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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Wagner
Cedar Corporation
W61 N497 Washington Ave
Cedarburg, Wisconsin 53012

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JOB DESCRIPTION

Onalaska LF - W0590-011

JOB NUMBER

500-249292-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

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 Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-249292-1

Receipt
The samples were received on 4/20/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.7º C, 1.0º C and 1.4º C.

Receipt Exceptions
The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): Sample #29 Dup-1 COC list alk and TOC however received HCL voas for VOCs and ntiric container for Metals. Logged per containers.

Did not receive trip blank.

Received nitric container with no label-no sample ID/date/time. Only sample missing nitric container is sample #19. Logged nitric container as sample #19.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with the following had compounds outside 20% drift for method 8260D. A low level standard (CCVL) was analyzed at or below the reporting limit to demonstrate sensitivity for regularly requested compounds. Any detects for out of control compounds should be considered estimates.MW-4S (500-249292-4), MW-5S (500-249292-5), MW-6S (500-249292-6), MW-6M (500-249292-7), MW-8S (500-249292-9), MW-12S (500-249292-13), MW-16S (500-249292-15), MW-16M (500-249292-16), MW-17S (500-249292-17), PZ-5 (500-249292-21), PZ-6 (500-249292-22), PW-1 (500-249292-23), PW-2 (500-249292-24), PW-3 (500-249292-25), PW-4 (500-249292-26), PW-5 (500-249292-27), PW-6 (500-249292-28), DUP-1 (500-249292-29) and DUP-2 (500-249292-30)

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-4S (500-249292-4), MW-5S (500-249292-5), MW-6M (500-249292-7) and DUP-2 (500-249292-30). Elevated reporting limits (RLs) are provided.

Method 8260D: The method blank for analytical batch 500-765222 contained Tetrahydrofuran and Chloroform 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 8260D: The following analyte(s) recovered outside control limits for the LCS/LCSD associated with analytical batch 500-765336: Chloroethane, 1,2-Dichloroethane and 1,2-Dibromo-3-Chloropropane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

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

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

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 2320B: The method blank for analytical batch 500-766205 contained Alkalinity 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 9060A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-765411 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Detection Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-1SR — Lab Sample ID: 500-249292-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Barium	23.3		2.5	0.73	ug/L	1		6020B	Dissolved
Manganese	233		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	4.4		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	102	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	102	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.43	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-2S — Lab Sample ID: 500-249292-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.2		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	86.2		2.5	0.73	ug/L	1		6020B	Dissolved
Cobalt	0.48	J	1.0	0.40	ug/L	1		6020B	Dissolved
Iron	25200		100	46.7	ug/L	1		6020B	Dissolved
Manganese	704		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	5.1		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	154		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	154		5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.00	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-2M — Lab Sample ID: 500-249292-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.4		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	255		2.5	0.73	ug/L	1		6020B	Dissolved
Manganese	1.8	J	2.5	0.79	ug/L	1		6020B	Dissolved
Mercury	0.13	J B	0.20	0.076	ug/L	1		7470A	Dissolved
Total Organic Carbon - Quad	3.8	F1	1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	118		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	118		5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.73	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-4S — Lab Sample ID: 500-249292-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.79	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Isopropylbenzene	8.4		1.0	0.39	ug/L	1		8260D	Total/NA
4-Isopropyltoluene	2.5		1.0	0.36	ug/L	1		8260D	Total/NA
Naphthalene	0.83	J ^c	1.0	0.34	ug/L	1		8260D	Total/NA
N-Propylbenzene	8.6		1.0	0.41	ug/L	1		8260D	Total/NA
sec-Butylbenzene	19		1.0	0.40	ug/L	1		8260D	Total/NA
tert-Butylbenzene	2.5		1.0	0.40	ug/L	1		8260D	Total/NA
Tetrahydrofuran	1.9	J B ^c	10	1.9	ug/L	1		8260D	Total/NA
Xylenes, Total	0.71	J	1.0	0.22	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene - DL	120		10	3.6	ug/L	10		8260D	Total/NA
Arsenic	6.0		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	266		2.5	0.73	ug/L	1		6020B	Dissolved
Iron	8840		100	46.7	ug/L	1		6020B	Dissolved
Manganese	841		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	2.2		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	247		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	247		5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-4S (Continued) — Lab Sample ID: 500-249292-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
pH	7.56	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-5S — Lab Sample ID: 500-249292-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	18	J B	40	7.4	ug/L	20		8260D	Total/NA
Isopropylbenzene	750		20	7.7	ug/L	20		8260D	Total/NA
4-Isopropyltoluene	52		20	7.2	ug/L	20		8260D	Total/NA
Naphthalene	430	^c	20	6.7	ug/L	20		8260D	Total/NA
N-Propylbenzene	690		20	8.3	ug/L	20		8260D	Total/NA
sec-Butylbenzene	180		20	8.0	ug/L	20		8260D	Total/NA
tert-Butylbenzene	250		20	8.0	ug/L	20		8260D	Total/NA
Tetrahydrofuran	45	J B ^c	200	38	ug/L	20		8260D	Total/NA
Toluene	3.4	J	10	3.0	ug/L	20		8260D	Total/NA
Xylenes, Total	6.7	J	20	4.4	ug/L	20		8260D	Total/NA
1,2,4-Trimethylbenzene - DL	820		20	7.2	ug/L	20		8260D	Total/NA
Arsenic	8.8		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	218		2.5	0.73	ug/L	1		6020B	Dissolved
Cobalt	1.4		1.0	0.40	ug/L	1		6020B	Dissolved
Iron	17500		100	46.7	ug/L	1		6020B	Dissolved
Manganese	982		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	7.6		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	252		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	252		5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.36	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-6S — Lab Sample ID: 500-249292-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.80	J B	2.0	0.37	ug/L	1		8260D	Total/NA
tert-Butylbenzene	4.9		1.0	0.40	ug/L	1		8260D	Total/NA
Arsenic	0.71	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	210		2.5	0.73	ug/L	1		6020B	Dissolved
Cobalt	1.1		1.0	0.40	ug/L	1		6020B	Dissolved
Iron	60.2	J	100	46.7	ug/L	1		6020B	Dissolved
Manganese	2980		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	4.0		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	227		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	227		5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.62	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-6M — Lab Sample ID: 500-249292-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.79	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Arsenic	0.89	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	521		2.5	0.73	ug/L	1		6020B	Dissolved
Manganese	5.9		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	3.7		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	107	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	107	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.55	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-7M — Lab Sample ID: 500-249292-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.7		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	180		2.5	0.73	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	1.2		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	195	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	195	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.85	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-8S — Lab Sample ID: 500-249292-9

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.73	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Arsenic	0.56	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	128		2.5	0.73	ug/L	1		6020B	Dissolved
Manganese	1120	F1 F2	2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	1.6		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	231	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	231	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.70	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-9M — Lab Sample ID: 500-249292-10

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.4		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	117		2.5	0.73	ug/L	1		6020B	Dissolved
Manganese	1.2	J	2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	2.5		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	189	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	189	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.90	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-10M — Lab Sample ID: 500-249292-11

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.59	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	8.1		2.5	0.73	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	2.1		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	149	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	149	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.83	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-11M — Lab Sample ID: 500-249292-12

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.60	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	133		2.5	0.73	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	2.0		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	179	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	179	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.80	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-12S — Lab Sample ID: 500-249292-13

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.77	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Arsenic	0.28	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	20.0		2.5	0.73	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	0.82	J	1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	218	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	218	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.73	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-15M — Lab Sample ID: 500-249292-14

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Barium	528		2.5	0.73	ug/L	1		6020B	Dissolved
Cadmium	0.33	J	0.50	0.17	ug/L	1		6020B	Dissolved
Cobalt	0.68	J	1.0	0.40	ug/L	1		6020B	Dissolved
Lead	5.8		0.50	0.19	ug/L	1		6020B	Dissolved
Manganese	1920		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	2.5		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	137	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	137	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.18	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-16S — Lab Sample ID: 500-249292-15

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	10		1.0	0.39	ug/L	1		8260D	Total/NA
Naphthalene	7.4	^c	1.0	0.34	ug/L	1		8260D	Total/NA
n-Butylbenzene	1.8		1.0	0.39	ug/L	1		8260D	Total/NA
N-Propylbenzene	16		1.0	0.41	ug/L	1		8260D	Total/NA
sec-Butylbenzene	12		1.0	0.40	ug/L	1		8260D	Total/NA
tert-Butylbenzene	7.4		1.0	0.40	ug/L	1		8260D	Total/NA
Arsenic	3.8		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	233		2.5	0.73	ug/L	1		6020B	Dissolved
Cobalt	0.71	J	1.0	0.40	ug/L	1		6020B	Dissolved
Iron	15100		100	46.7	ug/L	1		6020B	Dissolved
Manganese	3190		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	4.4		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	396	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	396	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.16	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-16M — Lab Sample ID: 500-249292-16

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.77	J B	2.0	0.37	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene	0.43	J	1.0	0.36	ug/L	1		8260D	Total/NA
Arsenic	1.4		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	644		2.5	0.73	ug/L	1		6020B	Dissolved
Manganese	158		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	3.3		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	179	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	179	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.62	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-17S — Lab Sample ID: 500-249292-17

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.68	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Isopropylbenzene	12		1.0	0.39	ug/L	1		8260D	Total/NA
4-Isopropyltoluene	5.5		1.0	0.36	ug/L	1		8260D	Total/NA
Naphthalene	1.1	^c	1.0	0.34	ug/L	1		8260D	Total/NA
n-Butylbenzene	5.7		1.0	0.39	ug/L	1		8260D	Total/NA
N-Propylbenzene	14		1.0	0.41	ug/L	1		8260D	Total/NA
sec-Butylbenzene	24		1.0	0.40	ug/L	1		8260D	Total/NA
tert-Butylbenzene	14		1.0	0.40	ug/L	1		8260D	Total/NA
Toluene	0.15	J	0.50	0.15	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene - DL	180		10	3.6	ug/L	10		8260D	Total/NA
Arsenic	9.5		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	199		2.5	0.73	ug/L	1		6020B	Dissolved
Iron	8400		100	46.7	ug/L	1		6020B	Dissolved
Manganese	863		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	1.7		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	196	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	196	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.47	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: MW-17M — Lab Sample ID: 500-249292-18

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	421		2.5	0.73	ug/L	1		6020B	Dissolved
Manganese	16.2		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	3.7		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	167	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	167	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.79	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: PZ-1 — Lab Sample ID: 500-249292-19

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.43	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	23.9		2.5	0.73	ug/L	1		6020B	Dissolved
Manganese	150		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	2.7		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	140	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	140	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.78	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: PZ-2 — Lab Sample ID: 500-249292-20

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.4		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	56.4		2.5	0.73	ug/L	1		6020B	Dissolved
Cobalt	4.6		1.0	0.40	ug/L	1		6020B	Dissolved
Iron	10300		100	46.7	ug/L	1		6020B	Dissolved
Manganese	2020		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	11.1		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	141	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	141	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-2 (Continued) — Lab Sample ID: 500-249292-20

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
pH	6.94	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: PZ-5 — Lab Sample ID: 500-249292-21

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	1.0		1.0	0.39	ug/L	1		8260D	Total/NA
4-Isopropyltoluene	1.2		1.0	0.36	ug/L	1		8260D	Total/NA
n-Butylbenzene	1.3		1.0	0.39	ug/L	1		8260D	Total/NA
N-Propylbenzene	1.7		1.0	0.41	ug/L	1		8260D	Total/NA
sec-Butylbenzene	6.4		1.0	0.40	ug/L	1		8260D	Total/NA
tert-Butylbenzene	1.6		1.0	0.40	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene	90		1.0	0.36	ug/L	1		8260D	Total/NA
Xylenes, Total	0.30	J	1.0	0.22	ug/L	1		8260D	Total/NA
Arsenic	4.4		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	150		2.5	0.73	ug/L	1		6020B	Dissolved
Cobalt	1.1		1.0	0.40	ug/L	1		6020B	Dissolved
Iron	5220		100	46.7	ug/L	1		6020B	Dissolved
Manganese	887		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	1.3		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	209	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	209	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.59	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: PZ-6 — Lab Sample ID: 500-249292-22

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.69	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Tetrahydrofuran	2.1	J B ^c	10	1.9	ug/L	1		8260D	Total/NA
Arsenic	0.33	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	24.4		2.5	0.73	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	0.98	J	1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	207	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	207	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.78	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: PW-1 — Lab Sample ID: 500-249292-23

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.80	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Tetrahydrofuran	1.9	J B ^c	10	1.9	ug/L	1		8260D	Total/NA
Barium	1.0	J	2.5	0.73	ug/L	1		6020B	Total Recoverable
Iron	1370		100	46.7	ug/L	1		6020B	Total Recoverable
Lead	0.40	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Manganese	0.96	J	2.5	0.79	ug/L	1		6020B	Total Recoverable

Client Sample ID: PW-2 — Lab Sample ID: 500-249292-24

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.69	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Tetrahydrofuran	2.7	J B ^c	10	1.9	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-2 (Continued) — Lab Sample ID: 500-249292-24

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.43	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	120		2.5	0.73	ug/L	1		6020B	Total Recoverable
Iron	87.6	J	100	46.7	ug/L	1		6020B	Total Recoverable
Lead	1.1		0.50	0.19	ug/L	1		6020B	Total Recoverable
Manganese	155		2.5	0.79	ug/L	1		6020B	Total Recoverable

Client Sample ID: PW-3 — Lab Sample ID: 500-249292-25

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.62	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Tetrahydrofuran	2.6	J B ^c	10	1.9	ug/L	1		8260D	Total/NA
Barium	27.5		2.5	0.73	ug/L	1		6020B	Total Recoverable
Iron	5120		100	46.7	ug/L	1		6020B	Total Recoverable
Lead	1.8		0.50	0.19	ug/L	1		6020B	Total Recoverable
Manganese	122		2.5	0.79	ug/L	1		6020B	Total Recoverable

Client Sample ID: PW-4 — Lab Sample ID: 500-249292-26

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.75	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Tetrahydrofuran	2.0	J B ^c	10	1.9	ug/L	1		8260D	Total/NA
Barium	20.1		2.5	0.73	ug/L	1		6020B	Total Recoverable
Iron	3740		100	46.7	ug/L	1		6020B	Total Recoverable
Lead	0.91		0.50	0.19	ug/L	1		6020B	Total Recoverable
Manganese	98.1		2.5	0.79	ug/L	1		6020B	Total Recoverable

Client Sample ID: PW-5 — Lab Sample ID: 500-249292-27

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.69	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Arsenic	0.44	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	27.7		2.5	0.73	ug/L	1		6020B	Total Recoverable
Iron	849		100	46.7	ug/L	1		6020B	Total Recoverable
Lead	3.5		0.50	0.19	ug/L	1		6020B	Total Recoverable
Manganese	358		2.5	0.79	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-6 — Lab Sample ID: 500-249292-28

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.60	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Barium	41.1		2.5	0.73	ug/L	1		6020B	Total Recoverable
Lead	0.62		0.50	0.19	ug/L	1		6020B	Total Recoverable
Manganese	240		2.5	0.79	ug/L	1		6020B	Total Recoverable

Client Sample ID: DUP-1 — Lab Sample ID: 500-249292-29

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.67	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Tetrahydrofuran	2.1	J B ^c	10	1.9	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 500-249292-30

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.69	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Isopropylbenzene	8.2		1.0	0.39	ug/L	1		8260D	Total/NA
4-Isopropyltoluene	3.0		1.0	0.36	ug/L	1		8260D	Total/NA
Naphthalene	1.0	^c	1.0	0.34	ug/L	1		8260D	Total/NA
n-Butylbenzene	3.5		1.0	0.39	ug/L	1		8260D	Total/NA
N-Propylbenzene	9.1		1.0	0.41	ug/L	1		8260D	Total/NA
sec-Butylbenzene	17		1.0	0.40	ug/L	1		8260D	Total/NA
tert-Butylbenzene	2.3		1.0	0.40	ug/L	1		8260D	Total/NA
Xylenes, Total	0.72	J	1.0	0.22	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene - DL	190		10	3.6	ug/L	10		8260D	Total/NA
Arsenic	4.4		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	259		2.5	0.73	ug/L	1		6020B	Dissolved
Iron	9370		100	46.7	ug/L	1		6020B	Dissolved
Manganese	831		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	2.6		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	254	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	254	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	7.39	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

Client Sample ID: DUP-3 — Lab Sample ID: 500-249292-31

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.1		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	57.2		2.5	0.73	ug/L	1		6020B	Dissolved
Cobalt	4.4		1.0	0.40	ug/L	1		6020B	Dissolved
Iron	9470		100	46.7	ug/L	1		6020B	Dissolved
Manganese	1950		2.5	0.79	ug/L	1		6020B	Dissolved
Total Organic Carbon - Quad	10.3		1.0	0.47	mg/L	1		9060A	Total/NA
Alkalinity	141	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	141	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
pH	6.99	B	0.100	0.100	S.U.	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
9060A	Organic Carbon, Total (TOC)	SW846	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-249292-1	MW-1SR	Water	04/19/24 09:30	04/20/24 09:30
500-249292-2	MW-2S	Water	04/18/24 09:35	04/20/24 09:30
500-249292-3	MW-2M	Water	04/18/24 09:30	04/20/24 09:30
500-249292-4	MW-4S	Water	04/18/24 10:15	04/20/24 09:30
500-249292-5	MW-5S	Water	04/18/24 07:50	04/20/24 09:30
500-249292-6	MW-6S	Water	04/18/24 16:35	04/20/24 09:30
500-249292-7	MW-6M	Water	04/18/24 16:50	04/20/24 09:30
500-249292-8	MW-7M	Water	04/18/24 10:50	04/20/24 09:30
500-249292-9	MW-8S	Water	04/18/24 15:10	04/20/24 09:30
500-249292-10	MW-9M	Water	04/18/24 13:40	04/20/24 09:30
500-249292-11	MW-10M	Water	04/18/24 13:50	04/20/24 09:30
500-249292-12	MW-11M	Water	04/18/24 13:30	04/20/24 09:30
500-249292-13	MW-12S	Water	04/18/24 12:30	04/20/24 09:30
500-249292-14	MW-15M	Water	04/18/24 16:20	04/20/24 09:30
500-249292-15	MW-16S	Water	04/18/24 08:50	04/20/24 09:30
500-249292-16	MW-16M	Water	04/18/24 08:50	04/20/24 09:30
500-249292-17	MW-17S	Water	04/18/24 08:20	04/20/24 09:30
500-249292-18	MW-17M	Water	04/18/24 08:30	04/20/24 09:30
500-249292-19	PZ-1	Water	04/19/24 08:30	04/20/24 09:30
500-249292-20	PZ-2	Water	04/19/24 08:10	04/20/24 09:30
500-249292-21	PZ-5	Water	04/18/24 11:25	04/20/24 09:30
500-249292-22	PZ-6	Water	04/18/24 11:30	04/20/24 09:30
500-249292-23	PW-1	Water	04/17/24 15:15	04/20/24 09:30
500-249292-24	PW-2	Water	04/17/24 16:10	04/20/24 09:30
500-249292-25	PW-3	Water	04/17/24 17:00	04/20/24 09:30
500-249292-26	PW-4	Water	04/17/24 16:30	04/20/24 09:30
500-249292-27	PW-5	Water	04/17/24 17:20	04/20/24 09:30
500-249292-28	PW-6	Water	04/17/24 17:40	04/20/24 09:30
500-249292-29	DUP-1	Water	04/17/24 00:00	04/20/24 09:30
500-249292-30	DUP-2	Water	04/18/24 00:00	04/20/24 09:30
500-249292-31	DUP-3	Water	04/19/24 00:00	04/20/24 09:30

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-1SR

Date Collected: 04/19/24 09:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:07	1
Barium	**23.3**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:07	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:07	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:07	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:07	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:07	1
Manganese	**233**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:07	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:07	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 07:49	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**4.4**		1.0	0.47	mg/L			04/26/24 02:29	1
Alkalinity (SM 2320B)	**102**	**B**	5.0	3.7	mg/L			05/02/24 16:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**102**	**B**	5.0	3.7	mg/L			05/02/24 16:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 16:50	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 16:50	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 16:50	1
pH (SM 2320B)	**7.43**	**B**	0.100	0.100	S.U.			05/02/24 16:50	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-2S

Date Collected: 04/18/24 09:35
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-2

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.2**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:09	1
Barium	**86.2**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:09	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:09	1
Cobalt	**0.48**	**J**	1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:09	1
Iron	**25200**		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:09	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:09	1
Manganese	**704**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:09	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:09	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 07:52	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**5.1**		1.0	0.47	mg/L			04/26/24 02:56	1
Alkalinity (SM 2320B)	**154**		5.0	3.7	mg/L			04/30/24 17:51	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**154**		5.0	3.7	mg/L			04/30/24 17:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 17:51	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 17:51	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 17:51	1
pH (SM 2320B)	**7.00**	**B**	0.100	0.100	S.U.			04/30/24 17:51	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-2M

Date Collected: 04/18/24 09:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-3

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:11	1
Barium	**255**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:11	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:11	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:11	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:11	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:11	1
Manganese	**1.8**	**J**	2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:11	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:11	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**	**J B**	0.20	0.076	ug/L		05/01/24 10:35	05/02/24 07:54	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**3.8**	**F1**	1.0	0.47	mg/L			04/26/24 04:13	1
Alkalinity (SM 2320B)	**118**		5.0	3.7	mg/L			04/30/24 17:59	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**118**		5.0	3.7	mg/L			04/30/24 17:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 17:59	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 17:59	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 17:59	1
pH (SM 2320B)	**7.73**	**B**	0.100	0.100	S.U.			04/30/24 17:59	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-4S

Date Collected: 04/18/24 10:15
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-4

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 09:26	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 09:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 09:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 09:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 09:26	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 09:26	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 09:26	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 09:26	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 09:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 09:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 09:26	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 09:26	1
Chloroform	**0.79**	**J B**	2.0	0.37	ug/L			04/27/24 09:26	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 09:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 09:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 09:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 09:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 09:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 09:26	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 09:26	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 09:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 09:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 09:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 09:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 09:26	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 09:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 09:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 09:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 09:26	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 09:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 09:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 09:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 09:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 09:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 09:26	1
Isopropylbenzene	**8.4**		1.0	0.39	ug/L			04/27/24 09:26	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 09:26	1
4-Isopropyltoluene	**2.5**		1.0	0.36	ug/L			04/27/24 09:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 09:26	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 09:26	1
Naphthalene	**0.83**	**J ^c**	1.0	0.34	ug/L			04/27/24 09:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 09:26	1
N-Propylbenzene	**8.6**		1.0	0.41	ug/L			04/27/24 09:26	1
sec-Butylbenzene	**19**		1.0	0.40	ug/L			04/27/24 09:26	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 09:26	1
tert-Butylbenzene	**2.5**		1.0	0.40	ug/L			04/27/24 09:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 09:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 09:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 09:26	1

Client Sample ID: MW-4S

Date Collected: 04/18/24 10:15
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-4

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	**1.9**	**J B ^c**	10	1.9	ug/L			04/27/24 09:26	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 09:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 09:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 09:26	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 09:26	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 09:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 09:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 09:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 09:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 09:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 09:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 09:26	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 09:26	1
Xylenes, Total	**0.71**	**J**	1.0	0.22	ug/L			04/27/24 09:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*04/27/24 09:26*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 120*		*04/27/24 09:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*04/27/24 09:26*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*04/27/24 09:26*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**120**		10	3.6	ug/L			04/29/24 12:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*	*^c*	*72 - 124*		*04/29/24 12:39*	*10*
Dibromofluoromethane (Surr)	*116*	*^c*	*75 - 120*		*04/29/24 12:39*	*10*
1,2-Dichloroethane-d4 (Surr)	*119*	*^c*	*75 - 126*		*04/29/24 12:39*	*10*
Toluene-d8 (Surr)	*105*		*75 - 120*		*04/29/24 12:39*	*10*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.0**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:13	1
Barium	**266**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:13	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:13	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:13	1
Iron	**8840**		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:13	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:13	1
Manganese	**841**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:13	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:13	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 07:56	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**2.2**		1.0	0.47	mg/L			04/26/24 05:29	1
Alkalinity (SM 2320B)	**247**		5.0	3.7	mg/L			04/30/24 18:08	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-4S

Date Collected: 04/18/24 10:15
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-4

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**247**		5.0	3.7	mg/L			04/30/24 18:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 18:08	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 18:08	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 18:08	1
pH (SM 2320B)	**7.56**	**B**	0.100	0.100	S.U.			04/30/24 18:08	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-5S

Date Collected: 04/18/24 07:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-5

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<35	^c	200	35	ug/L			04/27/24 09:50	20
Benzene	<2.9		10	2.9	ug/L			04/27/24 09:50	20
Bromobenzene	<7.1		20	7.1	ug/L			04/27/24 09:50	20
Bromochloromethane	<8.6		20	8.6	ug/L			04/27/24 09:50	20
Bromodichloromethane	<7.4		20	7.4	ug/L			04/27/24 09:50	20
Bromoform	<9.7		20	9.7	ug/L			04/27/24 09:50	20
Bromomethane	<16		60	16	ug/L			04/27/24 09:50	20
2-Butanone (MEK)	<42	^c	100	42	ug/L			04/27/24 09:50	20
Carbon disulfide	<9.0		40	9.0	ug/L			04/27/24 09:50	20
Carbon tetrachloride	<7.7		20	7.7	ug/L			04/27/24 09:50	20
Chlorobenzene	<7.7		20	7.7	ug/L			04/27/24 09:50	20
Chloroethane	<10	^c	100	10	ug/L			04/27/24 09:50	20
Chloroform	**18**	**J B**	40	7.4	ug/L			04/27/24 09:50	20
Chloromethane	<6.4	^c	100	6.4	ug/L			04/27/24 09:50	20
2-Chlorotoluene	<6.3		20	6.3	ug/L			04/27/24 09:50	20
4-Chlorotoluene	<7.0		20	7.0	ug/L			04/27/24 09:50	20
cis-1,2-Dichloroethene	<8.2		20	8.2	ug/L			04/27/24 09:50	20
cis-1,3-Dichloropropene	<8.3		20	8.3	ug/L			04/27/24 09:50	20
Dibromochloromethane	<9.8		20	9.8	ug/L			04/27/24 09:50	20
1,2-Dibromo-3-Chloropropane	<40	^c	100	40	ug/L			04/27/24 09:50	20
1,2-Dibromoethane (EDB)	<7.7		20	7.7	ug/L			04/27/24 09:50	20
Dibromomethane	<5.4		20	5.4	ug/L			04/27/24 09:50	20
1,3-Dichlorobenzene	<8.0		20	8.0	ug/L			04/27/24 09:50	20
1,4-Dichlorobenzene	<7.3		20	7.3	ug/L			04/27/24 09:50	20
1,2-Dichlorobenzene	<6.7		20	6.7	ug/L			04/27/24 09:50	20
Dichlorodifluoromethane	<13	^c	60	13	ug/L			04/27/24 09:50	20
1,1-Dichloroethane	<8.2		20	8.2	ug/L			04/27/24 09:50	20
1,2-Dichloroethane	<7.8		20	7.8	ug/L			04/27/24 09:50	20
1,1-Dichloroethene	<7.8		20	7.8	ug/L			04/27/24 09:50	20
2,2-Dichloropropane	<8.9		100	8.9	ug/L			04/27/24 09:50	20
1,2-Dichloropropane	<8.6		20	8.6	ug/L			04/27/24 09:50	20
1,3-Dichloropropane	<7.2		20	7.2	ug/L			04/27/24 09:50	20
1,1-Dichloropropene	<5.9		20	5.9	ug/L			04/27/24 09:50	20
Ethylbenzene	<3.7		10	3.7	ug/L			04/27/24 09:50	20
Hexachlorobutadiene	<8.9		20	8.9	ug/L			04/27/24 09:50	20
Isopropylbenzene	**750**		20	7.7	ug/L			04/27/24 09:50	20
Isopropyl ether	<5.5	^c	20	5.5	ug/L			04/27/24 09:50	20
4-Isopropyltoluene	**52**		20	7.2	ug/L			04/27/24 09:50	20
Methylene Chloride	<33		100	33	ug/L			04/27/24 09:50	20
Methyl tert-butyl ether	<7.9	^c	20	7.9	ug/L			04/27/24 09:50	20
Naphthalene	**430**	**^c**	20	6.7	ug/L			04/27/24 09:50	20
n-Butylbenzene	<7.8		20	7.8	ug/L			04/27/24 09:50	20
N-Propylbenzene	**690**		20	8.3	ug/L			04/27/24 09:50	20
sec-Butylbenzene	**180**		20	8.0	ug/L			04/27/24 09:50	20
Styrene	<7.7		20	7.7	ug/L			04/27/24 09:50	20
tert-Butylbenzene	**250**		20	8.0	ug/L			04/27/24 09:50	20
1,1,1,2-Tetrachloroethane	<9.2		20	9.2	ug/L			04/27/24 09:50	20
1,1,2,2-Tetrachloroethane	<8.0		20	8.0	ug/L			04/27/24 09:50	20
Tetrachloroethene	<7.4		20	7.4	ug/L			04/27/24 09:50	20

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-5S

Date Collected: 04/18/24 07:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-5

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	**45**	**J B ^c**	200	38	ug/L			04/27/24 09:50	20
Toluene	**3.4**	**J**	10	3.0	ug/L			04/27/24 09:50	20
trans-1,2-Dichloroethene	<7.0		20	7.0	ug/L			04/27/24 09:50	20
trans-1,3-Dichloropropene	<7.2		20	7.2	ug/L			04/27/24 09:50	20
1,2,4-Trichlorobenzene	<6.8	^c	20	6.8	ug/L			04/27/24 09:50	20
1,2,3-Trichlorobenzene	<9.2	^c	20	9.2	ug/L			04/27/24 09:50	20
1,1,1-Trichloroethane	<7.6		20	7.6	ug/L			04/27/24 09:50	20
1,1,2-Trichloroethane	<7.0		20	7.0	ug/L			04/27/24 09:50	20
Trichloroethene	<3.3		10	3.3	ug/L			04/27/24 09:50	20
Trichlorofluoromethane	<8.5		20	8.5	ug/L			04/27/24 09:50	20
1,2,3-Trichloropropane	<8.3		40	8.3	ug/L			04/27/24 09:50	20
1,3,5-Trimethylbenzene	<5.1		20	5.1	ug/L			04/27/24 09:50	20
Vinyl chloride	<4.1	^c	20	4.1	ug/L			04/27/24 09:50	20
Xylenes, Total	**6.7**	**J**	20	4.4	ug/L			04/27/24 09:50	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*04/27/24 09:50*	*20*
Dibromofluoromethane (Surr)	*107*		*75 - 120*		*04/27/24 09:50*	*20*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*04/27/24 09:50*	*20*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/27/24 09:50*	*20*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**820**		20	7.2	ug/L			04/27/24 10:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*04/27/24 10:14*	*20*
Dibromofluoromethane (Surr)	*105*		*75 - 120*		*04/27/24 10:14*	*20*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*04/27/24 10:14*	*20*
Toluene-d8 (Surr)	*103*		*75 - 120*		*04/27/24 10:14*	*20*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.8**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:19	1
Barium	**218**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:19	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:19	1
Cobalt	**1.4**		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:19	1
Iron	**17500**		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:19	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:19	1
Manganese	**982**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:19	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:19	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 07:58	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**7.6**		1.0	0.47	mg/L			04/26/24 05:56	1
Alkalinity (SM 2320B)	**252**		5.0	3.7	mg/L			04/30/24 18:17	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-5S

Date Collected: 04/18/24 07:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-5

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**252**		5.0	3.7	mg/L			04/30/24 18:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 18:17	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 18:17	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 18:17	1
pH (SM 2320B)	**7.36**	**B**	0.100	0.100	S.U.			04/30/24 18:17	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-6S

Date Collected: 04/18/24 16:35
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-6

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 10:38	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 10:38	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 10:38	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 10:38	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 10:38	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 10:38	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 10:38	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 10:38	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 10:38	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 10:38	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 10:38	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 10:38	1
Chloroform	**0.80**	**J B**	2.0	0.37	ug/L			04/27/24 10:38	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 10:38	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 10:38	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 10:38	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 10:38	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 10:38	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 10:38	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 10:38	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 10:38	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 10:38	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 10:38	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 10:38	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 10:38	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 10:38	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 10:38	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 10:38	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 10:38	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 10:38	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 10:38	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 10:38	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 10:38	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 10:38	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 10:38	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 10:38	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 10:38	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 10:38	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 10:38	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 10:38	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 10:38	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 10:38	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 10:38	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 10:38	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 10:38	1
tert-Butylbenzene	**4.9**		1.0	0.40	ug/L			04/27/24 10:38	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 10:38	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 10:38	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 10:38	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-6S

Date Collected: 04/18/24 16:35
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-6

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			04/27/24 10:38	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 10:38	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 10:38	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 10:38	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 10:38	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 10:38	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 10:38	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 10:38	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 10:38	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 10:38	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 10:38	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 10:38	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 10:38	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 10:38	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*04/27/24 10:38*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 120*		*04/27/24 10:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*04/27/24 10:38*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*04/27/24 10:38*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.71**	**J**	1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:22	1
Barium	**210**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:22	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:22	1
Cobalt	**1.1**		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:22	1
Iron	**60.2**	**J**	100	46.7	ug/L		05/03/24 09:29	05/03/24 18:22	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:22	1
Manganese	**2980**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:22	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:22	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:00	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**4.0**		1.0	0.47	mg/L			04/26/24 06:18	1
Alkalinity (SM 2320B)	**227**		5.0	3.7	mg/L			04/30/24 18:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**227**		5.0	3.7	mg/L			04/30/24 18:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 18:27	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 18:27	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			04/30/24 18:27	1
pH (SM 2320B)	**7.62**	**B**	0.100	0.100	S.U.			04/30/24 18:27	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-6M

Date Collected: 04/18/24 16:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-7

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 11:03	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 11:03	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 11:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 11:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 11:03	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 11:03	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 11:03	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 11:03	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 11:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 11:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 11:03	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 11:03	1
Chloroform	**0.79**	**J B**	2.0	0.37	ug/L			04/27/24 11:03	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 11:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 11:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 11:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 11:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 11:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 11:03	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 11:03	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 11:03	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 11:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 11:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 11:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 11:03	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 11:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 11:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 11:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 11:03	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 11:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 11:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 11:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 11:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 11:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 11:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 11:03	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 11:03	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 11:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 11:03	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 11:03	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 11:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 11:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 11:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 11:03	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 11:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 11:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 11:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 11:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 11:03	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-6M

Date Collected: 04/18/24 16:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-7

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			04/27/24 11:03	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 11:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 11:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 11:03	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 11:03	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 11:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 11:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 11:03	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 11:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 11:03	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 11:03	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 11:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 11:03	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 11:03	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*04/27/24 11:03*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 120*		*04/27/24 11:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*04/27/24 11:03*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/27/24 11:03*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.89**	**J**	1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:24	1
Barium	**521**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:24	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:24	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:24	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:24	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:24	1
Manganese	**5.9**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:24	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:24	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:02	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**3.7**		1.0	0.47	mg/L			05/01/24 17:48	1
Alkalinity (SM 2320B)	**107**	**B**	5.0	3.7	mg/L			05/02/24 16:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**107**	**B**	5.0	3.7	mg/L			05/02/24 16:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 16:58	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 16:58	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 16:58	1
pH (SM 2320B)	**7.55**	**B**	0.100	0.100	S.U.			05/02/24 16:58	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-7M

Date Collected: 04/18/24 10:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-8

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.7**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:26	1
Barium	**180**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:26	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:26	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:26	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:26	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:26	1
Manganese	<0.79		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:26	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:26	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:08	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**1.2**		1.0	0.47	mg/L			05/01/24 18:15	1
Alkalinity (SM 2320B)	**195**	**B**	5.0	3.7	mg/L			05/02/24 17:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**195**	**B**	5.0	3.7	mg/L			05/02/24 17:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:07	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:07	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:07	1
pH (SM 2320B)	**7.85**	**B**	0.100	0.100	S.U.			05/02/24 17:07	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-8S

Date Collected: 04/18/24 15:10
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-9

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 11:27	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 11:27	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 11:27	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 11:27	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 11:27	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 11:27	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 11:27	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 11:27	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 11:27	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 11:27	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 11:27	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 11:27	1
Chloroform	**0.73**	**J B**	2.0	0.37	ug/L			04/27/24 11:27	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 11:27	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 11:27	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 11:27	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 11:27	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 11:27	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 11:27	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 11:27	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 11:27	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 11:27	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 11:27	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 11:27	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 11:27	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 11:27	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 11:27	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 11:27	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 11:27	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 11:27	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 11:27	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 11:27	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 11:27	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 11:27	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 11:27	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 11:27	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 11:27	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 11:27	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 11:27	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 11:27	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 11:27	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 11:27	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 11:27	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 11:27	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 11:27	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 11:27	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 11:27	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 11:27	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 11:27	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-8S

Date Collected: 04/18/24 15:10
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-9

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			04/27/24 11:27	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 11:27	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 11:27	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 11:27	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 11:27	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 11:27	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 11:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 11:27	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 11:27	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 11:27	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 11:27	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 11:27	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 11:27	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 11:27	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*04/27/24 11:27*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 120*		*04/27/24 11:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*04/27/24 11:27*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/27/24 11:27*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.56**	**J**	1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:28	1
Barium	**128**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:28	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:28	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:28	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:28	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:28	1
Manganese	**1120**	**F1 F2**	2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:28	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:28	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:11	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**1.6**		1.0	0.47	mg/L			05/01/24 18:42	1
Alkalinity (SM 2320B)	**231**	**B**	5.0	3.7	mg/L			05/02/24 17:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**231**	**B**	5.0	3.7	mg/L			05/02/24 17:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:16	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:16	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:16	1
pH (SM 2320B)	**7.70**	**B**	0.100	0.100	S.U.			05/02/24 17:16	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-9M

Date Collected: 04/18/24 13:40
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-10

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.4**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:38	1
Barium	**117**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:38	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:38	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:38	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:38	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:38	1
Manganese	**1.2**	**J**	2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:38	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:38	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:19	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**2.5**		1.0	0.47	mg/L			05/01/24 20:43	1
Alkalinity (SM 2320B)	**189**	**B**	5.0	3.7	mg/L			05/02/24 17:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**189**	**B**	5.0	3.7	mg/L			05/02/24 17:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:35	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:35	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:35	1
pH (SM 2320B)	**7.90**	**B**	0.100	0.100	S.U.			05/02/24 17:35	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-10M

Date Collected: 04/18/24 13:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-11

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.59**	**J**	1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:45	1
Barium	**8.1**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:45	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:45	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:45	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:45	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:45	1
Manganese	<0.79		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:45	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:45	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:21	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**2.1**		1.0	0.47	mg/L			05/01/24 21:06	1
Alkalinity (SM 2320B)	**149**	**B**	5.0	3.7	mg/L			05/02/24 17:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**149**	**B**	5.0	3.7	mg/L			05/02/24 17:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:44	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:44	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:44	1
pH (SM 2320B)	**7.83**	**B**	0.100	0.100	S.U.			05/02/24 17:44	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-11M

Date Collected: 04/18/24 13:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-12

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.60**	**J**	1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:47	1
Barium	**133**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:47	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:47	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:47	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:47	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:47	1
Manganese	<0.79		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:47	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:47	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:23	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**2.0**		1.0	0.47	mg/L			05/01/24 21:32	1
Alkalinity (SM 2320B)	**179**	**B**	5.0	3.7	mg/L			05/02/24 17:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**179**	**B**	5.0	3.7	mg/L			05/02/24 17:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:52	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:52	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 17:52	1
pH (SM 2320B)	**7.80**	**B**	0.100	0.100	S.U.			05/02/24 17:52	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-12S

Date Collected: 04/18/24 12:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-13

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 11:51	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 11:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 11:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 11:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 11:51	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 11:51	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 11:51	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 11:51	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 11:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 11:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 11:51	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 11:51	1
Chloroform	**0.77**	**J B**	2.0	0.37	ug/L			04/27/24 11:51	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 11:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 11:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 11:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 11:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 11:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 11:51	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 11:51	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 11:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 11:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 11:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 11:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 11:51	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 11:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 11:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 11:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 11:51	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 11:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 11:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 11:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 11:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 11:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 11:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 11:51	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 11:51	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 11:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 11:51	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 11:51	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 11:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 11:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 11:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 11:51	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 11:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 11:51	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 11:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 11:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 11:51	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-12S

Date Collected: 04/18/24 12:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-13

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			04/27/24 11:51	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 11:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 11:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 11:51	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 11:51	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 11:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 11:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 11:51	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 11:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 11:51	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 11:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 11:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 11:51	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 11:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*04/27/24 11:51*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 120*		*04/27/24 11:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*04/27/24 11:51*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*04/27/24 11:51*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.28**	**J**	1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:49	1
Barium	**20.0**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:49	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:49	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:49	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:49	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:49	1
Manganese	<0.79		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:49	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:49	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:25	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**0.82**	**J**	1.0	0.47	mg/L			05/01/24 21:59	1
Alkalinity (SM 2320B)	**218**	**B**	5.0	3.7	mg/L			05/02/24 18:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**218**	**B**	5.0	3.7	mg/L			05/02/24 18:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:04	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:04	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:04	1
pH (SM 2320B)	**7.73**	**B**	0.100	0.100	S.U.			05/02/24 18:04	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-15M

Date Collected: 04/18/24 16:20
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-14

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:51	1
Barium	**528**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:51	1
Cadmium	**0.33**	**J**	0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:51	1
Cobalt	**0.68**	**J**	1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:51	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:51	1
Lead	**5.8**		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:51	1
Manganese	**1920**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:51	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:51	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:28	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**2.5**		1.0	0.47	mg/L			05/01/24 22:26	1
Alkalinity (SM 2320B)	**137**	**B**	5.0	3.7	mg/L			05/02/24 18:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**137**	**B**	5.0	3.7	mg/L			05/02/24 18:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:13	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:13	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:13	1
pH (SM 2320B)	**7.18**	**B**	0.100	0.100	S.U.			05/02/24 18:13	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-16S

Date Collected: 04/18/24 08:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-15

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			04/29/24 13:02	1
Benzene	<0.15		0.50	0.15	ug/L			04/29/24 13:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/29/24 13:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/29/24 13:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/29/24 13:02	1
Bromoform	<0.48		1.0	0.48	ug/L			04/29/24 13:02	1
Bromomethane	<0.80	^c	3.0	0.80	ug/L			04/29/24 13:02	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			04/29/24 13:02	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/29/24 13:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/29/24 13:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/29/24 13:02	1
Chloroethane	<0.51	^c *	5.0	0.51	ug/L			04/29/24 13:02	1
Chloroform	<0.37		2.0	0.37	ug/L			04/29/24 13:02	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/29/24 13:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/29/24 13:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/29/24 13:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/29/24 13:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/29/24 13:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/29/24 13:02	1
1,2-Dibromo-3-Chloropropane	<2.0	^c *	5.0	2.0	ug/L			04/29/24 13:02	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/29/24 13:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/29/24 13:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/29/24 13:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/29/24 13:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/29/24 13:02	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/29/24 13:02	1
1,1-Dichloroethane	<0.41	^c	1.0	0.41	ug/L			04/29/24 13:02	1
1,2-Dichloroethane	<0.39	^c *	1.0	0.39	ug/L			04/29/24 13:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/29/24 13:02	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/29/24 13:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/29/24 13:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/29/24 13:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/29/24 13:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/29/24 13:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/29/24 13:02	1
Isopropylbenzene	**10**		1.0	0.39	ug/L			04/29/24 13:02	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/29/24 13:02	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/29/24 13:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/29/24 13:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/29/24 13:02	1
Naphthalene	**7.4**	**^c**	1.0	0.34	ug/L			04/29/24 13:02	1
n-Butylbenzene	**1.8**		1.0	0.39	ug/L			04/29/24 13:02	1
N-Propylbenzene	**16**		1.0	0.41	ug/L			04/29/24 13:02	1
sec-Butylbenzene	**12**		1.0	0.40	ug/L			04/29/24 13:02	1
Styrene	<0.39		1.0	0.39	ug/L			04/29/24 13:02	1
tert-Butylbenzene	**7.4**		1.0	0.40	ug/L			04/29/24 13:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/29/24 13:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/29/24 13:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/29/24 13:02	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-16S

Date Collected: 04/18/24 08:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-15

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			04/29/24 13:02	1
Toluene	<0.15		0.50	0.15	ug/L			04/29/24 13:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/29/24 13:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/29/24 13:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/29/24 13:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/29/24 13:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/29/24 13:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/29/24 13:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/29/24 13:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/29/24 13:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/29/24 13:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/29/24 13:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/29/24 13:02	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/29/24 13:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/29/24 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*	*^c*	*72 - 124*		*04/29/24 13:02*	*1*
Dibromofluoromethane (Surr)	*118*	*^c*	*75 - 120*		*04/29/24 13:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*	*^c*	*75 - 126*		*04/29/24 13:02*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/29/24 13:02*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.8**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:53	1
Barium	**233**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:53	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:53	1
Cobalt	**0.71**	**J**	1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:53	1
Iron	**15100**		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:53	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:53	1
Manganese	**3190**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:53	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:53	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**4.4**		1.0	0.47	mg/L			05/01/24 22:49	1
Alkalinity (SM 2320B)	**396**	**B**	5.0	3.7	mg/L			05/02/24 18:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**396**	**B**	5.0	3.7	mg/L			05/02/24 18:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:21	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:21	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:21	1
pH (SM 2320B)	**7.16**	**B**	0.100	0.100	S.U.			05/02/24 18:21	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-16M

Date Collected: 04/18/24 08:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-16

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 12:39	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 12:39	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 12:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 12:39	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 12:39	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 12:39	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 12:39	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 12:39	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 12:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 12:39	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 12:39	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 12:39	1
Chloroform	**0.77**	**J B**	2.0	0.37	ug/L			04/27/24 12:39	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 12:39	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 12:39	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 12:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 12:39	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 12:39	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 12:39	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 12:39	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 12:39	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 12:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 12:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 12:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 12:39	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 12:39	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 12:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 12:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 12:39	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 12:39	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 12:39	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 12:39	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 12:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 12:39	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 12:39	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 12:39	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 12:39	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 12:39	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 12:39	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 12:39	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 12:39	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 12:39	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 12:39	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 12:39	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 12:39	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 12:39	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 12:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 12:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 12:39	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-16M

Date Collected: 04/18/24 08:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-16

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			04/27/24 12:39	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 12:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 12:39	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 12:39	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 12:39	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 12:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 12:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 12:39	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 12:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 12:39	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 12:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 12:39	1
1,2,4-Trimethylbenzene	**0.43**	**J**	1.0	0.36	ug/L			04/27/24 12:39	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 12:39	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*04/27/24 12:39*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 120*		*04/27/24 12:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*04/27/24 12:39*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*04/27/24 12:39*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.4**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:55	1
Barium	**644**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:55	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:55	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:55	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:55	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:55	1
Manganese	**158**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:55	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:55	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:40	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**3.3**		1.0	0.47	mg/L			05/01/24 23:11	1
Alkalinity (SM 2320B)	**179**	**B**	5.0	3.7	mg/L			05/02/24 18:31	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**179**	**B**	5.0	3.7	mg/L			05/02/24 18:31	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:31	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:31	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:31	1
pH (SM 2320B)	**7.62**	**B**	0.100	0.100	S.U.			05/02/24 18:31	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-17S

Date Collected: 04/18/24 08:20
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-17

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 13:04	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 13:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 13:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 13:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 13:04	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 13:04	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 13:04	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 13:04	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 13:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 13:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 13:04	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 13:04	1
Chloroform	**0.68**	**J B**	2.0	0.37	ug/L			04/27/24 13:04	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 13:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 13:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 13:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 13:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 13:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 13:04	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 13:04	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 13:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 13:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 13:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 13:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 13:04	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 13:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 13:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 13:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 13:04	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 13:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 13:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 13:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 13:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 13:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 13:04	1
Isopropylbenzene	**12**		1.0	0.39	ug/L			04/27/24 13:04	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 13:04	1
4-Isopropyltoluene	**5.5**		1.0	0.36	ug/L			04/27/24 13:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 13:04	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 13:04	1
Naphthalene	**1.1**	**^c**	1.0	0.34	ug/L			04/27/24 13:04	1
n-Butylbenzene	**5.7**		1.0	0.39	ug/L			04/27/24 13:04	1
N-Propylbenzene	**14**		1.0	0.41	ug/L			04/27/24 13:04	1
sec-Butylbenzene	**24**		1.0	0.40	ug/L			04/27/24 13:04	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 13:04	1
tert-Butylbenzene	**14**		1.0	0.40	ug/L			04/27/24 13:04	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 13:04	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 13:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 13:04	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-17S

Date Collected: 04/18/24 08:20
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-17

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			04/27/24 13:04	1
Toluene	**0.15**	**J**	0.50	0.15	ug/L			04/27/24 13:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 13:04	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 13:04	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 13:04	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 13:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 13:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 13:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 13:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 13:04	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 13:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 13:04	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 13:04	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*04/27/24 13:04*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 120*		*04/27/24 13:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*04/27/24 13:04*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/27/24 13:04*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**180**		10	3.6	ug/L			04/29/24 13:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*	*^c*	*72 - 124*		*04/29/24 13:26*	*10*
Dibromofluoromethane (Surr)	*120*	*^c*	*75 - 120*		*04/29/24 13:26*	*10*
1,2-Dichloroethane-d4 (Surr)	*123*	*^c*	*75 - 126*		*04/29/24 13:26*	*10*
Toluene-d8 (Surr)	*105*		*75 - 120*		*04/29/24 13:26*	*10*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.5**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:57	1
Barium	**199**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:57	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:57	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:57	1
Iron	**8400**		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:57	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:57	1
Manganese	**863**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:57	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:57	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:42	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**1.7**		1.0	0.47	mg/L			05/01/24 23:38	1
Alkalinity (SM 2320B)	**196**	**B**	5.0	3.7	mg/L			05/02/24 18:40	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-17S

Date Collected: 04/18/24 08:20
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-17

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**196**	**B**	5.0	3.7	mg/L			05/02/24 18:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:40	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:40	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:40	1
pH (SM 2320B)	**7.47**	**B**	0.100	0.100	S.U.			05/02/24 18:40	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-17M

Date Collected: 04/18/24 08:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-18

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.6**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:59	1
Barium	**421**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:59	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:59	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:59	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:59	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:59	1
Manganese	**16.2**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:59	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:59	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**3.7**		1.0	0.47	mg/L			05/02/24 00:00	1
Alkalinity (SM 2320B)	**167**	**B**	5.0	3.7	mg/L			05/02/24 18:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**167**	**B**	5.0	3.7	mg/L			05/02/24 18:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:50	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:50	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:50	1
pH (SM 2320B)	**7.79**	**B**	0.100	0.100	S.U.			05/02/24 18:50	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PZ-1

Date Collected: 04/19/24 08:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-19

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.43**	**J**	1.0	0.23	ug/L		05/03/24 09:29	05/03/24 19:01	1
Barium	**23.9**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 19:01	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 19:01	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 19:01	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 19:01	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 19:01	1
Manganese	**150**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 19:01	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 19:01	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:46	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**2.7**		1.0	0.47	mg/L			05/02/24 00:27	1
Alkalinity (SM 2320B)	**140**	**B**	5.0	3.7	mg/L			05/02/24 18:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**140**	**B**	5.0	3.7	mg/L			05/02/24 18:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:58	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:58	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 18:58	1
pH (SM 2320B)	**7.78**	**B**	0.100	0.100	S.U.			05/02/24 18:58	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PZ-2

Date Collected: 04/19/24 08:10
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-20

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 19:03	1
Barium	**56.4**		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 19:03	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 19:03	1
Cobalt	**4.6**		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 19:03	1
Iron	**10300**		100	46.7	ug/L		05/03/24 09:29	05/03/24 19:03	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 19:03	1
Manganese	**2020**		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 19:03	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 19:03	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:48	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**11.1**		1.0	0.47	mg/L			05/02/24 02:52	1
Alkalinity (SM 2320B)	**141**	**B**	5.0	3.7	mg/L			05/02/24 19:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**141**	**B**	5.0	3.7	mg/L			05/02/24 19:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:07	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:07	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:07	1
pH (SM 2320B)	**6.94**	**B**	0.100	0.100	S.U.			05/02/24 19:07	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PZ-5

Date Collected: 04/18/24 11:25
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-21

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			04/29/24 13:49	1
Benzene	<0.15		0.50	0.15	ug/L			04/29/24 13:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/29/24 13:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/29/24 13:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/29/24 13:49	1
Bromoform	<0.48		1.0	0.48	ug/L			04/29/24 13:49	1
Bromomethane	<0.80	^c	3.0	0.80	ug/L			04/29/24 13:49	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			04/29/24 13:49	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/29/24 13:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/29/24 13:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/29/24 13:49	1
Chloroethane	<0.51	^c *	5.0	0.51	ug/L			04/29/24 13:49	1
Chloroform	<0.37		2.0	0.37	ug/L			04/29/24 13:49	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/29/24 13:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/29/24 13:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/29/24 13:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/29/24 13:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/29/24 13:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/29/24 13:49	1
1,2-Dibromo-3-Chloropropane	<2.0	^c *	5.0	2.0	ug/L			04/29/24 13:49	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/29/24 13:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/29/24 13:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/29/24 13:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/29/24 13:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/29/24 13:49	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/29/24 13:49	1
1,1-Dichloroethane	<0.41	^c	1.0	0.41	ug/L			04/29/24 13:49	1
1,2-Dichloroethane	<0.39	^c *	1.0	0.39	ug/L			04/29/24 13:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/29/24 13:49	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/29/24 13:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/29/24 13:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/29/24 13:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/29/24 13:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/29/24 13:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/29/24 13:49	1
Isopropylbenzene	**1.0**		1.0	0.39	ug/L			04/29/24 13:49	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/29/24 13:49	1
4-Isopropyltoluene	**1.2**		1.0	0.36	ug/L			04/29/24 13:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/29/24 13:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/29/24 13:49	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/29/24 13:49	1
n-Butylbenzene	**1.3**		1.0	0.39	ug/L			04/29/24 13:49	1
N-Propylbenzene	**1.7**		1.0	0.41	ug/L			04/29/24 13:49	1
sec-Butylbenzene	**6.4**		1.0	0.40	ug/L			04/29/24 13:49	1
Styrene	<0.39		1.0	0.39	ug/L			04/29/24 13:49	1
tert-Butylbenzene	**1.6**		1.0	0.40	ug/L			04/29/24 13:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/29/24 13:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/29/24 13:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/29/24 13:49	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PZ-5

Date Collected: 04/18/24 11:25
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-21

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			04/29/24 13:49	1
Toluene	<0.15		0.50	0.15	ug/L			04/29/24 13:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/29/24 13:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/29/24 13:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/29/24 13:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/29/24 13:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/29/24 13:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/29/24 13:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/29/24 13:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/29/24 13:49	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/29/24 13:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/29/24 13:49	1
1,2,4-Trimethylbenzene	**90**		1.0	0.36	ug/L			04/29/24 13:49	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/29/24 13:49	1
Xylenes, Total	**0.30**	**J**	1.0	0.22	ug/L			04/29/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*	*^c*	*72 - 124*		*04/29/24 13:49*	*1*
Dibromofluoromethane (Surr)	*117*	*^c*	*75 - 120*		*04/29/24 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*	*^c*	*75 - 126*		*04/29/24 13:49*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/29/24 13:49*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.4**		1.0	0.23	ug/L		05/03/24 09:40	05/03/24 19:58	1
Barium	**150**		2.5	0.73	ug/L		05/03/24 09:40	05/03/24 19:58	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:40	05/03/24 19:58	1
Cobalt	**1.1**		1.0	0.40	ug/L		05/03/24 09:40	05/03/24 19:58	1
Iron	**5220**		100	46.7	ug/L		05/03/24 09:40	05/03/24 19:58	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:40	05/03/24 19:58	1
Manganese	**887**		2.5	0.79	ug/L		05/03/24 09:40	05/03/24 19:58	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:40	05/03/24 19:58	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:54	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**1.3**		1.0	0.47	mg/L			05/02/24 03:15	1
Alkalinity (SM 2320B)	**209**	**B**	5.0	3.7	mg/L			05/02/24 19:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**209**	**B**	5.0	3.7	mg/L			05/02/24 19:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:16	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:16	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:16	1
pH (SM 2320B)	**7.59**	**B**	0.100	0.100	S.U.			05/02/24 19:16	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PZ-6

Date Collected: 04/18/24 11:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-22

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 13:52	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 13:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 13:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 13:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 13:52	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 13:52	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 13:52	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 13:52	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 13:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 13:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 13:52	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 13:52	1
Chloroform	**0.69**	**J B**	2.0	0.37	ug/L			04/27/24 13:52	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 13:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 13:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 13:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 13:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 13:52	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 13:52	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 13:52	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 13:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 13:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 13:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 13:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 13:52	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 13:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 13:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 13:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 13:52	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 13:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 13:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 13:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 13:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 13:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 13:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 13:52	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 13:52	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 13:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 13:52	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 13:52	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 13:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 13:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 13:52	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 13:52	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 13:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 13:52	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 13:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 13:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 13:52	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PZ-6

Date Collected: 04/18/24 11:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-22

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	**2.1**	**J B ^c**	10	1.9	ug/L			04/27/24 13:52	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 13:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 13:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 13:52	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 13:52	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 13:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 13:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 13:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 13:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 13:52	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 13:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 13:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 13:52	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 13:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*04/27/24 13:52*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 120*		*04/27/24 13:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*04/27/24 13:52*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/27/24 13:52*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.33**	**J**	1.0	0.23	ug/L		05/03/24 09:40	05/03/24 20:00	1
Barium	**24.4**		2.5	0.73	ug/L		05/03/24 09:40	05/03/24 20:00	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:40	05/03/24 20:00	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:40	05/03/24 20:00	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:40	05/03/24 20:00	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:40	05/03/24 20:00	1
Manganese	<0.79		2.5	0.79	ug/L		05/03/24 09:40	05/03/24 20:00	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:40	05/03/24 20:00	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:57	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**0.98**	**J**	1.0	0.47	mg/L			05/02/24 03:42	1
Alkalinity (SM 2320B)	**207**	**B**	5.0	3.7	mg/L			05/02/24 19:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**207**	**B**	5.0	3.7	mg/L			05/02/24 19:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:25	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:25	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:25	1
pH (SM 2320B)	**7.78**	**B**	0.100	0.100	S.U.			05/02/24 19:25	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-1

Date Collected: 04/17/24 15:15
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-23

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 14:17	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 14:17	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 14:17	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 14:17	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 14:17	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 14:17	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 14:17	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 14:17	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 14:17	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 14:17	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 14:17	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 14:17	1
Chloroform	**0.80**	**J B**	2.0	0.37	ug/L			04/27/24 14:17	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 14:17	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 14:17	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 14:17	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 14:17	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 14:17	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 14:17	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 14:17	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 14:17	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 14:17	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 14:17	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 14:17	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 14:17	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 14:17	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 14:17	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 14:17	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 14:17	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 14:17	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 14:17	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 14:17	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 14:17	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 14:17	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 14:17	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 14:17	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 14:17	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 14:17	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 14:17	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 14:17	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 14:17	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 14:17	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 14:17	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 14:17	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 14:17	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 14:17	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 14:17	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 14:17	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 14:17	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-1

Date Collected: 04/17/24 15:15
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-23

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	**1.9**	**J B ^c**	10	1.9	ug/L			04/27/24 14:17	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 14:17	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 14:17	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 14:17	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 14:17	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 14:17	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 14:17	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 14:17	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 14:17	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 14:17	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 14:17	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 14:17	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 14:17	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 14:17	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*04/27/24 14:17*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/27/24 14:17*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*04/27/24 14:17*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 120*		*04/27/24 14:17*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		05/02/24 17:18	05/03/24 17:15	1
Barium	**1.0**	**J**	2.5	0.73	ug/L		05/02/24 17:18	05/03/24 17:15	1
Cadmium	<0.17		0.50	0.17	ug/L		05/02/24 17:18	05/03/24 17:15	1
Cobalt	<0.40		1.0	0.40	ug/L		05/02/24 17:18	05/03/24 17:15	1
Iron	**1370**		100	46.7	ug/L		05/02/24 17:18	05/03/24 17:15	1
Lead	**0.40**	**J**	0.50	0.19	ug/L		05/02/24 17:18	05/03/24 17:15	1
Manganese	**0.96**	**J**	2.5	0.79	ug/L		05/02/24 17:18	05/03/24 17:15	1
Vanadium	<2.2		5.0	2.2	ug/L		05/02/24 17:18	05/03/24 17:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/02/24 11:20	05/03/24 08:42	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-2

Date Collected: 04/17/24 16:10
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-24

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 14:41	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 14:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 14:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 14:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 14:41	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 14:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 14:41	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 14:41	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 14:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 14:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 14:41	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 14:41	1
Chloroform	**0.69**	**J B**	2.0	0.37	ug/L			04/27/24 14:41	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 14:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 14:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 14:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 14:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 14:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 14:41	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 14:41	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 14:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 14:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 14:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 14:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 14:41	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 14:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 14:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 14:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 14:41	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 14:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 14:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 14:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 14:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 14:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 14:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 14:41	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 14:41	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 14:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 14:41	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 14:41	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 14:41	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 14:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 14:41	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 14:41	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 14:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 14:41	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 14:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 14:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 14:41	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-2

Date Collected: 04/17/24 16:10
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-24

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	**2.7**	**J B ^c**	10	1.9	ug/L			04/27/24 14:41	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 14:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 14:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 14:41	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 14:41	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 14:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 14:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 14:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 14:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 14:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 14:41	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 14:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 14:41	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 14:41	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*		*04/27/24 14:41*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/27/24 14:41*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*04/27/24 14:41*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 120*		*04/27/24 14:41*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.43**	**J**	1.0	0.23	ug/L		05/02/24 17:18	05/03/24 17:17	1
Barium	**120**		2.5	0.73	ug/L		05/02/24 17:18	05/03/24 17:17	1
Cadmium	<0.17		0.50	0.17	ug/L		05/02/24 17:18	05/03/24 17:17	1
Cobalt	<0.40		1.0	0.40	ug/L		05/02/24 17:18	05/03/24 17:17	1
Iron	**87.6**	**J**	100	46.7	ug/L		05/02/24 17:18	05/03/24 17:17	1
Lead	**1.1**		0.50	0.19	ug/L		05/02/24 17:18	05/03/24 17:17	1
Manganese	**155**		2.5	0.79	ug/L		05/02/24 17:18	05/03/24 17:17	1
Vanadium	<2.2		5.0	2.2	ug/L		05/02/24 17:18	05/03/24 17:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/02/24 11:20	05/03/24 08:44	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-3

Date Collected: 04/17/24 17:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-25

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 15:05	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 15:05	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 15:05	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 15:05	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 15:05	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 15:05	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 15:05	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 15:05	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 15:05	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 15:05	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 15:05	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 15:05	1
Chloroform	**0.62**	**J B**	2.0	0.37	ug/L			04/27/24 15:05	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 15:05	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 15:05	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 15:05	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 15:05	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 15:05	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 15:05	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 15:05	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 15:05	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 15:05	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 15:05	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 15:05	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 15:05	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 15:05	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 15:05	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 15:05	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 15:05	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 15:05	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 15:05	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 15:05	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 15:05	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 15:05	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 15:05	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 15:05	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 15:05	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 15:05	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 15:05	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 15:05	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 15:05	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 15:05	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 15:05	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 15:05	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 15:05	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 15:05	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 15:05	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 15:05	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 15:05	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-3

Date Collected: 04/17/24 17:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-25

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	**2.6**	**J B ^c**	10	1.9	ug/L			04/27/24 15:05	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 15:05	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 15:05	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 15:05	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 15:05	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 15:05	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 15:05	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 15:05	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 15:05	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 15:05	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 15:05	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 15:05	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 15:05	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 15:05	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*		*04/27/24 15:05*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*04/27/24 15:05*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*04/27/24 15:05*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 120*		*04/27/24 15:05*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		05/02/24 17:18	05/03/24 17:19	1
Barium	**27.5**		2.5	0.73	ug/L		05/02/24 17:18	05/03/24 17:19	1
Cadmium	<0.17		0.50	0.17	ug/L		05/02/24 17:18	05/03/24 17:19	1
Cobalt	<0.40		1.0	0.40	ug/L		05/02/24 17:18	05/03/24 17:19	1
Iron	**5120**		100	46.7	ug/L		05/02/24 17:18	05/03/24 17:19	1
Lead	**1.8**		0.50	0.19	ug/L		05/02/24 17:18	05/03/24 17:19	1
Manganese	**122**		2.5	0.79	ug/L		05/02/24 17:18	05/03/24 17:19	1
Vanadium	<2.2		5.0	2.2	ug/L		05/02/24 17:18	05/03/24 17:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/02/24 11:20	05/03/24 08:46	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-4

Date Collected: 04/17/24 16:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-26

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 15:29	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 15:29	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 15:29	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 15:29	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 15:29	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 15:29	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 15:29	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 15:29	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 15:29	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 15:29	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 15:29	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 15:29	1
Chloroform	**0.75**	**J B**	2.0	0.37	ug/L			04/27/24 15:29	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 15:29	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 15:29	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 15:29	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 15:29	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 15:29	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 15:29	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 15:29	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 15:29	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 15:29	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 15:29	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 15:29	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 15:29	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 15:29	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 15:29	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 15:29	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 15:29	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 15:29	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 15:29	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 15:29	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 15:29	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 15:29	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 15:29	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 15:29	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 15:29	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 15:29	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 15:29	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 15:29	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 15:29	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 15:29	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 15:29	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 15:29	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 15:29	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 15:29	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 15:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 15:29	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 15:29	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-4

Date Collected: 04/17/24 16:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-26

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	**2.0**	**J B ^c**	10	1.9	ug/L			04/27/24 15:29	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 15:29	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 15:29	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 15:29	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 15:29	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 15:29	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 15:29	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 15:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 15:29	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 15:29	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 15:29	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 15:29	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 15:29	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 15:29	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*04/27/24 15:29*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*04/27/24 15:29*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*04/27/24 15:29*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 120*		*04/27/24 15:29*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		05/02/24 17:18	05/03/24 17:21	1
Barium	**20.1**		2.5	0.73	ug/L		05/02/24 17:18	05/03/24 17:21	1
Cadmium	<0.17		0.50	0.17	ug/L		05/02/24 17:18	05/03/24 17:21	1
Cobalt	<0.40		1.0	0.40	ug/L		05/02/24 17:18	05/03/24 17:21	1
Iron	**3740**		100	46.7	ug/L		05/02/24 17:18	05/03/24 17:21	1
Lead	**0.91**		0.50	0.19	ug/L		05/02/24 17:18	05/03/24 17:21	1
Manganese	**98.1**		2.5	0.79	ug/L		05/02/24 17:18	05/03/24 17:21	1
Vanadium	<2.2		5.0	2.2	ug/L		05/02/24 17:18	05/03/24 17:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/02/24 11:20	05/03/24 08:53	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-5

Date Collected: 04/17/24 17:20
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-27

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 15:53	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 15:53	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 15:53	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 15:53	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 15:53	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 15:53	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 15:53	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 15:53	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 15:53	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 15:53	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 15:53	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 15:53	1
Chloroform	**0.69**	**J B**	2.0	0.37	ug/L			04/27/24 15:53	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 15:53	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 15:53	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 15:53	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 15:53	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 15:53	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 15:53	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 15:53	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 15:53	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 15:53	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 15:53	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 15:53	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 15:53	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 15:53	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 15:53	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 15:53	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 15:53	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 15:53	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 15:53	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 15:53	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 15:53	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 15:53	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 15:53	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 15:53	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 15:53	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 15:53	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 15:53	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 15:53	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 15:53	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 15:53	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 15:53	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 15:53	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 15:53	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 15:53	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 15:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 15:53	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 15:53	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-5

Date Collected: 04/17/24 17:20
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-27

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			04/27/24 15:53	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 15:53	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 15:53	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 15:53	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 15:53	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 15:53	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 15:53	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 15:53	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 15:53	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 15:53	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 15:53	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 15:53	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 15:53	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 15:53	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*04/27/24 15:53*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*04/27/24 15:53*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*04/27/24 15:53*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 120*		*04/27/24 15:53*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.44**	**J**	1.0	0.23	ug/L		05/02/24 17:18	05/03/24 17:23	1
Barium	**27.7**		2.5	0.73	ug/L		05/02/24 17:18	05/03/24 17:23	1
Cadmium	<0.17		0.50	0.17	ug/L		05/02/24 17:18	05/03/24 17:23	1
Cobalt	<0.40		1.0	0.40	ug/L		05/02/24 17:18	05/03/24 17:23	1
Iron	**849**		100	46.7	ug/L		05/02/24 17:18	05/03/24 17:23	1
Lead	**3.5**		0.50	0.19	ug/L		05/02/24 17:18	05/03/24 17:23	1
Manganese	**358**		2.5	0.79	ug/L		05/02/24 17:18	05/03/24 17:23	1
Vanadium	<2.2		5.0	2.2	ug/L		05/02/24 17:18	05/03/24 17:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/02/24 11:20	05/03/24 08:55	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-6

Date Collected: 04/17/24 17:40
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-28

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 16:17	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 16:17	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 16:17	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 16:17	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 16:17	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 16:17	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 16:17	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 16:17	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 16:17	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 16:17	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 16:17	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 16:17	1
Chloroform	**0.60**	**J B**	2.0	0.37	ug/L			04/27/24 16:17	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 16:17	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 16:17	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 16:17	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 16:17	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 16:17	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 16:17	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 16:17	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 16:17	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 16:17	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 16:17	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 16:17	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 16:17	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 16:17	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 16:17	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 16:17	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 16:17	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 16:17	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 16:17	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 16:17	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 16:17	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 16:17	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 16:17	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 16:17	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 16:17	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 16:17	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 16:17	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 16:17	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 16:17	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 16:17	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 16:17	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 16:17	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 16:17	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 16:17	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 16:17	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 16:17	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 16:17	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-6

Date Collected: 04/17/24 17:40
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-28

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			04/27/24 16:17	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 16:17	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 16:17	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 16:17	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 16:17	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 16:17	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 16:17	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 16:17	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 16:17	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 16:17	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 16:17	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 16:17	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 16:17	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 16:17	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*04/27/24 16:17*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*04/27/24 16:17*	*1*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*04/27/24 16:17*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 120*		*04/27/24 16:17*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		05/02/24 17:18	05/03/24 17:29	1
Barium	**41.1**		2.5	0.73	ug/L		05/02/24 17:18	05/03/24 17:29	1
Cadmium	<0.17		0.50	0.17	ug/L		05/02/24 17:18	05/03/24 17:29	1
Cobalt	<0.40		1.0	0.40	ug/L		05/02/24 17:18	05/03/24 17:29	1
Iron	<46.7		100	46.7	ug/L		05/02/24 17:18	05/03/24 17:29	1
Lead	**0.62**		0.50	0.19	ug/L		05/02/24 17:18	05/03/24 17:29	1
Manganese	**240**		2.5	0.79	ug/L		05/02/24 17:18	05/03/24 17:29	1
Vanadium	<2.2		5.0	2.2	ug/L		05/02/24 17:18	05/03/24 17:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/02/24 11:20	05/03/24 08:57	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: DUP-1

Date Collected: 04/17/24 00:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-29

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 16:40	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 16:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 16:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 16:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 16:40	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 16:40	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 16:40	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 16:40	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 16:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 16:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 16:40	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 16:40	1
Chloroform	**0.67**	**J B**	2.0	0.37	ug/L			04/27/24 16:40	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 16:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 16:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 16:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 16:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 16:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 16:40	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 16:40	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 16:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 16:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 16:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 16:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 16:40	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 16:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 16:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 16:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 16:40	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 16:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 16:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 16:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 16:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 16:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 16:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 16:40	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 16:40	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 16:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 16:40	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 16:40	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			04/27/24 16:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 16:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 16:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 16:40	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 16:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 16:40	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 16:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 16:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 16:40	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: DUP-1

Date Collected: 04/17/24 00:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-29

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	**2.1**	**J B ^c**	10	1.9	ug/L			04/27/24 16:40	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 16:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 16:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 16:40	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 16:40	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 16:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 16:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 16:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 16:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 16:40	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 16:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 16:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 16:40	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 16:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*		*04/27/24 16:40*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*04/27/24 16:40*	*1*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*04/27/24 16:40*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 120*		*04/27/24 16:40*	*1*

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: DUP-2

Date Collected: 04/18/24 00:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-30

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			04/27/24 17:04	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 17:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 17:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 17:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 17:04	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 17:04	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 17:04	1
2-Butanone (MEK)	<2.1	^c	5.0	2.1	ug/L			04/27/24 17:04	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 17:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 17:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 17:04	1
Chloroethane	<0.51	^c	5.0	0.51	ug/L			04/27/24 17:04	1
Chloroform	**0.69**	**J B**	2.0	0.37	ug/L			04/27/24 17:04	1
Chloromethane	<0.32	^c	5.0	0.32	ug/L			04/27/24 17:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 17:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 17:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 17:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 17:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 17:04	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			04/27/24 17:04	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 17:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 17:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 17:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 17:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 17:04	1
Dichlorodifluoromethane	<0.67	^c	3.0	0.67	ug/L			04/27/24 17:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 17:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 17:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 17:04	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 17:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 17:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 17:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 17:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 17:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 17:04	1
Isopropylbenzene	**8.2**		1.0	0.39	ug/L			04/27/24 17:04	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			04/27/24 17:04	1
4-Isopropyltoluene	**3.0**		1.0	0.36	ug/L			04/27/24 17:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 17:04	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			04/27/24 17:04	1
Naphthalene	**1.0**	**^c**	1.0	0.34	ug/L			04/27/24 17:04	1
n-Butylbenzene	**3.5**		1.0	0.39	ug/L			04/27/24 17:04	1
N-Propylbenzene	**9.1**		1.0	0.41	ug/L			04/27/24 17:04	1
sec-Butylbenzene	**17**		1.0	0.40	ug/L			04/27/24 17:04	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 17:04	1
tert-Butylbenzene	**2.3**		1.0	0.40	ug/L			04/27/24 17:04	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 17:04	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 17:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 17:04	1

Client Sample ID: DUP-2

Date Collected: 04/18/24 00:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-30

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			04/27/24 17:04	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 17:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 17:04	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 17:04	1
1,2,4-Trichlorobenzene	<0.34	^c	1.0	0.34	ug/L			04/27/24 17:04	1
1,2,3-Trichlorobenzene	<0.46	^c	1.0	0.46	ug/L			04/27/24 17:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 17:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 17:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 17:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 17:04	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 17:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 17:04	1
Vinyl chloride	<0.20	^c	1.0	0.20	ug/L			04/27/24 17:04	1
Xylenes, Total	**0.72**	**J**	1.0	0.22	ug/L			04/27/24 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*04/27/24 17:04*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 120*		*04/27/24 17:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*		*04/27/24 17:04*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/27/24 17:04*	*1*

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**190**		10	3.6	ug/L			04/27/24 17:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*04/27/24 17:28*	*10*
Dibromofluoromethane (Surr)	*111*		*75 - 120*		*04/27/24 17:28*	*10*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*		*04/27/24 17:28*	*10*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/27/24 17:28*	*10*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.4**		1.0	0.23	ug/L		05/03/24 09:40	05/03/24 20:02	1
Barium	**259**		2.5	0.73	ug/L		05/03/24 09:40	05/03/24 20:02	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:40	05/03/24 20:02	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:40	05/03/24 20:02	1
Iron	**9370**		100	46.7	ug/L		05/03/24 09:40	05/03/24 20:02	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:40	05/03/24 20:02	1
Manganese	**831**		2.5	0.79	ug/L		05/03/24 09:40	05/03/24 20:02	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:40	05/03/24 20:02	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/02/24 11:20	05/03/24 08:59	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**2.6**		1.0	0.47	mg/L			05/02/24 05:21	1
Alkalinity (SM 2320B)	**254**	**B**	5.0	3.7	mg/L			05/02/24 19:37	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: DUP-2

Date Collected: 04/18/24 00:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-30

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**254**	**B**	5.0	3.7	mg/L			05/02/24 19:37	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:37	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:37	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:37	1
pH (SM 2320B)	**7.39**	**B**	0.100	0.100	S.U.			05/02/24 19:37	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: DUP-3

Date Collected: 04/19/24 00:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-31

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.1**		1.0	0.23	ug/L		05/03/24 09:40	05/03/24 20:04	1
Barium	**57.2**		2.5	0.73	ug/L		05/03/24 09:40	05/03/24 20:04	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:40	05/03/24 20:04	1
Cobalt	**4.4**		1.0	0.40	ug/L		05/03/24 09:40	05/03/24 20:04	1
Iron	**9470**		100	46.7	ug/L		05/03/24 09:40	05/03/24 20:04	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:40	05/03/24 20:04	1
Manganese	**1950**		2.5	0.79	ug/L		05/03/24 09:40	05/03/24 20:04	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:40	05/03/24 20:04	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/02/24 11:20	05/03/24 09:01	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	**10.3**		1.0	0.47	mg/L			05/02/24 06:37	1
Alkalinity (SM 2320B)	**141**	**B**	5.0	3.7	mg/L			05/02/24 19:46	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**141**	**B**	5.0	3.7	mg/L			05/02/24 19:46	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:46	1
Hydroxide Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:46	1
Phenolphthalein Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			05/02/24 19:46	1
pH (SM 2320B)	**6.99**	**B**	0.100	0.100	S.U.			05/02/24 19:46	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
^c	CCV Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Reported value was between the limit of detection and the limit of quantitation.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Reported value was between the limit of detection and the limit of quantitation.

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

QC Association Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

GC/MS VOA

Analysis Batch: 765222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-4	MW-4S	Total/NA	Water	8260D	
500-249292-5	MW-5S	Total/NA	Water	8260D	
500-249292-5 - DL	MW-5S	Total/NA	Water	8260D	
500-249292-6	MW-6S	Total/NA	Water	8260D	
500-249292-7	MW-6M	Total/NA	Water	8260D	
500-249292-9	MW-8S	Total/NA	Water	8260D	
500-249292-13	MW-12S	Total/NA	Water	8260D	
500-249292-16	MW-16M	Total/NA	Water	8260D	
500-249292-17	MW-17S	Total/NA	Water	8260D	
500-249292-22	PZ-6	Total/NA	Water	8260D	
500-249292-23	PW-1	Total/NA	Water	8260D	
500-249292-24	PW-2	Total/NA	Water	8260D	
500-249292-25	PW-3	Total/NA	Water	8260D	
500-249292-26	PW-4	Total/NA	Water	8260D	
500-249292-27	PW-5	Total/NA	Water	8260D	
500-249292-28	PW-6	Total/NA	Water	8260D	
500-249292-29	DUP-1	Total/NA	Water	8260D	
500-249292-30	DUP-2	Total/NA	Water	8260D	
500-249292-30 - DL	DUP-2	Total/NA	Water	8260D	
MB 500-765222/7	Method Blank	Total/NA	Water	8260D	
LCS 500-765222/4	Lab Control Sample	Total/NA	Water	8260D	
500-249292-9 MS	MW-8S	Total/NA	Water	8260D	
500-249292-9 MSD	MW-8S	Total/NA	Water	8260D	

Analysis Batch: 765336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-4 - DL	MW-4S	Total/NA	Water	8260D	
500-249292-15	MW-16S	Total/NA	Water	8260D	
500-249292-17 - DL	MW-17S	Total/NA	Water	8260D	
500-249292-21	PZ-5	Total/NA	Water	8260D	
MB 500-765336/8	Method Blank	Total/NA	Water	8260D	
LCS 500-765336/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 500-765336/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 765812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-1	MW-1SR	Dissolved	Water	7470A	
500-249292-2	MW-2S	Dissolved	Water	7470A	
500-249292-3	MW-2M	Dissolved	Water	7470A	
500-249292-4	MW-4S	Dissolved	Water	7470A	
500-249292-5	MW-5S	Dissolved	Water	7470A	
500-249292-6	MW-6S	Dissolved	Water	7470A	
500-249292-7	MW-6M	Dissolved	Water	7470A	
500-249292-8	MW-7M	Dissolved	Water	7470A	
500-249292-9	MW-8S	Dissolved	Water	7470A	
500-249292-10	MW-9M	Dissolved	Water	7470A	
500-249292-11	MW-10M	Dissolved	Water	7470A	
500-249292-12	MW-11M	Dissolved	Water	7470A	
500-249292-13	MW-12S	Dissolved	Water	7470A	

Metals (Continued)

Prep Batch: 765812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-14	MW-15M	Dissolved	Water	7470A	
500-249292-15	MW-16S	Dissolved	Water	7470A	
500-249292-16	MW-16M	Dissolved	Water	7470A	
500-249292-17	MW-17S	Dissolved	Water	7470A	
500-249292-18	MW-17M	Dissolved	Water	7470A	
500-249292-19	PZ-1	Dissolved	Water	7470A	
500-249292-20	PZ-2	Dissolved	Water	7470A	
MB 500-765812/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-765812/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-249292-9 MS	MW-8S	Dissolved	Water	7470A	
500-249292-9 MSD	MW-8S	Dissolved	Water	7470A	
500-249292-9 DU	MW-8S	Dissolved	Water	7470A	

Prep Batch: 765813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-21	PZ-5	Dissolved	Water	7470A	
500-249292-22	PZ-6	Dissolved	Water	7470A	
MB 500-765813/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-765813/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 766022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-23	PW-1	Total/NA	Water	7470A	
500-249292-24	PW-2	Total/NA	Water	7470A	
500-249292-25	PW-3	Total/NA	Water	7470A	
500-249292-26	PW-4	Total/NA	Water	7470A	
500-249292-27	PW-5	Total/NA	Water	7470A	
500-249292-28	PW-6	Total/NA	Water	7470A	
500-249292-30	DUP-2	Dissolved	Water	7470A	
500-249292-31	DUP-3	Dissolved	Water	7470A	
MB 500-766022/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-766022/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 766031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-1	MW-1SR	Dissolved	Water	7470A	765812
500-249292-2	MW-2S	Dissolved	Water	7470A	765812
500-249292-3	MW-2M	Dissolved	Water	7470A	765812
500-249292-4	MW-4S	Dissolved	Water	7470A	765812
500-249292-5	MW-5S	Dissolved	Water	7470A	765812
500-249292-6	MW-6S	Dissolved	Water	7470A	765812
500-249292-7	MW-6M	Dissolved	Water	7470A	765812
500-249292-8	MW-7M	Dissolved	Water	7470A	765812
500-249292-9	MW-8S	Dissolved	Water	7470A	765812
500-249292-10	MW-9M	Dissolved	Water	7470A	765812
500-249292-11	MW-10M	Dissolved	Water	7470A	765812
500-249292-12	MW-11M	Dissolved	Water	7470A	765812
500-249292-13	MW-12S	Dissolved	Water	7470A	765812
500-249292-14	MW-15M	Dissolved	Water	7470A	765812
500-249292-15	MW-16S	Dissolved	Water	7470A	765812
500-249292-16	MW-16M	Dissolved	Water	7470A	765812

Metals (Continued)

Analysis Batch: 766031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-17	MW-17S	Dissolved	Water	7470A	765812
500-249292-18	MW-17M	Dissolved	Water	7470A	765812
500-249292-19	PZ-1	Dissolved	Water	7470A	765812
500-249292-20	PZ-2	Dissolved	Water	7470A	765812
500-249292-21	PZ-5	Dissolved	Water	7470A	765813
500-249292-22	PZ-6	Dissolved	Water	7470A	765813
MB 500-765812/12-A	Method Blank	Total/NA	Water	7470A	765812
MB 500-765813/12-A	Method Blank	Total/NA	Water	7470A	765813
LCS 500-765812/13-A	Lab Control Sample	Total/NA	Water	7470A	765812
LCS 500-765813/13-A	Lab Control Sample	Total/NA	Water	7470A	765813
500-249292-9 MS	MW-8S	Dissolved	Water	7470A	765812
500-249292-9 MSD	MW-8S	Dissolved	Water	7470A	765812
500-249292-9 DU	MW-8S	Dissolved	Water	7470A	765812

Prep Batch: 766104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-23	PW-1	Total Recoverable	Water	3005A	
500-249292-24	PW-2	Total Recoverable	Water	3005A	
500-249292-25	PW-3	Total Recoverable	Water	3005A	
500-249292-26	PW-4	Total Recoverable	Water	3005A	
500-249292-27	PW-5	Total Recoverable	Water	3005A	
500-249292-28	PW-6	Total Recoverable	Water	3005A	
MB 500-766104/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-766104/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 766225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-1	MW-1SR	Dissolved	Water	3005A	
500-249292-2	MW-2S	Dissolved	Water	3005A	
500-249292-3	MW-2M	Dissolved	Water	3005A	
500-249292-4	MW-4S	Dissolved	Water	3005A	
500-249292-5	MW-5S	Dissolved	Water	3005A	
500-249292-6	MW-6S	Dissolved	Water	3005A	
500-249292-7	MW-6M	Dissolved	Water	3005A	
500-249292-8	MW-7M	Dissolved	Water	3005A	
500-249292-9	MW-8S	Dissolved	Water	3005A	
500-249292-10	MW-9M	Dissolved	Water	3005A	
500-249292-11	MW-10M	Dissolved	Water	3005A	
500-249292-12	MW-11M	Dissolved	Water	3005A	
500-249292-13	MW-12S	Dissolved	Water	3005A	
500-249292-14	MW-15M	Dissolved	Water	3005A	
500-249292-15	MW-16S	Dissolved	Water	3005A	
500-249292-16	MW-16M	Dissolved	Water	3005A	
500-249292-17	MW-17S	Dissolved	Water	3005A	
500-249292-18	MW-17M	Dissolved	Water	3005A	
500-249292-19	PZ-1	Dissolved	Water	3005A	
500-249292-20	PZ-2	Dissolved	Water	3005A	
MB 500-766225/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-766225/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-249292-9 MS	MW-8S	Dissolved	Water	3005A	
500-249292-9 MSD	MW-8S	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 766225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-9 DU	MW-8S	Dissolved	Water	3005A	

Prep Batch: 766238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-21	PZ-5	Dissolved	Water	3005A	
500-249292-22	PZ-6	Dissolved	Water	3005A	
500-249292-30	DUP-2	Dissolved	Water	3005A	
500-249292-31	DUP-3	Dissolved	Water	3005A	
MB 500-766238/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-766238/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 766264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-23	PW-1	Total/NA	Water	7470A	766022
500-249292-24	PW-2	Total/NA	Water	7470A	766022
500-249292-25	PW-3	Total/NA	Water	7470A	766022
500-249292-26	PW-4	Total/NA	Water	7470A	766022
500-249292-27	PW-5	Total/NA	Water	7470A	766022
500-249292-28	PW-6	Total/NA	Water	7470A	766022
500-249292-30	DUP-2	Dissolved	Water	7470A	766022
500-249292-31	DUP-3	Dissolved	Water	7470A	766022
MB 500-766022/12-A	Method Blank	Total/NA	Water	7470A	766022
LCS 500-766022/13-A	Lab Control Sample	Total/NA	Water	7470A	766022

Analysis Batch: 766547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-1	MW-1SR	Dissolved	Water	6020B	766225
500-249292-2	MW-2S	Dissolved	Water	6020B	766225
500-249292-3	MW-2M	Dissolved	Water	6020B	766225
500-249292-4	MW-4S	Dissolved	Water	6020B	766225
500-249292-5	MW-5S	Dissolved	Water	6020B	766225
500-249292-6	MW-6S	Dissolved	Water	6020B	766225
500-249292-7	MW-6M	Dissolved	Water	6020B	766225
500-249292-8	MW-7M	Dissolved	Water	6020B	766225
500-249292-9	MW-8S	Dissolved	Water	6020B	766225
500-249292-10	MW-9M	Dissolved	Water	6020B	766225
500-249292-11	MW-10M	Dissolved	Water	6020B	766225
500-249292-12	MW-11M	Dissolved	Water	6020B	766225
500-249292-13	MW-12S	Dissolved	Water	6020B	766225
500-249292-14	MW-15M	Dissolved	Water	6020B	766225
500-249292-15	MW-16S	Dissolved	Water	6020B	766225
500-249292-16	MW-16M	Dissolved	Water	6020B	766225
500-249292-17	MW-17S	Dissolved	Water	6020B	766225
500-249292-18	MW-17M	Dissolved	Water	6020B	766225
500-249292-19	PZ-1	Dissolved	Water	6020B	766225
500-249292-20	PZ-2	Dissolved	Water	6020B	766225
500-249292-21	PZ-5	Dissolved	Water	6020B	766238
500-249292-22	PZ-6	Dissolved	Water	6020B	766238
500-249292-23	PW-1	Total Recoverable	Water	6020B	766104
500-249292-24	PW-2	Total Recoverable	Water	6020B	766104
500-249292-25	PW-3	Total Recoverable	Water	6020B	766104

Metals (Continued)

Analysis Batch: 766547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-26	PW-4	Total Recoverable	Water	6020B	766104
500-249292-27	PW-5	Total Recoverable	Water	6020B	766104
500-249292-28	PW-6	Total Recoverable	Water	6020B	766104
500-249292-30	DUP-2	Dissolved	Water	6020B	766238
500-249292-31	DUP-3	Dissolved	Water	6020B	766238
MB 500-766104/1-A	Method Blank	Total Recoverable	Water	6020B	766104
MB 500-766225/1-A	Method Blank	Total Recoverable	Water	6020B	766225
MB 500-766238/1-A	Method Blank	Total Recoverable	Water	6020B	766238
LCS 500-766104/2-A	Lab Control Sample	Total Recoverable	Water	6020B	766104
LCS 500-766225/2-A	Lab Control Sample	Total Recoverable	Water	6020B	766225
LCS 500-766238/2-A	Lab Control Sample	Total Recoverable	Water	6020B	766238
500-249292-9 MS	MW-8S	Dissolved	Water	6020B	766225
500-249292-9 MSD	MW-8S	Dissolved	Water	6020B	766225
500-249292-9 DU	MW-8S	Dissolved	Water	6020B	766225

General Chemistry

Analysis Batch: 765411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-1	MW-1SR	Total/NA	Water	9060A	
500-249292-2	MW-2S	Total/NA	Water	9060A	
500-249292-3	MW-2M	Total/NA	Water	9060A	
500-249292-4	MW-4S	Total/NA	Water	9060A	
500-249292-5	MW-5S	Total/NA	Water	9060A	
500-249292-6	MW-6S	Total/NA	Water	9060A	
MB 500-765411/30	Method Blank	Total/NA	Water	9060A	
LCS 500-765411/31	Lab Control Sample	Total/NA	Water	9060A	
500-249292-3 MS	MW-2M	Total/NA	Water	9060A	
500-249292-3 MSD	MW-2M	Total/NA	Water	9060A	

Analysis Batch: 765761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-2	MW-2S	Total/NA	Water	SM 2320B	
500-249292-3	MW-2M	Total/NA	Water	SM 2320B	
500-249292-4	MW-4S	Total/NA	Water	SM 2320B	
500-249292-5	MW-5S	Total/NA	Water	SM 2320B	
500-249292-6	MW-6S	Total/NA	Water	SM 2320B	
MB 500-765761/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-765761/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 766029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-7	MW-6M	Total/NA	Water	9060A	
500-249292-8	MW-7M	Total/NA	Water	9060A	
500-249292-9	MW-8S	Total/NA	Water	9060A	
500-249292-10	MW-9M	Total/NA	Water	9060A	
500-249292-11	MW-10M	Total/NA	Water	9060A	
500-249292-12	MW-11M	Total/NA	Water	9060A	
500-249292-13	MW-12S	Total/NA	Water	9060A	
500-249292-14	MW-15M	Total/NA	Water	9060A	
500-249292-15	MW-16S	Total/NA	Water	9060A	

General Chemistry (Continued)

Analysis Batch: 766029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-16	MW-16M	Total/NA	Water	9060A	
500-249292-17	MW-17S	Total/NA	Water	9060A	
500-249292-18	MW-17M	Total/NA	Water	9060A	
500-249292-19	PZ-1	Total/NA	Water	9060A	
500-249292-20	PZ-2	Total/NA	Water	9060A	
500-249292-21	PZ-5	Total/NA	Water	9060A	
500-249292-22	PZ-6	Total/NA	Water	9060A	
500-249292-30	DUP-2	Total/NA	Water	9060A	
500-249292-31	DUP-3	Total/NA	Water	9060A	
MB 500-766029/30	Method Blank	Total/NA	Water	9060A	
MB 500-766029/6	Method Blank	Total/NA	Water	9060A	
LCS 500-766029/31	Lab Control Sample	Total/NA	Water	9060A	
LCS 500-766029/7	Lab Control Sample	Total/NA	Water	9060A	
LCSD 500-766029/32	Lab Control Sample Dup	Total/NA	Water	9060A	
500-249292-9 MS	MW-8S	Total/NA	Water	9060A	
500-249292-9 MSD	MW-8S	Total/NA	Water	9060A	

Analysis Batch: 766205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249292-1	MW-1SR	Total/NA	Water	SM 2320B	
500-249292-7	MW-6M	Total/NA	Water	SM 2320B	
500-249292-8	MW-7M	Total/NA	Water	SM 2320B	
500-249292-9	MW-8S	Total/NA	Water	SM 2320B	
500-249292-10	MW-9M	Total/NA	Water	SM 2320B	
500-249292-11	MW-10M	Total/NA	Water	SM 2320B	
500-249292-12	MW-11M	Total/NA	Water	SM 2320B	
500-249292-13	MW-12S	Total/NA	Water	SM 2320B	
500-249292-14	MW-15M	Total/NA	Water	SM 2320B	
500-249292-15	MW-16S	Total/NA	Water	SM 2320B	
500-249292-16	MW-16M	Total/NA	Water	SM 2320B	
500-249292-17	MW-17S	Total/NA	Water	SM 2320B	
500-249292-18	MW-17M	Total/NA	Water	SM 2320B	
500-249292-19	PZ-1	Total/NA	Water	SM 2320B	
500-249292-20	PZ-2	Total/NA	Water	SM 2320B	
500-249292-21	PZ-5	Total/NA	Water	SM 2320B	
500-249292-22	PZ-6	Total/NA	Water	SM 2320B	
500-249292-30	DUP-2	Total/NA	Water	SM 2320B	
500-249292-31	DUP-3	Total/NA	Water	SM 2320B	
MB 500-766205/2	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-766205/3	Lab Control Sample	Total/NA	Water	SM 2320B	
500-249292-9 DU	MW-8S	Total/NA	Water	SM 2320B	

Surrogate Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-249292-4	MW-4S	101	107	101	103
500-249292-4 - DL	MW-4S	115 ^c	116 ^c	119 ^c	105
500-249292-5 - DL	MW-5S	102	105	100	103
500-249292-5	MW-5S	99	107	102	102
500-249292-6	MW-6S	101	109	104	104
500-249292-7	MW-6M	105	108	102	102
500-249292-9	MW-8S	103	109	103	102
500-249292-9 MS	MW-8S	99	110	110	101
500-249292-9 MSD	MW-8S	102	108	107	103
500-249292-13	MW-12S	107	109	105	103
500-249292-15	MW-16S	110 ^c	118 ^c	121 ^c	102
500-249292-16	MW-16M	105	108	105	101
500-249292-17	MW-17S	106	109	106	102
500-249292-17 - DL	MW-17S	112 ^c	120 ^c	123 ^c	105
500-249292-21	PZ-5	107 ^c	117 ^c	123 ^c	102
500-249292-22	PZ-6	104	110	106	102
500-249292-23	PW-1	104	108	106	100
500-249292-24	PW-2	102	112	110	100
500-249292-25	PW-3	104	110	109	101
500-249292-26	PW-4	107	111	107	101
500-249292-27	PW-5	104	113	108	101
500-249292-28	PW-6	106	109	107	101
500-249292-29	DUP-1	106	113	109	101
500-249292-30	DUP-2	107	114	111	100
500-249292-30 - DL	DUP-2	105	111	109	100
LCS 500-765222/4	Lab Control Sample	98	106	98	103
LCS 500-765336/4	Lab Control Sample	113	117	123	103
LCSD 500-765336/5	Lab Control Sample Dup	115	117	122	103
MB 500-765222/7	Method Blank	102	109	101	103
MB 500-765336/8	Method Blank	116	117	124	104

Surrogate Legend

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

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

Lab Sample ID: MB 500-765222/7
Matrix: Water
Analysis Batch: 765222

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			04/27/24 09:02	1
Benzene	<0.15		0.50	0.15	ug/L			04/27/24 09:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/27/24 09:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/27/24 09:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/27/24 09:02	1
Bromoform	<0.48		1.0	0.48	ug/L			04/27/24 09:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/27/24 09:02	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			04/27/24 09:02	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/27/24 09:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/27/24 09:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/27/24 09:02	1
Chloroethane	<0.51		5.0	0.51	ug/L			04/27/24 09:02	1
Chloroform	0.775	J	2.0	0.37	ug/L			04/27/24 09:02	1
Chloromethane	<0.32		5.0	0.32	ug/L			04/27/24 09:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/27/24 09:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/27/24 09:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/27/24 09:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/27/24 09:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/27/24 09:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/27/24 09:02	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/27/24 09:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/27/24 09:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/27/24 09:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/27/24 09:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/27/24 09:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/27/24 09:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/27/24 09:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/27/24 09:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/27/24 09:02	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/27/24 09:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/27/24 09:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/27/24 09:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/27/24 09:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/27/24 09:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/27/24 09:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 09:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/27/24 09:02	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/27/24 09:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/27/24 09:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/27/24 09:02	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/27/24 09:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/27/24 09:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/27/24 09:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 09:02	1
Styrene	<0.39		1.0	0.39	ug/L			04/27/24 09:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/27/24 09:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/27/24 09:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/27/24 09:02	1

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

Lab Sample ID: MB 500-765222/7
Matrix: Water
Analysis Batch: 765222

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/27/24 09:02	1
Tetrahydrofuran	2.73	J	10	1.9	ug/L			04/27/24 09:02	1
Toluene	<0.15		0.50	0.15	ug/L			04/27/24 09:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/27/24 09:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/27/24 09:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/27/24 09:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/27/24 09:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/27/24 09:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/27/24 09:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/27/24 09:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/27/24 09:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/27/24 09:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/27/24 09:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/27/24 09:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/27/24 09:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/27/24 09:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*04/27/24 09:02*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 120*		*04/27/24 09:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*04/27/24 09:02*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*04/27/24 09:02*	*1*

Lab Sample ID: LCS 500-765222/4
Matrix: Water
Analysis Batch: 765222

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	43.3		ug/L		87	40 - 143
Benzene	50.0	43.5		ug/L		87	70 - 120
Bromobenzene	50.0	50.1		ug/L		100	70 - 122
Bromochloromethane	50.0	51.4		ug/L		103	65 - 122
Bromodichloromethane	50.0	46.6		ug/L		93	69 - 120
Bromoform	50.0	45.0		ug/L		90	56 - 132
Bromomethane	50.0	56.1		ug/L		112	40 - 152
2-Butanone (MEK)	50.0	38.5		ug/L		77	46 - 144
Carbon disulfide	50.0	48.9		ug/L		98	66 - 120
Carbon tetrachloride	50.0	53.7		ug/L		107	59 - 133
Chlorobenzene	50.0	50.8		ug/L		102	70 - 120
Chloroethane	50.0	46.1		ug/L		92	48 - 136
Chloroform	50.0	47.4		ug/L		95	70 - 120
Chloromethane	50.0	30.3		ug/L		61	56 - 152
2-Chlorotoluene	50.0	47.7		ug/L		95	70 - 125
4-Chlorotoluene	50.0	48.4		ug/L		97	68 - 124
cis-1,2-Dichloroethene	50.0	46.7		ug/L		93	70 - 125
cis-1,3-Dichloropropene	50.0	43.1		ug/L		86	64 - 127
Dibromochloromethane	50.0	48.2		ug/L		96	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	37.9		ug/L		76	56 - 123

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

Lab Sample ID: LCS 500-765222/4
Matrix: Water
Analysis Batch: 765222

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	50.0	47.3		ug/L		95	70 - 125
Dibromomethane	50.0	47.0		ug/L		94	70 - 120
1,3-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 125
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 120
1,2-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 125
Dichlorodifluoromethane	50.0	28.2		ug/L		56	40 - 159
1,1-Dichloroethane	50.0	43.9		ug/L		88	70 - 125
1,2-Dichloroethane	50.0	47.2		ug/L		94	68 - 127
1,1-Dichloroethene	50.0	49.4		ug/L		99	67 - 122
2,2-Dichloropropane	50.0	48.4		ug/L		97	58 - 139
1,2-Dichloropropane	50.0	41.5		ug/L		83	67 - 130
1,3-Dichloropropane	50.0	44.1		ug/L		88	62 - 136
1,1-Dichloropropene	50.0	46.8		ug/L		94	70 - 121
Ethylbenzene	50.0	49.0		ug/L		98	70 - 123
Hexachlorobutadiene	50.0	40.1		ug/L		80	51 - 150
Isopropylbenzene	50.0	52.5		ug/L		105	70 - 126
4-Isopropyltoluene	50.0	51.5		ug/L		103	70 - 125
Methylene Chloride	50.0	44.2		ug/L		88	69 - 125
Methyl tert-butyl ether	50.0	37.5		ug/L		75	55 - 123
Naphthalene	50.0	33.4		ug/L		67	53 - 144
n-Butylbenzene	50.0	48.2		ug/L		96	68 - 125
N-Propylbenzene	50.0	50.5		ug/L		101	69 - 127
sec-Butylbenzene	50.0	51.3		ug/L		103	70 - 123
Styrene	50.0	48.9		ug/L		98	70 - 120
tert-Butylbenzene	50.0	51.3		ug/L		103	70 - 121
1,1,1,2-Tetrachloroethane	50.0	48.7		ug/L		97	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.5		ug/L		87	62 - 140
Tetrachloroethene	50.0	50.2		ug/L		100	70 - 128
Tetrahydrofuran	100	66.7		ug/L		67	59 - 139
Toluene	50.0	46.1		ug/L		92	70 - 125
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 125
trans-1,3-Dichloropropene	50.0	42.1		ug/L		84	62 - 128
1,2,4-Trichlorobenzene	50.0	37.3		ug/L		75	57 - 137
1,2,3-Trichlorobenzene	50.0	36.4		ug/L		73	51 - 145
1,1,1-Trichloroethane	50.0	50.4		ug/L		101	70 - 125
1,1,2-Trichloroethane	50.0	45.6		ug/L		91	71 - 130
Trichloroethene	50.0	49.5		ug/L		99	70 - 125
Trichlorofluoromethane	50.0	50.5		ug/L		101	55 - 128
1,2,3-Trichloropropane	50.0	45.7		ug/L		91	50 - 133
1,3,5-Trimethylbenzene	50.0	51.3		ug/L		103	70 - 123
1,2,4-Trimethylbenzene	50.0	50.1		ug/L		100	70 - 123
Vinyl chloride	50.0	34.0		ug/L		68	64 - 126
Xylenes, Total	100	89.3		ug/L		89	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane (Surr)	*106*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*

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

Lab Sample ID: LCS 500-765222/4
Matrix: Water
Analysis Batch: 765222

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: 500-249292-9 MS
Matrix: Water
Analysis Batch: 765222

Client Sample ID: MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<1.7	^c	50.0	46.2		ug/L		92	40 - 143
Benzene	<0.15		50.0	43.3		ug/L		87	70 - 120
Bromobenzene	<0.36		50.0	49.9		ug/L		100	70 - 122
Bromochloromethane	<0.43		50.0	54.4		ug/L		109	65 - 122
Bromodichloromethane	<0.37		50.0	48.8		ug/L		98	69 - 120
Bromoform	<0.48		50.0	48.5		ug/L		97	56 - 132
Bromomethane	<0.80		50.0	60.6		ug/L		121	40 - 152
2-Butanone (MEK)	<2.1	^c	50.0	43.8		ug/L		88	46 - 144
Carbon disulfide	<0.45		50.0	47.8		ug/L		96	66 - 120
Carbon tetrachloride	<0.38		50.0	53.1		ug/L		106	59 - 133
Chlorobenzene	<0.39		50.0	49.8		ug/L		100	70 - 120
Chloroethane	<0.51	^c	50.0	53.4		ug/L		107	48 - 136
Chloroform	0.73	J B	50.0	47.7		ug/L		94	70 - 120
Chloromethane	<0.32	^c	50.0	37.1		ug/L		74	56 - 152
2-Chlorotoluene	<0.31		50.0	46.6		ug/L		93	70 - 125
4-Chlorotoluene	<0.35		50.0	46.2		ug/L		92	68 - 124
cis-1,2-Dichloroethene	<0.41		50.0	47.3		ug/L		95	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	40.8		ug/L		82	64 - 127
Dibromochloromethane	<0.49		50.0	51.0		ug/L		102	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0	^c	50.0	50.9		ug/L		102	56 - 123
1,2-Dibromoethane (EDB)	<0.39		50.0	52.0		ug/L		104	70 - 125
Dibromomethane	<0.27		50.0	51.0		ug/L		102	70 - 120
1,3-Dichlorobenzene	<0.40		50.0	47.0		ug/L		94	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	47.2		ug/L		94	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	50.6		ug/L		101	70 - 125
Dichlorodifluoromethane	<0.67	^c	50.0	33.8		ug/L		68	40 - 159
1,1-Dichloroethane	<0.41		50.0	44.7		ug/L		89	70 - 125
1,2-Dichloroethane	<0.39		50.0	50.8		ug/L		102	68 - 127
1,1-Dichloroethene	<0.39		50.0	49.9		ug/L		100	67 - 122
2,2-Dichloropropane	<0.44		50.0	39.2		ug/L		78	58 - 139
1,2-Dichloropropane	<0.43		50.0	42.4		ug/L		85	67 - 130
1,3-Dichloropropane	<0.36		50.0	47.0		ug/L		94	62 - 136
1,1-Dichloropropene	<0.30		50.0	46.4		ug/L		93	70 - 121
Ethylbenzene	<0.18		50.0	46.7		ug/L		93	70 - 123
Hexachlorobutadiene	<0.45		50.0	38.7		ug/L		77	51 - 150
Isopropylbenzene	<0.39		50.0	50.1		ug/L		100	70 - 126
4-Isopropyltoluene	<0.36		50.0	48.1		ug/L		96	70 - 125
Methylene Chloride	<1.6		50.0	46.5		ug/L		93	69 - 125
Methyl tert-butyl ether	<0.39	^c	50.0	41.8		ug/L		84	55 - 123
Naphthalene	<0.34	^c	50.0	43.0		ug/L		86	53 - 144
n-Butylbenzene	<0.39		50.0	43.6		ug/L		87	68 - 125

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

Lab Sample ID: 500-249292-9 MS
Matrix: Water
Analysis Batch: 765222

Client Sample ID: MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-Propylbenzene	<0.41		50.0	47.2		ug/L		94	69 - 127
sec-Butylbenzene	<0.40		50.0	48.4		ug/L		97	70 - 123
Styrene	<0.39		50.0	48.1		ug/L		96	70 - 120
tert-Butylbenzene	<0.40		50.0	49.7		ug/L		99	70 - 121
1,1,1,2-Tetrachloroethane	<0.46		50.0	49.7		ug/L		99	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	50.0		ug/L		100	62 - 140
Tetrachloroethene	<0.37		50.0	47.0		ug/L		94	70 - 128
Tetrahydrofuran	<1.9	^c	100	78.9		ug/L		79	59 - 139
Toluene	<0.15		50.0	43.7		ug/L		87	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	49.4		ug/L		99	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	42.3		ug/L		85	62 - 128
1,2,4-Trichlorobenzene	<0.34	^c	50.0	37.9		ug/L		76	57 - 137
1,2,3-Trichlorobenzene	<0.46	^c	50.0	42.7		ug/L		85	51 - 145
1,1,1-Trichloroethane	<0.38		50.0	50.1		ug/L		100	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	48.7		ug/L		97	71 - 130
Trichloroethene	<0.16		50.0	49.7		ug/L		99	70 - 125
Trichlorofluoromethane	<0.43		50.0	58.6		ug/L		117	55 - 128
1,2,3-Trichloropropane	<0.41		50.0	53.3		ug/L		107	50 - 133
1,3,5-Trimethylbenzene	<0.25		50.0	49.5		ug/L		99	70 - 123
1,2,4-Trimethylbenzene	<0.36		50.0	47.9		ug/L		96	70 - 123
Vinyl chloride	<0.20	^c	50.0	39.1		ug/L		78	64 - 126
Xylenes, Total	<0.22		100	85.7		ug/L		86	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane (Surr)	*110*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: 500-249292-9 MSD
Matrix: Water
Analysis Batch: 765222

Client Sample ID: MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<1.7	^c	50.0	42.9		ug/L		86	40 - 143	8	20
Benzene	<0.15		50.0	45.7		ug/L		91	70 - 120	5	20
Bromobenzene	<0.36		50.0	53.5		ug/L		107	70 - 122	7	20
Bromochloromethane	<0.43		50.0	55.6		ug/L		111	65 - 122	2	20
Bromodichloromethane	<0.37		50.0	50.2		ug/L		100	69 - 120	3	20
Bromoform	<0.48		50.0	51.0		ug/L		102	56 - 132	5	20
Bromomethane	<0.80		50.0	50.6		ug/L		101	40 - 152	18	20
2-Butanone (MEK)	<2.1	^c	50.0	42.4		ug/L		85	46 - 144	3	20
Carbon disulfide	<0.45		50.0	49.4		ug/L		99	66 - 120	3	20
Carbon tetrachloride	<0.38		50.0	56.3		ug/L		113	59 - 133	6	20
Chlorobenzene	<0.39		50.0	51.9		ug/L		104	70 - 120	4	20
Chloroethane	<0.51	^c	50.0	47.1		ug/L		94	48 - 136	13	20
Chloroform	0.73	J B	50.0	49.5		ug/L		98	70 - 120	4	20
Chloromethane	<0.32	^c	50.0	32.3		ug/L		65	56 - 152	14	20

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

Lab Sample ID: 500-249292-9 MSD
Matrix: Water
Analysis Batch: 765222

Client Sample ID: MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chlorotoluene	<0.31		50.0	48.7		ug/L		97	70 - 125	4	20
4-Chlorotoluene	<0.35		50.0	48.7		ug/L		97	68 - 124	5	20
cis-1,2-Dichloroethene	<0.41		50.0	48.8		ug/L		98	70 - 125	3	20
cis-1,3-Dichloropropene	<0.42		50.0	43.5		ug/L		87	64 - 127	6	20
Dibromochloromethane	<0.49		50.0	52.9		ug/L		106	68 - 125	4	20
1,2-Dibromo-3-Chloropropane	<2.0	^c	50.0	52.0		ug/L		104	56 - 123	2	20
1,2-Dibromoethane (EDB)	<0.39		50.0	53.9		ug/L		108	70 - 125	4	20
Dibromomethane	<0.27		50.0	53.2		ug/L		106	70 - 120	4	20
1,3-Dichlorobenzene	<0.40		50.0	49.7		ug/L		99	70 - 125	5	20
1,4-Dichlorobenzene	<0.36		50.0	50.9		ug/L		102	70 - 120	8	20
1,2-Dichlorobenzene	<0.33		50.0	51.1		ug/L		102	70 - 125	1	20
Dichlorodifluoromethane	<0.67	^c	50.0	29.5		ug/L		59	40 - 159	14	20
1,1-Dichloroethane	<0.41		50.0	46.0		ug/L		92	70 - 125	3	20
1,2-Dichloroethane	<0.39		50.0	52.6		ug/L		105	68 - 127	3	20
1,1-Dichloroethene	<0.39		50.0	50.6		ug/L		101	67 - 122	1	20
2,2-Dichloropropane	<0.44		50.0	40.7		ug/L		81	58 - 139	4	20
1,2-Dichloropropane	<0.43		50.0	44.9		ug/L		90	67 - 130	6	20
1,3-Dichloropropane	<0.36		50.0	49.1		ug/L		98	62 - 136	4	20
1,1-Dichloropropene	<0.30		50.0	48.1		ug/L		96	70 - 121	4	20
Ethylbenzene	<0.18		50.0	48.8		ug/L		98	70 - 123	4	20
Hexachlorobutadiene	<0.45		50.0	37.6		ug/L		75	51 - 150	3	20
Isopropylbenzene	<0.39		50.0	52.5		ug/L		105	70 - 126	5	20
4-Isopropyltoluene	<0.36		50.0	49.8		ug/L		100	70 - 125	3	20
Methylene Chloride	<1.6		50.0	47.1		ug/L		94	69 - 125	1	20
Methyl tert-butyl ether	<0.39	^c	50.0	43.7		ug/L		87	55 - 123	4	20
Naphthalene	<0.34	^c	50.0	44.6		ug/L		89	53 - 144	4	20
n-Butylbenzene	<0.39		50.0	45.2		ug/L		90	68 - 125	4	20
N-Propylbenzene	<0.41		50.0	49.7		ug/L		99	69 - 127	5	20
sec-Butylbenzene	<0.40		50.0	50.2		ug/L		100	70 - 123	4	20
Styrene	<0.39		50.0	50.0		ug/L		100	70 - 120	4	20
tert-Butylbenzene	<0.40		50.0	51.2		ug/L		102	70 - 121	3	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	50.6		ug/L		101	70 - 125	2	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	52.1		ug/L		104	62 - 140	4	20
Tetrachloroethene	<0.37		50.0	49.1		ug/L		98	70 - 128	4	20
Tetrahydrofuran	<1.9	^c	100	79.8		ug/L		80	59 - 139	1	20
Toluene	<0.15		50.0	46.3		ug/L		93	70 - 125	6	20
trans-1,2-Dichloroethene	<0.35		50.0	50.8		ug/L		102	70 - 125	3	20
trans-1,3-Dichloropropene	<0.36		50.0	44.3		ug/L		89	62 - 128	5	20
1,2,4-Trichlorobenzene	<0.34	^c	50.0	38.5		ug/L		77	57 - 137	2	20
1,2,3-Trichlorobenzene	<0.46	^c	50.0	42.6		ug/L		85	51 - 145	0	20
1,1,1-Trichloroethane	<0.38		50.0	52.3		ug/L		105	70 - 125	4	20
1,1,2-Trichloroethane	<0.35		50.0	49.5		ug/L		99	71 - 130	2	20
Trichloroethene	<0.16		50.0	51.3		ug/L		103	70 - 125	3	20
Trichlorofluoromethane	<0.43		50.0	53.0		ug/L		106	55 - 128	10	20
1,2,3-Trichloropropane	<0.41		50.0	55.8		ug/L		112	50 - 133	5	20
1,3,5-Trimethylbenzene	<0.25		50.0	51.1		ug/L		102	70 - 123	3	20
1,2,4-Trimethylbenzene	<0.36		50.0	50.3		ug/L		101	70 - 123	5	20
Vinyl chloride	<0.20	^c	50.0	34.4		ug/L		69	64 - 126	13	20
Xylenes, Total	<0.22		100	89.3		ug/L		89	70 - 125	4	20

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		72 - 124
Dibromofluoromethane (Surr)	108		75 - 120
1,2-Dichloroethane-d4 (Surr)	107		75 - 126
Toluene-d8 (Surr)	103		75 - 120

Lab Sample ID: MB 500-765336/8
Matrix: Water
Analysis Batch: 765336

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			04/29/24 10:43	1
Benzene	<0.15		0.50	0.15	ug/L			04/29/24 10:43	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/29/24 10:43	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/29/24 10:43	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/29/24 10:43	1
Bromoform	<0.48		1.0	0.48	ug/L			04/29/24 10:43	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/29/24 10:43	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			04/29/24 10:43	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			04/29/24 10:43	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/29/24 10:43	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/29/24 10:43	1
Chloroethane	<0.51		5.0	0.51	ug/L			04/29/24 10:43	1
Chloroform	<0.37		2.0	0.37	ug/L			04/29/24 10:43	1
Chloromethane	<0.32		5.0	0.32	ug/L			04/29/24 10:43	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/29/24 10:43	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/29/24 10:43	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/29/24 10:43	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/29/24 10:43	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/29/24 10:43	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/29/24 10:43	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			04/29/24 10:43	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/29/24 10:43	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/29/24 10:43	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/29/24 10:43	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/29/24 10:43	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/29/24 10:43	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/29/24 10:43	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/29/24 10:43	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/29/24 10:43	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			04/29/24 10:43	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/29/24 10:43	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/29/24 10:43	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/29/24 10:43	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/29/24 10:43	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/29/24 10:43	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/29/24 10:43	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/29/24 10:43	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/29/24 10:43	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/29/24 10:43	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/29/24 10:43	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/29/24 10:43	1

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

Lab Sample ID: MB 500-765336/8
Matrix: Water
Analysis Batch: 765336

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/29/24 10:43	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/29/24 10:43	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/29/24 10:43	1
Styrene	<0.39		1.0	0.39	ug/L			04/29/24 10:43	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/29/24 10:43	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/29/24 10:43	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/29/24 10:43	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/29/24 10:43	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			04/29/24 10:43	1
Toluene	<0.15		0.50	0.15	ug/L			04/29/24 10:43	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/29/24 10:43	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/29/24 10:43	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/29/24 10:43	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/29/24 10:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/29/24 10:43	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/29/24 10:43	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/29/24 10:43	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/29/24 10:43	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/29/24 10:43	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/29/24 10:43	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/29/24 10:43	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/29/24 10:43	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/29/24 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*72 - 124*		*04/29/24 10:43*	*1*
Dibromofluoromethane (Surr)	*117*		*75 - 120*		*04/29/24 10:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*75 - 126*		*04/29/24 10:43*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*04/29/24 10:43*	*1*

Lab Sample ID: LCS 500-765336/4
Matrix: Water
Analysis Batch: 765336

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	62.8		ug/L		126	40 - 143
Benzene	50.0	46.8		ug/L		94	70 - 120
Bromobenzene	50.0	42.6		ug/L		85	70 - 122
Bromochloromethane	50.0	52.3		ug/L		105	65 - 122
Bromodichloromethane	50.0	53.3		ug/L		107	69 - 120
Bromoform	50.0	50.7		ug/L		101	56 - 132
Bromomethane	50.0	23.5		ug/L		47	40 - 152
2-Butanone (MEK)	50.0	48.1		ug/L		96	46 - 144
Carbon disulfide	50.0	43.8		ug/L		88	66 - 120
Carbon tetrachloride	50.0	55.3		ug/L		111	59 - 133
Chlorobenzene	50.0	43.7		ug/L		87	70 - 120
Chloroethane	50.0	18.1	*	ug/L		36	48 - 136
Chloroform	50.0	48.1		ug/L		96	70 - 120

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

Lab Sample ID: LCS 500-765336/4
Matrix: Water
Analysis Batch: 765336

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	50.0	32.1		ug/L		64	56 - 152
2-Chlorotoluene	50.0	44.7		ug/L		89	70 - 125
4-Chlorotoluene	50.0	45.9		ug/L		92	68 - 124
cis-1,2-Dichloroethene	50.0	47.1		ug/L		94	70 - 125
cis-1,3-Dichloropropene	50.0	45.3		ug/L		91	64 - 127
Dibromochloromethane	50.0	46.0		ug/L		92	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	56.7		ug/L		113	56 - 123
1,2-Dibromoethane (EDB)	50.0	46.5		ug/L		93	70 - 125
Dibromomethane	50.0	53.6		ug/L		107	70 - 120
1,3-Dichlorobenzene	50.0	42.8		ug/L		86	70 - 125
1,4-Dichlorobenzene	50.0	41.6		ug/L		83	70 - 120
1,2-Dichlorobenzene	50.0	40.5		ug/L		81	70 - 125
Dichlorodifluoromethane	50.0	35.5		ug/L		71	40 - 159
1,1-Dichloroethane	50.0	54.8		ug/L		110	70 - 125
1,2-Dichloroethane	50.0	64.5	*	ug/L		129	68 - 127
1,1-Dichloroethene	50.0	46.8		ug/L		94	67 - 122
2,2-Dichloropropane	50.0	48.8		ug/L		98	58 - 139
1,2-Dichloropropane	50.0	53.3		ug/L		107	67 - 130
1,3-Dichloropropane	50.0	44.0		ug/L		88	62 - 136
1,1-Dichloropropene	50.0	48.9		ug/L		98	70 - 121
Ethylbenzene	50.0	42.9		ug/L		86	70 - 123
Hexachlorobutadiene	50.0	43.4		ug/L		87	51 - 150
Isopropylbenzene	50.0	40.5		ug/L		81	70 - 126
4-Isopropyltoluene	50.0	39.6		ug/L		79	70 - 125
Methylene Chloride	50.0	50.1		ug/L		100	69 - 125
Methyl tert-butyl ether	50.0	55.4		ug/L		111	55 - 123
Naphthalene	50.0	34.4		ug/L		69	53 - 144
n-Butylbenzene	50.0	36.8		ug/L		74	68 - 125
N-Propylbenzene	50.0	41.3		ug/L		83	69 - 127
sec-Butylbenzene	50.0	39.7		ug/L		79	70 - 123
Styrene	50.0	44.8		ug/L		90	70 - 120
tert-Butylbenzene	50.0	40.6		ug/L		81	70 - 121
1,1,1,2-Tetrachloroethane	50.0	46.9		ug/L		94	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.3		ug/L		93	62 - 140
Tetrachloroethene	50.0	41.2		ug/L		82	70 - 128
Tetrahydrofuran	100	101		ug/L		101	59 - 139
Toluene	50.0	40.5		ug/L		81	70 - 125
trans-1,2-Dichloroethene	50.0	45.7		ug/L		91	70 - 125
trans-1,3-Dichloropropene	50.0	46.1		ug/L		92	62 - 128
1,2,4-Trichlorobenzene	50.0	37.0		ug/L		74	57 - 137
1,2,3-Trichlorobenzene	50.0	37.0		ug/L		74	51 - 145
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	70 - 125
1,1,2-Trichloroethane	50.0	44.5		ug/L		89	71 - 130
Trichloroethene	50.0	51.6		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	50.0		ug/L		100	55 - 128
1,2,3-Trichloropropane	50.0	47.1		ug/L		94	50 - 133
1,3,5-Trimethylbenzene	50.0	39.9		ug/L		80	70 - 123
1,2,4-Trimethylbenzene	50.0	41.6		ug/L		83	70 - 123
Vinyl chloride	50.0	37.8		ug/L		76	64 - 126

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

Lab Sample ID: LCS 500-765336/4
Matrix: Water
Analysis Batch: 765336

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	93.9		ug/L		94	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*72 - 124*
Dibromofluoromethane (Surr)	*117*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: LCSD 500-765336/5
Matrix: Water
Analysis Batch: 765336

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
Acetone			50.0	60.4		ug/L		121	40 - 143	4	20
Benzene			50.0	53.3		ug/L		107	70 - 120	13	20
Bromobenzene			50.0	47.7		ug/L		95	70 - 122	11	20
Bromochloromethane			50.0	57.1		ug/L		114	65 - 122	9	20
Bromodichloromethane			50.0	59.5		ug/L		119	69 - 120	11	20
Bromoform			50.0	55.3		ug/L		111	56 - 132	9	20
Bromomethane			50.0	24.8		ug/L		50	40 - 152	6	20
2-Butanone (MEK)			50.0	47.2		ug/L		94	46 - 144	2	20
Carbon disulfide			50.0	50.3		ug/L		101	66 - 120	14	20
Carbon tetrachloride			50.0	64.7		ug/L		129	59 - 133	16	20
Chlorobenzene			50.0	49.3		ug/L		99	70 - 120	12	20
Chloroethane			50.0	20.1	*	ug/L		40	48 - 136	10	20
Chloroform			50.0	54.9		ug/L		110	70 - 120	13	20
Chloromethane			50.0	36.2		ug/L		72	56 - 152	12	20
2-Chlorotoluene			50.0	50.7		ug/L		101	70 - 125	13	20
4-Chlorotoluene			50.0	52.3		ug/L		105	68 - 124	13	20
cis-1,2-Dichloroethene			50.0	52.7		ug/L		105	70 - 125	11	20
cis-1,3-Dichloropropene			50.0	51.4		ug/L		103	64 - 127	13	20
Dibromochloromethane			50.0	51.4		ug/L		103	68 - 125	11	20
1,2-Dibromo-3-Chloropropane			50.0	62.0	*	ug/L		124	56 - 123	9	20
1,2-Dibromoethane (EDB)			50.0	51.3		ug/L		103	70 - 125	10	20
Dibromomethane			50.0	59.6		ug/L		119	70 - 120	11	20
1,3-Dichlorobenzene			50.0	49.2		ug/L		98	70 - 125	14	20
1,4-Dichlorobenzene			50.0	46.7		ug/L		93	70 - 120	11	20
1,2-Dichlorobenzene			50.0	45.5		ug/L		91	70 - 125	12	20
Dichlorodifluoromethane			50.0	42.3		ug/L		85	40 - 159	18	20
1,1-Dichloroethane			50.0	62.0		ug/L		124	70 - 125	12	20
1,2-Dichloroethane			50.0	71.8	*	ug/L		144	68 - 127	11	20
1,1-Dichloroethene			50.0	53.2		ug/L		106	67 - 122	13	20
2,2-Dichloropropane			50.0	56.7		ug/L		113	58 - 139	15	20
1,2-Dichloropropane			50.0	60.0		ug/L		120	67 - 130	12	20
1,3-Dichloropropane			50.0	49.1		ug/L		98	62 - 136	11	20
1,1-Dichloropropene			50.0	56.9		ug/L		114	70 - 121	15	20
Ethylbenzene			50.0	48.8		ug/L		98	70 - 123	13	20
Hexachlorobutadiene			50.0	50.8		ug/L		102	51 - 150	16	20

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

Lab Sample ID: LCSD 500-765336/5
Matrix: Water
Analysis Batch: 765336

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
Isopropylbenzene	50.0	46.4		ug/L		93	70 - 126	14	20
4-Isopropyltoluene	50.0	46.4		ug/L		93	70 - 125	16	20
Methylene Chloride	50.0	57.4		ug/L		115	69 - 125	13	20
Methyl tert-butyl ether	50.0	61.0		ug/L		122	55 - 123	10	20
Naphthalene	50.0	37.4		ug/L		75	53 - 144	8	20
n-Butylbenzene	50.0	42.9		ug/L		86	68 - 125	15	20
N-Propylbenzene	50.0	47.7		ug/L		95	69 - 127	14	20
sec-Butylbenzene	50.0	46.2		ug/L		92	70 - 123	15	20
Styrene	50.0	50.7		ug/L		101	70 - 120	12	20
tert-Butylbenzene	50.0	47.1		ug/L		94	70 - 121	15	20
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/L		107	70 - 125	13	20
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	62 - 140	9	20
Tetrachloroethene	50.0	46.9		ug/L		94	70 - 128	13	20
Tetrahydrofuran	100	107		ug/L		107	59 - 139	5	20
Toluene	50.0	46.1		ug/L		92	70 - 125	13	20
trans-1,2-Dichloroethene	50.0	53.3		ug/L		107	70 - 125	15	20
trans-1,3-Dichloropropene	50.0	51.9		ug/L		104	62 - 128	12	20
1,2,4-Trichlorobenzene	50.0	41.4		ug/L		83	57 - 137	11	20
1,2,3-Trichlorobenzene	50.0	41.0		ug/L		82	51 - 145	10	20
1,1,1-Trichloroethane	50.0	61.0		ug/L		122	70 - 125	14	20
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	71 - 130	10	20
Trichloroethene	50.0	59.5		ug/L		119	70 - 125	14	20
Trichlorofluoromethane	50.0	58.7		ug/L		117	55 - 128	16	20
1,2,3-Trichloropropane	50.0	51.5		ug/L		103	50 - 133	9	20
1,3,5-Trimethylbenzene	50.0	46.2		ug/L		92	70 - 123	14	20
1,2,4-Trimethylbenzene	50.0	47.5		ug/L		95	70 - 123	13	20
Vinyl chloride	50.0	44.1		ug/L		88	64 - 126	15	20
Xylenes, Total	100	107		ug/L		107	70 - 125	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*
Dibromofluoromethane (Surr)	*117*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 120*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-766104/1-A
Matrix: Water
Analysis Batch: 766547

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 766104

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		05/02/24 17:18	05/03/24 16:54	1
Barium	<0.73		2.5	0.73	ug/L		05/02/24 17:18	05/03/24 16:54	1
Cadmium	<0.17		0.50	0.17	ug/L		05/02/24 17:18	05/03/24 16:54	1
Cobalt	<0.40		1.0	0.40	ug/L		05/02/24 17:18	05/03/24 16:54	1
Iron	<46.7		100	46.7	ug/L		05/02/24 17:18	05/03/24 16:54	1
Lead	<0.19		0.50	0.19	ug/L		05/02/24 17:18	05/03/24 16:54	1
Manganese	<0.79		2.5	0.79	ug/L		05/02/24 17:18	05/03/24 16:54	1

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

Lab Sample ID: MB 500-766104/1-A
Matrix: Water
Analysis Batch: 766547

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 766104

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<2.2		5.0	2.2	ug/L		05/02/24 17:18	05/03/24 16:54	1

Lab Sample ID: LCS 500-766104/2-A
Matrix: Water
Analysis Batch: 766547

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 766104

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	98.17		ug/L		98	80 - 120
Barium	500	500.8		ug/L		100	80 - 120
Cadmium	50.0	51.39		ug/L		103	80 - 120
Cobalt	500	524.5		ug/L		105	80 - 120
Iron	1000	1067		ug/L		107	80 - 120
Lead	100	99.06		ug/L		99	80 - 120
Manganese	500	515.2		ug/L		103	80 - 120
Vanadium	500	501.7		ug/L		100	80 - 120

Lab Sample ID: MB 500-766225/1-A
Matrix: Water
Analysis Batch: 766547

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 766225

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		05/03/24 09:29	05/03/24 18:03	1
Barium	<0.73		2.5	0.73	ug/L		05/03/24 09:29	05/03/24 18:03	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:29	05/03/24 18:03	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:29	05/03/24 18:03	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:29	05/03/24 18:03	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:29	05/03/24 18:03	1
Manganese	<0.79		2.5	0.79	ug/L		05/03/24 09:29	05/03/24 18:03	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:29	05/03/24 18:03	1

Lab Sample ID: LCS 500-766225/2-A
Matrix: Water
Analysis Batch: 766547

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 766225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	97.10		ug/L		97	80 - 120
Barium	500	502.7		ug/L		101	80 - 120
Cadmium	50.0	51.26		ug/L		103	80 - 120
Cobalt	500	534.3		ug/L		107	80 - 120
Iron	1000	1074		ug/L		107	80 - 120
Lead	100	99.41		ug/L		99	80 - 120
Manganese	500	518.3		ug/L		104	80 - 120
Vanadium	500	513.8		ug/L		103	80 - 120

Lab Sample ID: MB 500-766238/1-A
Matrix: Water
Analysis Batch: 766547

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 766238

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		05/03/24 09:40	05/03/24 17:56	1

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

Lab Sample ID: MB 500-766238/1-A
Matrix: Water
Analysis Batch: 766547

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 766238

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.73		2.5	0.73	ug/L		05/03/24 09:40	05/03/24 17:56	1
Cadmium	<0.17		0.50	0.17	ug/L		05/03/24 09:40	05/03/24 17:56	1
Cobalt	<0.40		1.0	0.40	ug/L		05/03/24 09:40	05/03/24 17:56	1
Iron	<46.7		100	46.7	ug/L		05/03/24 09:40	05/03/24 17:56	1
Lead	<0.19		0.50	0.19	ug/L		05/03/24 09:40	05/03/24 17:56	1
Manganese	<0.79		2.5	0.79	ug/L		05/03/24 09:40	05/03/24 17:56	1
Vanadium	<2.2		5.0	2.2	ug/L		05/03/24 09:40	05/03/24 17:56	1

Lab Sample ID: LCS 500-766238/2-A
Matrix: Water
Analysis Batch: 766547

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 766238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	100.2		ug/L		100	80 - 120
Barium	500	512.5		ug/L		102	80 - 120
Cadmium	50.0	52.02		ug/L		104	80 - 120
Cobalt	500	540.5		ug/L		108	80 - 120
Iron	1000	1101		ug/L		110	80 - 120
Lead	100	101.0		ug/L		101	80 - 120
Manganese	500	526.8		ug/L		105	80 - 120
Vanadium	500	520.6		ug/L		104	80 - 120

Lab Sample ID: 500-249292-9 MS
Matrix: Water
Analysis Batch: 766547

Client Sample ID: MW-8S
Prep Type: Dissolved
Prep Batch: 766225

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.56	J	100	98.32		ug/L		98	75 - 125
Barium	128		500	591.9		ug/L		93	75 - 125
Cadmium	<0.17		50.0	50.56		ug/L		101	75 - 125
Cobalt	<0.40		500	521.3		ug/L		104	75 - 125
Iron	<46.7		1000	1076		ug/L		108	75 - 125
Lead	<0.19		100	98.12		ug/L		98	75 - 125
Manganese	1120	F1 F2	500	1331	F1	ug/L		43	75 - 125
Vanadium	<2.2		500	513.1		ug/L		103	75 - 125

Lab Sample ID: 500-249292-9 MSD
Matrix: Water
Analysis Batch: 766547

Client Sample ID: MW-8S
Prep Type: Dissolved
Prep Batch: 766225

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.56	J	100	98.92		ug/L		98	75 - 125	1	20
Barium	128		500	577.4		ug/L		90	75 - 125	2	20
Cadmium	<0.17		50.0	51.51		ug/L		103	75 - 125	2	20
Cobalt	<0.40		500	526.8		ug/L		105	75 - 125	1	20
Iron	<46.7		1000	1085		ug/L		109	75 - 125	1	20
Lead	<0.19		100	100.1		ug/L		100	75 - 125	2	20
Manganese	1120	F1 F2	500	970.6	F1 F2	ug/L		-29	75 - 125	31	20
Vanadium	<2.2		500	514.9		ug/L		103	75 - 125	0	20

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

Lab Sample ID: 500-249292-9 DU — **Client Sample ID: MW-8S**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 766547 — **Prep Batch: 766225**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Arsenic	0.56	J		0.507	J	ug/L				9	20
Barium	128			128.0		ug/L				0.1	20
Cadmium	<0.17			<0.17		ug/L				NC	20
Cobalt	<0.40			0.433	J	ug/L				NC	20
Iron	<46.7			<46.7		ug/L				NC	20
Lead	<0.19			<0.19		ug/L				NC	20
Manganese	1120	F1 F2		1111		ug/L				0.4	20
Vanadium	<2.2			<2.2		ug/L				NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-765812/12-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766031 — **Prep Batch: 765812**

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0850	J	0.20	0.076	ug/L		05/01/24 10:35	05/02/24 07:45	1

Lab Sample ID: LCS 500-765812/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766031 — **Prep Batch: 765812**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			2.01	2.01		ug/L		100	80 - 120		

Lab Sample ID: MB 500-765813/12-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766031 — **Prep Batch: 765813**

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		05/01/24 10:35	05/02/24 08:50	1

Lab Sample ID: LCS 500-765813/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766031 — **Prep Batch: 765813**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			2.01	1.74		ug/L		87	80 - 120		

Lab Sample ID: MB 500-766022/12-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766264 — **Prep Batch: 766022**

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.116	J	0.20	0.076	ug/L		05/02/24 11:20	05/03/24 08:04	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-766022/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766264 — **Prep Batch: 766022**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			2.01	2.01		ug/L		100	80 - 120		

Lab Sample ID: 500-249292-9 MS — **Client Sample ID: MW-8S**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 766031 — **Prep Batch: 765812**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.076		1.00	0.991		ug/L		99	75 - 125		

Lab Sample ID: 500-249292-9 MSD — **Client Sample ID: MW-8S**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 766031 — **Prep Batch: 765812**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.076		1.00	0.936		ug/L		94	75 - 125	6	20

Lab Sample ID: 500-249292-9 DU — **Client Sample ID: MW-8S**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 766031 — **Prep Batch: 765812**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	<0.076			<0.076		ug/L				NC	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 500-765411/30 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 765411

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	<0.47		1.0	0.47	mg/L			04/25/24 23:17	1

Lab Sample ID: LCS 500-765411/31 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 765411

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Quad			50.0	45.47		mg/L		91	86 - 116		

Lab Sample ID: 500-249292-3 MS — **Client Sample ID: MW-2M**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 765411

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Quad	3.8	F1	50.0	37.50	F1	mg/L		67	75 - 125		

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 500-249292-3 MSD — **Client Sample ID: MW-2M**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 765411

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Quad	3.8	F1	50.0	<0.47	F1	mg/L		0	75 - 125	NC	20

Lab Sample ID: MB 500-766029/30 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766029

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	<0.47		1.0	0.47	mg/L			05/02/24 01:44	1

Lab Sample ID: MB 500-766029/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766029

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	<0.47		1.0	0.47	mg/L			05/01/24 15:47	1

Lab Sample ID: LCS 500-766029/31 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Quad	50.0	45.24		mg/L		90	86 - 116

Lab Sample ID: LCS 500-766029/7 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Quad	50.0	45.71		mg/L		91	86 - 116

Lab Sample ID: LCSD 500-766029/32 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766029

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Quad	50.0	45.43		mg/L		91	86 - 116	0	20

Lab Sample ID: 500-249292-9 MS — **Client Sample ID: MW-8S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Quad	1.6		50.0	48.84		mg/L		94	75 - 125

Lab Sample ID: 500-249292-9 MSD — **Client Sample ID: MW-8S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 766029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Quad	1.6		50.0	48.58		mg/L		94	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-765761/28
Matrix: Water
Analysis Batch: 765761

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			04/30/24 17:36	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			04/30/24 17:36	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			04/30/24 17:36	1
Hydroxide Alkalinity	<3.7		5.0	3.7	mg/L			04/30/24 17:36	1
Phenolphthalein Alkalinity	<3.7		5.0	3.7	mg/L			04/30/24 17:36	1
pH	5.706		0.100	0.100	S.U.			04/30/24 17:36	1

Lab Sample ID: LCS 500-765761/29
Matrix: Water
Analysis Batch: 765761

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	104.1		mg/L		104	95 - 121		

Lab Sample ID: MB 500-766205/2
Matrix: Water
Analysis Batch: 766205

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	4.00	J	5.0	3.7	mg/L			05/02/24 16:36	1
Bicarbonate Alkalinity as CaCO3	4.00	J	5.0	3.7	mg/L			05/02/24 16:36	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			05/02/24 16:36	1
Hydroxide Alkalinity	<3.7		5.0	3.7	mg/L			05/02/24 16:36	1
Phenolphthalein Alkalinity	<3.7		5.0	3.7	mg/L			05/02/24 16:36	1
pH	5.341		0.100	0.100	S.U.			05/02/24 16:36	1

Lab Sample ID: LCS 500-766205/3
Matrix: Water
Analysis Batch: 766205

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	113.3		mg/L		113	95 - 121		

Lab Sample ID: 500-249292-9 DU
Matrix: Water
Analysis Batch: 766205

Client Sample ID: MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	231	B		231.1		mg/L				0.2	20
Bicarbonate Alkalinity as CaCO3	231	B		231.1		mg/L				0.2	20
Carbonate Alkalinity as CaCO3	<3.7			<3.7		mg/L				NC	20
Hydroxide Alkalinity	<3.7			<3.7		mg/L				NC	20
Phenolphthalein Alkalinity	<3.7			<3.7		mg/L				NC	20
pH	7.70	B		7.705		S.U.				0.1	

Lab Chronicle

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-1SR
Date Collected: 04/19/24 09:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:07
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 07:49
Total/NA	Analysis	9060A		1	765411	TR	EET CHI	04/26/24 02:29
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 16:50

Client Sample ID: MW-2S
Date Collected: 04/18/24 09:35
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:09
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 07:52
Total/NA	Analysis	9060A		1	765411	TR	EET CHI	04/26/24 02:56
Total/NA	Analysis	SM 2320B		1	765761	SO	EET CHI	04/30/24 17:51

Client Sample ID: MW-2M
Date Collected: 04/18/24 09:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:11
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 07:54
Total/NA	Analysis	9060A		1	765411	TR	EET CHI	04/26/24 04:13
Total/NA	Analysis	SM 2320B		1	765761	SO	EET CHI	04/30/24 17:59

Client Sample ID: MW-4S
Date Collected: 04/18/24 10:15
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 09:26
Total/NA	Analysis	8260D	DL	10	765336	W1T	EET CHI	04/29/24 12:39
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:13
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 07:56
Total/NA	Analysis	9060A		1	765411	TR	EET CHI	04/26/24 05:29
Total/NA	Analysis	SM 2320B		1	765761	SO	EET CHI	04/30/24 18:08

Lab Chronicle

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-5S
Date Collected: 04/18/24 07:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	765222	W1T	EET CHI	04/27/24 09:50
Total/NA	Analysis	8260D	DL	20	765222	W1T	EET CHI	04/27/24 10:14
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:19
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 07:58
Total/NA	Analysis	9060A		1	765411	TR	EET CHI	04/26/24 05:56
Total/NA	Analysis	SM 2320B		1	765761	SO	EET CHI	04/30/24 18:17

Client Sample ID: MW-6S
Date Collected: 04/18/24 16:35
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 10:38
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:22
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:00
Total/NA	Analysis	9060A		1	765411	TR	EET CHI	04/26/24 06:18
Total/NA	Analysis	SM 2320B		1	765761	SO	EET CHI	04/30/24 18:27

Client Sample ID: MW-6M
Date Collected: 04/18/24 16:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 11:03
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:24
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:02
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 17:48
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 16:58

Client Sample ID: MW-7M
Date Collected: 04/18/24 10:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:26
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:08

Lab Chronicle

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-7M
Date Collected: 04/18/24 10:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 18:15
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 17:07

Client Sample ID: MW-8S
Date Collected: 04/18/24 15:10
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 11:27
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:28
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:11
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 18:42
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 17:16

Client Sample ID: MW-9M
Date Collected: 04/18/24 13:40
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:38
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:19
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 20:43
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 17:35

Client Sample ID: MW-10M
Date Collected: 04/18/24 13:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:45
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:21
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 21:06
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 17:44

Lab Chronicle

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-11M
Date Collected: 04/18/24 13:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:47
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:23
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 21:32
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 17:52

Client Sample ID: MW-12S
Date Collected: 04/18/24 12:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 11:51
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:49
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:25
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 21:59
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 18:04

Client Sample ID: MW-15M
Date Collected: 04/18/24 16:20
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:51
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:28
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 22:26
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 18:13

Client Sample ID: MW-16S
Date Collected: 04/18/24 08:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765336	W1T	EET CHI	04/29/24 13:02
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:53
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:38
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 22:49
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 18:21

Lab Chronicle

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: MW-16M
Date Collected: 04/18/24 08:50
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 12:39
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:55
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:40
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 23:11
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 18:31

Client Sample ID: MW-17S
Date Collected: 04/18/24 08:20
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 13:04
Total/NA	Analysis	8260D	DL	10	765336	W1T	EET CHI	04/29/24 13:26
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:57
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:42
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/01/24 23:38
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 18:40

Client Sample ID: MW-17M
Date Collected: 04/18/24 08:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 18:59
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:44
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/02/24 00:00
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 18:50

Client Sample ID: PZ-1
Date Collected: 04/19/24 08:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 19:01
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:46
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/02/24 00:27

Lab Chronicle

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PZ-1
Date Collected: 04/19/24 08:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 18:58

Client Sample ID: PZ-2
Date Collected: 04/19/24 08:10
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766225	BDE	EET CHI	05/03/24 09:29 - 05/03/24 15:29 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 19:03
Dissolved	Prep	7470A			765812	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:48
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/02/24 02:52
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 19:07

Client Sample ID: PZ-5
Date Collected: 04/18/24 11:25
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765336	W1T	EET CHI	04/29/24 13:49
Dissolved	Prep	3005A			766238	BDE	EET CHI	05/03/24 09:40 - 05/03/24 15:40 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 19:58
Dissolved	Prep	7470A			765813	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:54
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/02/24 03:15
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 19:16

Client Sample ID: PZ-6
Date Collected: 04/18/24 11:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 13:52
Dissolved	Prep	3005A			766238	BDE	EET CHI	05/03/24 09:40 - 05/03/24 15:40 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 20:00
Dissolved	Prep	7470A			765813	MJG	EET CHI	05/01/24 10:35 - 05/01/24 12:35 [1]
Dissolved	Analysis	7470A		1	766031	MJG	EET CHI	05/02/24 08:57
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/02/24 03:42
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 19:25

Lab Chronicle

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-1
Date Collected: 04/17/24 15:15
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 14:17
Total Recoverable	Prep	3005A			766104	MC	EET CHI	05/02/24 17:18 - 05/02/24 23:18 [1]
Total Recoverable	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 17:15
Total/NA	Prep	7470A			766022	MJG	EET CHI	05/02/24 11:20 - 05/02/24 13:20 [1]
Total/NA	Analysis	7470A		1	766264	MJG	EET CHI	05/03/24 08:42

Client Sample ID: PW-2
Date Collected: 04/17/24 16:10
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 14:41
Total Recoverable	Prep	3005A			766104	MC	EET CHI	05/02/24 17:18 - 05/02/24 23:18 [1]
Total Recoverable	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 17:17
Total/NA	Prep	7470A			766022	MJG	EET CHI	05/02/24 11:20 - 05/02/24 13:20 [1]
Total/NA	Analysis	7470A		1	766264	MJG	EET CHI	05/03/24 08:44

Client Sample ID: PW-3
Date Collected: 04/17/24 17:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 15:05
Total Recoverable	Prep	3005A			766104	MC	EET CHI	05/02/24 17:18 - 05/02/24 23:18 [1]
Total Recoverable	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 17:19
Total/NA	Prep	7470A			766022	MJG	EET CHI	05/02/24 11:20 - 05/02/24 13:20 [1]
Total/NA	Analysis	7470A		1	766264	MJG	EET CHI	05/03/24 08:46

Client Sample ID: PW-4
Date Collected: 04/17/24 16:30
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 15:29
Total Recoverable	Prep	3005A			766104	MC	EET CHI	05/02/24 17:18 - 05/02/24 23:18 [1]
Total Recoverable	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 17:21
Total/NA	Prep	7470A			766022	MJG	EET CHI	05/02/24 11:20 - 05/02/24 13:20 [1]
Total/NA	Analysis	7470A		1	766264	MJG	EET CHI	05/03/24 08:53

Client Sample ID: PW-5
Date Collected: 04/17/24 17:20
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 15:53

Lab Chronicle

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: PW-5
Date Collected: 04/17/24 17:20
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			766104	MC	EET CHI	05/02/24 17:18 - 05/02/24 23:18 [1]
Total Recoverable	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 17:23
Total/NA	Prep	7470A			766022	MJG	EET CHI	05/02/24 11:20 - 05/02/24 13:20 [1]
Total/NA	Analysis	7470A		1	766264	MJG	EET CHI	05/03/24 08:55

Client Sample ID: PW-6
Date Collected: 04/17/24 17:40
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 16:17
Total Recoverable	Prep	3005A			766104	MC	EET CHI	05/02/24 17:18 - 05/02/24 23:18 [1]
Total Recoverable	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 17:29
Total/NA	Prep	7470A			766022	MJG	EET CHI	05/02/24 11:20 - 05/02/24 13:20 [1]
Total/NA	Analysis	7470A		1	766264	MJG	EET CHI	05/03/24 08:57

Client Sample ID: DUP-1
Date Collected: 04/17/24 00:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 16:40

Client Sample ID: DUP-2
Date Collected: 04/18/24 00:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	765222	W1T	EET CHI	04/27/24 17:04
Total/NA	Analysis	8260D	DL	10	765222	W1T	EET CHI	04/27/24 17:28
Dissolved	Prep	3005A			766238	BDE	EET CHI	05/03/24 09:40 - 05/03/24 15:40 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 20:02
Dissolved	Prep	7470A			766022	MJG	EET CHI	05/02/24 11:20 - 05/02/24 13:20 [1]
Dissolved	Analysis	7470A		1	766264	MJG	EET CHI	05/03/24 08:59
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/02/24 05:21
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 19:37

Client Sample ID: DUP-3
Date Collected: 04/19/24 00:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			766238	BDE	EET CHI	05/03/24 09:40 - 05/03/24 15:40 [1]
Dissolved	Analysis	6020B		1	766547	RN	EET CHI	05/03/24 20:04

Lab Chronicle

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Client Sample ID: DUP-3

Date Collected: 04/19/24 00:00
Date Received: 04/20/24 09:30

Lab Sample ID: 500-249292-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	7470A			766022	MJG	EET CHI	05/02/24 11:20 - 05/02/24 13:20 [1]
Dissolved	Analysis	7470A		1	766264	MJG	EET CHI	05/03/24 09:01
Total/NA	Analysis	9060A		1	766029	TR	EET CHI	05/02/24 06:37
Total/NA	Analysis	SM 2320B		1	766205	SO	EET CHI	05/02/24 19:46

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Onalaska LF - W0590-011

Job ID: 500-249292-1

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	pH
SM 2320B		Water	Phenolphthalein Alkalinity

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing America

500 249292 COC

Client Information	Sampler: Renee Sletten, KLD	Lab PM: Fredrick, Sandie	Carrier T	COC No
Client Contact: Ashley Wagner	Phone: 715-491-6842(Tel)	E-Mail: sandra fredrick@eurofinset com	State of O: WI	Page: Page 1 of 4
Company: Cedar Corporation	PWSID:			Job #: 500-249292
Address: W61 N487 Washington Ave	Due Date Requested: Standard			
City: Cedarburg	TAT Requested (days):			
State, Zip: WI, 53012	Compliance Project: Δ Yes Δ No			
Phone: 262-719-5242(Tel)	PO #: Purchase Order not required			
Email: ashley.wagner@cedarcorp.com	WO #:			
Project Name: Onalaska LF	Project #: W0590-011			
Site	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

	Sample Identification	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)	VOCs (8260B)	Alkalinity 310.1	Total Organic Carbon 9060A	Metals (diss. As, Ba, Fe, Pb, Mn, Cd, Co, Hg, V) 6010B	Metals (total As, Ba, Fe, Pb, Mn, Cd, Co, Hg, V) 6010B	Total Number of containers	Special Instructions/Note:
				Preservation Code:										
1	MW-1SR	4/19/24	0930	G	Water	Y			X	X	X			
2	MW-2S	4/18/24	0935	G	Water	Y			X	X	X			
3	MW-2M	↓	0930	G	Water	Y			X	X	X			
4	MW-4S		1015	G	Water	Y		X	X	X	X			
5	MW-5S		0750	G	Water	Y		X	X	X	X			
6	MW-6S		1635	G	Water	Y		X	X	X	X			
7	MW-6M		1650	G	Water	Y		X	X	X	X			
8	MW-7M		1050	G	Water	Y			X	X	X			
9	MW-8S	↓	1510	G	Water	Y	X	X	X	X	X			
	~~MW-8M~~	—	—	G	Water	Y		~~X~~	~~X~~	~~X~~	~~X~~			
10	MW-9M	4/18/24	1340	G	Water	Y			X	X	X			

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

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

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

Special Instructions/QC Requirements Please provide GEMS package with results

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Renee Sletten	4/19/24 1045	Cedar	Stephanie Hernandez	4/20/24 0930	EEIA
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 0.6+0.7, 1.5+1.0, 1.3+1.4

Ver 01/16/2019

5/8/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Renee Sletten, KLD	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No:
Client Contact: Ashley Wagner	Phone: 715-491-6842(Tel)	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 2 of 4
Company: Cedar Corporation	PWSID:			Job #: 500-249292
Address: W61 N487 Washington Ave	Due Date Requested: Standard			
City: Cedarburg	TAT Requested (days):			
State Zip: WI, 53012	Compliance Project: Δ Yes Δ No			
Phone: 262-719-5242(Tel)	PO #: Purchase Order not required			
Email: ashley.wagner@cedarcorp.com	WO #:			
Project Name: Onalaska LF	Project #: W0590-011			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

	Sample Identification	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)	VOCs (8260B)	Alkalinity 310.1	Total Organic Carbon 9060A	Metals (diss. As, Ba, Fe, Pb, Mn, Cd, Co, Hg, V) 6010B	Metals (total As, Ba, Fe, Pb, Mn, Cd, Co, Hg, V) 6010B	Total Number of containers	Special Instructions/Note
				Preservation Code:					N	S				
11	MW-10M	4/18/24	1350	G	Water	Y			X	X	X			
12	MW-11M	↓	1330	G	Water	Y			X	X	X			
13	MW-12S	↓	1230	G	Water	Y		X	X	X	X			
	~~MW-14S~~	—	—	G	Water	Y		~~X~~	~~X~~	~~X~~	~~X~~			
14	MW-15M	4/18/24	1620	G	Water	Y			X	X	X			
15	MW-16S	↓	0850	G	Water	Y		X	X	X	X			
16	MW-16M	↓	0850	G	Water	Y		X	X	X	X			
17	MW-17S	↓	0820	G	Water	Y		X	X	X	X			
18	MW-17M	↓	0830	G	Water	Y			X	X	X			
19	PZ-1	4/19/24	0830	G	Water	Y			X	X	X			
20	PZ-2	4/19/24	0810	G	Water	Y			X	X	X			

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

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

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

Special Instructions/QC Requirements Please provide GEMS package with results

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
[signature]	4/19/24 1045	Cedar	Stephanie Hernandez	4/20/24 0930	EEIA
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver 01/16/2019

5/8/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Renee Sletten, KLD	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No:
Client Contact: Ashley Wagner	Phone: 715-491-6842(Tel)	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 3 of 4
Company: Cedar Corporation	PWSID:			Job #: 500-249292
Address: W61 N487 Washington Ave	Due Date Requested: Standard			
City: Cedarburg	TAT Requested (days):			
State, Zip: WI, 53012	Compliance Project: Δ Yes Δ No			
Phone: 262-719-5242(Tel)	PO #: Purchase Order not required			
Email: ashley.wagner@cedarcorp.com	WO #:			
Project Name: Onalaska LF	Project #: W0590-011			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

	Sample Identification	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)	VOCs (8260B)	Alkalinity 310.1	Total Organic Carbon 9060A	Metals (diss. As, Ba, Fe, Pb, Mn, Cd, Co, Hg, V) 6010B	Metals (total As, Ba, Fe, Pb, Mn, Cd, Co, Hg, V) 6010B	Total Number of containers	Special Instructions/Note
				Preservation Code:					N	S				
	~~PZ-3~~	—	—	G	Water	Y			~~X~~	~~X~~	~~X~~			
	~~PZ-4~~	—	—	G	Water	Y			~~X~~	~~X~~	~~X~~			
21	PZ-5	4/18/24	1125	G	Water	Y		X	X	X	X			
22	PZ-6	↓	1130	G	Water	Y		X	X	X	X			
23	PW-1	4/17/24	1515	G	Water	Y		X				X		
24	PW-2		1610	G	Water	Y		X				X		
25	PW-3		1700	G	Water	Y		X				X		
26	PW-4		1630	G	Water	Y		X				X		
27	PW-5		1720	G	Water	Y		X				X		
28	PW-6		1740	G	Water	Y		X				X		
29	DUP-1	↓	—	G	Water	Y	N		X	X				

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

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

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

Special Instructions/QC Requirements Please provide GEMS package with results

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Renee Sletten	4/19/24 1045	Cedar	Stephanie Hernandez	4/20/24 0930	EEIA
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver 01/16/2019

5/8/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Renee Sletten, KLD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No:
Client Contact: Ashley Wagner	Phone: 715-491-6842(Tel)	E-Mail: sandra fredrick@eurofinset com	State of Origin: WI	Page: Page 4 of 4
Company: Cedar Corporation	PWSID:			Job #: 500-249292
Address: W61 N487 Washington Ave	Due Date Requested: Standard			
City: Cedarburg	TAT Requested (days):			
State, Zip: WI, 53012	Compliance Project: Δ Yes Δ No			
Phone: 262-719-5242(Tel)	PO #: Purchase Order not required			
Email: ashley.wagner@cedarcorp.com	WO #:			
Project Name: Onalaska LF	Project #: W0590-011			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

	Sample Identification	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)	VOCs (8260B)	Alkalinity 310.1	Total Organic Carbon 9060A	Metals (diss. As, Ba, Fe, Pb, Mn, Cd, Co, Hg, V) 6010B	Metals (total As, Ba, Fe, Pb, Mn, Cd, Co, Hg, V) 6010B	Total Number of containers	Special Instructions/Note.
				Preservation Code					N	S				
30	DUP-2	4/18/24	–	G	Water	Y	N	X	X	X	X			
31	DUP-3	4/19/24	–	G	Water	Y	N		X	X	X			
	Trip Blank	4/19/24	–	G	Water	Y	N	X						
				G	Water	Y								
				G	Water	Y								
				G	Water	Y								
				G	Water	Y								
				G	Water	Y								
				G	Water	Y								
				G	Water	Y								
				G	Water	Y								

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

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

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

Special Instructions/QC Requirements Please provide GEMS package with results

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Renee Sletten	4/19/24 1045	Cedar	Stephanie Hemond	4/20/24 0930	EEIA
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver 01/16/2019

5/8/2024

RENEE SLETTEN
CEDAR CORPORATION
1321 STOUT ROAD

MENOMONIE, WI 54751
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3755

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:

RMA.

FedEx Express

J233023051201 un

FedEx
TRK# 0221 7338 9115 5912

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO JOTA

60484
IL-US ORD

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FedEx Express

J233023051201 un

RETURNS MON-SAT

FedEx
TRK# 0221 7338 9115 5923

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO JOTA

60484
IL-US ORD

#2629447 04/19 583J6/0FEC/9AE3

500-249292 Waybi

dEx
7338 9115 5901

SATURDAY 12:00P
PRIORITY OVERNIGHT

KO JOTA

60484
IL-US ORD

29447 04/19 583J6/0FEC/9AE3

FedEx Express

J2330230512010v

RMA:

REF

DEPT:

UNIVERSITY PARK IL 60484

(708) 534-5200

2417 BUNN ST.

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5/8/2024

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-249292-1

Login Number: 249292
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

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	0.7,1.0,1.4
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.	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.	N/A	