825
280-216224-B-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	720825

General Chemistry

Analysis Batch: 720845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216232-1	S-U4	Total/NA	Water	300.0	
280-216232-2	S-U5	Total/NA	Water	300.0	
MB 280-720845/6	Method Blank	Total/NA	Water	300.0	
LCS 280-720845/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-720845/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-720845/3	Lab Control Sample	Total/NA	Water	300.0	
280-216232-2 MS	S-U5	Total/NA	Water	300.0	
280-216232-2 MSD	S-U5	Total/NA	Water	300.0	
280-216232-2 DU	S-U5	Total/NA	Water	300.0	

Analysis Batch: 721046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216232-1	S-U4	Total/NA	Water	SM 2540C	
280-216232-2	S-U5	Total/NA	Water	SM 2540C	
MB 280-721046/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-721046/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-216173-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 721296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216232-1	S-U4	Total/NA	Water	SM 2320B	
280-216232-2	S-U5	Total/NA	Water	SM 2320B	
MB 280-721296/90	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-721296/88	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-721296/89	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-216240-D-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216232-1

Client Sample ID: S-U4
Date Collected: 10/28/25 17:15
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216232-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	720825	11/03/25 09:43	AR	EET DEN
Dissolved	Analysis	6010D		1			721751	11/06/25 22:34	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720845	11/04/25 03:50	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721296	11/05/25 08:03	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721046	11/04/25 10:29	YBF	EET DEN

Client Sample ID: S-U5
Date Collected: 10/28/25 16:30
Date Received: 10/30/25 09:10

Lab Sample ID: 280-216232-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	720825	11/03/25 09:43	AR	EET DEN
Dissolved	Analysis	6010D		1			721751	11/06/25 22:38	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	720845	11/04/25 04:33	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721296	11/05/25 08:09	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721046	11/04/25 10:29	YBF	EET DEN

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

Chain of Custody Record

Client Information Company: Valley Landfills, Inc. Republic Services Address: 28972 Coffin Butte Road City: Corvallis State, Zip: OR, 97330 Phone: 503-675-1335(Tel) Email: Project Name: Coffin Butte Landfill Site:		Sampler: Nick Rudolph Lab PM: Collins, Janice S Phone: 503 580 6422 E-Mail: Janice.Collins@et.eurofins.com		Carrier Tracking No(s): COC No: 280-97584-22898.1 Page: Job #:					
Due Date Requested: TAT Requested (days): 30 Compliance Project: ☐ Yes ☒ No PO #: PO# 1584688 WO #:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)							
Sample Identification S-UH S-U5		Sample Date 10/28 10/28	Sample Time 1715 1630	Sample Type (C=Comp, G=grab) G G	Matrix (W=water, S=solid, O=wasteoil, BT=tissue, A=air) W W	Field Filtered Sample (Yes or No) ☒ Yes ☐ No	Perform MS/MSD (Yes or No) ☒ Yes ☐ No	232B - Bicarb Alkalinity 2540C/300 - TDS/Chloride 6010D - Dissolved Metals (5) (FF)	Total Number of containers Special Instructions/Note:
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:									
Relinquished by:									
Relinquished by:									
Relinquished by:									
Custody Seals Intact: ☒ Yes ☐ No									
Custody Seal No.:									

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-216232-1

Login Number: 216232

List Source: Eurofins Denver

List Number: 1

Creator: Little, Matthew L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761

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JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-216276-1

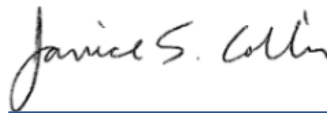
Eurofins Denver

Job Notes

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Authorization



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Authorized for release by
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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.

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.
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
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Job ID: 280-216276-1

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Job Narrative 280-216276-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/31/2025 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

GC/MS VOA

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-722082 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) and duplicate (LCSD) recoveries are within acceptance limits. 280-216276-1, 280-216276-2, 280-216276-3, 280-216276-4, 280-216230-C-5 and 280-216230-A-5 MSD

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-722082 recovered outside acceptance criteria, low biased, for Bromomethane, Chloromethane and Dichlorodifluoromethane. The LCS and LCSD are within control limits. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. 280-216276-1, 280-216276-2, 280-216276-3, 280-216276-4 and CCVIS 280-722082/2

Method 524.2_Preserved: The method blank for analytical batch 570-653712 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 524.2_Preserved: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-653712. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

Metals

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

General Chemistry

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

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Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Client Sample ID: MW 85

Lab Sample ID: 280-216276-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.59	J	2.0	0.50	ug/L	1			200.8	Total/NA
Selenium	0.67	J	2.0	0.50	ug/L	1			200.8	Total/NA
Calcium	33000		200	60	ug/L	1			6010D	Dissolved
Magnesium	14000		200	50	ug/L	1			6010D	Dissolved
Sodium	20000		1000	450	ug/L	1			6010D	Dissolved
Chloride	22		3.0	1.3	mg/L	1			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	150		10	7.0	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	230		10	6.0	mg/L	1			SM 2540C	Total/NA
Total Suspended Solids	2.0	J	4.0	1.5	mg/L	1			SM 2540D	Total/NA

Client Sample ID: MW 19

Lab Sample ID: 280-216276-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2		1.0	0.25	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	0.78	J	1.0	0.25	ug/L	1			8260D	Total/NA
Dichlorodifluoromethane	2.1		2.0	0.50	ug/L	1			8260D	Total/NA
Tetrachloroethene	1.3		1.0	0.25	ug/L	1			8260D	Total/NA
Trichloroethene	1.3		1.0	0.25	ug/L	1			8260D	Total/NA
Barium	0.69	J	2.0	0.55	ug/L	1			200.8	Total/NA
Calcium	90000		200	60	ug/L	1			6010D	Dissolved
Magnesium	37000		200	50	ug/L	1			6010D	Dissolved
Manganese	16		10	2.5	ug/L	1			6010D	Dissolved
Sodium	27000		1000	450	ug/L	1			6010D	Dissolved
Chloride	280		15	6.5	mg/L	5			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	43		10	7.0	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	550		10	6.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW 15

Lab Sample ID: 280-216276-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	11		2.0	0.55	ug/L	1			200.8	Total/NA
Calcium	44000		200	60	ug/L	1			6010D	Dissolved
Magnesium	21000		200	50	ug/L	1			6010D	Dissolved
Sodium	30000		1000	450	ug/L	1			6010D	Dissolved
Chloride	61		3.0	1.3	mg/L	1			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	180		10	7.0	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	320		10	6.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW 23

Lab Sample ID: 280-216276-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	16		2.0	0.50	ug/L	1			200.8	Total/NA
Barium	33		2.0	0.55	ug/L	1			200.8	Total/NA
Arsenic	19		15	5.0	ug/L	1			6010D	Dissolved
Calcium	37000		200	60	ug/L	1			6010D	Dissolved
Iron	2000		100	40	ug/L	1			6010D	Dissolved
Magnesium	15000		200	50	ug/L	1			6010D	Dissolved
Manganese	1500		10	2.5	ug/L	1			6010D	Dissolved
Sodium	27000		1000	450	ug/L	1			6010D	Dissolved
Chloride	22		3.0	1.3	mg/L	1			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	190		10	7.0	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	250		10	6.0	mg/L	1			SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Client Sample ID: MW 23 (Continued)

Lab Sample ID: 280-216276-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	9.6		4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: Phillips

Lab Sample ID: 280-216276-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.57	J	2.0	0.50	ug/L	1		200.8	Total/NA
Arsenic	5.1	J	15	5.0	ug/L	1		6010D	Dissolved
Calcium	25000		200	60	ug/L	1		6010D	Dissolved
Magnesium	9700		200	50	ug/L	1		6010D	Dissolved
Sodium	21000		1000	450	ug/L	1		6010D	Dissolved
Chloride	7.9		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	130		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	190		10	6.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EET CAL 4
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
200.8	Preparation, Total Metals	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

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 CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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

Sample Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
280-216276-1	MW 85	Water	10/29/25 13:20	10/31/25 09:20	Oregon
280-216276-2	MW 19	Water	10/29/25 17:25	10/31/25 09:20	Oregon
280-216276-3	MW 15	Water	10/29/25 12:35	10/31/25 09:20	Oregon
280-216276-4	MW 23	Water	10/29/25 15:40	10/31/25 09:20	Oregon
280-216276-5	Phillips	Water	10/30/25 13:55	10/31/25 09:20	Oregon

- 1
- 2
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- 14

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Client Sample ID: Phillips
Date Collected: 10/30/25 13:55
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.21	ug/L			11/10/25 12:05	1
1,1,1-Trichloroethane	ND		0.50	0.012	ug/L			11/10/25 12:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.021	ug/L			11/10/25 12:05	1
1,1,2-Trichloroethane	ND		0.50	0.020	ug/L			11/10/25 12:05	1
1,1-Dichloroethane	ND		0.50	0.018	ug/L			11/10/25 12:05	1
1,1-Dichloroethene	ND		0.50	0.050	ug/L			11/10/25 12:05	1
1,1-Dichloropropene	ND		0.50	0.23	ug/L			11/10/25 12:05	1
1,2,3-Trichlorobenzene	ND		0.50	0.21	ug/L			11/10/25 12:05	1
1,2,3-Trichloropropane	ND		0.50	0.11	ug/L			11/10/25 12:05	1
1,2,4-Trichlorobenzene	ND		0.50	0.31	ug/L			11/10/25 12:05	1
1,2,4-Trimethylbenzene	ND		0.50	0.31	ug/L			11/10/25 12:05	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.20	ug/L			11/10/25 12:05	1
1,2-Dibromoethane (EDB)	ND		0.50	0.021	ug/L			11/10/25 12:05	1
1,2-Dichlorobenzene	ND		0.50	0.015	ug/L			11/10/25 12:05	1
1,2-Dichloroethane	ND		0.50	0.014	ug/L			11/10/25 12:05	1
1,2-Dichloropropane	ND		0.50	0.015	ug/L			11/10/25 12:05	1
1,3,5-Trimethylbenzene	ND		0.50	0.30	ug/L			11/10/25 12:05	1
1,3-Dichlorobenzene	ND		0.50	0.018	ug/L			11/10/25 12:05	1
1,3-Dichloropropane	ND		0.50	0.18	ug/L			11/10/25 12:05	1
1,4-Dichlorobenzene	ND		0.50	0.023	ug/L			11/10/25 12:05	1
2,2-Dichloropropane	ND		0.50	0.13	ug/L			11/10/25 12:05	1
2-Chlorotoluene	ND		0.50	0.24	ug/L			11/10/25 12:05	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/10/25 12:05	1
Benzene	ND		0.50	0.14	ug/L			11/10/25 12:05	1
Bromobenzene	ND		0.50	0.14	ug/L			11/10/25 12:05	1
Bromochloromethane	ND		0.50	0.11	ug/L			11/10/25 12:05	1
Bromodichloromethane	ND		0.50	0.019	ug/L			11/10/25 12:05	1
Bromoform	ND		0.50	0.075	ug/L			11/10/25 12:05	1
Bromomethane	ND		0.50	0.023	ug/L			11/10/25 12:05	1
Carbon tetrachloride	ND		0.50	0.014	ug/L			11/10/25 12:05	1
Chlorobenzene	ND		0.50	0.016	ug/L			11/10/25 12:05	1
Chloroethane	ND		0.50	0.028	ug/L			11/10/25 12:05	1
Chloroform	ND		0.50	0.016	ug/L			11/10/25 12:05	1
Chloromethane	ND		0.50	0.20	ug/L			11/10/25 12:05	1
cis-1,2-Dichloroethene	ND		0.50	0.023	ug/L			11/10/25 12:05	1
cis-1,3-Dichloropropene	ND		0.50	0.021	ug/L			11/10/25 12:05	1
Dibromochloromethane	ND		0.50	0.026	ug/L			11/10/25 12:05	1
Dibromomethane	ND		0.50	0.17	ug/L			11/10/25 12:05	1
Dichlorodifluoromethane	ND		0.50	0.24	ug/L			11/10/25 12:05	1
Ethylbenzene	ND		0.50	0.33	ug/L			11/10/25 12:05	1
Hexachlorobutadiene	ND		0.50	0.13	ug/L			11/10/25 12:05	1
Isopropylbenzene	ND		0.50	0.32	ug/L			11/10/25 12:05	1
m,p-Xylene	ND		0.50	0.12	ug/L			11/10/25 12:05	1
Methylene Chloride	ND		0.50	0.21	ug/L			11/10/25 12:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.12	ug/L			11/10/25 12:05	1
Naphthalene	ND		0.50	0.27	ug/L			11/10/25 12:05	1
n-Butylbenzene	ND		0.50	0.27	ug/L			11/10/25 12:05	1
N-Propylbenzene	ND		0.50	0.28	ug/L			11/10/25 12:05	1
o-Xylene	ND		0.50	0.24	ug/L			11/10/25 12:05	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Phillips
Date Collected: 10/30/25 13:55
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		0.50	0.25	ug/L			11/10/25 12:05	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			11/10/25 12:05	1
Styrene	ND		0.50	0.16	ug/L			11/10/25 12:05	1
tert-Butylbenzene	ND		0.50	0.31	ug/L			11/10/25 12:05	1
Tetrachloroethene	ND		0.50	0.014	ug/L			11/10/25 12:05	1
Toluene	ND		0.50	0.29	ug/L			11/10/25 12:05	1
trans-1,2-Dichloroethene	ND		0.50	0.025	ug/L			11/10/25 12:05	1
trans-1,3-Dichloropropene	ND		0.50	0.032	ug/L			11/10/25 12:05	1
Trichloroethene	ND		0.50	0.028	ug/L			11/10/25 12:05	1
Trichlorofluoromethane	ND		0.50	0.037	ug/L			11/10/25 12:05	1
Vinyl chloride	ND		0.50	0.035	ug/L			11/10/25 12:05	1
Xylenes, Total	ND		0.50	0.24	ug/L			11/10/25 12:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		70 - 130					11/10/25 12:05	1
4-Bromofluorobenzene (Surr)	89		70 - 130					11/10/25 12:05	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: MW 85
Date Collected: 10/29/25 13:20
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/11/25 00:19	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/11/25 00:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/11/25 00:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/11/25 00:19	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/11/25 00:19	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
2-Hexanone	ND		5.0	1.5	ug/L			11/11/25 00:19	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/11/25 00:19	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Client Sample ID: MW 85

Date Collected: 10/29/25 13:20

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		15	5.0	ug/L			11/11/25 00:19	1
Benzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Bromobenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Bromoform	ND		2.0	0.50	ug/L			11/11/25 00:19	1
Bromomethane	ND		5.0	2.5	ug/L			11/11/25 00:19	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/11/25 00:19	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Chloroethane	ND		2.0	0.50	ug/L			11/11/25 00:19	1
Chloroform	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Chloromethane	ND		2.0	0.50	ug/L			11/11/25 00:19	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Dibromomethane	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/11/25 00:19	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/11/25 00:19	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/11/25 00:19	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/11/25 00:19	1
Naphthalene	ND		3.0	1.0	ug/L			11/11/25 00:19	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
o-Xylene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Styrene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Toluene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Trichloroethene	ND		1.0	0.25	ug/L			11/11/25 00:19	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/11/25 00:19	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/11/25 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		11/11/25 00:19	1
4-Bromofluorobenzene (Surr)	91		80 - 120		11/11/25 00:19	1
Dibromofluoromethane (Surr)	99		80 - 120		11/11/25 00:19	1
Toluene-d8 (Surr)	101		80 - 120		11/11/25 00:19	1

Client Sample ID: MW 19

Date Collected: 10/29/25 17:25

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 00:42	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Client Sample ID: MW 19

Date Collected: 10/29/25 17:25

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,1-Dichloroethane	1.2		1.0	0.25	ug/L			11/11/25 00:42	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/11/25 00:42	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/11/25 00:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/11/25 00:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/11/25 00:42	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/11/25 00:42	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
2-Hexanone	ND		5.0	1.5	ug/L			11/11/25 00:42	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/11/25 00:42	1
Acetone	ND		15	5.0	ug/L			11/11/25 00:42	1
Benzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Bromobenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Bromoform	ND		2.0	0.50	ug/L			11/11/25 00:42	1
Bromomethane	ND		5.0	2.5	ug/L			11/11/25 00:42	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/11/25 00:42	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Chloroethane	ND		2.0	0.50	ug/L			11/11/25 00:42	1
Chloroform	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Chloromethane	ND		2.0	0.50	ug/L			11/11/25 00:42	1
cis-1,2-Dichloroethene	0.78	J	1.0	0.25	ug/L			11/11/25 00:42	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Dibromomethane	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Dichlorodifluoromethane	2.1		2.0	0.50	ug/L			11/11/25 00:42	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/11/25 00:42	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/11/25 00:42	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/11/25 00:42	1
Naphthalene	ND		3.0	1.0	ug/L			11/11/25 00:42	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Client Sample ID: MW 19

Date Collected: 10/29/25 17:25

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
o-Xylene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Styrene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Tetrachloroethene	1.3		1.0	0.25	ug/L			11/11/25 00:42	1
Toluene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 00:42	1
Trichloroethene	1.3		1.0	0.25	ug/L			11/11/25 00:42	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/11/25 00:42	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/11/25 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		80 - 120		11/11/25 00:42	1
4-Bromofluorobenzene (Surr)	89		80 - 120		11/11/25 00:42	1
Dibromofluoromethane (Surr)	97		80 - 120		11/11/25 00:42	1
Toluene-d8 (Surr)	99		80 - 120		11/11/25 00:42	1

Client Sample ID: MW 15

Date Collected: 10/29/25 12:35

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/11/25 01:04	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/11/25 01:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/11/25 01:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/11/25 01:04	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/11/25 01:04	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
2-Hexanone	ND		5.0	1.5	ug/L			11/11/25 01:04	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/11/25 01:04	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Client Sample ID: MW 15

Date Collected: 10/29/25 12:35

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/11/25 01:04	1
Acetone	ND		15	5.0	ug/L			11/11/25 01:04	1
Benzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Bromobenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Bromoform	ND		2.0	0.50	ug/L			11/11/25 01:04	1
Bromomethane	ND		5.0	2.5	ug/L			11/11/25 01:04	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/11/25 01:04	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Chloroethane	ND		2.0	0.50	ug/L			11/11/25 01:04	1
Chloroform	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Chloromethane	ND		2.0	0.50	ug/L			11/11/25 01:04	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Dibromomethane	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/11/25 01:04	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/11/25 01:04	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/11/25 01:04	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/11/25 01:04	1
Naphthalene	ND		3.0	1.0	ug/L			11/11/25 01:04	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
o-Xylene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Styrene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Toluene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Trichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:04	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/11/25 01:04	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/11/25 01:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		80 - 120		11/11/25 01:04	1
4-Bromofluorobenzene (Surr)	90		80 - 120		11/11/25 01:04	1
Dibromofluoromethane (Surr)	98		80 - 120		11/11/25 01:04	1
Toluene-d8 (Surr)	101		80 - 120		11/11/25 01:04	1

Client Sample ID: MW 23

Date Collected: 10/29/25 15:40

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Client Sample ID: MW 23

Date Collected: 10/29/25 15:40

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/11/25 01:27	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/11/25 01:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/11/25 01:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/11/25 01:27	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/11/25 01:27	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
2-Hexanone	ND		5.0	1.5	ug/L			11/11/25 01:27	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/11/25 01:27	1
Acetone	ND		15	5.0	ug/L			11/11/25 01:27	1
Benzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Bromobenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Bromoform	ND		2.0	0.50	ug/L			11/11/25 01:27	1
Bromomethane	ND		5.0	2.5	ug/L			11/11/25 01:27	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/11/25 01:27	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Chloroethane	ND		2.0	0.50	ug/L			11/11/25 01:27	1
Chloroform	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Chloromethane	ND		2.0	0.50	ug/L			11/11/25 01:27	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Dibromomethane	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/11/25 01:27	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/11/25 01:27	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/11/25 01:27	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/11/25 01:27	1

Eurofins Denver

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Client Sample ID: MW 23

Date Collected: 10/29/25 15:40

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		3.0	1.0	ug/L			11/11/25 01:27	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
o-Xylene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Styrene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Toluene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Trichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:27	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/11/25 01:27	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/11/25 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 120		11/11/25 01:27	1
4-Bromofluorobenzene (Surr)	94		80 - 120		11/11/25 01:27	1
Dibromofluoromethane (Surr)	98		80 - 120		11/11/25 01:27	1
Toluene-d8 (Surr)	100		80 - 120		11/11/25 01:27	1

Method: EPA 200.8 - Metals (ICP/MS)

Client Sample ID: MW 85

Date Collected: 10/29/25 13:20

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:47	1
Arsenic	0.59	J	2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:47	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:47	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 16:47	1
Barium	ND		2.0	0.55	ug/L		11/04/25 16:03	11/09/25 16:47	1
Selenium	0.67	J	2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:47	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 16:47	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:03	11/09/25 16:47	1

Client Sample ID: MW 19

Date Collected: 10/29/25 17:25

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:49	1
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:49	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:49	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 16:49	1
Barium	0.69	J	2.0	0.55	ug/L		11/04/25 16:03	11/09/25 16:49	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:49	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 16:49	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:03	11/09/25 16:49	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: EPA 200.8 - Metals (ICP/MS)

Client Sample ID: MW 15

Date Collected: 10/29/25 12:35

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:52	1
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:52	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:52	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 16:52	1
Barium	11		2.0	0.55	ug/L		11/04/25 16:03	11/09/25 16:52	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:52	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 16:52	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:03	11/09/25 16:52	1

Client Sample ID: MW 23

Date Collected: 10/29/25 15:40

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:55	1
Arsenic	16		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:55	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:55	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 16:55	1
Barium	33		2.0	0.55	ug/L		11/04/25 16:03	11/09/25 16:55	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:55	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 16:55	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:03	11/09/25 16:55	1

Client Sample ID: Phillips

Date Collected: 10/30/25 13:55

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:58	1
Arsenic	0.57	J	2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:58	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:58	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 16:58	1
Barium	ND		2.0	0.55	ug/L		11/04/25 16:03	11/09/25 16:58	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 16:58	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 16:58	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:03	11/09/25 16:58	1

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

Client Sample ID: MW 85

Date Collected: 10/29/25 13:20

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/03/25 16:14	11/05/25 14:19	1
Calcium	33000		200	60	ug/L		11/03/25 16:14	11/05/25 14:19	1
Iron	ND		100	40	ug/L		11/03/25 16:14	11/05/25 14:19	1
Magnesium	14000		200	50	ug/L		11/03/25 16:14	11/05/25 14:19	1
Manganese	ND		10	2.5	ug/L		11/03/25 16:14	11/05/25 14:19	1
Sodium	20000		1000	450	ug/L		11/03/25 16:14	11/05/25 14:19	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Client Sample ID: MW 19
Date Collected: 10/29/25 17:25
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/03/25 16:15	11/05/25 14:23	1
Calcium	90000		200	60	ug/L		11/03/25 16:15	11/05/25 14:23	1
Iron	ND		100	40	ug/L		11/03/25 16:15	11/05/25 14:23	1
Magnesium	37000		200	50	ug/L		11/03/25 16:15	11/05/25 14:23	1
Manganese	16		10	2.5	ug/L		11/03/25 16:15	11/05/25 14:23	1
Sodium	27000		1000	450	ug/L		11/03/25 16:15	11/05/25 14:23	1

Client Sample ID: MW 15
Date Collected: 10/29/25 12:35
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/03/25 16:15	11/05/25 14:27	1
Calcium	44000		200	60	ug/L		11/03/25 16:15	11/05/25 14:27	1
Iron	ND		100	40	ug/L		11/03/25 16:15	11/05/25 14:27	1
Magnesium	21000		200	50	ug/L		11/03/25 16:15	11/05/25 14:27	1
Manganese	ND		10	2.5	ug/L		11/03/25 16:15	11/05/25 14:27	1
Sodium	30000		1000	450	ug/L		11/03/25 16:15	11/05/25 14:27	1

Client Sample ID: MW 23
Date Collected: 10/29/25 15:40
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	19		15	5.0	ug/L		11/03/25 16:15	11/05/25 14:32	1
Calcium	37000		200	60	ug/L		11/03/25 16:15	11/05/25 14:32	1
Iron	2000		100	40	ug/L		11/03/25 16:15	11/05/25 14:32	1
Magnesium	15000		200	50	ug/L		11/03/25 16:15	11/05/25 14:32	1
Manganese	1500		10	2.5	ug/L		11/03/25 16:15	11/05/25 14:32	1
Sodium	27000		1000	450	ug/L		11/03/25 16:15	11/05/25 14:32	1

Client Sample ID: Phillips
Date Collected: 10/30/25 13:55
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.1	J	15	5.0	ug/L		11/03/25 16:15	11/05/25 14:36	1
Calcium	25000		200	60	ug/L		11/03/25 16:15	11/05/25 14:36	1
Iron	ND		100	40	ug/L		11/03/25 16:15	11/05/25 14:36	1
Magnesium	9700		200	50	ug/L		11/03/25 16:15	11/05/25 14:36	1
Manganese	ND		10	2.5	ug/L		11/03/25 16:15	11/05/25 14:36	1
Sodium	21000		1000	450	ug/L		11/03/25 16:15	11/05/25 14:36	1

General Chemistry

Client Sample ID: MW 85
Date Collected: 10/29/25 13:20
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	22		3.0	1.3	mg/L			11/05/25 20:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	150		10	7.0	mg/L			11/06/25 18:59	1
Total Dissolved Solids (SM 2540C)	230		10	6.0	mg/L			11/04/25 10:31	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

General Chemistry (Continued)

Client Sample ID: MW 85

Date Collected: 10/29/25 13:20

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	2.0	J	4.0	1.5	mg/L			11/05/25 12:44	1

Client Sample ID: MW 19

Date Collected: 10/29/25 17:25

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	280		15	6.5	mg/L			11/05/25 21:39	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	43		10	7.0	mg/L			11/06/25 19:09	1
Total Dissolved Solids (SM 2540C)	550		10	6.0	mg/L			11/04/25 10:31	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/05/25 12:44	1

Client Sample ID: MW 15

Date Collected: 10/29/25 12:35

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	61		3.0	1.3	mg/L			11/05/25 20:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	180		10	7.0	mg/L			11/06/25 19:14	1
Total Dissolved Solids (SM 2540C)	320		10	6.0	mg/L			11/04/25 10:31	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/05/25 12:44	1

Client Sample ID: MW 23

Date Collected: 10/29/25 15:40

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	22		3.0	1.3	mg/L			11/05/25 20:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	190		10	7.0	mg/L			11/06/25 19:19	1
Total Dissolved Solids (SM 2540C)	250		10	6.0	mg/L			11/04/25 10:31	1
Total Suspended Solids (SM 2540D)	9.6		4.0	1.5	mg/L			11/05/25 12:44	1

Client Sample ID: Phillips

Date Collected: 10/30/25 13:55

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	7.9		3.0	1.3	mg/L			11/05/25 21:11	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	130		10	7.0	mg/L			11/06/25 19:24	1
Total Dissolved Solids (SM 2540C)	190		10	6.0	mg/L			11/04/25 10:31	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/05/25 12:45	1

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCZ	BFB		
		(70-130)	(70-130)		
280-216276-5	Phillips	106	89		
LCS 570-653712/1004	Lab Control Sample	104	103		
LCSD 570-653712/8	Lab Control Sample Dup	107	104		
MB 570-653712/7	Method Blank	102	85		
Surrogate Legend					
DCZ = 1,2-Dichlorobenzene-d4					
BFB = 4-Bromofluorobenzene (Surr)					

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(80-120)	(80-120)	(80-120)	(80-120)
280-216230-A-5 MSD	Matrix Spike Duplicate	91	93	100	98
280-216230-B-5 MS	Matrix Spike	91	91	99	98
280-216276-1	MW 85	95	91	99	101
280-216276-2	MW 19	93	89	97	99
280-216276-3	MW 15	94	90	98	101
280-216276-4	MW 23	92	94	98	100
LCS 280-722082/4	Lab Control Sample	94	91	102	97
LCSD 280-722082/5	Lab Control Sample Dup	92	92	99	99
MB 280-722082/10	Method Blank	91	92	98	100
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-653712/7

Matrix: Water

Analysis Batch: 653712

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.21	ug/L			11/10/25 10:49	1
1,1,1-Trichloroethane	ND		0.50	0.012	ug/L			11/10/25 10:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.021	ug/L			11/10/25 10:49	1
1,1,2-Trichloroethane	ND		0.50	0.020	ug/L			11/10/25 10:49	1
1,1-Dichloroethane	ND		0.50	0.018	ug/L			11/10/25 10:49	1
1,1-Dichloroethene	ND		0.50	0.050	ug/L			11/10/25 10:49	1
1,1-Dichloropropene	ND		0.50	0.23	ug/L			11/10/25 10:49	1
1,2,3-Trichlorobenzene	ND		0.50	0.21	ug/L			11/10/25 10:49	1
1,2,3-Trichloropropane	ND		0.50	0.11	ug/L			11/10/25 10:49	1
1,2,4-Trichlorobenzene	ND		0.50	0.31	ug/L			11/10/25 10:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.31	ug/L			11/10/25 10:49	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.20	ug/L			11/10/25 10:49	1
1,2-Dibromoethane (EDB)	ND		0.50	0.021	ug/L			11/10/25 10:49	1
1,2-Dichlorobenzene	ND		0.50	0.015	ug/L			11/10/25 10:49	1
1,2-Dichloroethane	ND		0.50	0.014	ug/L			11/10/25 10:49	1
1,2-Dichloropropane	ND		0.50	0.015	ug/L			11/10/25 10:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.30	ug/L			11/10/25 10:49	1
1,3-Dichlorobenzene	ND		0.50	0.018	ug/L			11/10/25 10:49	1
1,3-Dichloropropane	ND		0.50	0.18	ug/L			11/10/25 10:49	1
1,4-Dichlorobenzene	ND		0.50	0.023	ug/L			11/10/25 10:49	1
2,2-Dichloropropane	ND		0.50	0.13	ug/L			11/10/25 10:49	1
2-Chlorotoluene	ND		0.50	0.24	ug/L			11/10/25 10:49	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/10/25 10:49	1
Benzene	ND		0.50	0.14	ug/L			11/10/25 10:49	1
Bromobenzene	ND		0.50	0.14	ug/L			11/10/25 10:49	1
Bromochloromethane	ND		0.50	0.11	ug/L			11/10/25 10:49	1
Bromodichloromethane	ND		0.50	0.019	ug/L			11/10/25 10:49	1
Bromoform	ND		0.50	0.075	ug/L			11/10/25 10:49	1
Bromomethane	ND		0.50	0.023	ug/L			11/10/25 10:49	1
Carbon tetrachloride	ND		0.50	0.014	ug/L			11/10/25 10:49	1
Chlorobenzene	ND		0.50	0.016	ug/L			11/10/25 10:49	1
Chloroethane	ND		0.50	0.028	ug/L			11/10/25 10:49	1
Chloroform	ND		0.50	0.016	ug/L			11/10/25 10:49	1
Chloromethane	ND		0.50	0.20	ug/L			11/10/25 10:49	1
cis-1,2-Dichloroethene	ND		0.50	0.023	ug/L			11/10/25 10:49	1
cis-1,3-Dichloropropene	ND		0.50	0.021	ug/L			11/10/25 10:49	1
Dibromochloromethane	ND		0.50	0.026	ug/L			11/10/25 10:49	1
Dibromomethane	ND		0.50	0.17	ug/L			11/10/25 10:49	1
Dichlorodifluoromethane	ND		0.50	0.24	ug/L			11/10/25 10:49	1
Ethylbenzene	ND		0.50	0.33	ug/L			11/10/25 10:49	1
Hexachlorobutadiene	ND		0.50	0.13	ug/L			11/10/25 10:49	1
Isopropylbenzene	ND		0.50	0.32	ug/L			11/10/25 10:49	1
m,p-Xylene	ND		0.50	0.12	ug/L			11/10/25 10:49	1
Methylene Chloride	0.428	J	0.50	0.21	ug/L			11/10/25 10:49	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.12	ug/L			11/10/25 10:49	1
Naphthalene	ND		0.50	0.27	ug/L			11/10/25 10:49	1
n-Butylbenzene	ND		0.50	0.27	ug/L			11/10/25 10:49	1
N-Propylbenzene	ND		0.50	0.28	ug/L			11/10/25 10:49	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-653712/7

Matrix: Water

Analysis Batch: 653712

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.24	ug/L			11/10/25 10:49	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			11/10/25 10:49	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			11/10/25 10:49	1
Styrene	ND		0.50	0.16	ug/L			11/10/25 10:49	1
tert-Butylbenzene	ND		0.50	0.31	ug/L			11/10/25 10:49	1
Tetrachloroethene	ND		0.50	0.014	ug/L			11/10/25 10:49	1
Toluene	ND		0.50	0.29	ug/L			11/10/25 10:49	1
trans-1,2-Dichloroethene	ND		0.50	0.025	ug/L			11/10/25 10:49	1
trans-1,3-Dichloropropene	ND		0.50	0.032	ug/L			11/10/25 10:49	1
Trichloroethene	ND		0.50	0.028	ug/L			11/10/25 10:49	1
Trichlorofluoromethane	ND		0.50	0.037	ug/L			11/10/25 10:49	1
Vinyl chloride	ND		0.50	0.035	ug/L			11/10/25 10:49	1
Xylenes, Total	ND		0.50	0.24	ug/L			11/10/25 10:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		70 - 130		11/10/25 10:49	1
4-Bromofluorobenzene (Surr)	85		70 - 130		11/10/25 10:49	1

Lab Sample ID: LCS 570-653712/1004

Matrix: Water

Analysis Batch: 653712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	9.86		ug/L		99	70 - 130
1,1,1-Trichloroethane	10.0	9.46		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.2		ug/L		102	70 - 130
1,1,2-Trichloroethane	10.0	9.86		ug/L		99	70 - 130
1,1-Dichloroethane	10.0	10.4		ug/L		104	70 - 130
1,1-Dichloropropene	10.0	8.72		ug/L		87	70 - 130
1,1-Dichloropropene	10.0	9.52		ug/L		95	70 - 130
1,2,3-Trichlorobenzene	10.0	11.1		ug/L		111	70 - 130
1,2,3-Trichloropropane	10.0	10.5		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	10.0	11.1		ug/L		111	70 - 130
1,2,4-Trimethylbenzene	10.0	10.5		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	10.2		ug/L		102	70 - 130
1,2-Dibromoethane (EDB)	10.0	10.6		ug/L		106	70 - 130
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130
1,2-Dichloroethane	10.0	10.1		ug/L		101	70 - 130
1,2-Dichloropropane	10.0	9.53		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	10.0	10.4		ug/L		104	70 - 130
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichloropropane	10.0	9.84		ug/L		98	70 - 130
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	70 - 130
2,2-Dichloropropane	10.0	9.74		ug/L		97	70 - 130
2-Chlorotoluene	10.0	10.0		ug/L		100	70 - 130
4-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130
Benzene	10.0	9.46		ug/L		95	70 - 130
Bromobenzene	10.0	10.3		ug/L		103	70 - 130

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-653712/1004

Matrix: Water

Analysis Batch: 653712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	10.0	10.2		ug/L		102	70 - 130
Bromodichloromethane	10.0	9.84		ug/L		98	70 - 130
Bromoform	10.0	10.6		ug/L		106	70 - 130
Bromomethane	10.0	9.86		ug/L		99	70 - 130
Carbon tetrachloride	10.0	9.67		ug/L		97	70 - 130
Chlorobenzene	10.0	10.4		ug/L		104	70 - 130
Chloroethane	10.0	8.90		ug/L		89	70 - 130
Chloroform	10.0	9.58		ug/L		96	70 - 130
Chloromethane	10.0	7.42		ug/L		74	70 - 130
cis-1,2-Dichloroethene	10.0	9.52		ug/L		95	70 - 130
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	70 - 130
Dibromochloromethane	10.0	10.4		ug/L		104	70 - 130
Dibromomethane	10.0	10.0		ug/L		100	70 - 130
Dichlorodifluoromethane	10.0	10.9		ug/L		109	70 - 130
Ethylbenzene	10.0	10.3		ug/L		103	70 - 130
Hexachlorobutadiene	10.0	10.6		ug/L		106	70 - 130
Isopropylbenzene	10.0	10.4		ug/L		104	70 - 130
m,p-Xylene	20.0	21.4		ug/L		107	70 - 130
Methylene Chloride	10.0	9.46		ug/L		95	70 - 130
Methyl-t-Butyl Ether (MTBE)	10.0	11.0		ug/L		110	70 - 130
Naphthalene	10.0	9.72		ug/L		97	70 - 130
n-Butylbenzene	10.0	10.1		ug/L		101	70 - 130
N-Propylbenzene	10.0	10.0		ug/L		100	70 - 130
o-Xylene	10.0	10.4		ug/L		104	70 - 130
p-Isopropyltoluene	10.0	10.4		ug/L		104	70 - 130
sec-Butylbenzene	10.0	9.80		ug/L		98	70 - 130
Styrene	10.0	8.70		ug/L		87	70 - 130
tert-Butylbenzene	10.0	10.4		ug/L		104	70 - 130
Tetrachloroethene	10.0	9.60		ug/L		96	70 - 130
Toluene	10.0	10.2		ug/L		102	70 - 130
trans-1,2-Dichloroethene	10.0	9.67		ug/L		97	70 - 130
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	70 - 130
Trichloroethene	10.0	9.89		ug/L		99	70 - 130
Trichlorofluoromethane	10.0	10.4		ug/L		104	70 - 130
Vinyl chloride	10.0	10.2		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	104		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 570-653712/8

Matrix: Water

Analysis Batch: 653712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	70 - 130	2	20
1,1,1-Trichloroethane	10.0	9.27		ug/L		93	70 - 130	2	20
1,1,2,2-Tetrachloroethane	10.0	10.6		ug/L		106	70 - 130	4	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-653712/8

Matrix: Water

Analysis Batch: 653712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	10.0	9.90		ug/L		99	70 - 130	0	20
1,1-Dichloroethane	10.0	9.95		ug/L		99	70 - 130	4	20
1,1-Dichloroethene	10.0	7.95		ug/L		79	70 - 130	9	20
1,1-Dichloropropene	10.0	8.51		ug/L		85	70 - 130	11	20
1,2,3-Trichlorobenzene	10.0	11.4		ug/L		114	70 - 130	3	20
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	70 - 130	3	20
1,2,4-Trichlorobenzene	10.0	10.9		ug/L		109	70 - 130	2	20
1,2,4-Trimethylbenzene	10.0	10.4		ug/L		104	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	10.0	11.0		ug/L		110	70 - 130	8	20
1,2-Dibromoethane (EDB)	10.0	10.6		ug/L		106	70 - 130	0	20
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130	1	20
1,2-Dichloroethane	10.0	10.1		ug/L		101	70 - 130	0	20
1,2-Dichloropropane	10.0	9.51		ug/L		95	70 - 130	0	20
1,3,5-Trimethylbenzene	10.0	10.4		ug/L		104	70 - 130	0	20
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130	0	20
1,3-Dichloropropane	10.0	10.4		ug/L		104	70 - 130	5	20
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 130	5	20
2,2-Dichloropropane	10.0	9.50		ug/L		95	70 - 130	3	20
2-Chlorotoluene	10.0	10.1		ug/L		101	70 - 130	0	20
4-Chlorotoluene	10.0	10.4		ug/L		104	70 - 130	2	20
Benzene	10.0	9.32		ug/L		93	70 - 130	2	20
Bromobenzene	10.0	10.5		ug/L		105	70 - 130	2	20
Bromochloromethane	10.0	10.4		ug/L		104	70 - 130	1	20
Bromodichloromethane	10.0	10.1		ug/L		101	70 - 130	2	20
Bromoform	10.0	11.2		ug/L		112	70 - 130	6	20
Bromomethane	10.0	9.49		ug/L		95	70 - 130	4	20
Carbon tetrachloride	10.0	9.26		ug/L		93	70 - 130	4	20
Chlorobenzene	10.0	10.5		ug/L		105	70 - 130	1	20
Chloroethane	10.0	8.36		ug/L		84	70 - 130	6	20
Chloroform	10.0	9.93		ug/L		99	70 - 130	4	20
Chloromethane	10.0	7.68		ug/L		77	70 - 130	3	20
cis-1,2-Dichloroethene	10.0	9.56		ug/L		96	70 - 130	0	20
cis-1,3-Dichloropropene	10.0	9.85		ug/L		99	70 - 130	4	20
Dibromochloromethane	10.0	10.7		ug/L		107	70 - 130	3	20
Dibromomethane	10.0	10.5		ug/L		105	70 - 130	5	20
Dichlorodifluoromethane	10.0	9.79		ug/L		98	70 - 130	11	20
Ethylbenzene	10.0	10.0		ug/L		100	70 - 130	2	20
Hexachlorobutadiene	10.0	10.4		ug/L		104	70 - 130	2	20
Isopropylbenzene	10.0	10.1		ug/L		101	70 - 130	4	20
m,p-Xylene	20.0	21.4		ug/L		107	70 - 130	0	20
Methylene Chloride	10.0	9.50		ug/L		95	70 - 130	0	20
Methyl-t-Butyl Ether (MTBE)	10.0	10.8		ug/L		108	70 - 130	2	20
Naphthalene	10.0	9.65		ug/L		97	70 - 130	1	20
n-Butylbenzene	10.0	9.51		ug/L		95	70 - 130	6	20
N-Propylbenzene	10.0	9.79		ug/L		98	70 - 130	3	20
o-Xylene	10.0	10.5		ug/L		105	70 - 130	1	20
p-Isopropyltoluene	10.0	10.1		ug/L		101	70 - 130	2	20
sec-Butylbenzene	10.0	9.51		ug/L		95	70 - 130	3	20
Styrene	10.0	8.93		ug/L		89	70 - 130	3	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-653712/8

Matrix: Water

Analysis Batch: 653712

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
tert-Butylbenzene	10.0	10.2		ug/L		102	70 - 130	2	20
Tetrachloroethene	10.0	9.43		ug/L		94	70 - 130	2	20
Toluene	10.0	10.1		ug/L		101	70 - 130	1	20
trans-1,2-Dichloroethene	10.0	9.10		ug/L		91	70 - 130	6	20
trans-1,3-Dichloropropene	10.0	10.4		ug/L		104	70 - 130	2	20
Trichloroethene	10.0	9.61		ug/L		96	70 - 130	3	20
Trichlorofluoromethane	10.0	10.3		ug/L		103	70 - 130	1	20
Vinyl chloride	10.0	9.02		ug/L		90	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichlorobenzene-d4	107		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-722082/10

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/10/25 20:14	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/10/25 20:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/10/25 20:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/10/25 20:14	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/10/25 20:14	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
2-Hexanone	ND		5.0	1.5	ug/L			11/10/25 20:14	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/10/25 20:14	1
Acetone	ND		15	5.0	ug/L			11/10/25 20:14	1
Benzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Lab Sample ID: MB 280-722082/10

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Bromoform	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Bromomethane	ND		5.0	2.5	ug/L			11/10/25 20:14	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Chloroethane	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Chloroform	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Chloromethane	ND		2.0	0.50	ug/L			11/10/25 20:14	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Dibromomethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/10/25 20:14	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Naphthalene	ND		3.0	1.0	ug/L			11/10/25 20:14	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
o-Xylene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Styrene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Toluene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Trichloroethene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/10/25 20:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 120		11/10/25 20:14	1
4-Bromofluorobenzene (Surr)	92		80 - 120		11/10/25 20:14	1
Dibromofluoromethane (Surr)	98		80 - 120		11/10/25 20:14	1
Toluene-d8 (Surr)	100		80 - 120		11/10/25 20:14	1

Lab Sample ID: LCS 280-722082/4

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	46.1		ug/L		92	79 - 125

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Lab Sample ID: LCS 280-722082/4

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.6		ug/L		95	78 - 125
1,1,2,2-Tetrachloroethane	50.0	45.7		ug/L		91	73 - 126
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	80 - 121
1,1-Dichloroethane	50.0	45.9		ug/L		92	78 - 124
1,1-Dichloroethene	50.0	48.9		ug/L		98	76 - 124
1,1-Dichloropropene	50.0	48.3		ug/L		97	80 - 124
1,2,3-Trichlorobenzene	50.0	53.3		ug/L		107	57 - 136
1,2,3-Trichloropropane	50.0	47.8		ug/L		96	75 - 123
1,2,4-Trichlorobenzene	50.0	55.4		ug/L		111	69 - 130
1,2,4-Trimethylbenzene	50.0	48.2		ug/L		96	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	44.1		ug/L		88	64 - 130
1,2-Dibromoethane	50.0	50.7		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	50.7		ug/L		101	80 - 120
1,2-Dichloroethane	50.0	46.8		ug/L		94	73 - 124
1,2-Dichloropropane	50.0	44.4		ug/L		89	78 - 124
1,3,5-Trimethylbenzene	50.0	48.0		ug/L		96	80 - 122
1,3-Dichlorobenzene	50.0	50.7		ug/L		101	80 - 120
1,3-Dichloropropane	50.0	47.1		ug/L		94	80 - 121
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 120
2,2-Dichloropropane	50.0	51.3		ug/L		103	72 - 131
2-Butanone (MEK)	200	175		ug/L		87	59 - 141
2-Chlorotoluene	50.0	49.1		ug/L		98	80 - 120
2-Hexanone	200	170		ug/L		85	59 - 146
4-Chlorotoluene	50.0	49.1		ug/L		98	80 - 121
4-Isopropyltoluene	50.0	49.6		ug/L		99	80 - 124
4-Methyl-2-pentanone (MIBK)	200	176		ug/L		88	63 - 144
Acetone	200	163		ug/L		81	57 - 143
Benzene	50.0	49.0		ug/L		98	80 - 121
Bromobenzene	50.0	49.3		ug/L		99	80 - 120
Bromochloromethane	50.0	51.0		ug/L		102	76 - 126
Bromodichloromethane	50.0	44.9		ug/L		90	80 - 124
Bromoform	50.0	44.3		ug/L		89	66 - 134
Bromomethane	25.0	11.8		ug/L		47	10 - 150
Carbon disulfide	50.0	43.0		ug/L		86	70 - 127
Carbon tetrachloride	50.0	46.5		ug/L		93	72 - 131
Chlorobenzene	50.0	51.1		ug/L		102	80 - 120
Chloroethane	25.0	26.1		ug/L		104	51 - 149
Chloroform	50.0	50.2		ug/L		100	80 - 120
Chloromethane	25.0	19.6		ug/L		78	51 - 142
cis-1,2-Dichloroethene	50.0	49.3		ug/L		99	80 - 121
cis-1,3-Dichloropropene	50.0	46.5		ug/L		93	77 - 127
Dibromochloromethane	50.0	44.3		ug/L		89	77 - 128
Dibromomethane	50.0	50.3		ug/L		101	80 - 120
Dichlorodifluoromethane	25.0	18.1		ug/L		73	36 - 150
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120
Hexachlorobutadiene	50.0	51.0		ug/L		102	66 - 135
Isopropylbenzene	50.0	46.8		ug/L		94	78 - 123
Methylene Chloride	50.0	45.8		ug/L		92	77 - 121
m-Xylene & p-Xylene	50.0	49.0		ug/L		98	80 - 121

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Lab Sample ID: LCS 280-722082/4

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	50.0	55.8		ug/L		112	55 - 135
n-Butylbenzene	50.0	50.1		ug/L		100	73 - 131
N-Propylbenzene	50.0	48.0		ug/L		96	80 - 123
o-Xylene	50.0	50.9		ug/L		102	80 - 121
sec-Butylbenzene	50.0	48.5		ug/L		97	80 - 125
Styrene	50.0	50.0		ug/L		100	80 - 123
tert-Butylbenzene	50.0	48.2		ug/L		96	80 - 121
Tetrachloroethene	50.0	52.5		ug/L		105	79 - 125
Toluene	50.0	50.9		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	49.5		ug/L		99	78 - 123
trans-1,3-Dichloropropene	50.0	47.3		ug/L		95	79 - 124
Trichloroethene	50.0	47.4		ug/L		95	79 - 121
Trichlorofluoromethane	25.0	23.0		ug/L		92	60 - 139
Vinyl chloride	25.0	23.3		ug/L		93	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 280-722082/5

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	47.2		ug/L		94	79 - 125	2	20
1,1,1-Trichloroethane	50.0	47.0		ug/L		94	78 - 125	1	20
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	73 - 126	3	20
1,1,2-Trichloroethane	50.0	51.7		ug/L		103	80 - 121	0	20
1,1-Dichloroethane	50.0	45.8		ug/L		92	78 - 124	0	20
1,1-Dichloroethene	50.0	45.5		ug/L		91	76 - 124	7	20
1,1-Dichloropropene	50.0	46.4		ug/L		93	80 - 124	4	20
1,2,3-Trichlorobenzene	50.0	59.4		ug/L		119	57 - 136	11	21
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	75 - 123	4	26
1,2,4-Trichlorobenzene	50.0	57.0		ug/L		114	69 - 130	3	20
1,2,4-Trimethylbenzene	50.0	49.3		ug/L		99	80 - 123	2	20
1,2-Dibromo-3-Chloropropane	50.0	47.5		ug/L		95	64 - 130	7	20
1,2-Dibromoethane	50.0	50.8		ug/L		102	80 - 120	0	20
1,2-Dichlorobenzene	50.0	52.2		ug/L		104	80 - 120	3	20
1,2-Dichloroethane	50.0	46.3		ug/L		93	73 - 124	1	20
1,2-Dichloropropane	50.0	44.8		ug/L		90	78 - 124	1	20
1,3,5-Trimethylbenzene	50.0	48.7		ug/L		97	80 - 122	1	20
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120	1	20
1,3-Dichloropropane	50.0	47.6		ug/L		95	80 - 121	1	20
1,4-Dichlorobenzene	50.0	52.1		ug/L		104	80 - 120	4	20
2,2-Dichloropropane	50.0	49.3		ug/L		99	72 - 131	4	20
2-Butanone (MEK)	200	184		ug/L		92	59 - 141	5	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Lab Sample ID: LCSD 280-722082/5

Matrix: Water

Analysis Batch: 722082

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
2-Chlorotoluene	50.0	50.2		ug/L		100	80 - 120	2	20
2-Hexanone	200	177		ug/L		88	59 - 146	4	20
4-Chlorotoluene	50.0	50.8		ug/L		102	80 - 121	3	20
4-Isopropyltoluene	50.0	50.3		ug/L		101	80 - 124	2	20
4-Methyl-2-pentanone (MIBK)	200	180		ug/L		90	63 - 144	2	20
Acetone	200	175		ug/L		87	57 - 143	7	22
Benzene	50.0	47.7		ug/L		95	80 - 121	3	20
Bromobenzene	50.0	51.2		ug/L		102	80 - 120	4	20
Bromochloromethane	50.0	49.8		ug/L		100	76 - 126	2	20
Bromodichloromethane	50.0	45.7		ug/L		91	80 - 124	2	20
Bromoform	50.0	45.4		ug/L		91	66 - 134	2	20
Bromomethane	25.0	14.7		ug/L		59	10 - 150	22	58
Carbon disulfide	50.0	41.0		ug/L		82	70 - 127	5	20
Carbon tetrachloride	50.0	44.9		ug/L		90	72 - 131	3	20
Chlorobenzene	50.0	51.4		ug/L		103	80 - 120	1	20
Chloroethane	25.0	25.9		ug/L		104	51 - 149	1	34
Chloroform	50.0	48.8		ug/L		98	80 - 120	3	20
Chloromethane	25.0	20.4		ug/L		81	51 - 142	4	21
cis-1,2-Dichloroethene	50.0	48.4		ug/L		97	80 - 121	2	20
cis-1,3-Dichloropropene	50.0	46.7		ug/L		93	77 - 127	0	20
Dibromochloromethane	50.0	45.5		ug/L		91	77 - 128	3	20
Dibromomethane	50.0	49.9		ug/L		100	80 - 120	1	20
Dichlorodifluoromethane	25.0	17.9		ug/L		72	36 - 150	1	35
Ethylbenzene	50.0	49.8		ug/L		100	80 - 120	1	20
Hexachlorobutadiene	50.0	50.2		ug/L		100	66 - 135	1	20
Isopropylbenzene	50.0	47.9		ug/L		96	78 - 123	2	20
Methylene Chloride	50.0	46.2		ug/L		92	77 - 121	1	20
m-Xylene & p-Xylene	50.0	49.3		ug/L		99	80 - 121	1	20
Naphthalene	50.0	60.8		ug/L		122	55 - 135	9	23
n-Butylbenzene	50.0	50.1		ug/L		100	73 - 131	0	25
N-Propylbenzene	50.0	48.7		ug/L		97	80 - 123	1	20
o-Xylene	50.0	50.4		ug/L		101	80 - 121	1	20
sec-Butylbenzene	50.0	48.6		ug/L		97	80 - 125	0	20
Styrene	50.0	50.2		ug/L		100	80 - 123	0	20
tert-Butylbenzene	50.0	48.4		ug/L		97	80 - 121	0	20
Tetrachloroethene	50.0	52.1		ug/L		104	79 - 125	1	20
Toluene	50.0	51.6		ug/L		103	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	78 - 123	1	20
trans-1,3-Dichloropropene	50.0	47.9		ug/L		96	79 - 124	1	20
Trichloroethene	50.0	46.1		ug/L		92	79 - 121	3	20
Trichlorofluoromethane	25.0	23.0		ug/L		92	60 - 139	0	25
Vinyl chloride	25.0	23.2		ug/L		93	60 - 136	0	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	99		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Lab Sample ID: 280-216230-A-5 MSD

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	50.5		ug/L		101	79 - 125	5	20
1,1,1-Trichloroethane	ND		50.0	50.6		ug/L		101	78 - 125	6	20
1,1,2,2-Tetrachloroethane	ND		50.0	51.6		ug/L		103	73 - 126	6	20
1,1,2-Trichloroethane	ND		50.0	54.3		ug/L		109	80 - 121	3	20
1,1-Dichloroethane	ND		50.0	48.9		ug/L		98	78 - 124	5	20
1,1-Dichloroethene	ND		50.0	49.7		ug/L		99	76 - 124	1	20
1,1-Dichloropropene	ND		50.0	51.6		ug/L		103	80 - 124	6	20
1,2,3-Trichlorobenzene	ND		50.0	62.2		ug/L		124	57 - 136	14	21
1,2,3-Trichloropropane	ND		50.0	53.3		ug/L		107	75 - 123	4	26
1,2,4-Trichlorobenzene	ND		50.0	60.8		ug/L		122	69 - 130	11	20
1,2,4-Trimethylbenzene	ND		50.0	53.2		ug/L		106	80 - 123	7	20
1,2-Dibromo-3-Chloropropane	ND		50.0	51.5		ug/L		103	64 - 130	7	20
1,2-Dibromoethane	ND		50.0	53.3		ug/L		107	80 - 120	1	20
1,2-Dichlorobenzene	ND		50.0	55.8		ug/L		112	80 - 120	8	20
1,2-Dichloroethane	ND		50.0	49.8		ug/L		100	73 - 124	5	20
1,2-Dichloropropane	ND		50.0	49.0		ug/L		98	78 - 124	7	20
1,3,5-Trimethylbenzene	ND		50.0	52.6		ug/L		105	80 - 122	7	20
1,3-Dichlorobenzene	ND		50.0	55.2		ug/L		110	80 - 120	5	20
1,3-Dichloropropane	ND		50.0	50.8		ug/L		102	80 - 121	4	20
1,4-Dichlorobenzene	ND		50.0	55.2		ug/L		110	80 - 120	6	20
2,2-Dichloropropane	ND		50.0	50.2		ug/L		100	72 - 131	5	20
2-Butanone (MEK)	ND		200	191		ug/L		96	59 - 141	2	20
2-Chlorotoluene	ND		50.0	53.7		ug/L		107	80 - 120	5	20
2-Hexanone	ND		200	178		ug/L		89	59 - 146	1	20
4-Chlorotoluene	ND		50.0	55.6		ug/L		111	80 - 121	9	20
4-Isopropyltoluene	ND		50.0	53.6		ug/L		107	80 - 124	9	20
4-Methyl-2-pentanone (MIBK)	ND		200	186		ug/L		93	63 - 144	3	20
Acetone	ND		200	174		ug/L		87	57 - 143	1	22
Benzene	ND		50.0	52.0		ug/L		104	80 - 121	7	20
Bromobenzene	ND		50.0	54.9		ug/L		110	80 - 120	6	20
Bromochloromethane	ND		50.0	52.7		ug/L		105	76 - 126	2	20
Bromodichloromethane	ND		50.0	47.9		ug/L		96	80 - 124	6	20
Bromoform	ND		50.0	47.1		ug/L		94	66 - 134	3	20
Bromomethane	ND		25.0	18.2		ug/L		73	10 - 150	31	58
Carbon disulfide	ND		50.0	44.9		ug/L		90	70 - 127	8	20
Carbon tetrachloride	ND		50.0	49.8		ug/L		100	72 - 131	6	20
Chlorobenzene	ND		50.0	54.9		ug/L		110	80 - 120	6	20
Chloroethane	ND		25.0	25.5		ug/L		102	51 - 149	1	34
Chloroform	ND		50.0	52.1		ug/L		104	80 - 120	4	20
Chloromethane	ND		25.0	21.7		ug/L		87	51 - 142	5	21
cis-1,2-Dichloroethene	ND	F1	50.0	61.6	F1	ug/L		123	80 - 121	8	20
cis-1,3-Dichloropropene	ND		50.0	48.1		ug/L		96	77 - 127	5	20
Dibromochloromethane	ND		50.0	48.3		ug/L		97	77 - 128	4	20
Dibromomethane	ND		50.0	53.1		ug/L		106	80 - 120	4	20
Dichlorodifluoromethane	ND		25.0	18.4		ug/L		74	36 - 150	5	35
Ethylbenzene	ND		50.0	53.8		ug/L		108	80 - 120	4	20
Hexachlorobutadiene	ND		50.0	46.7		ug/L		93	66 - 135	13	20
Isopropylbenzene	ND		50.0	52.7		ug/L		105	78 - 123	8	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Lab Sample ID: 280-216230-A-5 MSD

Matrix: Water

Analysis Batch: 722082

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
Methylene Chloride	ND		50.0	47.8		ug/L		96	77 - 121	5	20
m-Xylene & p-Xylene	ND		50.0	53.1		ug/L		106	80 - 121	5	20
Naphthalene	ND		50.0	65.8		ug/L		132	55 - 135	10	23
n-Butylbenzene	ND		50.0	52.8		ug/L		106	73 - 131	10	25
N-Propylbenzene	ND		50.0	53.1		ug/L		106	80 - 123	7	20
o-Xylene	ND		50.0	52.9		ug/L		106	80 - 121	3	20
sec-Butylbenzene	ND		50.0	52.4		ug/L		105	80 - 125	9	20
Styrene	ND		50.0	52.6		ug/L		105	80 - 123	3	20
tert-Butylbenzene	ND		50.0	52.9		ug/L		106	80 - 121	8	20
Tetrachloroethene	ND		50.0	55.1		ug/L		110	79 - 125	6	20
Toluene	ND		50.0	56.0		ug/L		112	80 - 120	6	20
trans-1,2-Dichloroethene	ND		50.0	53.9		ug/L		108	78 - 123	7	20
trans-1,3-Dichloropropene	ND		50.0	51.6		ug/L		103	79 - 124	6	20
Trichloroethene	2.5		50.0	52.7		ug/L		100	79 - 121	8	20
Trichlorofluoromethane	ND		25.0	24.4		ug/L		98	60 - 139	5	25
Vinyl chloride	ND		25.0	24.8		ug/L		99	60 - 136	2	23

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 280-216230-B-5 MS

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		50.0	47.8		ug/L		96	79 - 125
1,1,1-Trichloroethane	ND		50.0	47.9		ug/L		96	78 - 125
1,1,2,2-Tetrachloroethane	ND		50.0	48.5		ug/L		97	73 - 126
1,1,2-Trichloroethane	ND		50.0	52.4		ug/L		105	80 - 121
1,1-Dichloroethane	ND		50.0	46.5		ug/L		93	78 - 124
1,1-Dichloroethene	ND		50.0	49.0		ug/L		98	76 - 124
1,1-Dichloropropene	ND		50.0	48.8		ug/L		98	80 - 124
1,2,3-Trichlorobenzene	ND		50.0	54.2		ug/L		108	57 - 136
1,2,3-Trichloropropane	ND		50.0	51.4		ug/L		103	75 - 123
1,2,4-Trichlorobenzene	ND		50.0	54.6		ug/L		109	69 - 130
1,2,4-Trimethylbenzene	ND		50.0	49.6		ug/L		99	80 - 123
1,2-Dibromo-3-Chloropropane	ND		50.0	48.3		ug/L		97	64 - 130
1,2-Dibromoethane	ND		50.0	52.6		ug/L		105	80 - 120
1,2-Dichlorobenzene	ND		50.0	51.4		ug/L		103	80 - 120
1,2-Dichloroethane	ND		50.0	47.3		ug/L		95	73 - 124
1,2-Dichloropropane	ND		50.0	45.6		ug/L		91	78 - 124
1,3,5-Trimethylbenzene	ND		50.0	49.3		ug/L		99	80 - 122
1,3-Dichlorobenzene	ND		50.0	52.3		ug/L		105	80 - 120
1,3-Dichloropropane	ND		50.0	48.9		ug/L		98	80 - 121
1,4-Dichlorobenzene	ND		50.0	51.8		ug/L		104	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Lab Sample ID: 280-216230-B-5 MS

Matrix: Water

Analysis Batch: 722082

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
2,2-Dichloropropane	ND		50.0	47.9		ug/L		96	72 - 131
2-Butanone (MEK)	ND		200	187		ug/L		94	59 - 141
2-Chlorotoluene	ND		50.0	50.9		ug/L		102	80 - 120
2-Hexanone	ND		200	176		ug/L		88	59 - 146
4-Chlorotoluene	ND		50.0	50.7		ug/L		101	80 - 121
4-Isopropyltoluene	ND		50.0	49.2		ug/L		98	80 - 124
4-Methyl-2-pentanone (MIBK)	ND		200	180		ug/L		90	63 - 144
Acetone	ND		200	176		ug/L		88	57 - 143
Benzene	ND		50.0	48.6		ug/L		97	80 - 121
Bromobenzene	ND		50.0	51.5		ug/L		103	80 - 120
Bromochloromethane	ND		50.0	51.8		ug/L		104	76 - 126
Bromodichloromethane	ND		50.0	45.0		ug/L		90	80 - 124
Bromoform	ND		50.0	45.9		ug/L		92	66 - 134
Bromomethane	ND		25.0	13.3		ug/L		53	10 - 150
Carbon disulfide	ND		50.0	41.5		ug/L		83	70 - 127
Carbon tetrachloride	ND		50.0	46.6		ug/L		93	72 - 131
Chlorobenzene	ND		50.0	52.0		ug/L		104	80 - 120
Chloroethane	ND		25.0	25.8		ug/L		103	51 - 149
Chloroform	ND		50.0	50.3		ug/L		101	80 - 120
Chloromethane	ND		25.0	20.7		ug/L		83	51 - 142
cis-1,2-Dichloroethene	ND	F1	50.0	56.9		ug/L		114	80 - 121
cis-1,3-Dichloropropene	ND		50.0	45.8		ug/L		92	77 - 127
Dibromochloromethane	ND		50.0	46.2		ug/L		92	77 - 128
Dibromomethane	ND		50.0	51.2		ug/L		102	80 - 120
Dichlorodifluoromethane	ND		25.0	17.5		ug/L		70	36 - 150
Ethylbenzene	ND		50.0	51.9		ug/L		104	80 - 120
Hexachlorobutadiene	ND		50.0	41.1		ug/L		82	66 - 135
Isopropylbenzene	ND		50.0	48.8		ug/L		98	78 - 123
Methylene Chloride	ND		50.0	45.5		ug/L		91	77 - 121
m-Xylene & p-Xylene	ND		50.0	50.5		ug/L		101	80 - 121
Naphthalene	ND		50.0	59.6		ug/L		119	55 - 135
n-Butylbenzene	ND		50.0	47.9		ug/L		96	73 - 131
N-Propylbenzene	ND		50.0	49.7		ug/L		99	80 - 123
o-Xylene	ND		50.0	51.2		ug/L		102	80 - 121
sec-Butylbenzene	ND		50.0	47.8		ug/L		96	80 - 125
Styrene	ND		50.0	50.8		ug/L		102	80 - 123
tert-Butylbenzene	ND		50.0	48.6		ug/L		97	80 - 121
Tetrachloroethene	ND		50.0	52.0		ug/L		104	79 - 125
Toluene	ND		50.0	52.8		ug/L		106	80 - 120
trans-1,2-Dichloroethene	ND		50.0	50.2		ug/L		100	78 - 123
trans-1,3-Dichloropropene	ND		50.0	48.5		ug/L		97	79 - 124
Trichloroethene	2.5		50.0	48.7		ug/L		92	79 - 121
Trichlorofluoromethane	ND		25.0	23.2		ug/L		93	60 - 139
Vinyl chloride	ND		25.0	24.2		ug/L		97	60 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	91		80 - 120						
4-Bromofluorobenzene (Surr)	91		80 - 120						

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Lab Sample ID: 280-216230-B-5 MS

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-721148/1-A

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 721148

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 15:51	1	
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 15:51	1	
Lead	ND		1.0	0.50	ug/L		11/04/25 16:03	11/09/25 15:51	1	
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 15:51	1	
Barium	ND		2.0	0.55	ug/L		11/04/25 16:03	11/09/25 15:51	1	
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 15:51	1	
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 15:51	1	
Zinc	ND		10	5.0	ug/L		11/04/25 16:03	11/09/25 15:51	1	

Lab Sample ID: LCS 280-721148/2-A

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 721148

Analyte	Spike	LCS	LCS						%Rec	
	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Antimony	100	95.2		ug/L		95	85 - 115			
Arsenic	100	96.0		ug/L		96	85 - 115			
Lead	100	96.1		ug/L		96	85 - 115			
Nickel	100	95.1		ug/L		95	85 - 115			
Barium	100	98.5		ug/L		99	85 - 115			
Selenium	100	96.2		ug/L		96	85 - 115			
Chromium	100	97.9		ug/L		98	85 - 115			
Zinc	100	95.5		ug/L		96	85 - 115			

Lab Sample ID: 280-216221-C-8-B MS

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 721148

Analyte	Sample	Sample	Spike	MS	MS				%Rec	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	ND		100	96.0		ug/L		96	75 - 125	
Arsenic	ND		100	95.9		ug/L		96	75 - 125	
Lead	ND		100	95.2		ug/L		95	75 - 125	
Nickel	1.2	J	100	96.0		ug/L		95	75 - 125	
Barium	100		100	196		ug/L		96	75 - 125	
Selenium	3.3		100	101		ug/L		97	75 - 125	
Chromium	11		100	108		ug/L		98	75 - 125	
Zinc	ND		100	97.6		ug/L		98	75 - 125	

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-216221-C-8-C MSD

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 721148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		100	94.8		ug/L		95	75 - 125	1	20
Arsenic	ND		100	97.1		ug/L		97	75 - 125	1	20
Lead	ND		100	94.4		ug/L		94	75 - 125	1	20
Nickel	1.2	J	100	95.2		ug/L		94	75 - 125	1	20
Barium	100		100	196		ug/L		96	75 - 125	0	20
Selenium	3.3		100	100		ug/L		97	75 - 125	1	20
Chromium	11		100	107		ug/L		97	75 - 125	1	20
Zinc	ND		100	99.5		ug/L		100	75 - 125	2	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-720937/1-A

Matrix: Water

Analysis Batch: 721343

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 720937

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/03/25 16:14	11/05/25 12:16	1
Calcium	ND		200	60	ug/L		11/03/25 16:14	11/05/25 12:16	1
Iron	ND		100	40	ug/L		11/03/25 16:14	11/05/25 12:16	1
Magnesium	ND		200	50	ug/L		11/03/25 16:14	11/05/25 12:16	1
Manganese	ND		10	2.5	ug/L		11/03/25 16:14	11/05/25 12:16	1
Sodium	ND		1000	450	ug/L		11/03/25 16:14	11/05/25 12:16	1

Lab Sample ID: LCS 280-720937/2-A

Matrix: Water

Analysis Batch: 721343

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 720937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1000	1050		ug/L		105	85 - 115
Calcium	50000	50400		ug/L		101	85 - 115
Iron	10000	10100		ug/L		101	85 - 115
Magnesium	50000	50700		ug/L		101	85 - 115
Manganese	1000	1030		ug/L		103	85 - 115
Sodium	50000	53200		ug/L		106	85 - 115

Lab Sample ID: 280-216229-D-4-B MS

Matrix: Water

Analysis Batch: 721343

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 720937

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	35		1000	1070		ug/L		103	75 - 125
Calcium	83000		50000	130000		ug/L		94	75 - 125
Iron	5500		10000	15100		ug/L		97	75 - 125
Magnesium	35000		50000	84300		ug/L		99	75 - 125
Manganese	9000		1000	9790	4	ug/L		77	75 - 125
Sodium	38000		50000	88200		ug/L		101	75 - 125

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

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

Lab Sample ID: 280-216229-D-4-C MSD

Matrix: Water

Analysis Batch: 721343

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 720937

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	35		1000	1080		ug/L		104	75 - 125	1	20
Calcium	83000		50000	133000		ug/L		101	75 - 125	2	20
Iron	5500		10000	15400		ug/L		100	75 - 125	2	20
Magnesium	35000		50000	85500		ug/L		101	75 - 125	1	20
Manganese	9000		1000	9980	4	ug/L		96	75 - 125	2	20
Sodium	38000		50000	90700		ug/L		106	75 - 125	3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-721281/42

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/06/25 00:14	1

Lab Sample ID: MB 280-721281/6

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/05/25 13:39	1

Lab Sample ID: LCS 280-721281/4

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	100		mg/L		100	90 - 110

Lab Sample ID: LCS 280-721281/40

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	99.9		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-721281/41

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	99.9		mg/L		100	90 - 110	0	10

Lab Sample ID: LCSD 280-721281/5

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100		mg/L		100	90 - 110	0	10

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-721281/3

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	3.23		mg/L		108	50 - 150

Lab Sample ID: 280-216112-B-1 MS

Matrix: Water

Analysis Batch: 721281

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	960		250	1210	E	mg/L		102	90 - 110

Lab Sample ID: 280-216112-B-1 MSD

Matrix: Water

Analysis Batch: 721281

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	960		250	1220	E	mg/L		104	90 - 110	0	15

Lab Sample ID: 280-216265-C-1 MS

Matrix: Water

Analysis Batch: 721281

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	87		50.0	140		mg/L		104	90 - 110

Lab Sample ID: 280-216265-C-1 MSD

Matrix: Water

Analysis Batch: 721281

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	87		50.0	140		mg/L		104	90 - 110	0	15

Lab Sample ID: 280-216112-B-1 DU

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	960		961		mg/L		0.5	15

Lab Sample ID: 280-216265-C-1 DU

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	87		87.3		mg/L		0.08	15

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-721601/6
Matrix: Water
Analysis Batch: 721601

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			11/06/25 18:54	1

Lab Sample ID: 280-216276-1 DU
Matrix: Water
Analysis Batch: 721601

Client Sample ID: MW 85
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO3	150		153		mg/L		1	20

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

Lab Sample ID: MB 280-721047/1
Matrix: Water
Analysis Batch: 721047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	6.0	mg/L			11/04/25 10:31	1

Lab Sample ID: LCS 280-721047/2
Matrix: Water
Analysis Batch: 721047

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	501	474		mg/L		95	88 - 114

Lab Sample ID: 280-216246-B-3 DU
Matrix: Water
Analysis Batch: 721047

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	1300		1290		mg/L		0.3	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-721311/1
Matrix: Water
Analysis Batch: 721311

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.5	mg/L			11/05/25 12:44	1

Lab Sample ID: LCS 280-721311/2
Matrix: Water
Analysis Batch: 721311

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	500	486		mg/L		97	80 - 114

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 280-216041-D-1 DU
Matrix: Water
Analysis Batch: 721311

Client Sample ID: Duplicate
Prep Type: Total/NA

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

Lab Sample ID: MB 280-721312/1
Matrix: Water
Analysis Batch: 721312

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.5	mg/L			11/05/25 12:45	1

Lab Sample ID: LCS 280-721312/2
Matrix: Water
Analysis Batch: 721312

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	500	476		mg/L		95	80 - 114

Lab Sample ID: 280-216316-A-1 DU
Matrix: Water
Analysis Batch: 721312

Client Sample ID: Duplicate
Prep Type: Total/NA

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

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

GC/MS VOA

Analysis Batch: 653712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-5	Phillips	Total/NA	Water	524.2	
MB 570-653712/7	Method Blank	Total/NA	Water	524.2	
LCS 570-653712/1004	Lab Control Sample	Total/NA	Water	524.2	
LCSD 570-653712/8	Lab Control Sample Dup	Total/NA	Water	524.2	

Analysis Batch: 722082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-1	MW 85	Total/NA	Water	8260D	
280-216276-2	MW 19	Total/NA	Water	8260D	
280-216276-3	MW 15	Total/NA	Water	8260D	
280-216276-4	MW 23	Total/NA	Water	8260D	
MB 280-722082/10	Method Blank	Total/NA	Water	8260D	
LCS 280-722082/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-722082/5	Lab Control Sample Dup	Total/NA	Water	8260D	
280-216230-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
280-216230-B-5 MS	Matrix Spike	Total/NA	Water	8260D	

Metals

Prep Batch: 720937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-1	MW 85	Dissolved	Water	3005A	
280-216276-2	MW 19	Dissolved	Water	3005A	
280-216276-3	MW 15	Dissolved	Water	3005A	
280-216276-4	MW 23	Dissolved	Water	3005A	
280-216276-5	Phillips	Dissolved	Water	3005A	
MB 280-720937/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-720937/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-216229-D-4-B MS	Matrix Spike	Dissolved	Water	3005A	
280-216229-D-4-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 721148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-1	MW 85	Total/NA	Water	200.8	
280-216276-2	MW 19	Total/NA	Water	200.8	
280-216276-3	MW 15	Total/NA	Water	200.8	
280-216276-4	MW 23	Total/NA	Water	200.8	
280-216276-5	Phillips	Total/NA	Water	200.8	
MB 280-721148/1-A	Method Blank	Total/NA	Water	3005A	
LCS 280-721148/2-A	Lab Control Sample	Total/NA	Water	3005A	
280-216221-C-8-B MS	Matrix Spike	Total/NA	Water	200.8	
280-216221-C-8-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 721343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-1	MW 85	Dissolved	Water	6010D	720937
280-216276-2	MW 19	Dissolved	Water	6010D	720937
280-216276-3	MW 15	Dissolved	Water	6010D	720937
280-216276-4	MW 23	Dissolved	Water	6010D	720937
280-216276-5	Phillips	Dissolved	Water	6010D	720937
MB 280-720937/1-A	Method Blank	Total Recoverable	Water	6010D	720937

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Metals (Continued)

Analysis Batch: 721343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-720937/2-A	Lab Control Sample	Total Recoverable	Water	6010D	720937
280-216229-D-4-B MS	Matrix Spike	Dissolved	Water	6010D	720937
280-216229-D-4-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	720937

Analysis Batch: 721903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-1	MW 85	Total/NA	Water	200.8	721148
280-216276-2	MW 19	Total/NA	Water	200.8	721148
280-216276-3	MW 15	Total/NA	Water	200.8	721148
280-216276-4	MW 23	Total/NA	Water	200.8	721148
280-216276-5	Phillips	Total/NA	Water	200.8	721148
MB 280-721148/1-A	Method Blank	Total/NA	Water	200.8	721148
LCS 280-721148/2-A	Lab Control Sample	Total/NA	Water	200.8	721148
280-216221-C-8-B MS	Matrix Spike	Total/NA	Water	200.8	721148
280-216221-C-8-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	721148

General Chemistry

Analysis Batch: 721047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-1	MW 85	Total/NA	Water	SM 2540C	
280-216276-2	MW 19	Total/NA	Water	SM 2540C	
280-216276-3	MW 15	Total/NA	Water	SM 2540C	
280-216276-4	MW 23	Total/NA	Water	SM 2540C	
280-216276-5	Phillips	Total/NA	Water	SM 2540C	
MB 280-721047/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-721047/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-216246-B-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 721281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-1	MW 85	Total/NA	Water	300.0	
280-216276-2	MW 19	Total/NA	Water	300.0	
280-216276-3	MW 15	Total/NA	Water	300.0	
280-216276-4	MW 23	Total/NA	Water	300.0	
280-216276-5	Phillips	Total/NA	Water	300.0	
MB 280-721281/42	Method Blank	Total/NA	Water	300.0	
MB 280-721281/6	Method Blank	Total/NA	Water	300.0	
LCS 280-721281/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-721281/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-721281/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-721281/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-721281/3	Lab Control Sample	Total/NA	Water	300.0	
280-216112-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-216112-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-216265-C-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-216265-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-216112-B-1 DU	Duplicate	Total/NA	Water	300.0	
280-216265-C-1 DU	Duplicate	Total/NA	Water	300.0	

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

General Chemistry

Analysis Batch: 721311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-1	MW 85	Total/NA	Water	SM 2540D	
280-216276-2	MW 19	Total/NA	Water	SM 2540D	
280-216276-3	MW 15	Total/NA	Water	SM 2540D	
280-216276-4	MW 23	Total/NA	Water	SM 2540D	
MB 280-721311/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-721311/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-216041-D-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 721312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-5	Phillips	Total/NA	Water	SM 2540D	
MB 280-721312/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-721312/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-216316-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 721601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216276-1	MW 85	Total/NA	Water	SM 2320B	
280-216276-2	MW 19	Total/NA	Water	SM 2320B	
280-216276-3	MW 15	Total/NA	Water	SM 2320B	
280-216276-4	MW 23	Total/NA	Water	SM 2320B	
280-216276-5	Phillips	Total/NA	Water	SM 2320B	
MB 280-721601/6	Method Blank	Total/NA	Water	SM 2320B	
280-216276-1 DU	MW 85	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Client Sample ID: MW 85

Date Collected: 10/29/25 13:20

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-1

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	8260D		1	5 mL	5 mL	722082	11/11/25 00:19	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	721148	11/04/25 16:03	AMH	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 16:47	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:14	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 14:19	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	721281	11/05/25 20:29	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 18:59	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721311	11/05/25 12:44	YBF	EET DEN

Client Sample ID: MW 19

Date Collected: 10/29/25 17:25

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-2

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	8260D		1	5 mL	5 mL	722082	11/11/25 00:42	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	721148	11/04/25 16:03	AMH	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 16:49	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:15	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 14:23	CAF	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	721281	11/05/25 21:39	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 19:09	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721311	11/05/25 12:44	YBF	EET DEN

Client Sample ID: MW 15

Date Collected: 10/29/25 12:35

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-3

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	8260D		1	5 mL	5 mL	722082	11/11/25 01:04	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	721148	11/04/25 16:03	AMH	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 16:52	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:15	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 14:27	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	721281	11/05/25 20:43	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 19:14	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721311	11/05/25 12:44	YBF	EET DEN

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Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216276-1

Client Sample ID: MW 23

Date Collected: 10/29/25 15:40

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	722082	11/11/25 01:27	BMJ	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	721148	11/04/25 16:03	AMH	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 16:55	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:15	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 14:32	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	721281	11/05/25 20:57	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 19:19	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721311	11/05/25 12:44	YBF	EET DEN

Client Sample ID: Phillips

Date Collected: 10/30/25 13:55

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216276-5

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	524.2		1	25 mL	25 mL	653712	11/10/25 12:05	N5PD	EET CAL 4
Total/NA	Prep	200.8			50 mL	50 mL	721148	11/04/25 16:03	AMH	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 16:58	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	720937	11/03/25 16:15	SMK	EET DEN
Dissolved	Analysis	6010D		1			721343	11/05/25 14:36	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	721281	11/05/25 21:11	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 19:24	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721312	11/05/25 12:45	YBF	EET DEN

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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

Chain of Custody Record

Client Information		Sampler:		Lab PM:	Carrier Tracking No(s):		COC No:
Client Contact:		Nick Rudolph		Collins, Janice S			280-97584-22888.1
Company:		Phone: 503 580 6462		E-Mail: Janice.Collins@et.eurofins.com			Page:
Address:		City:		Due Date Requested:		Job #:	
Valley Landfills, Inc. Republic Services		Corvallis		TAT Requested (days): 30		Analysis Requested	
State, Zip:		Compliance Project: Δ Yes Δ No		Field Filtered Sample (Yes or No)		Preservation Codes:	
OR, 97330		PO #: PO# 1584668		Perform MS/MSD (Yes or No)		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water K - EDTA L - EDA W - PH 4-5 Z - other (specify) Other:	
Email:		Project #:		Field Filtered Sample (Yes or No)		Total Number of Containers	
503-675-1335(Tel)		28003197 "GW_SLCS_Leachate"		2320B - Bicarb Alkalinity		5242 - VOCs - Oregon Drinking Water List - (Phillips)	
Project Name:		SSOW#:		2540C/300 - TDS/Chloride		8260D - VOCs	
Coffin Butte Landfill				6010D - Dissolved Metals - GW (6) (FF)		2540D - TSS	
Site:				200.8 - Total Metals T1 list		Special Instructions/Note:	
Detection Wells				2220B - Bicarb Alkalinity			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, B=leachate, A=air)	Preservation Code:		
MW 85	10/29	1320	G	W			
MW 19	10/29	1725	G	W			
MW 15	10/29	1235	G	W			
MW 23	10/29	1540	G	W			
Phillips	10/30	1355	G	W			
Barcode: 280-216276 Chain of Custody							
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:							
Relinquished by: [Signature]							
Relinquished by:							
Relinquished by:							
Custody Seal No.: Δ Yes Δ No							

Special Instructions/QC Requirements:		Method of Shipment:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months		Received by: [Signature]	
Date:		Date/Time: 10/30/25 1455	
Company:		Company: GLA	
Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:	
Custody Seal No.: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 0.8, 1.5, 2.0, 12:10 PM	

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14

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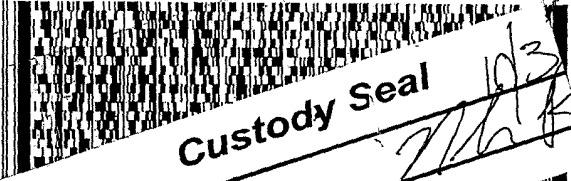


XX LAAA
 FedEx
 TRK# 4725 9099 8750
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 FRI - 31 OCT 10:30A
 PRIORITY OVERNIGHT
 NSR
 80002
 CO-US DEN

REL# 3785346



J242024020701 UN



Custody Seal

DATE
 SIGNATURE

eurofins
 2952885

ARVADA CO 80002

TO SAMPLE RECEIVING
 EUROFINS ENVIRONMENT TESTING
 4955 YARROW STREET

ORIGIN ID: LAAA (303) 736-0100
 SAMPLE RECEIVING
 EUROFINS ENVIRONMENT TESTING
 4955 YARROW STREET
 ARVADA, CO 80002
 UNITED STATES US

SHIP DATE: 01AUG25
 ACTWGT: 40.00 LB
 CAD: 264797993/FKRS2008



280-216276 Waybill

eurofins
 Environment Testing
 TestAmerica

tag.

Part # 158469-434 MTW EXP 04/25



280-216276 Chain of Custody

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-216276-1

Login Number: 216276

List Source: Eurofins Denver

List Number: 1

Creator: Johnston, Michelle A

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.	True	
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.	True	

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-216276-1

Login Number: 216276

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 11/05/25 04:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
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	1.8
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?	N/A	Received project as a subcontract.
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.	True	
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	

ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761
Generated 11/13/2025 12:23:20 AM

JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-216285-1

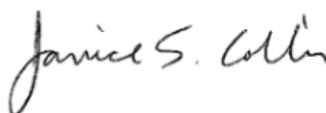
Eurofins Denver

Job Notes

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Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Job ID: 280-216285-1

Eurofins Denver

Job Narrative 280-216285-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/31/2025 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Logged per the information on the container labels.

GC/MS VOA

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) precision for analytical batch 280-722300 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits. 280-216285-1, 280-216285-2, 280-216285-3, 280-216285-4, 280-216285-5, 280-216285-6, 280-216285-7, 280-216167-I-9, 280-216167-H-9 MS and 280-216167-H-9 MSD.

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-722300 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are: 280-216285-1, 280-216285-2, 280-216285-3, 280-216285-4, 280-216285-5, 280-216285-6, 280-216285-7, CCVIS 280-722300/2 and 280-216167-I-9.

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-722300 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. 280-216285-1, 280-216285-2, 280-216285-3, 280-216285-4, 280-216285-5, 280-216285-6, 280-216285-7, 280-216167-I-9, 280-216167-H-9 MS and 280-216167-H-9 MSD.

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

Metals

Method 6010D - Dissolved: The method blank associated with preparation batch 280-721264 and analytical batch 280-721821 contained Mg greater than one-half the reporting limit (RL). The samples were not re-analyzed because samples were greater than 10x the value found in the blank. The sample results have been qualified and reported.

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

General Chemistry

Method 2320B: The Continuing Calibration Blank for analytical batch 280-721601 contained Bicarbonate Alkalinity as CaCO₃ above the reporting limit (RL). Associated samples were not re-analyzed because results were greater than 10X the value found in the method blank.

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

Eurofins Denver

Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Client Sample ID: MW-18

Lab Sample ID: 280-216285-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	26000		200	60	ug/L	1		6010D	Dissolved
Magnesium	9400	B	200	50	ug/L	1		6010D	Dissolved
Sodium	11000		1000	450	ug/L	1		6010D	Dissolved
Chloride	4.3		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	86		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	190		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 280-216285-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.8	J	2.0	0.50	ug/L	1		8260D	Total/NA
Barium	5.9		2.0	0.55	ug/L	1		200.8	Total/NA
Calcium	89000		200	60	ug/L	1		6010D	Dissolved
Magnesium	32000	B	200	50	ug/L	1		6010D	Dissolved
Manganese	1100		10	2.5	ug/L	1		6010D	Dissolved
Sodium	26000		1000	450	ug/L	1		6010D	Dissolved
Chloride	120		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	120	^2	10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	540		10	6.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.0		4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 280-216285-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	9.6		3.0	1.0	ug/L	1		200.8	Total/NA
Barium	2.7		2.0	0.55	ug/L	1		200.8	Total/NA
Calcium	110000		200	60	ug/L	1		6010D	Dissolved
Iron	130		100	40	ug/L	1		6010D	Dissolved
Magnesium	48000	B	200	50	ug/L	1		6010D	Dissolved
Manganese	400		10	2.5	ug/L	1		6010D	Dissolved
Sodium	25000		1000	450	ug/L	1		6010D	Dissolved
Chloride	89		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	430	^2	10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	580		10	6.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	12		4.0	1.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-24

Lab Sample ID: 280-216285-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	35000		200	60	ug/L	1		6010D	Dissolved
Magnesium	13000	B	200	50	ug/L	1		6010D	Dissolved
Sodium	21000		1000	450	ug/L	1		6010D	Dissolved
Chloride	6.0		3.0	1.3	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	180	^2	10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	230		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Duplicate 1

Lab Sample ID: 280-216285-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	25000		200	60	ug/L	1		6010D	Dissolved
Magnesium	9000	B	200	50	ug/L	1		6010D	Dissolved
Sodium	11000		1000	450	ug/L	1		6010D	Dissolved
Chloride	4.4		3.0	1.3	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Client Sample ID: Duplicate 1 (Continued)

Lab Sample ID: 280-216285-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO ₃	87		10	7.0	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	190		10	6.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: Duplicate 2

Lab Sample ID: 280-216285-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2		1.0	0.25	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	0.91	J	1.0	0.25	ug/L	1			8260D	Total/NA
Dichlorodifluoromethane	5.5		2.0	0.50	ug/L	1			8260D	Total/NA
Tetrachloroethene	0.95	J	1.0	0.25	ug/L	1			8260D	Total/NA
Trichloroethene	1.1		1.0	0.25	ug/L	1			8260D	Total/NA
Calcium	89000		200	60	ug/L	1			6010D	Dissolved
Magnesium	36000	B	200	50	ug/L	1			6010D	Dissolved
Manganese	16		10	2.5	ug/L	1			6010D	Dissolved
Sodium	26000		1000	450	ug/L	1			6010D	Dissolved
Chloride	290		15	6.5	mg/L	5			300.0	Total/NA
Bicarbonate Alkalinity as CaCO ₃	43		10	7.0	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	560		10	6.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-216285-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
200.8	Preparation, Total Metals	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Geo-Logic Associates

Job ID: 280-216285-1

Project/Site: Valley LF - Republic Serv Coffin Butte

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
280-216285-1	MW-18	Water	10/30/25 08:50	10/31/25 09:20	Oregon
280-216285-2	MW-20	Water	10/30/25 11:05	10/31/25 09:20	Oregon
280-216285-3	MW-21	Water	10/30/25 10:30	10/31/25 09:20	Oregon
280-216285-4	MW-24	Water	10/30/25 12:10	10/31/25 09:20	Oregon
280-216285-5	Duplicate 1	Water	10/30/25 07:00	10/31/25 09:20	Oregon
280-216285-6	Duplicate 2	Water	10/29/25 07:00	10/31/25 09:20	Oregon
280-216285-7	TRIP BLANK	Water	10/30/25 07:00	10/31/25 09:20	Oregon

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: MW-18

Date Collected: 10/30/25 08:50

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 01:58	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/12/25 01:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/12/25 01:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/12/25 01:58	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/12/25 01:58	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
2-Hexanone	ND		5.0	1.5	ug/L			11/12/25 01:58	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/12/25 01:58	1
Acetone	ND		15	5.0	ug/L			11/12/25 01:58	1
Benzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Bromobenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Bromoform	ND		2.0	0.50	ug/L			11/12/25 01:58	1
Bromomethane	ND		5.0	2.5	ug/L			11/12/25 01:58	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/12/25 01:58	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Chloroethane	ND		2.0	0.50	ug/L			11/12/25 01:58	1
Chloroform	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Chloromethane	ND		2.0	0.50	ug/L			11/12/25 01:58	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Dibromomethane	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/12/25 01:58	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/12/25 01:58	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/12/25 01:58	1

Eurofins Denver

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Client Sample ID: MW-18

Date Collected: 10/30/25 08:50

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/12/25 01:58	1
Naphthalene	ND		3.0	1.0	ug/L			11/12/25 01:58	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
o-Xylene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Styrene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Toluene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Trichloroethene	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/12/25 01:58	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/12/25 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		80 - 120					11/12/25 01:58	1
4-Bromofluorobenzene (Surr)	99		80 - 120					11/12/25 01:58	1
Dibromofluoromethane (Surr)	97		80 - 120					11/12/25 01:58	1
Toluene-d8 (Surr)	98		80 - 120					11/12/25 01:58	1

Client Sample ID: MW-20

Date Collected: 10/30/25 11:05

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 02:19	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/12/25 02:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/12/25 02:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/12/25 02:19	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/12/25 02:19	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
2-Hexanone	ND		5.0	1.5	ug/L			11/12/25 02:19	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Client Sample ID: MW-20
Date Collected: 10/30/25 11:05
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/12/25 02:19	1
Acetone	ND		15	5.0	ug/L			11/12/25 02:19	1
Benzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Bromobenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Bromoform	ND		2.0	0.50	ug/L			11/12/25 02:19	1
Bromomethane	ND		5.0	2.5	ug/L			11/12/25 02:19	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/12/25 02:19	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Chloroethane	ND		2.0	0.50	ug/L			11/12/25 02:19	1
Chloroform	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Chloromethane	ND		2.0	0.50	ug/L			11/12/25 02:19	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Dibromomethane	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Dichlorodifluoromethane	1.8	J	2.0	0.50	ug/L			11/12/25 02:19	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/12/25 02:19	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/12/25 02:19	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/12/25 02:19	1
Naphthalene	ND		3.0	1.0	ug/L			11/12/25 02:19	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
o-Xylene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Styrene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Toluene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Trichloroethene	ND		1.0	0.25	ug/L			11/12/25 02:19	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/12/25 02:19	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/12/25 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		80 - 120		11/12/25 02:19	1
4-Bromofluorobenzene (Surr)	100		80 - 120		11/12/25 02:19	1
Dibromofluoromethane (Surr)	98		80 - 120		11/12/25 02:19	1
Toluene-d8 (Surr)	97		80 - 120		11/12/25 02:19	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: MW-21

Date Collected: 10/30/25 10:30

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 02:40	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/12/25 02:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/12/25 02:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/12/25 02:40	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/12/25 02:40	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
2-Hexanone	ND		5.0	1.5	ug/L			11/12/25 02:40	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/12/25 02:40	1
Acetone	ND		15	5.0	ug/L			11/12/25 02:40	1
Benzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Bromobenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Bromoform	ND		2.0	0.50	ug/L			11/12/25 02:40	1
Bromomethane	ND		5.0	2.5	ug/L			11/12/25 02:40	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/12/25 02:40	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Chloroethane	ND		2.0	0.50	ug/L			11/12/25 02:40	1
Chloroform	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Chloromethane	ND		2.0	0.50	ug/L			11/12/25 02:40	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Dibromomethane	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/12/25 02:40	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/12/25 02:40	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/12/25 02:40	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Client Sample ID: MW-21

Date Collected: 10/30/25 10:30

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/12/25 02:40	1
Naphthalene	ND		3.0	1.0	ug/L			11/12/25 02:40	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
o-Xylene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Styrene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Toluene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Trichloroethene	ND		1.0	0.25	ug/L			11/12/25 02:40	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/12/25 02:40	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/12/25 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		80 - 120		11/12/25 02:40	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/12/25 02:40	1
Dibromofluoromethane (Surr)	96		80 - 120		11/12/25 02:40	1
Toluene-d8 (Surr)	98		80 - 120		11/12/25 02:40	1

Client Sample ID: MW-24

Date Collected: 10/30/25 12:10

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 03:01	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/12/25 03:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/12/25 03:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/12/25 03:01	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/12/25 03:01	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
2-Hexanone	ND		5.0	1.5	ug/L			11/12/25 03:01	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Client Sample ID: MW-24
Date Collected: 10/30/25 12:10
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/12/25 03:01	1
Acetone	ND		15	5.0	ug/L			11/12/25 03:01	1
Benzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Bromobenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Bromoform	ND		2.0	0.50	ug/L			11/12/25 03:01	1
Bromomethane	ND		5.0	2.5	ug/L			11/12/25 03:01	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/12/25 03:01	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Chloroethane	ND		2.0	0.50	ug/L			11/12/25 03:01	1
Chloroform	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Chloromethane	ND		2.0	0.50	ug/L			11/12/25 03:01	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Dibromomethane	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/12/25 03:01	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/12/25 03:01	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/12/25 03:01	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/12/25 03:01	1
Naphthalene	ND		3.0	1.0	ug/L			11/12/25 03:01	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
o-Xylene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Styrene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Toluene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Trichloroethene	ND		1.0	0.25	ug/L			11/12/25 03:01	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/12/25 03:01	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/12/25 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		11/12/25 03:01	1
4-Bromofluorobenzene (Surr)	96		80 - 120		11/12/25 03:01	1
Dibromofluoromethane (Surr)	97		80 - 120		11/12/25 03:01	1
Toluene-d8 (Surr)	97		80 - 120		11/12/25 03:01	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: Duplicate 1
Date Collected: 10/30/25 07:00
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 03:23	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/12/25 03:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/12/25 03:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/12/25 03:23	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/12/25 03:23	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
2-Hexanone	ND		5.0	1.5	ug/L			11/12/25 03:23	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/12/25 03:23	1
Acetone	ND		15	5.0	ug/L			11/12/25 03:23	1
Benzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Bromobenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Bromoform	ND		2.0	0.50	ug/L			11/12/25 03:23	1
Bromomethane	ND		5.0	2.5	ug/L			11/12/25 03:23	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/12/25 03:23	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Chloroethane	ND		2.0	0.50	ug/L			11/12/25 03:23	1
Chloroform	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Chloromethane	ND		2.0	0.50	ug/L			11/12/25 03:23	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Dibromomethane	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/12/25 03:23	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/12/25 03:23	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/12/25 03:23	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Client Sample ID: Duplicate 1
Date Collected: 10/30/25 07:00
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/12/25 03:23	1
Naphthalene	ND		3.0	1.0	ug/L			11/12/25 03:23	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
o-Xylene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Styrene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Toluene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Trichloroethene	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/12/25 03:23	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/12/25 03:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		80 - 120					11/12/25 03:23	1
4-Bromofluorobenzene (Surr)	97		80 - 120					11/12/25 03:23	1
Dibromofluoromethane (Surr)	99		80 - 120					11/12/25 03:23	1
Toluene-d8 (Surr)	97		80 - 120					11/12/25 03:23	1

Client Sample ID: Duplicate 2
Date Collected: 10/29/25 07:00
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,1-Dichloroethane	1.2		1.0	0.25	ug/L			11/12/25 03:44	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 03:44	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/12/25 03:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/12/25 03:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/12/25 03:44	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/12/25 03:44	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
2-Hexanone	ND		5.0	1.5	ug/L			11/12/25 03:44	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Client Sample ID: Duplicate 2
Date Collected: 10/29/25 07:00
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/12/25 03:44	1
Acetone	ND		15	5.0	ug/L			11/12/25 03:44	1
Benzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Bromobenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Bromoform	ND		2.0	0.50	ug/L			11/12/25 03:44	1
Bromomethane	ND		5.0	2.5	ug/L			11/12/25 03:44	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/12/25 03:44	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Chloroethane	ND		2.0	0.50	ug/L			11/12/25 03:44	1
Chloroform	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Chloromethane	ND		2.0	0.50	ug/L			11/12/25 03:44	1
cis-1,2-Dichloroethene	0.91	J	1.0	0.25	ug/L			11/12/25 03:44	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Dibromomethane	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Dichlorodifluoromethane	5.5		2.0	0.50	ug/L			11/12/25 03:44	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/12/25 03:44	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/12/25 03:44	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/12/25 03:44	1
Naphthalene	ND		3.0	1.0	ug/L			11/12/25 03:44	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
o-Xylene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Styrene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Tetrachloroethene	0.95	J	1.0	0.25	ug/L			11/12/25 03:44	1
Toluene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 03:44	1
Trichloroethene	1.1		1.0	0.25	ug/L			11/12/25 03:44	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/12/25 03:44	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/12/25 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		11/12/25 03:44	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/12/25 03:44	1
Dibromofluoromethane (Surr)	98		80 - 120		11/12/25 03:44	1
Toluene-d8 (Surr)	98		80 - 120		11/12/25 03:44	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: TRIP BLANK

Date Collected: 10/30/25 07:00

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/11/25 23:09	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/11/25 23:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/11/25 23:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/11/25 23:09	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/11/25 23:09	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
2-Hexanone	ND		5.0	1.5	ug/L			11/11/25 23:09	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/11/25 23:09	1
Acetone	ND		15	5.0	ug/L			11/11/25 23:09	1
Benzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Bromobenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Bromoform	ND		2.0	0.50	ug/L			11/11/25 23:09	1
Bromomethane	ND		5.0	2.5	ug/L			11/11/25 23:09	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/11/25 23:09	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Chloroethane	ND		2.0	0.50	ug/L			11/11/25 23:09	1
Chloroform	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Chloromethane	ND		2.0	0.50	ug/L			11/11/25 23:09	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Dibromomethane	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/11/25 23:09	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/11/25 23:09	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/11/25 23:09	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Client Sample ID: TRIP BLANK

Date Collected: 10/30/25 07:00

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/11/25 23:09	1
Naphthalene	ND		3.0	1.0	ug/L			11/11/25 23:09	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
o-Xylene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Styrene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Toluene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Trichloroethene	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/11/25 23:09	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/11/25 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120					11/11/25 23:09	1
4-Bromofluorobenzene (Surr)	93		80 - 120					11/11/25 23:09	1
Dibromofluoromethane (Surr)	99		80 - 120					11/11/25 23:09	1
Toluene-d8 (Surr)	97		80 - 120					11/11/25 23:09	1

Method: EPA 200.8 - Metals (ICP/MS)

Client Sample ID: MW-18

Date Collected: 10/30/25 08:50

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:35	1
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:35	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:35	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:35	1
Barium	ND		2.0	0.55	ug/L		11/04/25 16:38	11/11/25 15:35	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:35	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:35	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:38	11/11/25 15:35	1

Client Sample ID: MW-20

Date Collected: 10/30/25 11:05

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:38	1
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:38	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:38	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:38	1
Barium	5.9		2.0	0.55	ug/L		11/04/25 16:38	11/11/25 15:38	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:38	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:38	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:38	11/11/25 15:38	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: EPA 200.8 - Metals (ICP/MS)

Client Sample ID: MW-21

Date Collected: 10/30/25 10:30

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:42	1
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:42	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:42	1
Nickel	9.6		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:42	1
Barium	2.7		2.0	0.55	ug/L		11/04/25 16:38	11/11/25 15:42	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:42	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:42	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:38	11/11/25 15:42	1

Client Sample ID: MW-24

Date Collected: 10/30/25 12:10

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:46	1
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:46	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:46	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:46	1
Barium	ND		2.0	0.55	ug/L		11/04/25 16:38	11/11/25 15:46	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:46	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:46	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:38	11/11/25 15:46	1

Client Sample ID: Duplicate 1

Date Collected: 10/30/25 07:00

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:49	1
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:49	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:49	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:49	1
Barium	ND		2.0	0.55	ug/L		11/04/25 16:38	11/11/25 15:49	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:49	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:49	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:38	11/11/25 15:49	1

Client Sample ID: Duplicate 2

Date Collected: 10/29/25 07:00

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:53	1
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:53	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:53	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:53	1
Barium	ND		2.0	0.55	ug/L		11/04/25 16:38	11/11/25 15:53	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:53	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:53	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:38	11/11/25 15:53	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Client Sample ID: MW-18
Date Collected: 10/30/25 08:50
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/05/25 10:19	11/07/25 03:29	1
Calcium	26000		200	60	ug/L		11/05/25 10:19	11/07/25 03:29	1
Iron	ND		100	40	ug/L		11/05/25 10:19	11/07/25 03:29	1
Magnesium	9400	B	200	50	ug/L		11/05/25 10:19	11/07/25 03:29	1
Manganese	ND		10	2.5	ug/L		11/05/25 10:19	11/07/25 03:29	1
Sodium	11000		1000	450	ug/L		11/05/25 10:19	11/07/25 03:29	1

Client Sample ID: MW-20
Date Collected: 10/30/25 11:05
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/05/25 10:19	11/07/25 03:48	1
Calcium	89000		200	60	ug/L		11/05/25 10:19	11/07/25 03:48	1
Iron	ND		100	40	ug/L		11/05/25 10:19	11/07/25 03:48	1
Magnesium	32000	B	200	50	ug/L		11/05/25 10:19	11/07/25 03:48	1
Manganese	1100		10	2.5	ug/L		11/05/25 10:19	11/07/25 03:48	1
Sodium	26000		1000	450	ug/L		11/05/25 10:19	11/07/25 03:48	1

Client Sample ID: MW-21
Date Collected: 10/30/25 10:30
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/05/25 10:19	11/07/25 03:52	1
Calcium	110000		200	60	ug/L		11/05/25 10:19	11/07/25 03:52	1
Iron	130		100	40	ug/L		11/05/25 10:19	11/07/25 03:52	1
Magnesium	48000	B	200	50	ug/L		11/05/25 10:19	11/07/25 03:52	1
Manganese	400		10	2.5	ug/L		11/05/25 10:19	11/07/25 03:52	1
Sodium	25000		1000	450	ug/L		11/05/25 10:19	11/07/25 03:52	1

Client Sample ID: MW-24
Date Collected: 10/30/25 12:10
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/05/25 10:19	11/07/25 03:56	1
Calcium	35000		200	60	ug/L		11/05/25 10:19	11/07/25 03:56	1
Iron	ND		100	40	ug/L		11/05/25 10:19	11/07/25 03:56	1
Magnesium	13000	B	200	50	ug/L		11/05/25 10:19	11/07/25 03:56	1
Manganese	ND		10	2.5	ug/L		11/05/25 10:19	11/07/25 03:56	1
Sodium	21000		1000	450	ug/L		11/05/25 10:19	11/07/25 03:56	1

Client Sample ID: Duplicate 1
Date Collected: 10/30/25 07:00
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/05/25 10:19	11/07/25 04:00	1
Calcium	25000		200	60	ug/L		11/05/25 10:19	11/07/25 04:00	1
Iron	ND		100	40	ug/L		11/05/25 10:19	11/07/25 04:00	1
Magnesium	9000	B	200	50	ug/L		11/05/25 10:19	11/07/25 04:00	1
Manganese	ND		10	2.5	ug/L		11/05/25 10:19	11/07/25 04:00	1
Sodium	11000		1000	450	ug/L		11/05/25 10:19	11/07/25 04:00	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Client Sample ID: Duplicate 2
Date Collected: 10/29/25 07:00
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/05/25 10:19	11/07/25 04:15	1
Calcium	89000		200	60	ug/L		11/05/25 10:19	11/07/25 04:15	1
Iron	ND		100	40	ug/L		11/05/25 10:19	11/07/25 04:15	1
Magnesium	36000	B	200	50	ug/L		11/05/25 10:19	11/07/25 04:15	1
Manganese	16		10	2.5	ug/L		11/05/25 10:19	11/07/25 04:15	1
Sodium	26000		1000	450	ug/L		11/05/25 10:19	11/07/25 04:15	1

General Chemistry

Client Sample ID: MW-18
Date Collected: 10/30/25 08:50
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	4.3		3.0	1.3	mg/L			11/05/25 21:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	86		10	7.0	mg/L			11/07/25 12:35	1
Total Dissolved Solids (SM 2540C)	190		10	6.0	mg/L			11/04/25 10:31	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/05/25 12:45	1

Client Sample ID: MW-20
Date Collected: 10/30/25 11:05
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	120		3.0	1.3	mg/L			11/04/25 18:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	120	^2	10	7.0	mg/L			11/06/25 20:35	1
Total Dissolved Solids (SM 2540C)	540		10	6.0	mg/L			11/04/25 10:31	1
Total Suspended Solids (SM 2540D)	4.0		4.0	1.5	mg/L			11/05/25 12:45	1

Client Sample ID: MW-21
Date Collected: 10/30/25 10:30
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	89		3.0	1.3	mg/L			11/04/25 18:33	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	430	^2	10	7.0	mg/L			11/06/25 20:42	1
Total Dissolved Solids (SM 2540C)	580		10	6.0	mg/L			11/04/25 10:31	1
Total Suspended Solids (SM 2540D)	12		4.0	1.5	mg/L			11/05/25 12:45	1

Client Sample ID: MW-24
Date Collected: 10/30/25 12:10
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	6.0		3.0	1.3	mg/L			11/04/25 19:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	180	^2	10	7.0	mg/L			11/06/25 20:47	1
Total Dissolved Solids (SM 2540C)	230		10	6.0	mg/L			11/04/25 10:31	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/05/25 12:45	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

General Chemistry

Client Sample ID: Duplicate 1
Date Collected: 10/30/25 07:00
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	4.4		3.0	1.3	mg/L			11/04/25 19:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	87		10	7.0	mg/L			11/07/25 12:39	1
Total Dissolved Solids (SM 2540C)	190		10	6.0	mg/L			11/04/25 10:31	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/05/25 12:45	1

Client Sample ID: Duplicate 2
Date Collected: 10/29/25 07:00
Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	290		15	6.5	mg/L			11/04/25 20:11	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	43		10	7.0	mg/L			11/07/25 12:43	1
Total Dissolved Solids (SM 2540C)	560		10	6.0	mg/L			11/04/25 10:31	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			11/05/25 12:45	1

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(80-120)	(80-120)	(80-120)	(80-120)
280-216167-H-9 MS	Matrix Spike	110	99	95	96
280-216167-H-9 MSD	Matrix Spike Duplicate	106	102	95	99
280-216285-1	MW-18	110	99	97	98
280-216285-2	MW-20	113	100	98	97
280-216285-3	MW-21	111	99	96	98
280-216285-4	MW-24	109	96	97	97
280-216285-5	Duplicate 1	113	97	99	97
280-216285-6	Duplicate 2	108	99	98	98
280-216285-7	TRIP BLANK	108	93	99	97
LCS 280-722300/4	Lab Control Sample	104	104	94	99
LCSD 280-722300/5	Lab Control Sample Dup	108	101	98	96
MB 280-722300/10	Method Blank	107	99	96	100

Surrogate Legend

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

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-722300/10

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/11/25 22:07	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/11/25 22:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/11/25 22:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/11/25 22:07	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/11/25 22:07	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
2-Hexanone	ND		5.0	1.5	ug/L			11/11/25 22:07	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/11/25 22:07	1
Acetone	ND		15	5.0	ug/L			11/11/25 22:07	1
Benzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Bromobenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Bromoform	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Bromomethane	ND		5.0	2.5	ug/L			11/11/25 22:07	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Chloroethane	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Chloroform	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Chloromethane	ND		2.0	0.50	ug/L			11/11/25 22:07	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Dibromomethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Lab Sample ID: MB 280-722300/10

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	1.0	ug/L			11/11/25 22:07	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Naphthalene	ND		3.0	1.0	ug/L			11/11/25 22:07	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
o-Xylene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Styrene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Toluene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Trichloroethene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/11/25 22:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		11/11/25 22:07	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/11/25 22:07	1
Dibromofluoromethane (Surr)	96		80 - 120		11/11/25 22:07	1
Toluene-d8 (Surr)	100		80 - 120		11/11/25 22:07	1

Lab Sample ID: LCS 280-722300/4

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	53.6		ug/L		107	79 - 125
1,1,1-Trichloroethane	50.0	51.5		ug/L		103	78 - 125
1,1,2,2-Tetrachloroethane	50.0	57.0		ug/L		114	73 - 126
1,1,2-Trichloroethane	50.0	52.4		ug/L		105	80 - 121
1,1-Dichloroethane	50.0	47.2		ug/L		94	78 - 124
1,1-Dichloroethene	50.0	46.8		ug/L		94	76 - 124
1,1-Dichloropropene	50.0	52.5		ug/L		105	80 - 124
1,2,3-Trichlorobenzene	50.0	48.3		ug/L		97	57 - 136
1,2,3-Trichloropropane	50.0	54.0		ug/L		108	75 - 123
1,2,4-Trichlorobenzene	50.0	48.4		ug/L		97	69 - 130
1,2,4-Trimethylbenzene	50.0	54.2		ug/L		108	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	44.4		ug/L		89	64 - 130
1,2-Dibromoethane	50.0	53.8		ug/L		108	80 - 120
1,2-Dichlorobenzene	50.0	51.6		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	55.4		ug/L		111	73 - 124
1,2-Dichloropropane	50.0	54.4		ug/L		109	78 - 124
1,3,5-Trimethylbenzene	50.0	55.4		ug/L		111	80 - 122
1,3-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120
1,3-Dichloropropane	50.0	56.6		ug/L		113	80 - 121
1,4-Dichlorobenzene	50.0	53.1		ug/L		106	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Lab Sample ID: LCS 280-722300/4

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	50.0	50.2		ug/L		100	72 - 131
2-Butanone (MEK)	200	221		ug/L		111	59 - 141
2-Chlorotoluene	50.0	53.6		ug/L		107	80 - 120
2-Hexanone	200	240		ug/L		120	59 - 146
4-Chlorotoluene	50.0	53.7		ug/L		107	80 - 121
4-Isopropyltoluene	50.0	53.5		ug/L		107	80 - 124
4-Methyl-2-pentanone (MIBK)	200	235		ug/L		117	63 - 144
Acetone	200	208		ug/L		104	57 - 143
Benzene	50.0	51.8		ug/L		104	80 - 121
Bromobenzene	50.0	52.5		ug/L		105	80 - 120
Bromochloromethane	50.0	49.8		ug/L		100	76 - 126
Bromodichloromethane	50.0	54.6		ug/L		109	80 - 124
Bromoform	50.0	43.8		ug/L		88	66 - 134
Bromomethane	50.0	55.0		ug/L		110	10 - 150
Carbon disulfide	50.0	47.4		ug/L		95	70 - 127
Carbon tetrachloride	50.0	50.8		ug/L		102	72 - 131
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120
Chloroethane	50.0	56.2		ug/L		112	51 - 149
Chloroform	50.0	53.0		ug/L		106	80 - 120
Chloromethane	50.0	52.6		ug/L		105	51 - 142
cis-1,2-Dichloroethene	50.0	48.8		ug/L		98	80 - 121
cis-1,3-Dichloropropene	50.0	57.7		ug/L		115	77 - 127
Dibromochloromethane	50.0	41.8		ug/L		84	77 - 128
Dibromomethane	50.0	51.5		ug/L		103	80 - 120
Dichlorodifluoromethane	50.0	57.7		ug/L		115	36 - 150
Ethylbenzene	50.0	49.8		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	51.0		ug/L		102	66 - 135
Isopropylbenzene	50.0	55.4		ug/L		111	78 - 123
Methylene Chloride	50.0	50.0		ug/L		100	77 - 121
m-Xylene & p-Xylene	50.0	50.4		ug/L		101	80 - 121
Naphthalene	50.0	52.3		ug/L		105	55 - 135
n-Butylbenzene	50.0	53.7		ug/L		107	73 - 131
N-Propylbenzene	50.0	55.2		ug/L		110	80 - 123
o-Xylene	50.0	50.9		ug/L		102	80 - 121
sec-Butylbenzene	50.0	53.2		ug/L		106	80 - 125
Styrene	50.0	54.5		ug/L		109	80 - 123
tert-Butylbenzene	50.0	54.1		ug/L		108	80 - 121
Tetrachloroethene	50.0	49.5		ug/L		99	79 - 125
Toluene	50.0	48.7		ug/L		97	80 - 120
trans-1,2-Dichloroethene	50.0	45.7		ug/L		91	78 - 123
trans-1,3-Dichloropropene	50.0	48.0		ug/L		96	79 - 124
Trichloroethene	50.0	54.4		ug/L		109	79 - 121
Trichlorofluoromethane	50.0	61.0		ug/L		122	60 - 139
Vinyl chloride	50.0	55.9		ug/L		112	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Lab Sample ID: LCS 280-722300/4

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	94		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 280-722300/5

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/L		106	79 - 125	1	20
1,1,1-Trichloroethane	50.0	51.9		ug/L		104	78 - 125	1	20
1,1,2,2-Tetrachloroethane	50.0	51.8		ug/L		104	73 - 126	10	20
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	80 - 121	1	20
1,1-Dichloroethane	50.0	50.8		ug/L		102	78 - 124	7	20
1,1-Dichloroethene	50.0	50.2		ug/L		100	76 - 124	7	20
1,1-Dichloropropene	50.0	51.5		ug/L		103	80 - 124	2	20
1,2,3-Trichlorobenzene	50.0	47.8		ug/L		96	57 - 136	1	21
1,2,3-Trichloropropane	50.0	51.8		ug/L		104	75 - 123	4	26
1,2,4-Trichlorobenzene	50.0	47.6		ug/L		95	69 - 130	2	20
1,2,4-Trimethylbenzene	50.0	52.4		ug/L		105	80 - 123	3	20
1,2-Dibromo-3-Chloropropane	50.0	43.1		ug/L		86	64 - 130	3	20
1,2-Dibromoethane	50.0	51.0		ug/L		102	80 - 120	5	20
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	2	20
1,2-Dichloroethane	50.0	55.4		ug/L		111	73 - 124	0	20
1,2-Dichloropropane	50.0	51.3		ug/L		103	78 - 124	6	20
1,3,5-Trimethylbenzene	50.0	52.1		ug/L		104	80 - 122	6	20
1,3-Dichlorobenzene	50.0	48.6		ug/L		97	80 - 120	3	20
1,3-Dichloropropane	50.0	52.0		ug/L		104	80 - 121	8	20
1,4-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 120	1	20
2,2-Dichloropropane	50.0	48.4		ug/L		97	72 - 131	4	20
2-Butanone (MEK)	200	210		ug/L		105	59 - 141	5	20
2-Chlorotoluene	50.0	51.7		ug/L		103	80 - 120	4	20
2-Hexanone	200	210		ug/L		105	59 - 146	13	20
4-Chlorotoluene	50.0	51.3		ug/L		103	80 - 121	5	20
4-Isopropyltoluene	50.0	51.1		ug/L		102	80 - 124	5	20
4-Methyl-2-pentanone (MIBK)	200	220		ug/L		110	63 - 144	6	20
Acetone	200	219		ug/L		110	57 - 143	6	22
Benzene	50.0	49.1		ug/L		98	80 - 121	5	20
Bromobenzene	50.0	50.6		ug/L		101	80 - 120	4	20
Bromochloromethane	50.0	50.6		ug/L		101	76 - 126	2	20
Bromodichloromethane	50.0	53.1		ug/L		106	80 - 124	3	20
Bromoform	50.0	43.4		ug/L		87	66 - 134	1	20
Bromomethane	50.0	54.0		ug/L		108	10 - 150	2	58
Carbon disulfide	50.0	49.7		ug/L		99	70 - 127	5	20
Carbon tetrachloride	50.0	51.6		ug/L		103	72 - 131	2	20
Chlorobenzene	50.0	49.0		ug/L		98	80 - 120	2	20
Chloroethane	50.0	60.7		ug/L		121	51 - 149	8	34
Chloroform	50.0	51.9		ug/L		104	80 - 120	2	20
Chloromethane	50.0	54.7		ug/L		109	51 - 142	4	21

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Lab Sample ID: LCSD 280-722300/5

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	50.0	47.9		ug/L		96	80 - 121	2	20
cis-1,3-Dichloropropene	50.0	53.9		ug/L		108	77 - 127	7	20
Dibromochloromethane	50.0	40.7		ug/L		81	77 - 128	3	20
Dibromomethane	50.0	50.8		ug/L		102	80 - 120	1	20
Dichlorodifluoromethane	50.0	59.8		ug/L		120	36 - 150	3	35
Ethylbenzene	50.0	49.1		ug/L		98	80 - 120	1	20
Hexachlorobutadiene	50.0	50.7		ug/L		101	66 - 135	1	20
Isopropylbenzene	50.0	54.0		ug/L		108	78 - 123	3	20
Methylene Chloride	50.0	53.1		ug/L		106	77 - 121	6	20
m-Xylene & p-Xylene	50.0	50.8		ug/L		102	80 - 121	1	20
Naphthalene	50.0	52.5		ug/L		105	55 - 135	1	23
n-Butylbenzene	50.0	50.6		ug/L		101	73 - 131	6	25
N-Propylbenzene	50.0	52.5		ug/L		105	80 - 123	5	20
o-Xylene	50.0	49.1		ug/L		98	80 - 121	4	20
sec-Butylbenzene	50.0	51.0		ug/L		102	80 - 125	4	20
Styrene	50.0	52.9		ug/L		106	80 - 123	3	20
tert-Butylbenzene	50.0	52.7		ug/L		105	80 - 121	3	20
Tetrachloroethene	50.0	49.5		ug/L		99	79 - 125	0	20
Toluene	50.0	47.9		ug/L		96	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	78 - 123	7	20
trans-1,3-Dichloropropene	50.0	45.9		ug/L		92	79 - 124	5	20
Trichloroethene	50.0	51.6		ug/L		103	79 - 121	5	20
Trichlorofluoromethane	50.0	63.0		ug/L		126	60 - 139	3	25
Vinyl chloride	50.0	58.7		ug/L		117	60 - 136	5	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: 280-216167-H-9 MS

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		25.0	28.0		ug/L		112	79 - 125
1,1,1-Trichloroethane	ND		25.0	28.5		ug/L		114	78 - 125
1,1,1,2,2-Tetrachloroethane	ND		25.0	29.2		ug/L		117	73 - 126
1,1,2-Trichloroethane	ND		25.0	28.5		ug/L		114	80 - 121
1,1-Dichloroethane	ND		25.0	28.6		ug/L		114	78 - 124
1,1-Dichloroethene	ND		25.0	26.4		ug/L		105	76 - 124
1,1-Dichloropropene	ND	F2	25.0	29.5		ug/L		118	80 - 124
1,2,3-Trichlorobenzene	ND		25.0	24.4		ug/L		98	57 - 136
1,2,3-Trichloropropane	ND		25.0	29.2		ug/L		117	75 - 123
1,2,4-Trichlorobenzene	ND		25.0	24.5		ug/L		98	69 - 130
1,2,4-Trimethylbenzene	ND	F2	25.0	29.5		ug/L		118	80 - 123
1,2-Dibromo-3-Chloropropane	ND		25.0	21.1		ug/L		84	64 - 130

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Lab Sample ID: 280-216167-H-9 MS

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	ND		25.0	28.5		ug/L		114	80 - 120
1,2-Dichlorobenzene	ND		25.0	27.2		ug/L		109	80 - 120
1,2-Dichloroethane	ND	F1 F2	25.0	31.5	F1	ug/L		126	73 - 124
1,2-Dichloropropane	ND		25.0	28.9		ug/L		116	78 - 124
1,3,5-Trimethylbenzene	ND	F2	25.0	30.1		ug/L		120	80 - 122
1,3-Dichlorobenzene	ND		25.0	27.3		ug/L		109	80 - 120
1,3-Dichloropropane	ND		25.0	29.5		ug/L		118	80 - 121
1,4-Dichlorobenzene	ND		25.0	28.7		ug/L		115	80 - 120
2,2-Dichloropropane	ND		25.0	25.4		ug/L		101	72 - 131
2-Butanone (MEK)	ND		100	114		ug/L		114	59 - 141
2-Chlorotoluene	ND		25.0	28.9		ug/L		116	80 - 120
2-Hexanone	ND		100	121		ug/L		121	59 - 146
4-Chlorotoluene	ND	F2	25.0	29.5		ug/L		118	80 - 121
4-Isopropyltoluene	ND		25.0	28.0		ug/L		112	80 - 124
4-Methyl-2-pentanone (MIBK)	ND	F2	100	122		ug/L		122	63 - 144
Acetone	ND		100	114		ug/L		114	57 - 143
Benzene	ND	F2	25.0	28.5		ug/L		114	80 - 121
Bromobenzene	ND		25.0	27.8		ug/L		111	80 - 120
Bromochloromethane	ND		25.0	27.9		ug/L		112	76 - 126
Bromodichloromethane	ND		25.0	27.8		ug/L		111	80 - 124
Bromoform	ND		25.0	22.4		ug/L		89	66 - 134
Bromomethane	ND		25.0	31.5		ug/L		126	10 - 150
Carbon disulfide	ND		25.0	25.7		ug/L		103	70 - 127
Carbon tetrachloride	ND		25.0	27.2		ug/L		109	72 - 131
Chlorobenzene	ND		25.0	27.6		ug/L		110	80 - 120
Chloroethane	ND		25.0	33.0		ug/L		132	51 - 149
Chloroform	ND		25.0	28.8		ug/L		115	80 - 120
Chloromethane	ND	F2	25.0	30.9		ug/L		124	51 - 142
cis-1,2-Dichloroethene	3.1		25.0	30.2		ug/L		108	80 - 121
cis-1,3-Dichloropropene	ND		25.0	28.1		ug/L		112	77 - 127
Dibromochloromethane	ND	F1	25.0	21.1		ug/L		84	77 - 128
Dibromomethane	ND		25.0	28.1		ug/L		112	80 - 120
Dichlorodifluoromethane	ND		25.0	35.9		ug/L		143	36 - 150
Ethylbenzene	ND		25.0	27.1		ug/L		109	80 - 120
Hexachlorobutadiene	ND		25.0	25.6		ug/L		102	66 - 135
Isopropylbenzene	ND		25.0	27.6		ug/L		110	78 - 123
Methylene Chloride	ND		25.0	28.3		ug/L		113	77 - 121
m-Xylene & p-Xylene	ND		25.0	27.4		ug/L		109	80 - 121
Naphthalene	ND		25.0	26.7		ug/L		107	55 - 135
n-Butylbenzene	ND		25.0	27.6		ug/L		110	73 - 131
N-Propylbenzene	ND		25.0	28.9		ug/L		116	80 - 123
o-Xylene	ND		25.0	26.9		ug/L		108	80 - 121
sec-Butylbenzene	ND		25.0	28.9		ug/L		115	80 - 125
Styrene	ND		25.0	27.7		ug/L		111	80 - 123
tert-Butylbenzene	ND		25.0	28.8		ug/L		115	80 - 121
Tetrachloroethene	ND		25.0	27.6		ug/L		111	79 - 125
Toluene	ND		25.0	26.1		ug/L		104	80 - 120
trans-1,2-Dichloroethene	ND		25.0	27.2		ug/L		109	78 - 123
trans-1,3-Dichloropropene	ND		25.0	23.7		ug/L		95	79 - 124

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Lab Sample ID: 280-216167-H-9 MS

Matrix: Water

Analysis Batch: 722300

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
Trichloroethene	ND		25.0	29.2		ug/L		117	79 - 121
Trichlorofluoromethane	ND	F1 F2	25.0	39.1	F1	ug/L		156	60 - 139
Vinyl chloride	ND	F2	25.0	32.7		ug/L		131	60 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	110		80 - 120						
4-Bromofluorobenzene (Surr)	99		80 - 120						
Dibromofluoromethane (Surr)	95		80 - 120						
Toluene-d8 (Surr)	96		80 - 120						

Lab Sample ID: 280-216167-H-9 MSD

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	23.7		ug/L		95	79 - 125	16	20
1,1,1,1-Tetrachloroethane	ND		25.0	23.5		ug/L		94	78 - 125	19	20
1,1,1,2,2-Tetrachloroethane	ND		25.0	25.6		ug/L		102	73 - 126	13	20
1,1,1,2-Trichloroethane	ND		25.0	23.3		ug/L		93	80 - 121	20	20
1,1-Dichloroethane	ND		25.0	24.3		ug/L		97	78 - 124	16	20
1,1-Dichloroethene	ND		25.0	22.8		ug/L		91	76 - 124	15	20
1,1-Dichloropropene	ND	F2	25.0	23.5	F2	ug/L		94	80 - 124	23	20
1,2,3-Trichlorobenzene	ND		25.0	21.2		ug/L		85	57 - 136	14	21
1,2,3-Trichloropropane	ND		25.0	24.9		ug/L		100	75 - 123	16	26
1,2,4-Trichlorobenzene	ND		25.0	20.7		ug/L		83	69 - 130	17	20
1,2,4-Trimethylbenzene	ND	F2	25.0	23.9	F2	ug/L		96	80 - 123	21	20
1,2-Dibromo-3-Chloropropane	ND		25.0	17.4		ug/L		70	64 - 130	19	20
1,2-Dibromoethane	ND		25.0	24.4		ug/L		98	80 - 120	15	20
1,2-Dichlorobenzene	ND		25.0	23.0		ug/L		92	80 - 120	17	20
1,2-Dichloroethane	ND	F1 F2	25.0	25.6	F2	ug/L		102	73 - 124	21	20
1,2-Dichloropropane	ND		25.0	23.9		ug/L		95	78 - 124	19	20
1,3,5-Trimethylbenzene	ND	F2	25.0	24.1	F2	ug/L		97	80 - 122	22	20
1,3-Dichlorobenzene	ND		25.0	22.5		ug/L		90	80 - 120	19	20
1,3-Dichloropropane	ND		25.0	25.9		ug/L		104	80 - 121	13	20
1,4-Dichlorobenzene	ND		25.0	23.8		ug/L		95	80 - 120	19	20
2,2-Dichloropropane	ND		25.0	21.1		ug/L		85	72 - 131	18	20
2-Butanone (MEK)	ND		100	96.2		ug/L		96	59 - 141	17	20
2-Chlorotoluene	ND		25.0	23.6		ug/L		94	80 - 120	20	20
2-Hexanone	ND		100	100		ug/L		100	59 - 146	19	20
4-Chlorotoluene	ND	F2	25.0	23.9	F2	ug/L		96	80 - 121	21	20
4-Isopropyltoluene	ND		25.0	23.8		ug/L		95	80 - 124	16	20
4-Methyl-2-pentanone (MIBK)	ND	F2	100	95.7	F2	ug/L		96	63 - 144	25	20
Acetone	ND		100	104		ug/L		104	57 - 143	9	22
Benzene	ND	F2	25.0	22.6	F2	ug/L		90	80 - 121	23	20
Bromobenzene	ND		25.0	22.9		ug/L		92	80 - 120	19	20
Bromochloromethane	ND		25.0	23.5		ug/L		94	76 - 126	17	20
Bromodichloromethane	ND		25.0	23.5		ug/L		94	80 - 124	17	20
Bromoform	ND		25.0	19.1		ug/L		76	66 - 134	16	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

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

Lab Sample ID: 280-216167-H-9 MSD

Matrix: Water

Analysis Batch: 722300

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
Bromomethane	ND		25.0	25.7		ug/L		103	10 - 150	20	58
Carbon disulfide	ND		25.0	22.9		ug/L		92	70 - 127	11	20
Carbon tetrachloride	ND		25.0	22.8		ug/L		91	72 - 131	18	20
Chlorobenzene	ND		25.0	23.0		ug/L		92	80 - 120	18	20
Chloroethane	ND		25.0	24.8		ug/L		99	51 - 149	28	34
Chloroform	ND		25.0	23.9		ug/L		95	80 - 120	19	20
Chloromethane	ND	F2	25.0	24.2	F2	ug/L		97	51 - 142	24	21
cis-1,2-Dichloroethene	3.1		25.0	25.1		ug/L		88	80 - 121	18	20
cis-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	77 - 127	14	20
Dibromochloromethane	ND	F1	25.0	18.0	F1	ug/L		72	77 - 128	16	20
Dibromomethane	ND		25.0	24.0		ug/L		96	80 - 120	16	20
Dichlorodifluoromethane	ND		25.0	26.5		ug/L		106	36 - 150	30	35
Ethylbenzene	ND		25.0	23.4		ug/L		94	80 - 120	15	20
Hexachlorobutadiene	ND		25.0	22.2		ug/L		89	66 - 135	14	20
Isopropylbenzene	ND		25.0	23.8		ug/L		95	78 - 123	15	20
Methylene Chloride	ND		25.0	23.4		ug/L		94	77 - 121	19	20
m-Xylene & p-Xylene	ND		25.0	23.5		ug/L		94	80 - 121	15	20
Naphthalene	ND		25.0	22.0		ug/L		88	55 - 135	19	23
n-Butylbenzene	ND		25.0	22.9		ug/L		92	73 - 131	19	25
N-Propylbenzene	ND		25.0	24.6		ug/L		98	80 - 123	16	20
o-Xylene	ND		25.0	23.1		ug/L		93	80 - 121	15	20
sec-Butylbenzene	ND		25.0	24.1		ug/L		96	80 - 125	18	20
Styrene	ND		25.0	23.9		ug/L		96	80 - 123	15	20
tert-Butylbenzene	ND		25.0	24.3		ug/L		97	80 - 121	17	20
Tetrachloroethene	ND		25.0	23.5		ug/L		94	79 - 125	16	20
Toluene	ND		25.0	21.6		ug/L		86	80 - 120	19	20
trans-1,2-Dichloroethene	ND		25.0	22.5		ug/L		90	78 - 123	19	20
trans-1,3-Dichloropropene	ND		25.0	20.6		ug/L		83	79 - 124	14	20
Trichloroethene	ND		25.0	24.9		ug/L		100	79 - 121	16	20
Trichlorofluoromethane	ND	F1 F2	25.0	29.9	F2	ug/L		120	60 - 139	27	25
Vinyl chloride	ND	F2	25.0	25.2	F2	ug/L		101	60 - 136	26	23

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-721157/1-A

Matrix: Water

Analysis Batch: 722277

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 721157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:24	1
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:24	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:24	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:24	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-721157/1-A

Matrix: Water

Analysis Batch: 722277

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 721157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		2.0	0.55	ug/L		11/04/25 16:38	11/11/25 15:24	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:38	11/11/25 15:24	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:38	11/11/25 15:24	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:38	11/11/25 15:24	1

Lab Sample ID: LCS 280-721157/2-A

Matrix: Water

Analysis Batch: 722277

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 721157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	98.4		ug/L		98	85 - 115
Arsenic	100	103		ug/L		103	85 - 115
Lead	100	101		ug/L		101	85 - 115
Nickel	100	101		ug/L		101	85 - 115
Barium	100	103		ug/L		103	85 - 115
Selenium	100	104		ug/L		104	85 - 115
Chromium	100	99.0		ug/L		99	85 - 115
Zinc	100	105		ug/L		105	85 - 115

Lab Sample ID: 280-216299-C-2-B MS

Matrix: Water

Analysis Batch: 722277

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 721157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		100	97.5		ug/L		97	75 - 125
Arsenic	4.7		100	106		ug/L		101	75 - 125
Lead	ND		100	98.8		ug/L		99	75 - 125
Nickel	ND		100	96.9		ug/L		97	75 - 125
Barium	59		100	157		ug/L		98	75 - 125
Selenium	ND		100	101		ug/L		101	75 - 125
Chromium	5.3		100	101		ug/L		96	75 - 125
Zinc	ND		100	99.6		ug/L		100	75 - 125

Lab Sample ID: 280-216299-C-2-C MSD

Matrix: Water

Analysis Batch: 722277

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 721157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		100	100		ug/L		100	75 - 125	3	20
Arsenic	4.7		100	110		ug/L		105	75 - 125	4	20
Lead	ND		100	101		ug/L		101	75 - 125	3	20
Nickel	ND		100	99.9		ug/L		100	75 - 125	3	20
Barium	59		100	164		ug/L		105	75 - 125	4	20
Selenium	ND		100	104		ug/L		104	75 - 125	3	20
Chromium	5.3		100	105		ug/L		100	75 - 125	4	20
Zinc	ND		100	106		ug/L		106	75 - 125	6	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-721264/1-A

Matrix: Water

Analysis Batch: 721821

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 721264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/05/25 10:19	11/07/25 03:10	1
Calcium	ND		200	60	ug/L		11/05/25 10:19	11/07/25 03:10	1
Iron	ND		100	40	ug/L		11/05/25 10:19	11/07/25 03:10	1
Magnesium	110	J	200	50	ug/L		11/05/25 10:19	11/07/25 03:10	1
Manganese	ND		10	2.5	ug/L		11/05/25 10:19	11/07/25 03:10	1
Sodium	ND		1000	450	ug/L		11/05/25 10:19	11/07/25 03:10	1

Lab Sample ID: LCS 280-721264/2-A

Matrix: Water

Analysis Batch: 721821

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 721264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1000	960		ug/L		96	85 - 115
Calcium	50000	47400		ug/L		95	85 - 115
Iron	10000	9570		ug/L		96	85 - 115
Magnesium	50000	47300		ug/L		95	85 - 115
Manganese	1000	965		ug/L		96	85 - 115
Sodium	50000	48400		ug/L		97	85 - 115

Lab Sample ID: 280-216285-1 MS

Matrix: Water

Analysis Batch: 721821

Client Sample ID: MW-18

Prep Type: Dissolved

Prep Batch: 721264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		1000	969		ug/L		97	75 - 125
Calcium	26000		50000	72100		ug/L		92	75 - 125
Iron	ND		10000	9550		ug/L		96	75 - 125
Magnesium	9400	B	50000	56400		ug/L		94	75 - 125
Manganese	ND		1000	962		ug/L		96	75 - 125
Sodium	11000		50000	58900		ug/L		96	75 - 125

Lab Sample ID: 280-216285-1 MSD

Matrix: Water

Analysis Batch: 721821

Client Sample ID: MW-18

Prep Type: Dissolved

Prep Batch: 721264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Arsenic	ND		1000	995		ug/L		99	75 - 125	3	20
Calcium	26000		50000	74100		ug/L		96	75 - 125	3	20
Iron	ND		10000	9830		ug/L		98	75 - 125	3	20
Magnesium	9400	B	50000	57900		ug/L		97	75 - 125	3	20
Manganese	ND		1000	986		ug/L		99	75 - 125	2	20
Sodium	11000		50000	61700		ug/L		101	75 - 125	5	20

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-721069/6

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/04/25 13:07	1

Lab Sample ID: LCS 280-721069/4

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	102		mg/L		102	90 - 110

Lab Sample ID: LCSD 280-721069/5

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	102		mg/L		102	90 - 110	0	10

Lab Sample ID: MRL 280-721069/3

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	3.31		mg/L		110	50 - 150

Lab Sample ID: 280-216285-3 MS

Matrix: Water

Analysis Batch: 721069

Client Sample ID: MW-21

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	89		50.0	142		mg/L		105	90 - 110

Lab Sample ID: 280-216285-3 MSD

Matrix: Water

Analysis Batch: 721069

Client Sample ID: MW-21

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	89		50.0	142		mg/L		105	90 - 110	0	15

Lab Sample ID: 280-216285-3 DU

Matrix: Water

Analysis Batch: 721069

Client Sample ID: MW-21

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	89		89.3		mg/L		0	15

Lab Sample ID: MB 280-721281/6

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/05/25 13:39	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 280-721281/4

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	100		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-721281/5

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-721281/3

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	3.23		mg/L		108	50 - 150

Lab Sample ID: 280-216265-C-1 MS

Matrix: Water

Analysis Batch: 721281

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	87		50.0	140		mg/L		104	90 - 110

Lab Sample ID: 280-216265-C-1 MSD

Matrix: Water

Analysis Batch: 721281

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	87		50.0	140		mg/L		104	90 - 110	0	15

Lab Sample ID: 280-216265-C-1 DU

Matrix: Water

Analysis Batch: 721281

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	87		87.3		mg/L		0.08	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-721601/6

Matrix: Water

Analysis Batch: 721601

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			11/06/25 18:54	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-216276-E-1 DU

Matrix: Water

Analysis Batch: 721601

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO3	150		153		mg/L		1	20

Lab Sample ID: MB 280-721820/6

Matrix: Water

Analysis Batch: 721820

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			11/07/25 12:07	1

Lab Sample ID: 280-216339-D-1 DU

Matrix: Water

Analysis Batch: 721820

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO3	67		67.2		mg/L		0.3	20

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

Lab Sample ID: MB 280-721047/1

Matrix: Water

Analysis Batch: 721047

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	6.0	mg/L			11/04/25 10:31	1

Lab Sample ID: LCS 280-721047/2

Matrix: Water

Analysis Batch: 721047

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	501	474		mg/L		95	88 - 114

Lab Sample ID: 280-216246-B-3 DU

Matrix: Water

Analysis Batch: 721047

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	1300		1290		mg/L		0.3	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-721312/1

Matrix: Water

Analysis Batch: 721312

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.5	mg/L			11/05/25 12:45	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 280-721312/2

Matrix: Water

Analysis Batch: 721312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	500	476		mg/L		95	80 - 114

Lab Sample ID: 280-216316-A-1 DU

Matrix: Water

Analysis Batch: 721312

Client Sample ID: Duplicate

Prep Type: Total/NA

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

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

GC/MS VOA

Analysis Batch: 722300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-1	MW-18	Total/NA	Water	8260D	
280-216285-2	MW-20	Total/NA	Water	8260D	
280-216285-3	MW-21	Total/NA	Water	8260D	
280-216285-4	MW-24	Total/NA	Water	8260D	
280-216285-5	Duplicate 1	Total/NA	Water	8260D	
280-216285-6	Duplicate 2	Total/NA	Water	8260D	
280-216285-7	TRIP BLANK	Total/NA	Water	8260D	
MB 280-722300/10	Method Blank	Total/NA	Water	8260D	
LCS 280-722300/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-722300/5	Lab Control Sample Dup	Total/NA	Water	8260D	
280-216167-H-9 MS	Matrix Spike	Total/NA	Water	8260D	
280-216167-H-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Metals

Prep Batch: 721157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-1	MW-18	Total/NA	Water	200.8	
280-216285-2	MW-20	Total/NA	Water	200.8	
280-216285-3	MW-21	Total/NA	Water	200.8	
280-216285-4	MW-24	Total/NA	Water	200.8	
280-216285-5	Duplicate 1	Total/NA	Water	200.8	
280-216285-6	Duplicate 2	Total/NA	Water	200.8	
MB 280-721157/1-A	Method Blank	Total/NA	Water	3005A	
LCS 280-721157/2-A	Lab Control Sample	Total/NA	Water	3005A	
280-216299-C-2-B MS	Matrix Spike	Total/NA	Water	200.8	
280-216299-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Prep Batch: 721264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-1	MW-18	Dissolved	Water	3005A	
280-216285-2	MW-20	Dissolved	Water	3005A	
280-216285-3	MW-21	Dissolved	Water	3005A	
280-216285-4	MW-24	Dissolved	Water	3005A	
280-216285-5	Duplicate 1	Dissolved	Water	3005A	
280-216285-6	Duplicate 2	Dissolved	Water	3005A	
MB 280-721264/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-721264/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-216285-1 MS	MW-18	Dissolved	Water	3005A	
280-216285-1 MSD	MW-18	Dissolved	Water	3005A	

Analysis Batch: 721821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-1	MW-18	Dissolved	Water	6010D	721264
280-216285-2	MW-20	Dissolved	Water	6010D	721264
280-216285-3	MW-21	Dissolved	Water	6010D	721264
280-216285-4	MW-24	Dissolved	Water	6010D	721264
280-216285-5	Duplicate 1	Dissolved	Water	6010D	721264
280-216285-6	Duplicate 2	Dissolved	Water	6010D	721264
MB 280-721264/1-A	Method Blank	Total Recoverable	Water	6010D	721264
LCS 280-721264/2-A	Lab Control Sample	Total Recoverable	Water	6010D	721264

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Metals (Continued)

Analysis Batch: 721821 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-1 MS	MW-18	Dissolved	Water	6010D	721264
280-216285-1 MSD	MW-18	Dissolved	Water	6010D	721264

Analysis Batch: 722277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-1	MW-18	Total/NA	Water	200.8	721157
280-216285-2	MW-20	Total/NA	Water	200.8	721157
280-216285-3	MW-21	Total/NA	Water	200.8	721157
280-216285-4	MW-24	Total/NA	Water	200.8	721157
280-216285-5	Duplicate 1	Total/NA	Water	200.8	721157
280-216285-6	Duplicate 2	Total/NA	Water	200.8	721157
MB 280-721157/1-A	Method Blank	Total/NA	Water	200.8	721157
LCS 280-721157/2-A	Lab Control Sample	Total/NA	Water	200.8	721157
280-216299-C-2-B MS	Matrix Spike	Total/NA	Water	200.8	721157
280-216299-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	721157

General Chemistry

Analysis Batch: 721047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-1	MW-18	Total/NA	Water	SM 2540C	
280-216285-2	MW-20	Total/NA	Water	SM 2540C	
280-216285-3	MW-21	Total/NA	Water	SM 2540C	
280-216285-4	MW-24	Total/NA	Water	SM 2540C	
280-216285-5	Duplicate 1	Total/NA	Water	SM 2540C	
280-216285-6	Duplicate 2	Total/NA	Water	SM 2540C	
MB 280-721047/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-721047/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-216246-B-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 721069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-2	MW-20	Total/NA	Water	300.0	
280-216285-3	MW-21	Total/NA	Water	300.0	
280-216285-4	MW-24	Total/NA	Water	300.0	
280-216285-5	Duplicate 1	Total/NA	Water	300.0	
280-216285-6	Duplicate 2	Total/NA	Water	300.0	
MB 280-721069/6	Method Blank	Total/NA	Water	300.0	
LCS 280-721069/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-721069/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-721069/3	Lab Control Sample	Total/NA	Water	300.0	
280-216285-3 MS	MW-21	Total/NA	Water	300.0	
280-216285-3 MSD	MW-21	Total/NA	Water	300.0	
280-216285-3 DU	MW-21	Total/NA	Water	300.0	

Analysis Batch: 721281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-1	MW-18	Total/NA	Water	300.0	
MB 280-721281/6	Method Blank	Total/NA	Water	300.0	
LCS 280-721281/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-721281/5	Lab Control Sample Dup	Total/NA	Water	300.0	

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QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

General Chemistry (Continued)

Analysis Batch: 721281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 280-721281/3	Lab Control Sample	Total/NA	Water	300.0	
280-216265-C-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-216265-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-216265-C-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 721312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-1	MW-18	Total/NA	Water	SM 2540D	
280-216285-2	MW-20	Total/NA	Water	SM 2540D	
280-216285-3	MW-21	Total/NA	Water	SM 2540D	
280-216285-4	MW-24	Total/NA	Water	SM 2540D	
280-216285-5	Duplicate 1	Total/NA	Water	SM 2540D	
280-216285-6	Duplicate 2	Total/NA	Water	SM 2540D	
MB 280-721312/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-721312/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-216316-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 721601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-2	MW-20	Total/NA	Water	SM 2320B	
280-216285-3	MW-21	Total/NA	Water	SM 2320B	
280-216285-4	MW-24	Total/NA	Water	SM 2320B	
MB 280-721601/6	Method Blank	Total/NA	Water	SM 2320B	
280-216276-E-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 721820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216285-1	MW-18	Total/NA	Water	SM 2320B	
280-216285-5	Duplicate 1	Total/NA	Water	SM 2320B	
280-216285-6	Duplicate 2	Total/NA	Water	SM 2320B	
MB 280-721820/6	Method Blank	Total/NA	Water	SM 2320B	
280-216339-D-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Client Sample ID: MW-18

Date Collected: 10/30/25 08:50

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-1

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	8260D		1	5 mL	5 mL	722300	11/12/25 01:58	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	721157	11/04/25 16:38	AMH	EET DEN
Total/NA	Analysis	200.8		1			722277	11/11/25 15:35	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721264	11/05/25 10:19	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 03:29	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	721281	11/05/25 21:25	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721820	11/07/25 12:35	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721312	11/05/25 12:45	YBF	EET DEN

Client Sample ID: MW-20

Date Collected: 10/30/25 11:05

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-2

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	8260D		1	5 mL	5 mL	722300	11/12/25 02:19	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	721157	11/04/25 16:38	AMH	EET DEN
Total/NA	Analysis	200.8		1			722277	11/11/25 15:38	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721264	11/05/25 10:19	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 03:48	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	721069	11/04/25 18:04	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 20:35	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721312	11/05/25 12:45	YBF	EET DEN

Client Sample ID: MW-21

Date Collected: 10/30/25 10:30

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-3

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	8260D		1	5 mL	5 mL	722300	11/12/25 02:40	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	721157	11/04/25 16:38	AMH	EET DEN
Total/NA	Analysis	200.8		1			722277	11/11/25 15:42	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721264	11/05/25 10:19	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 03:52	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	721069	11/04/25 18:33	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 20:42	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721312	11/05/25 12:45	YBF	EET DEN

Eurofins Denver

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Client Sample ID: MW-24

Date Collected: 10/30/25 12:10

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	722300	11/12/25 03:01	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	721157	11/04/25 16:38	AMH	EET DEN
Total/NA	Analysis	200.8		1			722277	11/11/25 15:46	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721264	11/05/25 10:19	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 03:56	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	721069	11/04/25 19:29	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 20:47	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721312	11/05/25 12:45	YBF	EET DEN

Client Sample ID: Duplicate 1

Date Collected: 10/30/25 07:00

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-5

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	8260D		1	5 mL	5 mL	722300	11/12/25 03:23	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	721157	11/04/25 16:38	AMH	EET DEN
Total/NA	Analysis	200.8		1			722277	11/11/25 15:49	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721264	11/05/25 10:19	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 04:00	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	721069	11/04/25 19:43	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721820	11/07/25 12:39	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721312	11/05/25 12:45	YBF	EET DEN

Client Sample ID: Duplicate 2

Date Collected: 10/29/25 07:00

Date Received: 10/31/25 09:20

Lab Sample ID: 280-216285-6

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	8260D		1	5 mL	5 mL	722300	11/12/25 03:44	ETB	EET DEN
Total/NA	Prep	200.8			50 mL	50 mL	721157	11/04/25 16:38	AMH	EET DEN
Total/NA	Analysis	200.8		1			722277	11/11/25 15:53	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721264	11/05/25 10:19	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 04:15	CAF	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	721069	11/04/25 20:11	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721820	11/07/25 12:43	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	721047	11/04/25 10:31	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	721312	11/05/25 12:45	YBF	EET DEN

Eurofins Denver

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216285-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-216285-7

Date Collected: 10/30/25 07:00

Matrix: Water

Date Received: 10/31/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	722300	11/11/25 23:09	ETB	EET DEN

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

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Chain of Custody Record



Client Information Company: Valley Landfills, Inc. Republic Services Address: 28972 Coffin Butte Road City: Corvallis State, Zip: OR, 97330 Phone: 503-675-1335 (Tel) Email: Project Name: Coffin Butte Landfill Site: Detection Wells		Sampler: Nick Rudolph Lab PM: Collins, Janice S Phone: 503 580 6462 E-Mail: Janice.Collins@eurofins.com		Carrier Tracking No(s): COC No: 280-97584-22898.1 Page: Job #:	
Analysis Requested					
Due Date Requested: TAT Requested (days): 30 Compliance Project: ☐ Yes ☒ No PO #: PO# 1584668 WO #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Project #: 28003197 "GW_SLCS_Leachate" SSOW#:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Sample Identification		Total Number of Containers			
Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=soil, B=biomass, A=air)		Special Instructions/Note:			
MW-18 MW-20 MW-21 MW-24 Duplicate 1 Duplicate 2		524.2 - VOCs - Oregon Drinking Water List - (Philips) 8250D - VOCs 2540D - TSS 200.8 - Total Metals T1 list 6010D - Dissolved Metals - GW (6) (FF) 2540C/300 - TDS/Chloride 2320B - Bicarb Alkalinity Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposition: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: [Signature] Date/Time: 10/30/15 1455 Company: GLA		Received by: [Signature] Date/Time: 10-31-25 0730 Company:			
Relinquished by:		Received by:			
Relinquished by:		Received by:			
Custody Seals Intact: ☒ Yes ☐ No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-216285-1

Login Number: 216285

List Source: Eurofins Denver

List Number: 1

Creator: Johnston, Michelle A

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761
Generated 11/13/2025 12:02:58 AM

JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-216301-1

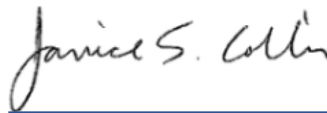
Eurofins Denver

Job Notes

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

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
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.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Job ID: 280-216301-1

Eurofins Denver

Job Narrative 280-216301-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 11/1/2025 9:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

GC/MS VOA

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: 280-216301-1. Elevated reporting limits (RLs) are provided.

Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with significant headspace in the sample container(s): 280-216301-1. Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: 280-216301-1. The affected sample has a reported pH of 8.

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-722331 recovered outside acceptance criteria, low biased, for Dibromochloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated samples are: 280-216301-1, CCVIS 280-722331/2 and CCVL 280-722331/8.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-722331. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. The associated sample is: 280-216301-1.

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

Metals

Method 200.8: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 280-216301-1. The reporting limits (RLs) have been adjusted proportionately.

Method 6010D - Dissolved: The method blank associated with preparation batch 280-721264 and analytical batch 280-721821 contained Mg greater than one-half the reporting limit (RL). The samples were not re-analyzed because samples were greater than 10x the value found in the blank. The sample results have been qualified and reported.

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

General Chemistry

Method 2320B: The method blank for analytical batch 280-721754 contained Bicarbonate Alkalinity as CaCO₃ above the reporting limit (RL). Associated samples were not re-analyzed because results were greater than 10X the value found in the method blank.

Method 350.1: The matrix spike (MS) recoveries for analytical batch 280-721176 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Job ID: 280-216301-1 (Continued)

Eurofins Denver

Method 410.4: The following sample was analyzed at a dilution due to the chloride pre-screening results: 280-216301-1. Elevated reporting limits are provided.

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

Eurofins Denver

Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Client Sample ID: L-POND

Lab Sample ID: 280-216301-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.3	J	4.0	1.0	ug/L	4			8260D	Total/NA
1,2-Dichloroethane	1.4	J	4.0	1.0	ug/L	4			8260D	Total/NA
1,4-Dichlorobenzene	1.3	J	4.0	1.0	ug/L	4			8260D	Total/NA
2-Butanone (MEK)	1400		40	16	ug/L	4			8260D	Total/NA
4-Chlorotoluene	5.3		4.0	1.0	ug/L	4			8260D	Total/NA
4-Isopropyltoluene	4.0		4.0	1.0	ug/L	4			8260D	Total/NA
4-Methyl-2-pentanone (MIBK)	69		20	6.0	ug/L	4			8260D	Total/NA
Acetone	1200		60	20	ug/L	4			8260D	Total/NA
Benzene	4.8		4.0	1.0	ug/L	4			8260D	Total/NA
Carbon disulfide	3.6	J	8.0	2.0	ug/L	4			8260D	Total/NA
cis-1,2-Dichloroethene	1.2	J	4.0	1.0	ug/L	4			8260D	Total/NA
Ethylbenzene	5.8		4.0	1.0	ug/L	4			8260D	Total/NA
m-Xylene & p-Xylene	9.5		8.0	2.0	ug/L	4			8260D	Total/NA
Naphthalene	7.4	J	12	4.0	ug/L	4			8260D	Total/NA
o-Xylene	5.5		4.0	1.0	ug/L	4			8260D	Total/NA
Toluene	22		4.0	1.0	ug/L	4			8260D	Total/NA
Antimony	23		10	2.5	ug/L	1			200.8	Total/NA
Arsenic	150		10	2.5	ug/L	1			200.8	Total/NA
Nickel	200		15	5.0	ug/L	1			200.8	Total/NA
Barium	680		10	2.8	ug/L	1			200.8	Total/NA
Chromium	230		15	5.0	ug/L	1			200.8	Total/NA
Cobalt	56		5.0	1.3	ug/L	1			200.8	Total/NA
Copper	8.0	J	10	5.0	ug/L	1			200.8	Total/NA
Vanadium	220	B	25	7.5	ug/L	1			200.8	Total/NA
Zinc	57		50	25	ug/L	1			200.8	Total/NA
Calcium	140000		200	60	ug/L	1			6010D	Dissolved
Iron	500		100	40	ug/L	1			6010D	Dissolved
Magnesium	160000	B	200	50	ug/L	1			6010D	Dissolved
Manganese	1400		10	2.5	ug/L	1			6010D	Dissolved
Potassium	620000		7500	2500	ug/L	5			6010D	Dissolved
Silicon	35000		500	150	ug/L	1			6010D	Dissolved
Sodium	2300000		5000	2300	ug/L	5			6010D	Dissolved
Chloride	3700		150	65	mg/L	50			300.0	Total/NA
Sulfate	1.5	J	3.0	1.3	mg/L	1			300.0	Total/NA
Ammonia	1200		50	20	mg/L	500			350.1	Total/NA
Chemical Oxygen Demand	2400		1000	500	mg/L	50			410.4	Total/NA
Bicarbonate Alkalinity as CaCO3	6100	B	10	7.0	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	11000		1000	600	mg/L	1			SM 2540C	Total/NA
Total Suspended Solids	27		5.0	1.9	mg/L	1			SM 2540D	Total/NA
Total Organic Carbon - Average	4600		200	80	mg/L	200			SM 5310B	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
410.4	COD	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
200.8	Preparation, Total Metals	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
280-216301-1	L-POND	Water	10/30/25 17:27	11/01/25 09:55	Oregon

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: L-POND
Date Collected: 10/30/25 17:27
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216301-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,1,1-Trichloroethane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,1,2,2-Tetrachloroethane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,1,2-Trichloroethane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,1-Dichloroethane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,1-Dichloroethene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,1-Dichloropropene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,2,3-Trichlorobenzene	ND		16	4.0	ug/L			11/12/25 16:49	4
1,2,3-Trichloropropane	ND		8.0	2.0	ug/L			11/12/25 16:49	4
1,2,4-Trichlorobenzene	ND		4.0	2.0	ug/L			11/12/25 16:49	4
1,2,4-Trimethylbenzene	2.3	J	4.0	1.0	ug/L			11/12/25 16:49	4
1,2-Dibromo-3-Chloropropane	ND		20	6.0	ug/L			11/12/25 16:49	4
1,2-Dibromoethane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,2-Dichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,2-Dichloroethane	1.4	J	4.0	1.0	ug/L			11/12/25 16:49	4
1,2-Dichloropropane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,3,5-Trimethylbenzene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,3-Dichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,3-Dichloropropane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
1,4-Dichlorobenzene	1.3	J	4.0	1.0	ug/L			11/12/25 16:49	4
2,2-Dichloropropane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
2-Butanone (MEK)	1400		40	16	ug/L			11/12/25 16:49	4
2-Chlorotoluene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
2-Hexanone	ND		20	6.0	ug/L			11/12/25 16:49	4
4-Chlorotoluene	5.3		4.0	1.0	ug/L			11/12/25 16:49	4
4-Isopropyltoluene	4.0		4.0	1.0	ug/L			11/12/25 16:49	4
4-Methyl-2-pentanone (MIBK)	69		20	6.0	ug/L			11/12/25 16:49	4
Acetone	1200		60	20	ug/L			11/12/25 16:49	4
Benzene	4.8		4.0	1.0	ug/L			11/12/25 16:49	4
Bromobenzene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Bromochloromethane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Bromodichloromethane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Bromoform	ND		8.0	2.0	ug/L			11/12/25 16:49	4
Bromomethane	ND		20	10	ug/L			11/12/25 16:49	4
Carbon disulfide	3.6	J	8.0	2.0	ug/L			11/12/25 16:49	4
Carbon tetrachloride	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Chlorobenzene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Chloroethane	ND		8.0	2.0	ug/L			11/12/25 16:49	4
Chloroform	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Chloromethane	ND		8.0	2.0	ug/L			11/12/25 16:49	4
cis-1,2-Dichloroethene	1.2	J	4.0	1.0	ug/L			11/12/25 16:49	4
cis-1,3-Dichloropropene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Dibromochloromethane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Dibromomethane	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Dichlorodifluoromethane	ND		8.0	2.0	ug/L			11/12/25 16:49	4
Ethylbenzene	5.8		4.0	1.0	ug/L			11/12/25 16:49	4
Hexachlorobutadiene	ND		8.0	2.0	ug/L			11/12/25 16:49	4
Isopropylbenzene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Methylene Chloride	ND		8.0	4.0	ug/L			11/12/25 16:49	4

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

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

Client Sample ID: L-POND
Date Collected: 10/30/25 17:27
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216301-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	9.5		8.0	2.0	ug/L			11/12/25 16:49	4
Naphthalene	7.4	J	12	4.0	ug/L			11/12/25 16:49	4
n-Butylbenzene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
N-Propylbenzene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
o-Xylene	5.5		4.0	1.0	ug/L			11/12/25 16:49	4
sec-Butylbenzene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Styrene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
tert-Butylbenzene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Tetrachloroethene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Toluene	22		4.0	1.0	ug/L			11/12/25 16:49	4
trans-1,2-Dichloroethene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
trans-1,3-Dichloropropene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Trichloroethene	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Trichlorofluoromethane	ND		8.0	2.0	ug/L			11/12/25 16:49	4
Vinyl chloride	ND		4.0	1.0	ug/L			11/12/25 16:49	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		80 - 120					11/12/25 16:49	4
4-Bromofluorobenzene (Surr)	98		80 - 120					11/12/25 16:49	4
Dibromofluoromethane (Surr)	100		80 - 120					11/12/25 16:49	4
Toluene-d8 (Surr)	96		80 - 120					11/12/25 16:49	4

Method: EPA 200.8 - Metals (ICP/MS)

Client Sample ID: L-POND
Date Collected: 10/30/25 17:27
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216301-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	23		10	2.5	ug/L		11/04/25 16:03	11/09/25 16:21	1
Arsenic	150		10	2.5	ug/L		11/04/25 16:03	11/09/25 16:21	1
Lead	ND		5.0	2.5	ug/L		11/04/25 16:03	11/09/25 16:21	1
Nickel	200		15	5.0	ug/L		11/04/25 16:03	11/09/25 16:21	1
Barium	680		10	2.8	ug/L		11/04/25 16:03	11/09/25 16:21	1
Selenium	ND		10	2.5	ug/L		11/04/25 16:03	11/09/25 16:21	1
Beryllium	ND		5.0	1.3	ug/L		11/04/25 16:03	11/09/25 16:21	1
Cadmium	ND		5.0	1.3	ug/L		11/04/25 16:03	11/09/25 16:21	1
Chromium	230		15	5.0	ug/L		11/04/25 16:03	11/09/25 16:21	1
Cobalt	56		5.0	1.3	ug/L		11/04/25 16:03	11/09/25 16:21	1
Copper	8.0	J	10	5.0	ug/L		11/04/25 16:03	11/09/25 16:21	1
Silver	ND		5.0	1.3	ug/L		11/04/25 16:03	11/09/25 16:21	1
Thallium	ND		5.0	1.3	ug/L		11/04/25 16:03	11/09/25 16:21	1
Vanadium	220	B	25	7.5	ug/L		11/04/25 16:03	11/09/25 16:21	1
Zinc	57		50	25	ug/L		11/04/25 16:03	11/09/25 16:21	1

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

Client Sample ID: L-POND
Date Collected: 10/30/25 17:27
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216301-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140000		200	60	ug/L		11/05/25 10:19	11/07/25 04:19	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Client Sample ID: L-POND
Date Collected: 10/30/25 17:27
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216301-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	500		100	40	ug/L		11/05/25 10:19	11/07/25 04:19	1
Magnesium	160000	B	200	50	ug/L		11/05/25 10:19	11/07/25 04:19	1
Manganese	1400		10	2.5	ug/L		11/05/25 10:19	11/07/25 04:19	1
Potassium	620000		7500	2500	ug/L		11/05/25 10:19	11/11/25 00:34	5
Silicon	35000		500	150	ug/L		11/05/25 10:19	11/07/25 04:19	1
Sodium	2300000		5000	2300	ug/L		11/05/25 10:19	11/11/25 00:34	5

General Chemistry

Client Sample ID: L-POND
Date Collected: 10/30/25 17:27
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216301-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3700		150	65	mg/L			11/05/25 02:30	50
Sulfate (EPA 300.0)	1.5	J	3.0	1.3	mg/L			11/05/25 02:02	1
Ammonia (EPA 350.1)	1200		50	20	mg/L			11/04/25 18:02	500
Nitrate Nitrite as N (EPA 353.2)	ND		0.20	0.060	mg/L			11/05/25 13:03	1
Chemical Oxygen Demand (EPA 410.4)	2400		1000	500	mg/L			11/04/25 08:59	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	6100	B	10	7.0	mg/L			11/07/25 20:53	1
Total Dissolved Solids (SM 2540C)	11000		1000	600	mg/L			11/04/25 10:32	1
Total Suspended Solids (SM 2540D)	27		5.0	1.9	mg/L			11/05/25 12:45	1
Total Organic Carbon - Average (SM 5310B)	4600		200	80	mg/L			11/06/25 04:55	200

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(80-120)	(80-120)	(80-120)	(80-120)
280-216301-1	L-POND	115	98	100	96
LCS 280-722331/4	Lab Control Sample	106	100	98	96
LCSD 280-722331/5	Lab Control Sample Dup	106	98	97	99
MB 280-722331/10	Method Blank	108	106	95	95
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-722331/10

Matrix: Water

Analysis Batch: 722331

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 10:26	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/12/25 10:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/12/25 10:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/12/25 10:26	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/12/25 10:26	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
2-Hexanone	ND		5.0	1.5	ug/L			11/12/25 10:26	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/12/25 10:26	1
Acetone	ND		15	5.0	ug/L			11/12/25 10:26	1
Benzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Bromobenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Bromoform	ND		2.0	0.50	ug/L			11/12/25 10:26	1
Bromomethane	ND		5.0	2.5	ug/L			11/12/25 10:26	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/12/25 10:26	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Chloroethane	ND		2.0	0.50	ug/L			11/12/25 10:26	1
Chloroform	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Chloromethane	ND		2.0	0.50	ug/L			11/12/25 10:26	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Dibromomethane	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/12/25 10:26	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/12/25 10:26	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

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

Lab Sample ID: MB 280-722331/10

Matrix: Water

Analysis Batch: 722331

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	1.0	ug/L			11/12/25 10:26	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/12/25 10:26	1
Naphthalene	ND		3.0	1.0	ug/L			11/12/25 10:26	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
o-Xylene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Styrene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Toluene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Trichloroethene	ND		1.0	0.25	ug/L			11/12/25 10:26	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/12/25 10:26	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/12/25 10:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		11/12/25 10:26	1
4-Bromofluorobenzene (Surr)	106		80 - 120		11/12/25 10:26	1
Dibromofluoromethane (Surr)	95		80 - 120		11/12/25 10:26	1
Toluene-d8 (Surr)	95		80 - 120		11/12/25 10:26	1

Lab Sample ID: LCS 280-722331/4

Matrix: Water

Analysis Batch: 722331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.4		ug/L		97	79 - 125
1,1,1-Trichloroethane	50.0	47.7		ug/L		95	78 - 125
1,1,2,2-Tetrachloroethane	50.0	52.1		ug/L		104	73 - 126
1,1,2-Trichloroethane	50.0	50.3		ug/L		101	80 - 121
1,1-Dichloroethane	50.0	46.3		ug/L		93	78 - 124
1,1-Dichloroethene	50.0	45.7		ug/L		91	76 - 124
1,1-Dichloropropene	50.0	47.5		ug/L		95	80 - 124
1,2,3-Trichlorobenzene	50.0	42.8		ug/L		86	57 - 136
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	75 - 123
1,2,4-Trichlorobenzene	50.0	44.3		ug/L		89	69 - 130
1,2,4-Trimethylbenzene	50.0	48.9		ug/L		98	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	40.9		ug/L		82	64 - 130
1,2-Dibromoethane	50.0	50.0		ug/L		100	80 - 120
1,2-Dichlorobenzene	50.0	47.0		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	50.8		ug/L		102	73 - 124
1,2-Dichloropropane	50.0	48.1		ug/L		96	78 - 124
1,3,5-Trimethylbenzene	50.0	49.7		ug/L		99	80 - 122
1,3-Dichlorobenzene	50.0	46.0		ug/L		92	80 - 120
1,3-Dichloropropane	50.0	51.5		ug/L		103	80 - 121
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

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

Lab Sample ID: LCS 280-722331/4

Matrix: Water

Analysis Batch: 722331

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	50.0	48.8		ug/L		98	72 - 131
2-Butanone (MEK)	200	204		ug/L		102	59 - 141
2-Chlorotoluene	50.0	48.8		ug/L		98	80 - 120
2-Hexanone	200	207		ug/L		104	59 - 146
4-Chlorotoluene	50.0	49.0		ug/L		98	80 - 121
4-Isopropyltoluene	50.0	48.7		ug/L		97	80 - 124
4-Methyl-2-pentanone (MIBK)	200	207		ug/L		103	63 - 144
Acetone	200	211		ug/L		106	57 - 143
Benzene	50.0	45.8		ug/L		92	80 - 121
Bromobenzene	50.0	47.6		ug/L		95	80 - 120
Bromochloromethane	50.0	49.1		ug/L		98	76 - 126
Bromodichloromethane	50.0	49.6		ug/L		99	80 - 124
Bromoform	50.0	43.5		ug/L		87	66 - 134
Bromomethane	50.0	53.4		ug/L		107	10 - 150
Carbon disulfide	50.0	45.2		ug/L		90	70 - 127
Carbon tetrachloride	50.0	46.7		ug/L		93	72 - 131
Chlorobenzene	50.0	46.2		ug/L		92	80 - 120
Chloroethane	50.0	55.9		ug/L		112	51 - 149
Chloroform	50.0	48.8		ug/L		98	80 - 120
Chloromethane	50.0	53.1		ug/L		106	51 - 142
cis-1,2-Dichloroethene	50.0	45.4		ug/L		91	80 - 121
cis-1,3-Dichloropropene	50.0	49.4		ug/L		99	77 - 127
Dibromochloromethane	50.0	39.1		ug/L		78	77 - 128
Dibromomethane	50.0	49.4		ug/L		99	80 - 120
Dichlorodifluoromethane	50.0	52.3		ug/L		105	36 - 150
Ethylbenzene	50.0	45.1		ug/L		90	80 - 120
Hexachlorobutadiene	50.0	47.8		ug/L		96	66 - 135
Isopropylbenzene	50.0	47.9		ug/L		96	78 - 123
Methylene Chloride	50.0	50.5		ug/L		101	77 - 121
m-Xylene & p-Xylene	50.0	47.2		ug/L		94	80 - 121
Naphthalene	50.0	48.3		ug/L		97	55 - 135
n-Butylbenzene	50.0	49.8		ug/L		100	73 - 131
N-Propylbenzene	50.0	49.4		ug/L		99	80 - 123
o-Xylene	50.0	46.9		ug/L		94	80 - 121
sec-Butylbenzene	50.0	48.9		ug/L		98	80 - 125
Styrene	50.0	50.3		ug/L		101	80 - 123
tert-Butylbenzene	50.0	49.3		ug/L		99	80 - 121
Tetrachloroethene	50.0	46.4		ug/L		93	79 - 125
Toluene	50.0	44.7		ug/L		89	80 - 120
trans-1,2-Dichloroethene	50.0	44.6		ug/L		89	78 - 123
trans-1,3-Dichloropropene	50.0	45.1		ug/L		90	79 - 124
Trichloroethene	50.0	46.0		ug/L		92	79 - 121
Trichlorofluoromethane	50.0	57.6		ug/L		115	60 - 139
Vinyl chloride	50.0	53.1		ug/L		106	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

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

Lab Sample ID: LCS 280-722331/4

Matrix: Water

Analysis Batch: 722331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 280-722331/5

Matrix: Water

Analysis Batch: 722331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.7		ug/L		101	79 - 125	4	20
1,1,1-Trichloroethane	50.0	46.7		ug/L		93	78 - 125	2	20
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	73 - 126	4	20
1,1,2-Trichloroethane	50.0	48.1		ug/L		96	80 - 121	4	20
1,1-Dichloroethane	50.0	45.7		ug/L		91	78 - 124	1	20
1,1-Dichloroethene	50.0	43.4		ug/L		87	76 - 124	5	20
1,1-Dichloropropene	50.0	46.4		ug/L		93	80 - 124	2	20
1,2,3-Trichlorobenzene	50.0	45.7		ug/L		91	57 - 136	7	21
1,2,3-Trichloropropane	50.0	49.5		ug/L		99	75 - 123	3	26
1,2,4-Trichlorobenzene	50.0	45.9		ug/L		92	69 - 130	3	20
1,2,4-Trimethylbenzene	50.0	48.1		ug/L		96	80 - 123	2	20
1,2-Dibromo-3-Chloropropane	50.0	41.5		ug/L		83	64 - 130	1	20
1,2-Dibromoethane	50.0	50.7		ug/L		101	80 - 120	1	20
1,2-Dichlorobenzene	50.0	46.8		ug/L		94	80 - 120	0	20
1,2-Dichloroethane	50.0	50.3		ug/L		101	73 - 124	1	20
1,2-Dichloropropane	50.0	47.9		ug/L		96	78 - 124	0	20
1,3,5-Trimethylbenzene	50.0	48.2		ug/L		96	80 - 122	3	20
1,3-Dichlorobenzene	50.0	45.4		ug/L		91	80 - 120	1	20
1,3-Dichloropropane	50.0	51.0		ug/L		102	80 - 121	1	20
1,4-Dichlorobenzene	50.0	48.6		ug/L		97	80 - 120	1	20
2,2-Dichloropropane	50.0	47.0		ug/L		94	72 - 131	4	20
2-Butanone (MEK)	200	200		ug/L		100	59 - 141	2	20
2-Chlorotoluene	50.0	46.7		ug/L		93	80 - 120	4	20
2-Hexanone	200	207		ug/L		103	59 - 146	0	20
4-Chlorotoluene	50.0	46.6		ug/L		93	80 - 121	5	20
4-Isopropyltoluene	50.0	47.4		ug/L		95	80 - 124	3	20
4-Methyl-2-pentanone (MIBK)	200	206		ug/L		103	63 - 144	0	20
Acetone	200	206		ug/L		103	57 - 143	2	22
Benzene	50.0	45.0		ug/L		90	80 - 121	2	20
Bromobenzene	50.0	47.1		ug/L		94	80 - 120	1	20
Bromochloromethane	50.0	45.8		ug/L		92	76 - 126	7	20
Bromodichloromethane	50.0	49.8		ug/L		100	80 - 124	1	20
Bromoform	50.0	42.7		ug/L		85	66 - 134	2	20
Bromomethane	50.0	52.5		ug/L		105	10 - 150	2	58
Carbon disulfide	50.0	43.9		ug/L		88	70 - 127	3	20
Carbon tetrachloride	50.0	45.8		ug/L		92	72 - 131	2	20
Chlorobenzene	50.0	45.7		ug/L		91	80 - 120	1	20
Chloroethane	50.0	53.9		ug/L		108	51 - 149	4	34
Chloroform	50.0	47.6		ug/L		95	80 - 120	3	20
Chloromethane	50.0	53.2		ug/L		106	51 - 142	0	21

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

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

Lab Sample ID: LCSD 280-722331/5

Matrix: Water

Analysis Batch: 722331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	50.0	43.4		ug/L		87	80 - 121	4	20
cis-1,3-Dichloropropene	50.0	52.7		ug/L		105	77 - 127	6	20
Dibromochloromethane	50.0	39.8		ug/L		80	77 - 128	2	20
Dibromomethane	50.0	47.3		ug/L		95	80 - 120	4	20
Dichlorodifluoromethane	50.0	54.2		ug/L		108	36 - 150	3	35
Ethylbenzene	50.0	44.8		ug/L		90	80 - 120	1	20
Hexachlorobutadiene	50.0	47.2		ug/L		94	66 - 135	1	20
Isopropylbenzene	50.0	47.0		ug/L		94	78 - 123	2	20
Methylene Chloride	50.0	48.0		ug/L		96	77 - 121	5	20
m-Xylene & p-Xylene	50.0	46.7		ug/L		93	80 - 121	1	20
Naphthalene	50.0	49.6		ug/L		99	55 - 135	3	23
n-Butylbenzene	50.0	47.9		ug/L		96	73 - 131	4	25
N-Propylbenzene	50.0	48.3		ug/L		97	80 - 123	2	20
o-Xylene	50.0	46.5		ug/L		93	80 - 121	1	20
sec-Butylbenzene	50.0	47.8		ug/L		96	80 - 125	2	20
Styrene	50.0	49.7		ug/L		99	80 - 123	1	20
tert-Butylbenzene	50.0	48.2		ug/L		96	80 - 121	2	20
Tetrachloroethene	50.0	46.2		ug/L		92	79 - 125	0	20
Toluene	50.0	44.1		ug/L		88	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	44.4		ug/L		89	78 - 123	0	20
trans-1,3-Dichloropropene	50.0	44.4		ug/L		89	79 - 124	2	20
Trichloroethene	50.0	48.2		ug/L		96	79 - 121	5	20
Trichlorofluoromethane	50.0	57.8		ug/L		116	60 - 139	0	25
Vinyl chloride	50.0	53.1		ug/L		106	60 - 136	0	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-721148/1-A

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 721148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 15:51	1
Arsenic	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 15:51	1
Lead	ND		1.0	0.50	ug/L		11/04/25 16:03	11/09/25 15:51	1
Nickel	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 15:51	1
Barium	ND		2.0	0.55	ug/L		11/04/25 16:03	11/09/25 15:51	1
Selenium	ND		2.0	0.50	ug/L		11/04/25 16:03	11/09/25 15:51	1
Beryllium	ND		1.0	0.25	ug/L		11/04/25 16:03	11/09/25 15:51	1
Cadmium	ND		1.0	0.25	ug/L		11/04/25 16:03	11/09/25 15:51	1
Chromium	ND		3.0	1.0	ug/L		11/04/25 16:03	11/09/25 15:51	1
Cobalt	ND		1.0	0.25	ug/L		11/04/25 16:03	11/09/25 15:51	1
Copper	ND		2.0	1.0	ug/L		11/04/25 16:03	11/09/25 15:51	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-721148/1-A

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 721148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.25	ug/L		11/04/25 16:03	11/09/25 15:51	1
Thallium	ND		1.0	0.25	ug/L		11/04/25 16:03	11/09/25 15:51	1
Vanadium	1.50	J	5.0	1.5	ug/L		11/04/25 16:03	11/09/25 15:51	1
Zinc	ND		10	5.0	ug/L		11/04/25 16:03	11/09/25 15:51	1

Lab Sample ID: LCS 280-721148/2-A

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 721148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	95.2		ug/L		95	85 - 115
Arsenic	100	96.0		ug/L		96	85 - 115
Lead	100	96.1		ug/L		96	85 - 115
Nickel	100	95.1		ug/L		95	85 - 115
Barium	100	98.5		ug/L		99	85 - 115
Selenium	100	96.2		ug/L		96	85 - 115
Beryllium	100	96.1		ug/L		96	85 - 115
Cadmium	100	93.3		ug/L		93	85 - 115
Chromium	100	97.9		ug/L		98	85 - 115
Cobalt	100	94.8		ug/L		95	85 - 115
Copper	100	96.8		ug/L		97	85 - 115
Silver	100	101		ug/L		101	85 - 115
Thallium	100	98.2		ug/L		98	85 - 115
Vanadium	100	98.7		ug/L		99	85 - 115
Zinc	100	95.5		ug/L		96	85 - 115

Lab Sample ID: 280-216221-C-8-B MS

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 721148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		100	96.0		ug/L		96	75 - 125
Arsenic	ND		100	95.9		ug/L		96	75 - 125
Lead	ND		100	95.2		ug/L		95	75 - 125
Nickel	1.2	J	100	96.0		ug/L		95	75 - 125
Barium	100		100	196		ug/L		96	75 - 125
Selenium	3.3		100	101		ug/L		97	75 - 125
Beryllium	ND		100	95.7		ug/L		96	75 - 125
Cadmium	ND		100	94.3		ug/L		94	75 - 125
Chromium	11		100	108		ug/L		98	75 - 125
Cobalt	ND		100	94.5		ug/L		95	75 - 125
Copper	ND		100	96.1		ug/L		96	75 - 125
Silver	ND		100	101		ug/L		101	75 - 125
Thallium	ND		100	97.8		ug/L		98	75 - 125
Vanadium	ND		100	98.6		ug/L		99	75 - 125
Zinc	ND		100	97.6		ug/L		98	75 - 125

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-216221-C-8-C MSD

Matrix: Water

Analysis Batch: 721903

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 721148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		100	94.8		ug/L		95	75 - 125	1	20
Arsenic	ND		100	97.1		ug/L		97	75 - 125	1	20
Lead	ND		100	94.4		ug/L		94	75 - 125	1	20
Nickel	1.2	J	100	95.2		ug/L		94	75 - 125	1	20
Barium	100		100	196		ug/L		96	75 - 125	0	20
Selenium	3.3		100	100		ug/L		97	75 - 125	1	20
Beryllium	ND		100	95.8		ug/L		96	75 - 125	0	20
Cadmium	ND		100	92.2		ug/L		92	75 - 125	2	20
Chromium	11		100	107		ug/L		97	75 - 125	1	20
Cobalt	ND		100	93.1		ug/L		93	75 - 125	2	20
Copper	ND		100	96.2		ug/L		96	75 - 125	0	20
Silver	ND		100	100		ug/L		100	75 - 125	0	20
Thallium	ND		100	95.8		ug/L		96	75 - 125	2	20
Vanadium	ND		100	99.3		ug/L		99	75 - 125	1	20
Zinc	ND		100	99.5		ug/L		100	75 - 125	2	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-721264/1-A

Matrix: Water

Analysis Batch: 721821

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 721264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	60	ug/L		11/05/25 10:19	11/07/25 03:10	1
Iron	ND		100	40	ug/L		11/05/25 10:19	11/07/25 03:10	1
Magnesium	110	J	200	50	ug/L		11/05/25 10:19	11/07/25 03:10	1
Manganese	ND		10	2.5	ug/L		11/05/25 10:19	11/07/25 03:10	1
Potassium	ND		1500	500	ug/L		11/05/25 10:19	11/07/25 03:10	1
Silicon	ND		500	150	ug/L		11/05/25 10:19	11/07/25 03:10	1
Sodium	ND		1000	450	ug/L		11/05/25 10:19	11/07/25 03:10	1

Lab Sample ID: LCS 280-721264/2-A

Matrix: Water

Analysis Batch: 721821

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 721264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	47400		ug/L		95	85 - 115
Iron	10000	9570		ug/L		96	85 - 115
Magnesium	50000	47300		ug/L		95	85 - 115
Manganese	1000	965		ug/L		96	85 - 115
Potassium	50000	45100		ug/L		90	85 - 115
Silicon	10000	9390		ug/L		94	85 - 115
Sodium	50000	48400		ug/L		97	85 - 115

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

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

Lab Sample ID: 280-216285-D-1-B MS

Matrix: Water

Analysis Batch: 721821

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 721264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	26000		50000	72100		ug/L		92	75 - 125
Iron	ND		10000	9550		ug/L		96	75 - 125
Magnesium	9400	B	50000	56400		ug/L		94	75 - 125
Manganese	ND		1000	962		ug/L		96	75 - 125
Potassium	ND		50000	45500		ug/L		91	75 - 125
Silicon	17000		10000	26000		ug/L		85	75 - 125
Sodium	11000		50000	58900		ug/L		96	75 - 125

Lab Sample ID: 280-216285-D-1-C MSD

Matrix: Water

Analysis Batch: 721821

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 721264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	26000		50000	74100		ug/L		96	75 - 125	3	20
Iron	ND		10000	9830		ug/L		98	75 - 125	3	20
Magnesium	9400	B	50000	57900		ug/L		97	75 - 125	3	20
Manganese	ND		1000	986		ug/L		99	75 - 125	2	20
Potassium	ND		50000	47000		ug/L		94	75 - 125	3	20
Silicon	17000		10000	26700		ug/L		92	75 - 125	3	20
Sodium	11000		50000	61700		ug/L		101	75 - 125	5	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-721069/56

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/05/25 05:33	1
Sulfate	ND		3.0	1.3	mg/L			11/05/25 05:33	1

Lab Sample ID: MB 280-721069/6

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/04/25 13:07	1
Sulfate	ND		3.0	1.3	mg/L			11/04/25 13:07	1

Lab Sample ID: LCS 280-721069/4

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	102		mg/L		102	90 - 110
Sulfate	100	105		mg/L		105	90 - 110

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-721069/54

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	102		mg/L		102	90 - 110
Sulfate	100	106		mg/L		106	90 - 110

Lab Sample ID: LCSD 280-721069/5

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	102		mg/L		102	90 - 110	0	10
Sulfate	100	105		mg/L		105	90 - 110	0	10

Lab Sample ID: LCSD 280-721069/55

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	102		mg/L		102	90 - 110	0	10
Sulfate	100	106		mg/L		106	90 - 110	0	10

Lab Sample ID: MRL 280-721069/3

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	3.31		mg/L		110	50 - 150
Sulfate	3.00	3.55		mg/L		118	50 - 150

Lab Sample ID: 280-216285-B-3 MS

Matrix: Water

Analysis Batch: 721069

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	89		50.0	142		mg/L		105	90 - 110
Sulfate			50.0	58.6		mg/L		-	-

Lab Sample ID: 280-216285-B-3 MSD

Matrix: Water

Analysis Batch: 721069

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	89		50.0	142		mg/L		105	90 - 110	0	15
Sulfate			50.0	58.6		mg/L		-	-		

Lab Sample ID: 280-216306-E-5 MS

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		2500	2720		mg/L		109	90 - 110
Sulfate	3100		2500	5790		mg/L		108	90 - 110

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-216306-E-5 MSD

Matrix: Water

Analysis Batch: 721069

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	ND		2500	2720		mg/L		109	90 - 110	0	15
Sulfate	3100		2500	5790		mg/L		108	90 - 110	0	15

Lab Sample ID: 280-216285-B-3 DU

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	89		89.3		mg/L		0	15
Sulfate			4.64		mg/L			15

Lab Sample ID: 280-216306-E-5 DU

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	ND		ND		mg/L		NC	15
Sulfate	3100		3100		mg/L		0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-721176/58

Matrix: Water

Analysis Batch: 721176

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.10	0.040	mg/L			11/04/25 15:07	1

Lab Sample ID: LCS 280-721176/59

Matrix: Water

Analysis Batch: 721176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.51	2.53		mg/L		101	90 - 110

Lab Sample ID: 280-216116-E-4 MS

Matrix: Water

Analysis Batch: 721176

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.0	F1	1.00	1.95		mg/L		92	90 - 110

Lab Sample ID: 280-216116-E-4 MSD

Matrix: Water

Analysis Batch: 721176

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	1.0	F1	1.00	1.91	F1	mg/L		88	90 - 110	2	10

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-721341/20

Matrix: Water

Analysis Batch: 721341

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	0.060	mg/L			11/05/25 12:29	1

Lab Sample ID: LCS 280-721341/21

Matrix: Water

Analysis Batch: 721341

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: LCSD 280-721341/22

Matrix: Water

Analysis Batch: 721341

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	1.02		mg/L		102	90 - 110	0	10

Lab Sample ID: 280-216334-A-12 MS

Matrix: Water

Analysis Batch: 721341

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	6.7		10.0	16.7		mg/L		100	90 - 110

Lab Sample ID: 280-216334-A-12 MSD

Matrix: Water

Analysis Batch: 721341

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	6.7		10.0	16.6		mg/L		99	90 - 110	0	10

Method: 410.4 - COD

Lab Sample ID: MB 280-721014/4

Matrix: Water

Analysis Batch: 721014

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			11/04/25 08:59	1

Lab Sample ID: LCS 280-721014/3

Matrix: Water

Analysis Batch: 721014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	100	94.2		mg/L		94	90 - 110

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: 410.4 - COD (Continued)

Lab Sample ID: 280-216147-A-2 MS
Matrix: Water
Analysis Batch: 721014

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	ND		50.0	51.2		mg/L		102	90 - 110

Lab Sample ID: 280-216147-A-2 MSD
Matrix: Water
Analysis Batch: 721014

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		50.0	48.0		mg/L		96	90 - 110	6	11

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-721754/1
Matrix: Water
Analysis Batch: 721754

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	10.0		5.0	3.5	mg/L			11/07/25 20:53	1

Lab Sample ID: 280-216208-U-1 DU
Matrix: Water
Analysis Batch: 721754

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	Analyzed	Dil Fac	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	2900	B	2940		mg/L					0	20

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

Lab Sample ID: MB 280-721048/1
Matrix: Water
Analysis Batch: 721048

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	6.0	mg/L			11/04/25 10:32	1

Lab Sample ID: LCS 280-721048/2
Matrix: Water
Analysis Batch: 721048

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	501	497		mg/L		99	88 - 114

Lab Sample ID: 280-216299-B-2 DU
Matrix: Water
Analysis Batch: 721048

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	Analyzed	Dil Fac	RPD	RPD Limit
Total Dissolved Solids	260		257		mg/L					1	10

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-721312/1

Matrix: Water

Analysis Batch: 721312

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.5	mg/L			11/05/25 12:45	1

Lab Sample ID: LCS 280-721312/2

Matrix: Water

Analysis Batch: 721312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	500	476		mg/L		95	80 - 114

Lab Sample ID: 280-216316-A-1 DU

Matrix: Water

Analysis Batch: 721312

Client Sample ID: Duplicate

Prep Type: Total/NA

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

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

Lab Sample ID: MB 280-721486/35

Matrix: Water

Analysis Batch: 721486

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	0.40	mg/L			11/06/25 02:25	1

Lab Sample ID: LCS 280-721486/34

Matrix: Water

Analysis Batch: 721486

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	26.3		mg/L		105	85 - 115

Lab Sample ID: 280-216207-C-1 MS

Matrix: Water

Analysis Batch: 721486

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	1.5		25.0	27.3		mg/L		103	85 - 115

Lab Sample ID: 280-216207-C-1 MSD

Matrix: Water

Analysis Batch: 721486

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.5		25.0	27.3		mg/L		103	85 - 115	0	15

Eurofins Denver

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

GC/MS VOA

Analysis Batch: 722331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	8260D	
MB 280-722331/10	Method Blank	Total/NA	Water	8260D	
LCS 280-722331/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-722331/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 721148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	200.8	
MB 280-721148/1-A	Method Blank	Total/NA	Water	3005A	
LCS 280-721148/2-A	Lab Control Sample	Total/NA	Water	3005A	
280-216221-C-8-B MS	Matrix Spike	Total/NA	Water	3005A	
280-216221-C-8-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Prep Batch: 721264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Dissolved	Water	3005A	
MB 280-721264/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-721264/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-216285-D-1-B MS	Matrix Spike	Dissolved	Water	3005A	
280-216285-D-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 721821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Dissolved	Water	6010D	721264
MB 280-721264/1-A	Method Blank	Total Recoverable	Water	6010D	721264
LCS 280-721264/2-A	Lab Control Sample	Total Recoverable	Water	6010D	721264
280-216285-D-1-B MS	Matrix Spike	Dissolved	Water	6010D	721264
280-216285-D-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	721264

Analysis Batch: 721903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	200.8	721148
MB 280-721148/1-A	Method Blank	Total/NA	Water	200.8	721148
LCS 280-721148/2-A	Lab Control Sample	Total/NA	Water	200.8	721148
280-216221-C-8-B MS	Matrix Spike	Total/NA	Water	200.8	721148
280-216221-C-8-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	721148

Analysis Batch: 722141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Dissolved	Water	6010D	721264

General Chemistry

Analysis Batch: 721014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	410.4	
MB 280-721014/4	Method Blank	Total/NA	Water	410.4	
LCS 280-721014/3	Lab Control Sample	Total/NA	Water	410.4	
280-216147-A-2 MS	Matrix Spike	Total/NA	Water	410.4	
280-216147-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Eurofins Denver

QC Association Summary

Client: Geo-Logic Associates

Job ID: 280-216301-1

Project/Site: Valley LF - Republic Serv Coffin Butte

General Chemistry

Analysis Batch: 721048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	SM 2540C	
MB 280-721048/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-721048/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-216299-B-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 721069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	300.0	
280-216301-1	L-POND	Total/NA	Water	300.0	
MB 280-721069/56	Method Blank	Total/NA	Water	300.0	
MB 280-721069/6	Method Blank	Total/NA	Water	300.0	
LCS 280-721069/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-721069/54	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-721069/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-721069/55	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-721069/3	Lab Control Sample	Total/NA	Water	300.0	
280-216285-B-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-216285-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-216306-E-5 MS	Matrix Spike	Total/NA	Water	300.0	
280-216306-E-5 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-216285-B-3 DU	Duplicate	Total/NA	Water	300.0	
280-216306-E-5 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 721176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	350.1	
MB 280-721176/58	Method Blank	Total/NA	Water	350.1	
LCS 280-721176/59	Lab Control Sample	Total/NA	Water	350.1	
280-216116-E-4 MS	Matrix Spike	Total/NA	Water	350.1	
280-216116-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 721312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	SM 2540D	
MB 280-721312/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-721312/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-216316-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 721341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	353.2	
MB 280-721341/20	Method Blank	Total/NA	Water	353.2	
LCS 280-721341/21	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-721341/22	Lab Control Sample Dup	Total/NA	Water	353.2	
280-216334-A-12 MS	Matrix Spike	Total/NA	Water	353.2	
280-216334-A-12 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 721486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	SM 5310B	
MB 280-721486/35	Method Blank	Total/NA	Water	SM 5310B	

Eurofins Denver

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

General Chemistry (Continued)

Analysis Batch: 721486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-721486/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-216207-C-1 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-216207-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Analysis Batch: 721754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216301-1	L-POND	Total/NA	Water	SM 2320B	
MB 280-721754/1	Method Blank	Total/NA	Water	SM 2320B	
280-216208-U-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216301-1

Client Sample ID: L-POND

Lab Sample ID: 280-216301-1

Date Collected: 10/30/25 17:27

Matrix: Water

Date Received: 11/01/25 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		4	5 mL	5 mL	722331	11/12/25 16:49	MSJ	EET DEN
Total/NA	Prep	200.8			10 mL	50 mL	721148	11/04/25 16:03	AMH	EET DEN
Total/NA	Analysis	200.8		1			721903	11/09/25 16:21	LMT	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721264	11/05/25 10:19	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 04:19	CAF	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721264	11/05/25 10:19	AR	EET DEN
Dissolved	Analysis	6010D		5			722141	11/11/25 00:34	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	721069	11/05/25 02:02	SLH	EET DEN
Total/NA	Analysis	300.0		50	10 mL	10 mL	721069	11/05/25 02:30	SLH	EET DEN
Total/NA	Analysis	350.1		500	10 mL	10 mL	721176	11/04/25 18:02	LBR	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	721341	11/05/25 13:03	AKF	EET DEN
Total/NA	Analysis	410.4		50	2 mL	2 mL	721014	11/04/25 08:59	BRD	EET DEN
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	721754	11/07/25 20:53	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	1 mL	100 mL	721048	11/04/25 10:32	YBF	EET DEN
Total/NA	Analysis	SM 2540D		1	200 mL	250 mL	721312	11/05/25 12:45	YBF	EET DEN
Total/NA	Analysis	SM 5310B		200	20 mL	20 mL	721486	11/06/25 04:55	ABW	EET DEN

Laboratory References:

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

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-216301-1

Login Number: 216301

List Source: Eurofins Denver

List Number: 1

Creator: Johnston, Michelle A

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").	False	Narrative to indicate if headspace container used for analysis.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Ogorzalek
Geo-Logic Associates
2777 East Guasti Road
Suite 1
Ontario, California 91761

Generated 11/13/2025 12:23:20 AM

JOB DESCRIPTION

Valley LF - Republic Serv Coffin Butte

JOB NUMBER

280-216302-1

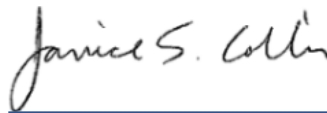
Eurofins Denver

Job Notes

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Authorization



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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Job ID: 280-216302-1

Eurofins Denver

Job Narrative 280-216302-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/1/2025 9:55 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 time was 1.7°C.

GC/MS VOA

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-722082 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) and duplicate (LCSD) recoveries are within acceptance limits. 280-216302-2, 280-216302-3, 280-216302-4, 280-216230-C-5 and 280-216230-A-5 MSD

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-722082 recovered outside acceptance criteria, low biased, for Bromomethane, Chloromethane and Dichlorodifluoromethane. The LCS and LCSD are within control limits. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. 280-216302-2, 280-216302-3, 280-216302-4 and CCVIS 280-722082/2

Method 8260D: In analytical batch 280-722300, the following sample was diluted due to the nature of the sample matrix (sample was foamy): 280-216302-1. Elevated reporting limits (RLs) are provided. 280-216302-1.

Method 8260D: In analytical batch 280-722300, the following sample was diluted due to the nature of the sample matrix (sample was foamy): 280-216302-5. Elevated reporting limits (RLs) are provided. 280-216302-5.

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) precision for analytical batch 280-722300 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits. 280-216302-1, 280-216302-5, 280-216167-I-9, 280-216167-H-9 MS and 280-216167-H-9 MSD.

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-722300 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are: 280-216302-1, 280-216302-5, CCVIS 280-722300/2 and 280-216167-I-9.

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-722300 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. 280-216302-1, 280-216302-5, 280-216167-I-9, 280-216167-H-9 MS and 280-216167-H-9 MSD.

Method 8260D: In analytical batch 280-722300, the following samples were collected in properly preserved vials; however, the pH (5 for 280-216302-1 and 7 for 280-216302-5) was outside the required criteria (<2) when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: 280-216302-1 and 280-216302-5.

Method 8260D: In analytical batch 280-722300, the method requirement for no headspace was not met. The following volatile samples were analyzed with significant headspace in the sample containers: 280-216302-1 and 280-216302-5. Significant headspace is defined as a bubble greater than 6 mm in diameter. The sample containers were received with headspace. 280-216302-1 and 280-216302-5.

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Case Narrative

Client: Geo-Logic Associates
Project: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Job ID: 280-216302-1 (Continued)

Eurofins Denver

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

Metals

Method 6010D - Dissolved: The following samples were improperly preserved in the field: 280-216302-1 and 280-216302-5. Nitric acid was added by the laboraotry and the desired pH was achieved.

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

General Chemistry

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

Eurofins Denver

Detection Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Client Sample ID: LDS-2B

Lab Sample ID: 280-216302-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	25	J	60	20	ug/L	4		8260D	Total/NA
Benzene	2.0	J	4.0	1.0	ug/L	4		8260D	Total/NA
Toluene	1.4	J	4.0	1.0	ug/L	4		8260D	Total/NA
Arsenic	28		15	5.0	ug/L	1		6010D	Dissolved
Calcium	190000		200	60	ug/L	1		6010D	Dissolved
Iron	10000		100	40	ug/L	1		6010D	Dissolved
Magnesium	130000		200	50	ug/L	1		6010D	Dissolved
Manganese	3500		10	2.5	ug/L	1		6010D	Dissolved
Sodium	1500000		5000	2300	ug/L	5		6010D	Dissolved
Chloride	2500		150	65	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	1600		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	6200		100	60	mg/L	1		SM 2540C	Total/NA

Client Sample ID: LDS-3

Lab Sample ID: 280-216302-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	160000		200	60	ug/L	1		6010D	Dissolved
Iron	81	J	100	40	ug/L	1		6010D	Dissolved
Magnesium	77000		200	50	ug/L	1		6010D	Dissolved
Manganese	650		10	2.5	ug/L	1		6010D	Dissolved
Sodium	600000		1000	450	ug/L	1		6010D	Dissolved
Chloride	960		60	26	mg/L	20		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	310		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2400		40	24	mg/L	1		SM 2540C	Total/NA

Client Sample ID: LDS-4

Lab Sample ID: 280-216302-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	130000		200	60	ug/L	1		6010D	Dissolved
Magnesium	52000		200	50	ug/L	1		6010D	Dissolved
Sodium	120000		1000	450	ug/L	1		6010D	Dissolved
Chloride	280		15	6.5	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	370		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1000		20	12	mg/L	1		SM 2540C	Total/NA

Client Sample ID: LDS-5

Lab Sample ID: 280-216302-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	100000		200	60	ug/L	1		6010D	Dissolved
Magnesium	41000		200	50	ug/L	1		6010D	Dissolved
Manganese	3.4	J	10	2.5	ug/L	1		6010D	Dissolved
Sodium	280000		1000	450	ug/L	1		6010D	Dissolved
Chloride	520		30	13	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	140		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1300		20	12	mg/L	1		SM 2540C	Total/NA

Client Sample ID: LDS-ELP

Lab Sample ID: 280-216302-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1	J	15	5.0	ug/L	1		6010D	Dissolved
Calcium	430000		200	60	ug/L	1		6010D	Dissolved
Iron	850		100	40	ug/L	1		6010D	Dissolved
Magnesium	200000		200	50	ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Geo-Logic Associates

Job ID: 280-216302-1

Project/Site: Valley LF - Republic Serv Coffin Butte

Client Sample ID: LDS-ELP (Continued)

Lab Sample ID: 280-216302-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	7500		10	2.5	ug/L	1		6010D	Dissolved
Sodium	1700000		5000	2300	ug/L	5		6010D	Dissolved
Chloride	2800		150	65	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	2100		10	7.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9800		1000	600	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Geo-Logic Associates

Job ID: 280-216302-1

Project/Site: Valley LF - Republic Serv Coffin Butte

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
280-216302-1	LDS-2B	Water	10/31/25 09:15	11/01/25 09:55	Oregon
280-216302-2	LDS-3	Water	10/30/25 17:00	11/01/25 09:55	Oregon
280-216302-3	LDS-4	Water	10/30/25 16:35	11/01/25 09:55	Oregon
280-216302-4	LDS-5	Water	10/30/25 16:05	11/01/25 09:55	Oregon
280-216302-5	LDS-ELP	Water	10/30/25 18:05	11/01/25 09:55	Oregon

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: LDS-2B
Date Collected: 10/31/25 09:15
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,1,1-Trichloroethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,1,2,2-Tetrachloroethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,1,2-Trichloroethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,1-Dichloroethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,1-Dichloroethene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,1-Dichloropropene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,2,3-Trichlorobenzene	ND		16	4.0	ug/L			11/12/25 05:30	4
1,2,3-Trichloropropane	ND		8.0	2.0	ug/L			11/12/25 05:30	4
1,2,4-Trichlorobenzene	ND		4.0	2.0	ug/L			11/12/25 05:30	4
1,2,4-Trimethylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,2-Dibromo-3-Chloropropane	ND		20	6.0	ug/L			11/12/25 05:30	4
1,2-Dibromoethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,2-Dichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,2-Dichloroethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,2-Dichloropropane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,3,5-Trimethylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,3-Dichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,3-Dichloropropane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
1,4-Dichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
2,2-Dichloropropane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
2-Butanone (MEK)	ND		40	16	ug/L			11/12/25 05:30	4
2-Chlorotoluene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
2-Hexanone	ND		20	6.0	ug/L			11/12/25 05:30	4
4-Chlorotoluene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
4-Isopropyltoluene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
4-Methyl-2-pentanone (MIBK)	ND		20	6.0	ug/L			11/12/25 05:30	4
Acetone	25	J	60	20	ug/L			11/12/25 05:30	4
Benzene	2.0	J	4.0	1.0	ug/L			11/12/25 05:30	4
Bromobenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Bromochloromethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Bromodichloromethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Bromoform	ND		8.0	2.0	ug/L			11/12/25 05:30	4
Bromomethane	ND		20	10	ug/L			11/12/25 05:30	4
Carbon disulfide	ND		8.0	2.0	ug/L			11/12/25 05:30	4
Carbon tetrachloride	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Chlorobenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Chloroethane	ND		8.0	2.0	ug/L			11/12/25 05:30	4
Chloroform	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Chloromethane	ND		8.0	2.0	ug/L			11/12/25 05:30	4
cis-1,2-Dichloroethene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
cis-1,3-Dichloropropene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Dibromochloromethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Dibromomethane	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Dichlorodifluoromethane	ND		8.0	2.0	ug/L			11/12/25 05:30	4
Ethylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Hexachlorobutadiene	ND		8.0	2.0	ug/L			11/12/25 05:30	4
Isopropylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Methylene Chloride	ND		8.0	4.0	ug/L			11/12/25 05:30	4

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Client Sample ID: LDS-2B
Date Collected: 10/31/25 09:15
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		8.0	2.0	ug/L			11/12/25 05:30	4
Naphthalene	ND		12	4.0	ug/L			11/12/25 05:30	4
n-Butylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
N-Propylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
o-Xylene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
sec-Butylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Styrene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
tert-Butylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Tetrachloroethene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Toluene	1.4	J	4.0	1.0	ug/L			11/12/25 05:30	4
trans-1,2-Dichloroethene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
trans-1,3-Dichloropropene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Trichloroethene	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Trichlorofluoromethane	ND		8.0	2.0	ug/L			11/12/25 05:30	4
Vinyl chloride	ND		4.0	1.0	ug/L			11/12/25 05:30	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		80 - 120					11/12/25 05:30	4
4-Bromofluorobenzene (Surr)	97		80 - 120					11/12/25 05:30	4
Dibromofluoromethane (Surr)	99		80 - 120					11/12/25 05:30	4
Toluene-d8 (Surr)	97		80 - 120					11/12/25 05:30	4

Client Sample ID: LDS-3
Date Collected: 10/30/25 17:00
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/11/25 01:50	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/11/25 01:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/11/25 01:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/11/25 01:50	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/11/25 01:50	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
2-Hexanone	ND		5.0	1.5	ug/L			11/11/25 01:50	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Client Sample ID: LDS-3
Date Collected: 10/30/25 17:00
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/11/25 01:50	1
Acetone	ND		15	5.0	ug/L			11/11/25 01:50	1
Benzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Bromobenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Bromoform	ND		2.0	0.50	ug/L			11/11/25 01:50	1
Bromomethane	ND		5.0	2.5	ug/L			11/11/25 01:50	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/11/25 01:50	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Chloroethane	ND		2.0	0.50	ug/L			11/11/25 01:50	1
Chloroform	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Chloromethane	ND		2.0	0.50	ug/L			11/11/25 01:50	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Dibromomethane	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/11/25 01:50	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/11/25 01:50	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/11/25 01:50	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/11/25 01:50	1
Naphthalene	ND		3.0	1.0	ug/L			11/11/25 01:50	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
o-Xylene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Styrene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Toluene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Trichloroethene	ND		1.0	0.25	ug/L			11/11/25 01:50	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/11/25 01:50	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/11/25 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		80 - 120		11/11/25 01:50	1
4-Bromofluorobenzene (Surr)	92		80 - 120		11/11/25 01:50	1
Dibromofluoromethane (Surr)	98		80 - 120		11/11/25 01:50	1
Toluene-d8 (Surr)	98		80 - 120		11/11/25 01:50	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: LDS-4
Date Collected: 10/30/25 16:35
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/11/25 02:12	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/11/25 02:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/11/25 02:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/11/25 02:12	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/11/25 02:12	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
2-Hexanone	ND		5.0	1.5	ug/L			11/11/25 02:12	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/11/25 02:12	1
Acetone	ND		15	5.0	ug/L			11/11/25 02:12	1
Benzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Bromobenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Bromoform	ND		2.0	0.50	ug/L			11/11/25 02:12	1
Bromomethane	ND		5.0	2.5	ug/L			11/11/25 02:12	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/11/25 02:12	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Chloroethane	ND		2.0	0.50	ug/L			11/11/25 02:12	1
Chloroform	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Chloromethane	ND		2.0	0.50	ug/L			11/11/25 02:12	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Dibromomethane	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/11/25 02:12	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/11/25 02:12	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/11/25 02:12	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Client Sample ID: LDS-4
Date Collected: 10/30/25 16:35
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/11/25 02:12	1
Naphthalene	ND		3.0	1.0	ug/L			11/11/25 02:12	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
o-Xylene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Styrene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Toluene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Trichloroethene	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/11/25 02:12	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/11/25 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120					11/11/25 02:12	1
4-Bromofluorobenzene (Surr)	91		80 - 120					11/11/25 02:12	1
Dibromofluoromethane (Surr)	98		80 - 120					11/11/25 02:12	1
Toluene-d8 (Surr)	101		80 - 120					11/11/25 02:12	1

Client Sample ID: LDS-5
Date Collected: 10/30/25 16:05
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/11/25 02:35	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/11/25 02:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/11/25 02:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/11/25 02:35	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/11/25 02:35	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
2-Hexanone	ND		5.0	1.5	ug/L			11/11/25 02:35	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Client Sample ID: LDS-5
Date Collected: 10/30/25 16:05
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/11/25 02:35	1
Acetone	ND		15	5.0	ug/L			11/11/25 02:35	1
Benzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Bromobenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Bromoform	ND		2.0	0.50	ug/L			11/11/25 02:35	1
Bromomethane	ND		5.0	2.5	ug/L			11/11/25 02:35	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/11/25 02:35	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Chloroethane	ND		2.0	0.50	ug/L			11/11/25 02:35	1
Chloroform	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Chloromethane	ND		2.0	0.50	ug/L			11/11/25 02:35	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Dibromomethane	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/11/25 02:35	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/11/25 02:35	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/11/25 02:35	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/11/25 02:35	1
Naphthalene	ND		3.0	1.0	ug/L			11/11/25 02:35	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
o-Xylene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Styrene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Toluene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Trichloroethene	ND		1.0	0.25	ug/L			11/11/25 02:35	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/11/25 02:35	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/11/25 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		11/11/25 02:35	1
4-Bromofluorobenzene (Surr)	90		80 - 120		11/11/25 02:35	1
Dibromofluoromethane (Surr)	99		80 - 120		11/11/25 02:35	1
Toluene-d8 (Surr)	101		80 - 120		11/11/25 02:35	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: LDS-ELP
Date Collected: 10/30/25 18:05
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,1,1-Trichloroethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,1,2,2-Tetrachloroethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,1,2-Trichloroethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,1-Dichloroethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,1-Dichloroethene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,1-Dichloropropene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,2,3-Trichlorobenzene	ND		16	4.0	ug/L			11/12/25 05:52	4
1,2,3-Trichloropropane	ND		8.0	2.0	ug/L			11/12/25 05:52	4
1,2,4-Trichlorobenzene	ND		4.0	2.0	ug/L			11/12/25 05:52	4
1,2,4-Trimethylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,2-Dibromo-3-Chloropropane	ND		20	6.0	ug/L			11/12/25 05:52	4
1,2-Dibromoethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,2-Dichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,2-Dichloroethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,2-Dichloropropane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,3,5-Trimethylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,3-Dichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,3-Dichloropropane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
1,4-Dichlorobenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
2,2-Dichloropropane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
2-Butanone (MEK)	ND		40	16	ug/L			11/12/25 05:52	4
2-Chlorotoluene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
2-Hexanone	ND		20	6.0	ug/L			11/12/25 05:52	4
4-Chlorotoluene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
4-Isopropyltoluene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
4-Methyl-2-pentanone (MIBK)	ND		20	6.0	ug/L			11/12/25 05:52	4
Acetone	ND		60	20	ug/L			11/12/25 05:52	4
Benzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Bromobenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Bromochloromethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Bromodichloromethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Bromoform	ND		8.0	2.0	ug/L			11/12/25 05:52	4
Bromomethane	ND		20	10	ug/L			11/12/25 05:52	4
Carbon disulfide	ND		8.0	2.0	ug/L			11/12/25 05:52	4
Carbon tetrachloride	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Chlorobenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Chloroethane	ND		8.0	2.0	ug/L			11/12/25 05:52	4
Chloroform	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Chloromethane	ND		8.0	2.0	ug/L			11/12/25 05:52	4
cis-1,2-Dichloroethene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
cis-1,3-Dichloropropene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Dibromochloromethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Dibromomethane	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Dichlorodifluoromethane	ND		8.0	2.0	ug/L			11/12/25 05:52	4
Ethylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Hexachlorobutadiene	ND		8.0	2.0	ug/L			11/12/25 05:52	4
Isopropylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Methylene Chloride	ND		8.0	4.0	ug/L			11/12/25 05:52	4

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Client Sample ID: LDS-ELP
Date Collected: 10/30/25 18:05
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		8.0	2.0	ug/L			11/12/25 05:52	4
Naphthalene	ND		12	4.0	ug/L			11/12/25 05:52	4
n-Butylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
N-Propylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
o-Xylene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
sec-Butylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Styrene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
tert-Butylbenzene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Tetrachloroethene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Toluene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
trans-1,2-Dichloroethene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
trans-1,3-Dichloropropene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Trichloroethene	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Trichlorofluoromethane	ND		8.0	2.0	ug/L			11/12/25 05:52	4
Vinyl chloride	ND		4.0	1.0	ug/L			11/12/25 05:52	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		80 - 120					11/12/25 05:52	4
4-Bromofluorobenzene (Surr)	101		80 - 120					11/12/25 05:52	4
Dibromofluoromethane (Surr)	96		80 - 120					11/12/25 05:52	4
Toluene-d8 (Surr)	98		80 - 120					11/12/25 05:52	4

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

Client Sample ID: LDS-2B
Date Collected: 10/31/25 09:15
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		15	5.0	ug/L		11/04/25 09:55	11/07/25 01:12	1
Calcium	190000		200	60	ug/L		11/04/25 09:55	11/07/25 01:12	1
Iron	10000		100	40	ug/L		11/04/25 09:55	11/07/25 01:12	1
Magnesium	130000		200	50	ug/L		11/04/25 09:55	11/07/25 01:12	1
Manganese	3500		10	2.5	ug/L		11/04/25 09:55	11/07/25 01:12	1
Sodium	1500000		5000	2300	ug/L		11/04/25 09:55	11/11/25 00:38	5

Client Sample ID: LDS-3
Date Collected: 10/30/25 17:00
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/04/25 09:55	11/07/25 01:16	1
Calcium	160000		200	60	ug/L		11/04/25 09:55	11/07/25 01:16	1
Iron	81 J		100	40	ug/L		11/04/25 09:55	11/07/25 01:16	1
Magnesium	77000		200	50	ug/L		11/04/25 09:55	11/07/25 01:16	1
Manganese	650		10	2.5	ug/L		11/04/25 09:55	11/07/25 01:16	1
Sodium	600000		1000	450	ug/L		11/04/25 09:55	11/07/25 01:16	1

Client Sample ID: LDS-4
Date Collected: 10/30/25 16:35
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/04/25 09:55	11/07/25 01:20	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Client Sample ID: LDS-4
Date Collected: 10/30/25 16:35
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000		200	60	ug/L		11/04/25 09:55	11/07/25 01:20	1
Iron	ND		100	40	ug/L		11/04/25 09:55	11/07/25 01:20	1
Magnesium	52000		200	50	ug/L		11/04/25 09:55	11/07/25 01:20	1
Manganese	ND		10	2.5	ug/L		11/04/25 09:55	11/07/25 01:20	1
Sodium	120000		1000	450	ug/L		11/04/25 09:55	11/07/25 01:20	1

Client Sample ID: LDS-5
Date Collected: 10/30/25 16:05
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/04/25 09:55	11/07/25 01:24	1
Calcium	100000		200	60	ug/L		11/04/25 09:55	11/07/25 01:24	1
Iron	ND		100	40	ug/L		11/04/25 09:55	11/07/25 01:24	1
Magnesium	41000		200	50	ug/L		11/04/25 09:55	11/07/25 01:24	1
Manganese	3.4 J		10	2.5	ug/L		11/04/25 09:55	11/07/25 01:24	1
Sodium	280000		1000	450	ug/L		11/04/25 09:55	11/07/25 01:24	1

Client Sample ID: LDS-ELP
Date Collected: 10/30/25 18:05
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1 J		15	5.0	ug/L		11/04/25 09:55	11/07/25 01:28	1
Calcium	430000		200	60	ug/L		11/04/25 09:55	11/07/25 01:28	1
Iron	850		100	40	ug/L		11/04/25 09:55	11/07/25 01:28	1
Magnesium	200000		200	50	ug/L		11/04/25 09:55	11/07/25 01:28	1
Manganese	7500		10	2.5	ug/L		11/04/25 09:55	11/07/25 01:28	1
Sodium	1700000		5000	2300	ug/L		11/04/25 09:55	11/11/25 00:42	5

General Chemistry

Client Sample ID: LDS-2B
Date Collected: 10/31/25 09:15
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2500		150	65	mg/L			11/05/25 02:59	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1600		10	7.0	mg/L			11/06/25 19:39	1
Total Dissolved Solids (SM 2540C)	6200		100	60	mg/L			11/04/25 10:32	1

Client Sample ID: LDS-3
Date Collected: 10/30/25 17:00
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	960		60	26	mg/L			11/05/25 03:55	20
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	310		10	7.0	mg/L			11/06/25 19:46	1
Total Dissolved Solids (SM 2540C)	2400		40	24	mg/L			11/04/25 10:32	1

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Client Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

General Chemistry

Client Sample ID: LDS-4
Date Collected: 10/30/25 16:35
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	280		15	6.5	mg/L			11/05/25 04:51	5
Bicarbonate Alkalinity as CaCO ₃ (SM 2320B)	370		10	7.0	mg/L			11/06/25 19:52	1
Total Dissolved Solids (SM 2540C)	1000		20	12	mg/L			11/04/25 10:32	1

Client Sample ID: LDS-5
Date Collected: 10/30/25 16:05
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	520		30	13	mg/L			11/05/25 05:47	10
Bicarbonate Alkalinity as CaCO ₃ (SM 2320B)	140		10	7.0	mg/L			11/06/25 19:57	1
Total Dissolved Solids (SM 2540C)	1300		20	12	mg/L			11/04/25 10:32	1

Client Sample ID: LDS-ELP
Date Collected: 10/30/25 18:05
Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2800		150	65	mg/L			11/05/25 06:01	50
Bicarbonate Alkalinity as CaCO ₃ (SM 2320B)	2100		10	7.0	mg/L			11/06/25 20:16	1
Total Dissolved Solids (SM 2540C)	9800		1000	600	mg/L			11/04/25 10:32	1

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(80-120)	(80-120)	(80-120)	(80-120)
280-216167-H-9 MS	Matrix Spike	110	99	95	96
280-216167-H-9 MSD	Matrix Spike Duplicate	106	102	95	99
280-216230-A-5 MSD	Matrix Spike Duplicate	91	93	100	98
280-216230-B-5 MS	Matrix Spike	91	91	99	98
280-216302-1	LDS-2B	117	97	99	97
280-216302-2	LDS-3	93	92	98	98
280-216302-3	LDS-4	95	91	98	101
280-216302-4	LDS-5	95	90	99	101
280-216302-5	LDS-ELP	115	101	96	98
LCS 280-722082/4	Lab Control Sample	94	91	102	97
LCS 280-722300/4	Lab Control Sample	104	104	94	99
LCSD 280-722082/5	Lab Control Sample Dup	92	92	99	99
LCSD 280-722300/5	Lab Control Sample Dup	108	101	98	96
MB 280-722082/10	Method Blank	91	92	98	100
MB 280-722300/10	Method Blank	107	99	96	100

Surrogate Legend

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

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-722082/10

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/10/25 20:14	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/10/25 20:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/10/25 20:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/10/25 20:14	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/10/25 20:14	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
2-Hexanone	ND		5.0	1.5	ug/L			11/10/25 20:14	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/10/25 20:14	1
Acetone	ND		15	5.0	ug/L			11/10/25 20:14	1
Benzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Bromobenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Bromoform	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Bromomethane	ND		5.0	2.5	ug/L			11/10/25 20:14	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Chloroethane	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Chloroform	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Chloromethane	ND		2.0	0.50	ug/L			11/10/25 20:14	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Dibromomethane	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: MB 280-722082/10

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	1.0	ug/L			11/10/25 20:14	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Naphthalene	ND		3.0	1.0	ug/L			11/10/25 20:14	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
o-Xylene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Styrene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Toluene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Trichloroethene	ND		1.0	0.25	ug/L			11/10/25 20:14	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/10/25 20:14	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/10/25 20:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 120		11/10/25 20:14	1
4-Bromofluorobenzene (Surr)	92		80 - 120		11/10/25 20:14	1
Dibromofluoromethane (Surr)	98		80 - 120		11/10/25 20:14	1
Toluene-d8 (Surr)	100		80 - 120		11/10/25 20:14	1

Lab Sample ID: LCS 280-722082/4

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	46.1		ug/L		92	79 - 125
1,1,1-Trichloroethane	50.0	47.6		ug/L		95	78 - 125
1,1,2,2-Tetrachloroethane	50.0	45.7		ug/L		91	73 - 126
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	80 - 121
1,1-Dichloroethane	50.0	45.9		ug/L		92	78 - 124
1,1-Dichloroethene	50.0	48.9		ug/L		98	76 - 124
1,1-Dichloropropene	50.0	48.3		ug/L		97	80 - 124
1,2,3-Trichlorobenzene	50.0	53.3		ug/L		107	57 - 136
1,2,3-Trichloropropane	50.0	47.8		ug/L		96	75 - 123
1,2,4-Trichlorobenzene	50.0	55.4		ug/L		111	69 - 130
1,2,4-Trimethylbenzene	50.0	48.2		ug/L		96	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	44.1		ug/L		88	64 - 130
1,2-Dibromoethane	50.0	50.7		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	50.7		ug/L		101	80 - 120
1,2-Dichloroethane	50.0	46.8		ug/L		94	73 - 124
1,2-Dichloropropane	50.0	44.4		ug/L		89	78 - 124
1,3,5-Trimethylbenzene	50.0	48.0		ug/L		96	80 - 122
1,3-Dichlorobenzene	50.0	50.7		ug/L		101	80 - 120
1,3-Dichloropropane	50.0	47.1		ug/L		94	80 - 121
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: LCS 280-722082/4

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	50.0	51.3		ug/L		103	72 - 131
2-Butanone (MEK)	200	175		ug/L		87	59 - 141
2-Chlorotoluene	50.0	49.1		ug/L		98	80 - 120
2-Hexanone	200	170		ug/L		85	59 - 146
4-Chlorotoluene	50.0	49.1		ug/L		98	80 - 121
4-Isopropyltoluene	50.0	49.6		ug/L		99	80 - 124
4-Methyl-2-pentanone (MIBK)	200	176		ug/L		88	63 - 144
Acetone	200	163		ug/L		81	57 - 143
Benzene	50.0	49.0		ug/L		98	80 - 121
Bromobenzene	50.0	49.3		ug/L		99	80 - 120
Bromochloromethane	50.0	51.0		ug/L		102	76 - 126
Bromodichloromethane	50.0	44.9		ug/L		90	80 - 124
Bromoform	50.0	44.3		ug/L		89	66 - 134
Bromomethane	25.0	11.8		ug/L		47	10 - 150
Carbon disulfide	50.0	43.0		ug/L		86	70 - 127
Carbon tetrachloride	50.0	46.5		ug/L		93	72 - 131
Chlorobenzene	50.0	51.1		ug/L		102	80 - 120
Chloroethane	25.0	26.1		ug/L		104	51 - 149
Chloroform	50.0	50.2		ug/L		100	80 - 120
Chloromethane	25.0	19.6		ug/L		78	51 - 142
cis-1,2-Dichloroethene	50.0	49.3		ug/L		99	80 - 121
cis-1,3-Dichloropropene	50.0	46.5		ug/L		93	77 - 127
Dibromochloromethane	50.0	44.3		ug/L		89	77 - 128
Dibromomethane	50.0	50.3		ug/L		101	80 - 120
Dichlorodifluoromethane	25.0	18.1		ug/L		73	36 - 150
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120
Hexachlorobutadiene	50.0	51.0		ug/L		102	66 - 135
Isopropylbenzene	50.0	46.8		ug/L		94	78 - 123
Methylene Chloride	50.0	45.8		ug/L		92	77 - 121
m-Xylene & p-Xylene	50.0	49.0		ug/L		98	80 - 121
Naphthalene	50.0	55.8		ug/L		112	55 - 135
n-Butylbenzene	50.0	50.1		ug/L		100	73 - 131
N-Propylbenzene	50.0	48.0		ug/L		96	80 - 123
o-Xylene	50.0	50.9		ug/L		102	80 - 121
sec-Butylbenzene	50.0	48.5		ug/L		97	80 - 125
Styrene	50.0	50.0		ug/L		100	80 - 123
tert-Butylbenzene	50.0	48.2		ug/L		96	80 - 121
Tetrachloroethene	50.0	52.5		ug/L		105	79 - 125
Toluene	50.0	50.9		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	49.5		ug/L		99	78 - 123
trans-1,3-Dichloropropene	50.0	47.3		ug/L		95	79 - 124
Trichloroethene	50.0	47.4		ug/L		95	79 - 121
Trichlorofluoromethane	25.0	23.0		ug/L		92	60 - 139
Vinyl chloride	25.0	23.3		ug/L		93	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	91		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: LCS 280-722082/4

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 280-722082/5

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	47.2		ug/L		94	79 - 125	2	20
1,1,1-Trichloroethane	50.0	47.0		ug/L		94	78 - 125	1	20
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	73 - 126	3	20
1,1,2-Trichloroethane	50.0	51.7		ug/L		103	80 - 121	0	20
1,1-Dichloroethane	50.0	45.8		ug/L		92	78 - 124	0	20
1,1-Dichloroethene	50.0	45.5		ug/L		91	76 - 124	7	20
1,1-Dichloropropene	50.0	46.4		ug/L		93	80 - 124	4	20
1,2,3-Trichlorobenzene	50.0	59.4		ug/L		119	57 - 136	11	21
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	75 - 123	4	26
1,2,4-Trichlorobenzene	50.0	57.0		ug/L		114	69 - 130	3	20
1,2,4-Trimethylbenzene	50.0	49.3		ug/L		99	80 - 123	2	20
1,2-Dibromo-3-Chloropropane	50.0	47.5		ug/L		95	64 - 130	7	20
1,2-Dibromoethane	50.0	50.8		ug/L		102	80 - 120	0	20
1,2-Dichlorobenzene	50.0	52.2		ug/L		104	80 - 120	3	20
1,2-Dichloroethane	50.0	46.3		ug/L		93	73 - 124	1	20
1,2-Dichloropropane	50.0	44.8		ug/L		90	78 - 124	1	20
1,3,5-Trimethylbenzene	50.0	48.7		ug/L		97	80 - 122	1	20
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120	1	20
1,3-Dichloropropane	50.0	47.6		ug/L		95	80 - 121	1	20
1,4-Dichlorobenzene	50.0	52.1		ug/L		104	80 - 120	4	20
2,2-Dichloropropane	50.0	49.3		ug/L		99	72 - 131	4	20
2-Butanone (MEK)	200	184		ug/L		92	59 - 141	5	20
2-Chlorotoluene	50.0	50.2		ug/L		100	80 - 120	2	20
2-Hexanone	200	177		ug/L		88	59 - 146	4	20
4-Chlorotoluene	50.0	50.8		ug/L		102	80 - 121	3	20
4-Isopropyltoluene	50.0	50.3		ug/L		101	80 - 124	2	20
4-Methyl-2-pentanone (MIBK)	200	180		ug/L		90	63 - 144	2	20
Acetone	200	175		ug/L		87	57 - 143	7	22
Benzene	50.0	47.7		ug/L		95	80 - 121	3	20
Bromobenzene	50.0	51.2		ug/L		102	80 - 120	4	20
Bromochloromethane	50.0	49.8		ug/L		100	76 - 126	2	20
Bromodichloromethane	50.0	45.7		ug/L		91	80 - 124	2	20
Bromoform	50.0	45.4		ug/L		91	66 - 134	2	20
Bromomethane	25.0	14.7		ug/L		59	10 - 150	22	58
Carbon disulfide	50.0	41.0		ug/L		82	70 - 127	5	20
Carbon tetrachloride	50.0	44.9		ug/L		90	72 - 131	3	20
Chlorobenzene	50.0	51.4		ug/L		103	80 - 120	1	20
Chloroethane	25.0	25.9		ug/L		104	51 - 149	1	34
Chloroform	50.0	48.8		ug/L		98	80 - 120	3	20
Chloromethane	25.0	20.4		ug/L		81	51 - 142	4	21

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: LCSD 280-722082/5

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	50.0	48.4		ug/L		97	80 - 121	2	20
cis-1,3-Dichloropropene	50.0	46.7		ug/L		93	77 - 127	0	20
Dibromochloromethane	50.0	45.5		ug/L		91	77 - 128	3	20
Dibromomethane	50.0	49.9		ug/L		100	80 - 120	1	20
Dichlorodifluoromethane	25.0	17.9		ug/L		72	36 - 150	1	35
Ethylbenzene	50.0	49.8		ug/L		100	80 - 120	1	20
Hexachlorobutadiene	50.0	50.2		ug/L		100	66 - 135	1	20
Isopropylbenzene	50.0	47.9		ug/L		96	78 - 123	2	20
Methylene Chloride	50.0	46.2		ug/L		92	77 - 121	1	20
m-Xylene & p-Xylene	50.0	49.3		ug/L		99	80 - 121	1	20
Naphthalene	50.0	60.8		ug/L		122	55 - 135	9	23
n-Butylbenzene	50.0	50.1		ug/L		100	73 - 131	0	25
N-Propylbenzene	50.0	48.7		ug/L		97	80 - 123	1	20
o-Xylene	50.0	50.4		ug/L		101	80 - 121	1	20
sec-Butylbenzene	50.0	48.6		ug/L		97	80 - 125	0	20
Styrene	50.0	50.2		ug/L		100	80 - 123	0	20
tert-Butylbenzene	50.0	48.4		ug/L		97	80 - 121	0	20
Tetrachloroethene	50.0	52.1		ug/L		104	79 - 125	1	20
Toluene	50.0	51.6		ug/L		103	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	78 - 123	1	20
trans-1,3-Dichloropropene	50.0	47.9		ug/L		96	79 - 124	1	20
Trichloroethene	50.0	46.1		ug/L		92	79 - 121	3	20
Trichlorofluoromethane	25.0	23.0		ug/L		92	60 - 139	0	25
Vinyl chloride	25.0	23.2		ug/L		93	60 - 136	0	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 280-216230-A-5 MSD

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	50.5		ug/L		101	79 - 125	5	20
1,1,1-Trichloroethane	ND		50.0	50.6		ug/L		101	78 - 125	6	20
1,1,1,2,2-Tetrachloroethane	ND		50.0	51.6		ug/L		103	73 - 126	6	20
1,1,2-Trichloroethane	ND		50.0	54.3		ug/L		109	80 - 121	3	20
1,1-Dichloroethane	ND		50.0	48.9		ug/L		98	78 - 124	5	20
1,1-Dichloroethene	ND		50.0	49.7		ug/L		99	76 - 124	1	20
1,1-Dichloropropene	ND		50.0	51.6		ug/L		103	80 - 124	6	20
1,2,3-Trichlorobenzene	ND		50.0	62.2		ug/L		124	57 - 136	14	21
1,2,3-Trichloropropane	ND		50.0	53.3		ug/L		107	75 - 123	4	26
1,2,4-Trichlorobenzene	ND		50.0	60.8		ug/L		122	69 - 130	11	20
1,2,4-Trimethylbenzene	ND		50.0	53.2		ug/L		106	80 - 123	7	20
1,2-Dibromo-3-Chloropropane	ND		50.0	51.5		ug/L		103	64 - 130	7	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: 280-216230-A-5 MSD

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane	ND		50.0	53.3		ug/L		107	80 - 120	1	20
1,2-Dichlorobenzene	ND		50.0	55.8		ug/L		112	80 - 120	8	20
1,2-Dichloroethane	ND		50.0	49.8		ug/L		100	73 - 124	5	20
1,2-Dichloropropane	ND		50.0	49.0		ug/L		98	78 - 124	7	20
1,3,5-Trimethylbenzene	ND		50.0	52.6		ug/L		105	80 - 122	7	20
1,3-Dichlorobenzene	ND		50.0	55.2		ug/L		110	80 - 120	5	20
1,3-Dichloropropane	ND		50.0	50.8		ug/L		102	80 - 121	4	20
1,4-Dichlorobenzene	ND		50.0	55.2		ug/L		110	80 - 120	6	20
2,2-Dichloropropane	ND		50.0	50.2		ug/L		100	72 - 131	5	20
2-Butanone (MEK)	ND		200	191		ug/L		96	59 - 141	2	20
2-Chlorotoluene	ND		50.0	53.7		ug/L		107	80 - 120	5	20
2-Hexanone	ND		200	178		ug/L		89	59 - 146	1	20
4-Chlorotoluene	ND		50.0	55.6		ug/L		111	80 - 121	9	20
4-Isopropyltoluene	ND		50.0	53.6		ug/L		107	80 - 124	9	20
4-Methyl-2-pentanone (MIBK)	ND		200	186		ug/L		93	63 - 144	3	20
Acetone	ND		200	174		ug/L		87	57 - 143	1	22
Benzene	ND		50.0	52.0		ug/L		104	80 - 121	7	20
Bromobenzene	ND		50.0	54.9		ug/L		110	80 - 120	6	20
Bromochloromethane	ND		50.0	52.7		ug/L		105	76 - 126	2	20
Bromodichloromethane	ND		50.0	47.9		ug/L		96	80 - 124	6	20
Bromoform	ND		50.0	47.1		ug/L		94	66 - 134	3	20
Bromomethane	ND		25.0	18.2		ug/L		73	10 - 150	31	58
Carbon disulfide	ND		50.0	44.9		ug/L		90	70 - 127	8	20
Carbon tetrachloride	ND		50.0	49.8		ug/L		100	72 - 131	6	20
Chlorobenzene	ND		50.0	54.9		ug/L		110	80 - 120	6	20
Chloroethane	ND		25.0	25.5		ug/L		102	51 - 149	1	34
Chloroform	ND		50.0	52.1		ug/L		104	80 - 120	4	20
Chloromethane	ND		25.0	21.7		ug/L		87	51 - 142	5	21
cis-1,2-Dichloroethene	ND	F1	50.0	61.6	F1	ug/L		123	80 - 121	8	20
cis-1,3-Dichloropropene	ND		50.0	48.1		ug/L		96	77 - 127	5	20
Dibromochloromethane	ND		50.0	48.3		ug/L		97	77 - 128	4	20
Dibromomethane	ND		50.0	53.1		ug/L		106	80 - 120	4	20
Dichlorodifluoromethane	ND		25.0	18.4		ug/L		74	36 - 150	5	35
Ethylbenzene	ND		50.0	53.8		ug/L		108	80 - 120	4	20
Hexachlorobutadiene	ND		50.0	46.7		ug/L		93	66 - 135	13	20
Isopropylbenzene	ND		50.0	52.7		ug/L		105	78 - 123	8	20
Methylene Chloride	ND		50.0	47.8		ug/L		96	77 - 121	5	20
m-Xylene & p-Xylene	ND		50.0	53.1		ug/L		106	80 - 121	5	20
Naphthalene	ND		50.0	65.8		ug/L		132	55 - 135	10	23
n-Butylbenzene	ND		50.0	52.8		ug/L		106	73 - 131	10	25
N-Propylbenzene	ND		50.0	53.1		ug/L		106	80 - 123	7	20
o-Xylene	ND		50.0	52.9		ug/L		106	80 - 121	3	20
sec-Butylbenzene	ND		50.0	52.4		ug/L		105	80 - 125	9	20
Styrene	ND		50.0	52.6		ug/L		105	80 - 123	3	20
tert-Butylbenzene	ND		50.0	52.9		ug/L		106	80 - 121	8	20
Tetrachloroethene	ND		50.0	55.1		ug/L		110	79 - 125	6	20
Toluene	ND		50.0	56.0		ug/L		112	80 - 120	6	20
trans-1,2-Dichloroethene	ND		50.0	53.9		ug/L		108	78 - 123	7	20
trans-1,3-Dichloropropene	ND		50.0	51.6		ug/L		103	79 - 124	6	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: 280-216230-A-5 MSD

Matrix: Water

Analysis Batch: 722082

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
Trichloroethene	2.5		50.0	52.7		ug/L		100	79 - 121	8	20
Trichlorofluoromethane	ND		25.0	24.4		ug/L		98	60 - 139	5	25
Vinyl chloride	ND		25.0	24.8		ug/L		99	60 - 136	2	23
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	91		80 - 120								
4-Bromofluorobenzene (Surr)	93		80 - 120								
Dibromofluoromethane (Surr)	100		80 - 120								
Toluene-d8 (Surr)	98		80 - 120								

Lab Sample ID: 280-216230-B-5 MS

Matrix: Water

Analysis Batch: 722082

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1,2-Tetrachloroethane	ND		50.0	47.8		ug/L		96	79 - 125		
1,1,1,1-Trichloroethane	ND		50.0	47.9		ug/L		96	78 - 125		
1,1,1,2,2-Tetrachloroethane	ND		50.0	48.5		ug/L		97	73 - 126		
1,1,2-Trichloroethane	ND		50.0	52.4		ug/L		105	80 - 121		
1,1-Dichloroethane	ND		50.0	46.5		ug/L		93	78 - 124		
1,1-Dichloroethene	ND		50.0	49.0		ug/L		98	76 - 124		
1,1-Dichloropropene	ND		50.0	48.8		ug/L		98	80 - 124		
1,2,3-Trichlorobenzene	ND		50.0	54.2		ug/L		108	57 - 136		
1,2,3-Trichloropropane	ND		50.0	51.4		ug/L		103	75 - 123		
1,2,4-Trichlorobenzene	ND		50.0	54.6		ug/L		109	69 - 130		
1,2,4-Trimethylbenzene	ND		50.0	49.6		ug/L		99	80 - 123		
1,2-Dibromo-3-Chloropropane	ND		50.0	48.3		ug/L		97	64 - 130		
1,2-Dibromoethane	ND		50.0	52.6		ug/L		105	80 - 120		
1,2-Dichlorobenzene	ND		50.0	51.4		ug/L		103	80 - 120		
1,2-Dichloroethane	ND		50.0	47.3		ug/L		95	73 - 124		
1,2-Dichloropropane	ND		50.0	45.6		ug/L		91	78 - 124		
1,3,5-Trimethylbenzene	ND		50.0	49.3		ug/L		99	80 - 122		
1,3-Dichlorobenzene	ND		50.0	52.3		ug/L		105	80 - 120		
1,3-Dichloropropane	ND		50.0	48.9		ug/L		98	80 - 121		
1,4-Dichlorobenzene	ND		50.0	51.8		ug/L		104	80 - 120		
2,2-Dichloropropane	ND		50.0	47.9		ug/L		96	72 - 131		
2-Butanone (MEK)	ND		200	187		ug/L		94	59 - 141		
2-Chlorotoluene	ND		50.0	50.9		ug/L		102	80 - 120		
2-Hexanone	ND		200	176		ug/L		88	59 - 146		
4-Chlorotoluene	ND		50.0	50.7		ug/L		101	80 - 121		
4-Isopropyltoluene	ND		50.0	49.2		ug/L		98	80 - 124		
4-Methyl-2-pentanone (MIBK)	ND		200	180		ug/L		90	63 - 144		
Acetone	ND		200	176		ug/L		88	57 - 143		
Benzene	ND		50.0	48.6		ug/L		97	80 - 121		
Bromobenzene	ND		50.0	51.5		ug/L		103	80 - 120		
Bromochloromethane	ND		50.0	51.8		ug/L		104	76 - 126		
Bromodichloromethane	ND		50.0	45.0		ug/L		90	80 - 124		
Bromoform	ND		50.0	45.9		ug/L		92	66 - 134		

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: 280-216230-B-5 MS

Matrix: Water

Analysis Batch: 722082

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
Bromomethane	ND		25.0	13.3		ug/L		53	10 - 150
Carbon disulfide	ND		50.0	41.5		ug/L		83	70 - 127
Carbon tetrachloride	ND		50.0	46.6		ug/L		93	72 - 131
Chlorobenzene	ND		50.0	52.0		ug/L		104	80 - 120
Chloroethane	ND		25.0	25.8		ug/L		103	51 - 149
Chloroform	ND		50.0	50.3		ug/L		101	80 - 120
Chloromethane	ND		25.0	20.7		ug/L		83	51 - 142
cis-1,2-Dichloroethene	ND	F1	50.0	56.9		ug/L		114	80 - 121
cis-1,3-Dichloropropene	ND		50.0	45.8		ug/L		92	77 - 127
Dibromochloromethane	ND		50.0	46.2		ug/L		92	77 - 128
Dibromomethane	ND		50.0	51.2		ug/L		102	80 - 120
Dichlorodifluoromethane	ND		25.0	17.5		ug/L		70	36 - 150
Ethylbenzene	ND		50.0	51.9		ug/L		104	80 - 120
Hexachlorobutadiene	ND		50.0	41.1		ug/L		82	66 - 135
Isopropylbenzene	ND		50.0	48.8		ug/L		98	78 - 123
Methylene Chloride	ND		50.0	45.5		ug/L		91	77 - 121
m-Xylene & p-Xylene	ND		50.0	50.5		ug/L		101	80 - 121
Naphthalene	ND		50.0	59.6		ug/L		119	55 - 135
n-Butylbenzene	ND		50.0	47.9		ug/L		96	73 - 131
N-Propylbenzene	ND		50.0	49.7		ug/L		99	80 - 123
o-Xylene	ND		50.0	51.2		ug/L		102	80 - 121
sec-Butylbenzene	ND		50.0	47.8		ug/L		96	80 - 125
Styrene	ND		50.0	50.8		ug/L		102	80 - 123
tert-Butylbenzene	ND		50.0	48.6		ug/L		97	80 - 121
Tetrachloroethene	ND		50.0	52.0		ug/L		104	79 - 125
Toluene	ND		50.0	52.8		ug/L		106	80 - 120
trans-1,2-Dichloroethene	ND		50.0	50.2		ug/L		100	78 - 123
trans-1,3-Dichloropropene	ND		50.0	48.5		ug/L		97	79 - 124
Trichloroethene	2.5		50.0	48.7		ug/L		92	79 - 121
Trichlorofluoromethane	ND		25.0	23.2		ug/L		93	60 - 139
Vinyl chloride	ND		25.0	24.2		ug/L		97	60 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		80 - 120
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 280-722300/10

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: MB 280-722300/10

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,1-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,2,3-Trichlorobenzene	ND		4.0	1.0	ug/L			11/11/25 22:07	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			11/11/25 22:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			11/11/25 22:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			11/11/25 22:07	1
1,2-Dibromoethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,3-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
2,2-Dichloropropane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
2-Butanone (MEK)	ND		10	4.0	ug/L			11/11/25 22:07	1
2-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
2-Hexanone	ND		5.0	1.5	ug/L			11/11/25 22:07	1
4-Chlorotoluene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
4-Isopropyltoluene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			11/11/25 22:07	1
Acetone	ND		15	5.0	ug/L			11/11/25 22:07	1
Benzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Bromobenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Bromochloromethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Bromodichloromethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Bromoform	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Bromomethane	ND		5.0	2.5	ug/L			11/11/25 22:07	1
Carbon disulfide	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Chlorobenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Chloroethane	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Chloroform	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Chloromethane	ND		2.0	0.50	ug/L			11/11/25 22:07	1
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Dibromochloromethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Dibromomethane	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Dichlorodifluoromethane	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Ethylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Isopropylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Methylene Chloride	ND		2.0	1.0	ug/L			11/11/25 22:07	1
m-Xylene & p-Xylene	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Naphthalene	ND		3.0	1.0	ug/L			11/11/25 22:07	1
n-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
N-Propylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
o-Xylene	ND		1.0	0.25	ug/L			11/11/25 22:07	1

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: MB 280-722300/10

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Styrene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
tert-Butylbenzene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Tetrachloroethene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Toluene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
trans-1,3-Dichloropropene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Trichloroethene	ND		1.0	0.25	ug/L			11/11/25 22:07	1
Trichlorofluoromethane	ND		2.0	0.50	ug/L			11/11/25 22:07	1
Vinyl chloride	ND		1.0	0.25	ug/L			11/11/25 22:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		11/11/25 22:07	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/11/25 22:07	1
Dibromofluoromethane (Surr)	96		80 - 120		11/11/25 22:07	1
Toluene-d8 (Surr)	100		80 - 120		11/11/25 22:07	1

Lab Sample ID: LCS 280-722300/4

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	53.6		ug/L		107	79 - 125
1,1,1-Trichloroethane	50.0	51.5		ug/L		103	78 - 125
1,1,2,2-Tetrachloroethane	50.0	57.0		ug/L		114	73 - 126
1,1,2-Trichloroethane	50.0	52.4		ug/L		105	80 - 121
1,1-Dichloroethane	50.0	47.2		ug/L		94	78 - 124
1,1-Dichloroethene	50.0	46.8		ug/L		94	76 - 124
1,1-Dichloropropene	50.0	52.5		ug/L		105	80 - 124
1,2,3-Trichlorobenzene	50.0	48.3		ug/L		97	57 - 136
1,2,3-Trichloropropene	50.0	54.0		ug/L		108	75 - 123
1,2,4-Trichlorobenzene	50.0	48.4		ug/L		97	69 - 130
1,2,4-Trimethylbenzene	50.0	54.2		ug/L		108	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	44.4		ug/L		89	64 - 130
1,2-Dibromoethane	50.0	53.8		ug/L		108	80 - 120
1,2-Dichlorobenzene	50.0	51.6		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	55.4		ug/L		111	73 - 124
1,2-Dichloropropane	50.0	54.4		ug/L		109	78 - 124
1,3,5-Trimethylbenzene	50.0	55.4		ug/L		111	80 - 122
1,3-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120
1,3-Dichloropropane	50.0	56.6		ug/L		113	80 - 121
1,4-Dichlorobenzene	50.0	53.1		ug/L		106	80 - 120
2,2-Dichloropropane	50.0	50.2		ug/L		100	72 - 131
2-Butanone (MEK)	200	221		ug/L		111	59 - 141
2-Chlorotoluene	50.0	53.6		ug/L		107	80 - 120
2-Hexanone	200	240		ug/L		120	59 - 146
4-Chlorotoluene	50.0	53.7		ug/L		107	80 - 121
4-Isopropyltoluene	50.0	53.5		ug/L		107	80 - 124

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: LCS 280-722300/4

Matrix: Water

Analysis Batch: 722300

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone (MIBK)	200	235		ug/L		117	63 - 144
Acetone	200	208		ug/L		104	57 - 143
Benzene	50.0	51.8		ug/L		104	80 - 121
Bromobenzene	50.0	52.5		ug/L		105	80 - 120
Bromochloromethane	50.0	49.8		ug/L		100	76 - 126
Bromodichloromethane	50.0	54.6		ug/L		109	80 - 124
Bromoform	50.0	43.8		ug/L		88	66 - 134
Bromomethane	50.0	55.0		ug/L		110	10 - 150
Carbon disulfide	50.0	47.4		ug/L		95	70 - 127
Carbon tetrachloride	50.0	50.8		ug/L		102	72 - 131
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120
Chloroethane	50.0	56.2		ug/L		112	51 - 149
Chloroform	50.0	53.0		ug/L		106	80 - 120
Chloromethane	50.0	52.6		ug/L		105	51 - 142
cis-1,2-Dichloroethene	50.0	48.8		ug/L		98	80 - 121
cis-1,3-Dichloropropene	50.0	57.7		ug/L		115	77 - 127
Dibromochloromethane	50.0	41.8		ug/L		84	77 - 128
Dibromomethane	50.0	51.5		ug/L		103	80 - 120
Dichlorodifluoromethane	50.0	57.7		ug/L		115	36 - 150
Ethylbenzene	50.0	49.8		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	51.0		ug/L		102	66 - 135
Isopropylbenzene	50.0	55.4		ug/L		111	78 - 123
Methylene Chloride	50.0	50.0		ug/L		100	77 - 121
m-Xylene & p-Xylene	50.0	50.4		ug/L		101	80 - 121
Naphthalene	50.0	52.3		ug/L		105	55 - 135
n-Butylbenzene	50.0	53.7		ug/L		107	73 - 131
N-Propylbenzene	50.0	55.2		ug/L		110	80 - 123
o-Xylene	50.0	50.9		ug/L		102	80 - 121
sec-Butylbenzene	50.0	53.2		ug/L		106	80 - 125
Styrene	50.0	54.5		ug/L		109	80 - 123
tert-Butylbenzene	50.0	54.1		ug/L		108	80 - 121
Tetrachloroethene	50.0	49.5		ug/L		99	79 - 125
Toluene	50.0	48.7		ug/L		97	80 - 120
trans-1,2-Dichloroethene	50.0	45.7		ug/L		91	78 - 123
trans-1,3-Dichloropropene	50.0	48.0		ug/L		96	79 - 124
Trichloroethene	50.0	54.4		ug/L		109	79 - 121
Trichlorofluoromethane	50.0	61.0		ug/L		122	60 - 139
Vinyl chloride	50.0	55.9		ug/L		112	60 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	94		80 - 120
Toluene-d8 (Surr)	99		80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: LCSD 280-722300/5

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/L		106	79 - 125	1	20
1,1,1-Trichloroethane	50.0	51.9		ug/L		104	78 - 125	1	20
1,1,2,2-Tetrachloroethane	50.0	51.8		ug/L		104	73 - 126	10	20
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	80 - 121	1	20
1,1-Dichloroethane	50.0	50.8		ug/L		102	78 - 124	7	20
1,1-Dichloroethene	50.0	50.2		ug/L		100	76 - 124	7	20
1,1-Dichloropropene	50.0	51.5		ug/L		103	80 - 124	2	20
1,2,3-Trichlorobenzene	50.0	47.8		ug/L		96	57 - 136	1	21
1,2,3-Trichloropropane	50.0	51.8		ug/L		104	75 - 123	4	26
1,2,4-Trichlorobenzene	50.0	47.6		ug/L		95	69 - 130	2	20
1,2,4-Trimethylbenzene	50.0	52.4		ug/L		105	80 - 123	3	20
1,2-Dibromo-3-Chloropropane	50.0	43.1		ug/L		86	64 - 130	3	20
1,2-Dibromoethane	50.0	51.0		ug/L		102	80 - 120	5	20
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	2	20
1,2-Dichloroethane	50.0	55.4		ug/L		111	73 - 124	0	20
1,2-Dichloropropane	50.0	51.3		ug/L		103	78 - 124	6	20
1,3,5-Trimethylbenzene	50.0	52.1		ug/L		104	80 - 122	6	20
1,3-Dichlorobenzene	50.0	48.6		ug/L		97	80 - 120	3	20
1,3-Dichloropropane	50.0	52.0		ug/L		104	80 - 121	8	20
1,4-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 120	1	20
2,2-Dichloropropane	50.0	48.4		ug/L		97	72 - 131	4	20
2-Butanone (MEK)	200	210		ug/L		105	59 - 141	5	20
2-Chlorotoluene	50.0	51.7		ug/L		103	80 - 120	4	20
2-Hexanone	200	210		ug/L		105	59 - 146	13	20
4-Chlorotoluene	50.0	51.3		ug/L		103	80 - 121	5	20
4-Isopropyltoluene	50.0	51.1		ug/L		102	80 - 124	5	20
4-Methyl-2-pentanone (MIBK)	200	220		ug/L		110	63 - 144	6	20
Acetone	200	219		ug/L		110	57 - 143	6	22
Benzene	50.0	49.1		ug/L		98	80 - 121	5	20
Bromobenzene	50.0	50.6		ug/L		101	80 - 120	4	20
Bromochloromethane	50.0	50.6		ug/L		101	76 - 126	2	20
Bromodichloromethane	50.0	53.1		ug/L		106	80 - 124	3	20
Bromoform	50.0	43.4		ug/L		87	66 - 134	1	20
Bromomethane	50.0	54.0		ug/L		108	10 - 150	2	58
Carbon disulfide	50.0	49.7		ug/L		99	70 - 127	5	20
Carbon tetrachloride	50.0	51.6		ug/L		103	72 - 131	2	20
Chlorobenzene	50.0	49.0		ug/L		98	80 - 120	2	20
Chloroethane	50.0	60.7		ug/L		121	51 - 149	8	34
Chloroform	50.0	51.9		ug/L		104	80 - 120	2	20
Chloromethane	50.0	54.7		ug/L		109	51 - 142	4	21
cis-1,2-Dichloroethene	50.0	47.9		ug/L		96	80 - 121	2	20
cis-1,3-Dichloropropene	50.0	53.9		ug/L		108	77 - 127	7	20
Dibromochloromethane	50.0	40.7		ug/L		81	77 - 128	3	20
Dibromomethane	50.0	50.8		ug/L		102	80 - 120	1	20
Dichlorodifluoromethane	50.0	59.8		ug/L		120	36 - 150	3	35
Ethylbenzene	50.0	49.1		ug/L		98	80 - 120	1	20
Hexachlorobutadiene	50.0	50.7		ug/L		101	66 - 135	1	20
Isopropylbenzene	50.0	54.0		ug/L		108	78 - 123	3	20

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: LCSD 280-722300/5

Matrix: Water

Analysis Batch: 722300

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
Methylene Chloride	50.0	53.1		ug/L		106	77 - 121	6	20
m-Xylene & p-Xylene	50.0	50.8		ug/L		102	80 - 121	1	20
Naphthalene	50.0	52.5		ug/L		105	55 - 135	1	23
n-Butylbenzene	50.0	50.6		ug/L		101	73 - 131	6	25
N-Propylbenzene	50.0	52.5		ug/L		105	80 - 123	5	20
o-Xylene	50.0	49.1		ug/L		98	80 - 121	4	20
sec-Butylbenzene	50.0	51.0		ug/L		102	80 - 125	4	20
Styrene	50.0	52.9		ug/L		106	80 - 123	3	20
tert-Butylbenzene	50.0	52.7		ug/L		105	80 - 121	3	20
Tetrachloroethene	50.0	49.5		ug/L		99	79 - 125	0	20
Toluene	50.0	47.9		ug/L		96	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	78 - 123	7	20
trans-1,3-Dichloropropene	50.0	45.9		ug/L		92	79 - 124	5	20
Trichloroethene	50.0	51.6		ug/L		103	79 - 121	5	20
Trichlorofluoromethane	50.0	63.0		ug/L		126	60 - 139	3	25
Vinyl chloride	50.0	58.7		ug/L		117	60 - 136	5	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: 280-216167-H-9 MS

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		25.0	28.0		ug/L		112	79 - 125
1,1,1-Trichloroethane	ND		25.0	28.5		ug/L		114	78 - 125
1,1,2,2-Tetrachloroethane	ND		25.0	29.2		ug/L		117	73 - 126
1,1,2-Trichloroethane	ND		25.0	28.5		ug/L		114	80 - 121
1,1-Dichloroethane	ND		25.0	28.6		ug/L		114	78 - 124
1,1-Dichloroethene	ND		25.0	26.4		ug/L		105	76 - 124
1,1-Dichloropropene	ND F2		25.0	29.5		ug/L		118	80 - 124
1,2,3-Trichlorobenzene	ND		25.0	24.4		ug/L		98	57 - 136
1,2,3-Trichloropropane	ND		25.0	29.2		ug/L		117	75 - 123
1,2,4-Trichlorobenzene	ND		25.0	24.5		ug/L		98	69 - 130
1,2,4-Trimethylbenzene	ND F2		25.0	29.5		ug/L		118	80 - 123
1,2-Dibromo-3-Chloropropane	ND		25.0	21.1		ug/L		84	64 - 130
1,2-Dibromoethane	ND		25.0	28.5		ug/L		114	80 - 120
1,2-Dichlorobenzene	ND		25.0	27.2		ug/L		109	80 - 120
1,2-Dichloroethane	ND F1 F2		25.0	31.5 F1		ug/L		126	73 - 124
1,2-Dichloropropane	ND		25.0	28.9		ug/L		116	78 - 124
1,3,5-Trimethylbenzene	ND F2		25.0	30.1		ug/L		120	80 - 122
1,3-Dichlorobenzene	ND		25.0	27.3		ug/L		109	80 - 120
1,3-Dichloropropane	ND		25.0	29.5		ug/L		118	80 - 121
1,4-Dichlorobenzene	ND		25.0	28.7		ug/L		115	80 - 120

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: 280-216167-H-9 MS

Matrix: Water

Analysis Batch: 722300

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
2,2-Dichloropropane	ND		25.0	25.4		ug/L		101	72 - 131
2-Butanone (MEK)	ND		100	114		ug/L		114	59 - 141
2-Chlorotoluene	ND		25.0	28.9		ug/L		116	80 - 120
2-Hexanone	ND		100	121		ug/L		121	59 - 146
4-Chlorotoluene	ND	F2	25.0	29.5		ug/L		118	80 - 121
4-Isopropyltoluene	ND		25.0	28.0		ug/L		112	80 - 124
4-Methyl-2-pentanone (MIBK)	ND	F2	100	122		ug/L		122	63 - 144
Acetone	ND		100	114		ug/L		114	57 - 143
Benzene	ND	F2	25.0	28.5		ug/L		114	80 - 121
Bromobenzene	ND		25.0	27.8		ug/L		111	80 - 120
Bromochloromethane	ND		25.0	27.9		ug/L		112	76 - 126
Bromodichloromethane	ND		25.0	27.8		ug/L		111	80 - 124
Bromoform	ND		25.0	22.4		ug/L		89	66 - 134
Bromomethane	ND		25.0	31.5		ug/L		126	10 - 150
Carbon disulfide	ND		25.0	25.7		ug/L		103	70 - 127
Carbon tetrachloride	ND		25.0	27.2		ug/L		109	72 - 131
Chlorobenzene	ND		25.0	27.6		ug/L		110	80 - 120
Chloroethane	ND		25.0	33.0		ug/L		132	51 - 149
Chloroform	ND		25.0	28.8		ug/L		115	80 - 120
Chloromethane	ND	F2	25.0	30.9		ug/L		124	51 - 142
cis-1,2-Dichloroethene	3.1		25.0	30.2		ug/L		108	80 - 121
cis-1,3-Dichloropropene	ND		25.0	28.1		ug/L		112	77 - 127
Dibromochloromethane	ND	F1	25.0	21.1		ug/L		84	77 - 128
Dibromomethane	ND		25.0	28.1		ug/L		112	80 - 120
Dichlorodifluoromethane	ND		25.0	35.9		ug/L		143	36 - 150
Ethylbenzene	ND		25.0	27.1		ug/L		109	80 - 120
Hexachlorobutadiene	ND		25.0	25.6		ug/L		102	66 - 135
Isopropylbenzene	ND		25.0	27.6		ug/L		110	78 - 123
Methylene Chloride	ND		25.0	28.3		ug/L		113	77 - 121
m-Xylene & p-Xylene	ND		25.0	27.4		ug/L		109	80 - 121
Naphthalene	ND		25.0	26.7		ug/L		107	55 - 135
n-Butylbenzene	ND		25.0	27.6		ug/L		110	73 - 131
N-Propylbenzene	ND		25.0	28.9		ug/L		116	80 - 123
o-Xylene	ND		25.0	26.9		ug/L		108	80 - 121
sec-Butylbenzene	ND		25.0	28.9		ug/L		115	80 - 125
Styrene	ND		25.0	27.7		ug/L		111	80 - 123
tert-Butylbenzene	ND		25.0	28.8		ug/L		115	80 - 121
Tetrachloroethene	ND		25.0	27.6		ug/L		111	79 - 125
Toluene	ND		25.0	26.1		ug/L		104	80 - 120
trans-1,2-Dichloroethene	ND		25.0	27.2		ug/L		109	78 - 123
trans-1,3-Dichloropropene	ND		25.0	23.7		ug/L		95	79 - 124
Trichloroethene	ND		25.0	29.2		ug/L		117	79 - 121
Trichlorofluoromethane	ND	F1 F2	25.0	39.1	F1	ug/L		156	60 - 139
Vinyl chloride	ND	F2	25.0	32.7		ug/L		131	60 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	110		80 - 120						
4-Bromofluorobenzene (Surr)	99		80 - 120						

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: 280-216167-H-9 MS

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: 280-216167-H-9 MSD

Matrix: Water

Analysis Batch: 722300

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	23.7		ug/L		95	79 - 125	16	20
1,1,1-Trichloroethane	ND		25.0	23.5		ug/L		94	78 - 125	19	20
1,1,2,2-Tetrachloroethane	ND		25.0	25.6		ug/L		102	73 - 126	13	20
1,1,2-Trichloroethane	ND		25.0	23.3		ug/L		93	80 - 121	20	20
1,1-Dichloroethane	ND		25.0	24.3		ug/L		97	78 - 124	16	20
1,1-Dichloroethene	ND		25.0	22.8		ug/L		91	76 - 124	15	20
1,1-Dichloropropene	ND	F2	25.0	23.5	F2	ug/L		94	80 - 124	23	20
1,2,3-Trichlorobenzene	ND		25.0	21.2		ug/L		85	57 - 136	14	21
1,2,3-Trichloropropane	ND		25.0	24.9		ug/L		100	75 - 123	16	26
1,2,4-Trichlorobenzene	ND		25.0	20.7		ug/L		83	69 - 130	17	20
1,2,4-Trimethylbenzene	ND	F2	25.0	23.9	F2	ug/L		96	80 - 123	21	20
1,2-Dibromo-3-Chloropropane	ND		25.0	17.4		ug/L		70	64 - 130	19	20
1,2-Dibromoethane	ND		25.0	24.4		ug/L		98	80 - 120	15	20
1,2-Dichlorobenzene	ND		25.0	23.0		ug/L		92	80 - 120	17	20
1,2-Dichloroethane	ND	F1 F2	25.0	25.6	F2	ug/L		102	73 - 124	21	20
1,2-Dichloropropane	ND		25.0	23.9		ug/L		95	78 - 124	19	20
1,3,5-Trimethylbenzene	ND	F2	25.0	24.1	F2	ug/L		97	80 - 122	22	20
1,3-Dichlorobenzene	ND		25.0	22.5		ug/L		90	80 - 120	19	20
1,3-Dichloropropane	ND		25.0	25.9		ug/L		104	80 - 121	13	20
1,4-Dichlorobenzene	ND		25.0	23.8		ug/L		95	80 - 120	19	20
2,2-Dichloropropane	ND		25.0	21.1		ug/L		85	72 - 131	18	20
2-Butanone (MEK)	ND		100	96.2		ug/L		96	59 - 141	17	20
2-Chlorotoluene	ND		25.0	23.6		ug/L		94	80 - 120	20	20
2-Hexanone	ND		100	100		ug/L		100	59 - 146	19	20
4-Chlorotoluene	ND	F2	25.0	23.9	F2	ug/L		96	80 - 121	21	20
4-Isopropyltoluene	ND		25.0	23.8		ug/L		95	80 - 124	16	20
4-Methyl-2-pentanone (MIBK)	ND	F2	100	95.7	F2	ug/L		96	63 - 144	25	20
Acetone	ND		100	104		ug/L		104	57 - 143	9	22
Benzene	ND	F2	25.0	22.6	F2	ug/L		90	80 - 121	23	20
Bromobenzene	ND		25.0	22.9		ug/L		92	80 - 120	19	20
Bromochloromethane	ND		25.0	23.5		ug/L		94	76 - 126	17	20
Bromodichloromethane	ND		25.0	23.5		ug/L		94	80 - 124	17	20
Bromoform	ND		25.0	19.1		ug/L		76	66 - 134	16	20
Bromomethane	ND		25.0	25.7		ug/L		103	10 - 150	20	58
Carbon disulfide	ND		25.0	22.9		ug/L		92	70 - 127	11	20
Carbon tetrachloride	ND		25.0	22.8		ug/L		91	72 - 131	18	20
Chlorobenzene	ND		25.0	23.0		ug/L		92	80 - 120	18	20
Chloroethane	ND		25.0	24.8		ug/L		99	51 - 149	28	34
Chloroform	ND		25.0	23.9		ug/L		95	80 - 120	19	20
Chloromethane	ND	F2	25.0	24.2	F2	ug/L		97	51 - 142	24	21

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: 280-216167-H-9 MSD

Matrix: Water

Analysis Batch: 722300

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
cis-1,2-Dichloroethene	3.1		25.0	25.1		ug/L		88	80 - 121	18	20
cis-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	77 - 127	14	20
Dibromochloromethane	ND	F1	25.0	18.0	F1	ug/L		72	77 - 128	16	20
Dibromomethane	ND		25.0	24.0		ug/L		96	80 - 120	16	20
Dichlorodifluoromethane	ND		25.0	26.5		ug/L		106	36 - 150	30	35
Ethylbenzene	ND		25.0	23.4		ug/L		94	80 - 120	15	20
Hexachlorobutadiene	ND		25.0	22.2		ug/L		89	66 - 135	14	20
Isopropylbenzene	ND		25.0	23.8		ug/L		95	78 - 123	15	20
Methylene Chloride	ND		25.0	23.4		ug/L		94	77 - 121	19	20
m-Xylene & p-Xylene	ND		25.0	23.5		ug/L		94	80 - 121	15	20
Naphthalene	ND		25.0	22.0		ug/L		88	55 - 135	19	23
n-Butylbenzene	ND		25.0	22.9		ug/L		92	73 - 131	19	25
N-Propylbenzene	ND		25.0	24.6		ug/L		98	80 - 123	16	20
o-Xylene	ND		25.0	23.1		ug/L		93	80 - 121	15	20
sec-Butylbenzene	ND		25.0	24.1		ug/L		96	80 - 125	18	20
Styrene	ND		25.0	23.9		ug/L		96	80 - 123	15	20
tert-Butylbenzene	ND		25.0	24.3		ug/L		97	80 - 121	17	20
Tetrachloroethene	ND		25.0	23.5		ug/L		94	79 - 125	16	20
Toluene	ND		25.0	21.6		ug/L		86	80 - 120	19	20
trans-1,2-Dichloroethene	ND		25.0	22.5		ug/L		90	78 - 123	19	20
trans-1,3-Dichloropropene	ND		25.0	20.6		ug/L		83	79 - 124	14	20
Trichloroethene	ND		25.0	24.9		ug/L		100	79 - 121	16	20
Trichlorofluoromethane	ND	F1 F2	25.0	29.9	F2	ug/L		120	60 - 139	27	25
Vinyl chloride	ND	F2	25.0	25.2	F2	ug/L		101	60 - 136	26	23

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Method: 6010D - Metals (ICP)

Lab Sample ID: 280-216304-B-1-B MS

Matrix: Water

Analysis Batch: 721821

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 721026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		1000	1010		ug/L		101	75 - 125
Calcium	400000		50000	463000	4	ug/L		118	75 - 125
Iron	ND		10000	9530		ug/L		95	75 - 125
Magnesium	400000		50000	458000	4	ug/L		122	75 - 125
Manganese	3.4	J	1000	959		ug/L		96	75 - 125
Sodium	490000		50000	560000	4	ug/L		136	75 - 125

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QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

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

Lab Sample ID: 280-216304-B-1-C MSD

Matrix: Water

Analysis Batch: 721821

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 721026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		1000	881		ug/L		88	75 - 125	14	20
Calcium	400000		50000	408000	4	ug/L		7	75 - 125	13	20
Iron	ND		10000	8300		ug/L		83	75 - 125	14	20
Magnesium	400000		50000	403000	4	ug/L		12	75 - 125	13	20
Manganese	3.4	J	1000	834		ug/L		83	75 - 125	14	20
Sodium	490000		50000	492000	4	ug/L		-1	75 - 125	13	20

Lab Sample ID: MB 280-721026/1-A

Matrix: Water

Analysis Batch: 721821

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 721026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	5.0	ug/L		11/04/25 09:55	11/07/25 01:05	1
Calcium	ND		200	60	ug/L		11/04/25 09:55	11/07/25 01:05	1
Iron	ND		100	40	ug/L		11/04/25 09:55	11/07/25 01:05	1
Magnesium	ND		200	50	ug/L		11/04/25 09:55	11/07/25 01:05	1
Manganese	ND		10	2.5	ug/L		11/04/25 09:55	11/07/25 01:05	1
Sodium	ND		1000	450	ug/L		11/04/25 09:55	11/07/25 01:05	1

Lab Sample ID: LCS 280-721026/2-A

Matrix: Water

Analysis Batch: 721821

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 721026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1000	970		ug/L		97	85 - 115
Calcium	50000	47300		ug/L		95	85 - 115
Iron	10000	9550		ug/L		96	85 - 115
Magnesium	50000	47300		ug/L		95	85 - 115
Manganese	1000	964		ug/L		96	85 - 115
Sodium	50000	48400		ug/L		97	85 - 115

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-721069/56

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/05/25 05:33	1

Lab Sample ID: MB 280-721069/6

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.3	mg/L			11/04/25 13:07	1

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-721069/4

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	102		mg/L		102	90 - 110

Lab Sample ID: LCS 280-721069/54

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	102		mg/L		102	90 - 110

Lab Sample ID: LCSD 280-721069/5

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	102		mg/L		102	90 - 110	0	10

Lab Sample ID: LCSD 280-721069/55

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	102		mg/L		102	90 - 110	0	10

Lab Sample ID: MRL 280-721069/3

Matrix: Water

Analysis Batch: 721069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	3.31		mg/L		110	50 - 150

Lab Sample ID: 280-216302-2 MS

Matrix: Water

Analysis Batch: 721069

Client Sample ID: LDS-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	960		1000	2000		mg/L		105	90 - 110

Lab Sample ID: 280-216302-2 MSD

Matrix: Water

Analysis Batch: 721069

Client Sample ID: LDS-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	960		1000	2000		mg/L		104	90 - 110	0	15

Lab Sample ID: 280-216302-2 DU

Matrix: Water

Analysis Batch: 721069

Client Sample ID: LDS-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	960		957		mg/L		0.1	15

Eurofins Denver

QC Sample Results

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-721601/6

Matrix: Water

Analysis Batch: 721601

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		10	7.0	mg/L			11/06/25 18:54	1

Lab Sample ID: 280-216276-E-1 DU

Matrix: Water

Analysis Batch: 721601

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	150		153		mg/L		1	20

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

Lab Sample ID: MB 280-721048/1

Matrix: Water

Analysis Batch: 721048

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	6.0	mg/L			11/04/25 10:32	1

Lab Sample ID: LCS 280-721048/2

Matrix: Water

Analysis Batch: 721048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	501	497		mg/L		99	88 - 114

Lab Sample ID: 280-216299-B-2 DU

Matrix: Water

Analysis Batch: 721048

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	260		257		mg/L		1	10

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

GC/MS VOA

Analysis Batch: 722082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216302-2	LDS-3	Total/NA	Water	8260D	
280-216302-3	LDS-4	Total/NA	Water	8260D	
280-216302-4	LDS-5	Total/NA	Water	8260D	
MB 280-722082/10	Method Blank	Total/NA	Water	8260D	
LCS 280-722082/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-722082/5	Lab Control Sample Dup	Total/NA	Water	8260D	
280-216230-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
280-216230-B-5 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 722300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216302-1	LDS-2B	Total/NA	Water	8260D	
280-216302-5	LDS-ELP	Total/NA	Water	8260D	
MB 280-722300/10	Method Blank	Total/NA	Water	8260D	
LCS 280-722300/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-722300/5	Lab Control Sample Dup	Total/NA	Water	8260D	
280-216167-H-9 MS	Matrix Spike	Total/NA	Water	8260D	
280-216167-H-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Metals

Prep Batch: 721026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216302-1	LDS-2B	Dissolved	Water	3005A	
280-216302-2	LDS-3	Dissolved	Water	3005A	
280-216302-3	LDS-4	Dissolved	Water	3005A	
280-216302-4	LDS-5	Dissolved	Water	3005A	
280-216302-5	LDS-ELP	Dissolved	Water	3005A	
MB 280-721026/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-721026/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-216304-B-1-B MS	Matrix Spike	Total/NA	Water	3005A	
280-216304-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Analysis Batch: 721821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216302-1	LDS-2B	Dissolved	Water	6010D	721026
280-216302-2	LDS-3	Dissolved	Water	6010D	721026
280-216302-3	LDS-4	Dissolved	Water	6010D	721026
280-216302-4	LDS-5	Dissolved	Water	6010D	721026
280-216302-5	LDS-ELP	Dissolved	Water	6010D	721026
MB 280-721026/1-A	Method Blank	Total Recoverable	Water	6010D	721026
LCS 280-721026/2-A	Lab Control Sample	Total Recoverable	Water	6010D	721026
280-216304-B-1-B MS	Matrix Spike	Total/NA	Water	6010D	721026
280-216304-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010D	721026

Analysis Batch: 722141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216302-1	LDS-2B	Dissolved	Water	6010D	721026
280-216302-5	LDS-ELP	Dissolved	Water	6010D	721026

Eurofins Denver

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

General Chemistry

Analysis Batch: 721048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216302-1	LDS-2B	Total/NA	Water	SM 2540C	
280-216302-2	LDS-3	Total/NA	Water	SM 2540C	
280-216302-3	LDS-4	Total/NA	Water	SM 2540C	
280-216302-4	LDS-5	Total/NA	Water	SM 2540C	
280-216302-5	LDS-ELP	Total/NA	Water	SM 2540C	
MB 280-721048/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-721048/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-216299-B-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 721069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216302-1	LDS-2B	Total/NA	Water	300.0	
280-216302-2	LDS-3	Total/NA	Water	300.0	
280-216302-3	LDS-4	Total/NA	Water	300.0	
280-216302-4	LDS-5	Total/NA	Water	300.0	
280-216302-5	LDS-ELP	Total/NA	Water	300.0	
MB 280-721069/56	Method Blank	Total/NA	Water	300.0	
MB 280-721069/6	Method Blank	Total/NA	Water	300.0	
LCS 280-721069/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-721069/54	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-721069/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-721069/55	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-721069/3	Lab Control Sample	Total/NA	Water	300.0	
280-216302-2 MS	LDS-3	Total/NA	Water	300.0	
280-216302-2 MSD	LDS-3	Total/NA	Water	300.0	
280-216302-2 DU	LDS-3	Total/NA	Water	300.0	

Analysis Batch: 721601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-216302-1	LDS-2B	Total/NA	Water	SM 2320B	
280-216302-2	LDS-3	Total/NA	Water	SM 2320B	
280-216302-3	LDS-4	Total/NA	Water	SM 2320B	
280-216302-4	LDS-5	Total/NA	Water	SM 2320B	
280-216302-5	LDS-ELP	Total/NA	Water	SM 2320B	
MB 280-721601/6	Method Blank	Total/NA	Water	SM 2320B	
280-216276-E-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Client Sample ID: LDS-2B

Date Collected: 10/31/25 09:15

Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-1

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	8260D		4	5 mL	5 mL	722300	11/12/25 05:30	ETB	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721026	11/04/25 09:55	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 01:12	CAF	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721026	11/04/25 09:55	AR	EET DEN
Dissolved	Analysis	6010D		5			722141	11/11/25 00:38	CAF	EET DEN
Total/NA	Analysis	300.0		50	10 mL	10 mL	721069	11/05/25 02:59	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 19:39	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	721048	11/04/25 10:32	YBF	EET DEN

Client Sample ID: LDS-3

Date Collected: 10/30/25 17:00

Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-2

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	8260D		1	5 mL	5 mL	722082	11/11/25 01:50	BMJ	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721026	11/04/25 09:55	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 01:16	CAF	EET DEN
Total/NA	Analysis	300.0		20	10 mL	10 mL	721069	11/05/25 03:55	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 19:46	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	721048	11/04/25 10:32	YBF	EET DEN

Client Sample ID: LDS-4

Date Collected: 10/30/25 16:35

Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-3

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	8260D		1	5 mL	5 mL	722082	11/11/25 02:12	BMJ	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721026	11/04/25 09:55	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 01:20	CAF	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	721069	11/05/25 04:51	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 19:52	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	721048	11/04/25 10:32	YBF	EET DEN

Client Sample ID: LDS-5

Date Collected: 10/30/25 16:05

Date Received: 11/01/25 09:55

Lab Sample ID: 280-216302-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	722082	11/11/25 02:35	BMJ	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721026	11/04/25 09:55	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 01:24	CAF	EET DEN
Total/NA	Analysis	300.0		10	10 mL	10 mL	721069	11/05/25 05:47	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 19:57	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	721048	11/04/25 10:32	YBF	EET DEN

Eurofins Denver

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Valley LF - Republic Serv Coffin Butte

Job ID: 280-216302-1

Client Sample ID: LDS-ELP

Lab Sample ID: 280-216302-5

Date Collected: 10/30/25 18:05

Matrix: Water

Date Received: 11/01/25 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		4	5 mL	5 mL	722300	11/12/25 05:52	ETB	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721026	11/04/25 09:55	AR	EET DEN
Dissolved	Analysis	6010D		1			721821	11/07/25 01:28	CAF	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	721026	11/04/25 09:55	AR	EET DEN
Dissolved	Analysis	6010D		5			722141	11/11/25 00:42	CAF	EET DEN
Total/NA	Analysis	300.0		50	10 mL	10 mL	721069	11/05/25 06:01	SLH	EET DEN
Total/NA	Analysis	SM 2320B		1			721601	11/06/25 20:16	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	1 mL	100 mL	721048	11/04/25 10:32	YBF	EET DEN

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

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 280-216302-1

Login Number: 216302

List Source: Eurofins Denver

List Number: 1

Creator: Johnston, Michelle A

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").	False	Narrative to indicate if headspace container used for analysis.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	