PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 11/27/2023 4:35:36 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-195191-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-195191-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-195191-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS	VOA
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 Qualifier
 Qualifier Description

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

applicable.

J Indicates the analyte was analyzed for but not detected.

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

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Case Narrative

Client: ARCADIS US Inc

Job ID: 240-195191-1

Project/Site: Ford LTP - Off Site

Job ID: 240-195191-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-195191-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 11/10/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7°C and 2.9°C

GC/MS VOA

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

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Method Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-195191-1

Method **Method Description** Protocol Laboratory SW846 EET CLE 8260D Volatile Organic Compounds by GC/MS 8260D SIM Volatile Organic Compounds (GC/MS) SW846 EET CLE 5030C SW846 EET CLE Purge and Trap

Protocol References:

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

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Sample Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-195191-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-195191-1	TRIP BLANK_52	Water	11/06/23 00:00	11/10/23 08:00
240-195191-2	MW-119S_110623	Water	11/06/23 13:50	11/10/23 08:00

Detection Summary

Client: ARCADIS US Inc Job ID: 240-195191-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_52 Lab Sample ID: 240-195191-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195191-1

Project/Site: Ford LTP - Off Site

Date Received: 11/10/23 08:00

Client Sample ID: TRIP BLANK_52

Lab Sample ID: 240-195191-1 Date Collected: 11/06/23 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/23 17:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/23 17:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/23 17:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/23 17:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/23 17:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/23 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 137			-		11/17/23 17:47	1
4-Bromofluorobenzene (Surr)	83		56 ₋ 136					11/17/23 17:47	1
Toluene-d8 (Surr)	103		78 - 122					11/17/23 17:47	1
Dibromofluoromethane (Surr)	90		73 - 120					11/17/23 17:47	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195191-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-119S_110623

Lab Sample ID: 240-195191-2 Date Collected: 11/06/23 13:50

Matrix: Water

11/17/23 18:13

11/17/23 18:13

11/17/23 18:13

Date Received: 11/10/23 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/20/23 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 120			_		11/20/23 23:32	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/23 18:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/23 18:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/23 18:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/23 18:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/23 18:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/23 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 137			_		11/17/23 18:13	

56 - 136

78 - 122

73 - 120

84

105

Surrogate Summary

Client: ARCADIS US Inc

Job ID: 240-195191-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-195191-1	TRIP BLANK_52	85	83	103	90
240-195191-2	MW-119S_110623	85	84	105	89
240-195483-B-5 MS	Matrix Spike	85	94	111	92
240-195483-B-5 MSD	Matrix Spike Duplicate	82	86	104	90
LCS 240-594979/6	Lab Control Sample	81	89	108	89
MB 240-594979/10	Method Blank	84	87	104	88

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-195156-E-37 MS	Matrix Spike	97	
240-195156-E-37 MSD	Matrix Spike Duplicate	98	
240-195191-2	MW-119S_110623	96	
LCS 240-595335/13	Lab Control Sample	102	
MB 240-595335/14	Method Blank	99	
Surrogate Legend			

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

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Job ID: 240-195191-1

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-594979/10

Matrix: Water

Analysis Batch: 594979

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/23 12:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/23 12:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/23 12:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/23 12:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/23 12:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/23 12:40	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 11/17/23 12:40 84 4-Bromofluorobenzene (Surr) 87 56 - 136 11/17/23 12:40 Toluene-d8 (Surr) 104 78 - 122 11/17/23 12:40 Dibromofluoromethane (Surr) 88 73 - 120 11/17/23 12:40

Lab Sample ID: LCS 240-594979/6

Matrix: Water

Analysis Batch: 594979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.4	-	ug/L		97	63 - 134	
cis-1,2-Dichloroethene	20.0	18.5		ug/L		93	77 - 123	
Tetrachloroethene	20.0	20.2		ug/L		101	76 - 123	
trans-1,2-Dichloroethene	20.0	18.9		ug/L		95	75 - 124	
Trichloroethene	20.0	17.8		ug/L		89	70 - 122	
Vinyl chloride	20.0	17.8		ug/L		89	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 81 62 - 137 4-Bromofluorobenzene (Surr) 89 56 - 136 Toluene-d8 (Surr) 108 78 - 122 73 - 120 Dibromofluoromethane (Surr) 89

Analysis Batch: 594979

Lab Sample ID: 240-195483-B-5 MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	270		160	436		ug/L		102	56 - 135	
cis-1,2-Dichloroethene	24		160	181		ug/L		98	66 - 128	
Tetrachloroethene	8.0	U	160	162		ug/L		101	62 - 131	
trans-1,2-Dichloroethene	8.0	U	160	156		ug/L		97	56 - 136	
Trichloroethene	8.0	U	160	145		ug/L		91	61 - 124	
Vinyl chloride	8.0	U	160	141		ug/L		88	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	111		78 - 122

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-195191-1

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

Lab Sample ID: 240-195483-B-5 MS

Matrix: Water

Analysis Batch: 594979

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

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 92 73 - 120

Lab Sample ID: 240-195483-B-5 MSD

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

Analyte

Analysis Batch: 594979

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

43 - 157

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 270 160 426 ug/L 96 56 - 135 26 cis-1,2-Dichloroethene 24 160 182 99 66 - 128 ug/L 14 1 8.0 U 160 157 ug/L 98 62 - 131 20 trans-1,2-Dichloroethene 8.0 U 160 158 ug/L 99 56 - 136 15 8.0 U 160 147 ug/L 92 61 - 124 15

150

ug/L

8.0 U MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		62 - 137
4-Bromofluorobenzene (Surr)	86		56 - 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

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

Lab Sample ID: MB 240-595335/14

Matrix: Water

Analysis Batch: 595335

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

Client Sample ID: Lab Control Sample

Limits

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/20/23 23:08	1
	МВ	МВ							

160

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 99 66 - 120 11/20/23 23:08

Lab Sample ID: LCS 240-595335/13

Analyte

Matrix: Water			Prep Type: Total/NA
Analysis Batch: 595335			
	Spike	LCS LCS	%Rec

1,4-Dioxane 10.0 9.84 LCS LCS %Recovery Qualifier Surrogate Limits

102

Lab Sample ID: 240-195156-E-37 MS

Matrix: Water

Analysis Batch: 595335

1,2-Dichloroethane-d4 (Surr)

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

D

%Rec

Unit

ug/L

Sample Sample Spike MS %Rec

Result Qualifier

Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 44 10.0 56.0 ug/L 122 51 - 153

Added

66 - 120

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QC Sample Results

Client: ARCADIS US Inc Job ID: 240-195191-1 Project/Site: Ford LTP - Off Site

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 120

	-6	C	In ID. 2	40 4	DEAEC	F 27	MCD	
_								
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	,			,	,			

Lab Sample ID: 240-195156-E-37 MSD **Matrix: Water**

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

Analysis Batch: 595335

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	44		10.0	56.3	4	ug/L		124	51 - 153	1	16

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 98 66 - 120

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-195191-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 594979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-195191-1	TRIP BLANK_52	Total/NA	Water	8260D	
240-195191-2	MW-119S_110623	Total/NA	Water	8260D	
MB 240-594979/10	Method Blank	Total/NA	Water	8260D	
LCS 240-594979/6	Lab Control Sample	Total/NA	Water	8260D	
240-195483-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-195483-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 595335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195191-2	MW-119S_110623	Total/NA	Water	8260D SIM	
MB 240-595335/14	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-595335/13	Lab Control Sample	Total/NA	Water	8260D SIM	
240-195156-E-37 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-195156-E-37 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-195191-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_52

Lab Sample ID: 240-195191-1 Date Collected: 11/06/23 00:00

Matrix: Water

Date Received: 11/10/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	594979	НМВ	EET CLE	11/17/23 17:47

Client Sample ID: MW-119S_110623 Lab Sample ID: 240-195191-2

Date Collected: 11/06/23 13:50 Matrix: Water

Date Received: 11/10/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	594979	НМВ	EET CLE	11/17/23 18:13
Total/NA	Analysis	8260D SIM		1	595335	CS	EET CLE	11/20/23 23:32

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-195191-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	ber Expiration Date	
California	State	2927	02-27-24	
Georgia	State	4062	02-27-24	
Illinois	NELAP	200004	07-31-24	
lowa	State	421	06-01-25	
Kentucky (UST)	State	112225	02-28-24	
Kentucky (WW)	State	KY98016	12-31-23	
Michigan	State	9135	02-27-24	
Minnesota	NELAP	039-999-348	12-31-23	
Minnesota (Petrofund)	State	3506	08-01-23 *	
New Jersey	NELAP	OH001	07-01-24	
New York	NELAP	10975	04-02-24	
Ohio	State	8303	02-27-24	
Ohio VAP	State	ORELAP 4062	02-27-24	
Oregon	NELAP	4062	02-27-24	
Pennsylvania	NELAP	68-00340	08-31-24	
Texas	NELAP	T104704517-22-19	08-31-24	
Virginia	NELAP	460175	09-14-24	
West Virginia DEP	State	210	12-31-23	

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins Cleveland

Client Contact	Regulatory program: DW	NPDES RCRA Other		
Company Name: Arcadis				TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
CiryCrate/Vice Navel MI 48177	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	.000
City/oxate/Ap. (101) 100/1	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Phone: 248-994-2240				
Project Name: Ford LTP Off-Site	Sampler Name: Aloi na Diffici	TAT if different from below 3 weeks 10 day 2 weeks		Walk-in client
Project Number: 30167538.402.04	Method of Shipment/Carrier:	I week 2 days		Lao sampung
PO# 30167538.402.04	Shipping/Tracking No:	k (Y /	8260D 260D	Job/SDG No:
	Matrix)=a	D D D D D D D D D	
Sample Identification	Sample Date Sample Time Air Aqueous	HACO3 HACO3 HACO Composite Composite Composite Composite HACO Composite Composite HACO Composite	cis-1,2-DC Trans-1,2 PCE 8260 Vinyl Chlo	Sample Specific Notes / Special Instructions:
$^{\prime}$ TRIP BLANK_ 52	-	- C	×××××××××××××××××××××××××××××××××××××××	1 Trip Blank
279011 Sb11-1100/	110/0/72 1250 (2	× U	× × × × × × × × × × × × × × × × × × ×	3 VOAs for 8260D
p				
age				
18 0				
F 20				
		240-195191 Chain of Custody	M	HIGAN
				061
Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	nples are retained longer than I month)	
Special Instructions/Of Requirements & Comments:	Skin Irritant Potson B Unknown	Return to Chent - Disposal By La	b Archive For Months	
Sample Address:	1703U 1703U	to too Cato		
Submit all results through Cadena at Jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	_)		
Relinquished by Claima Office	Company Control 123 1	1530 Received by COIO STO	Company COC	Date/Time: 17,7 15,20
17	rade mighting	3850 Received by:	Company	+ ~
Relinquished by:	Company Date Time	1011 Received in Laboratory by:	Company:	Date/fine: 73 080
1 \$2008. Test/menta Lubratories, frc. All rights reserved				

TestAmerica

Chain of Custody Record

165191
Eurofins – Cleveland Sample Receipt Form/Narrative Login #: US
Client Accades Site Name Cooler unpacked by:
Cooler Received on 11.10.23 Opened on 11/10/23 Hills Athilor
FedEx: 1st Grd Exp UPS FAS (Waypoint) Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location
Eurofins Cooler # Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None
1. Cooler temperature upon receipt See Multiple Cooler Form
20.
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory.
Sample(s) were further preserved in the laboratory. Time preserved: Preservative(s) added/Lot number(s):
VOA Sample Preservation - Date/Time VOAs Frozen:

Login#: 195191

		Eurofins - Canton	Sample Receipt Mu	Itiple Cooler Form	
Cooler	Description	IR Gun#	Observed	Corrected	Coolant
(0	ircle)	(Circle)	Temp °C	Temp *C	(Circle)
EC Client	Box Other	IR GUN 0;	1-8	2.9	Wellice Blue Ice By It
(EC Client	Box Other	IR GUN 9:	1.6	2.7	(Wellice') Silve Ice By ic
EC Clent	Box Other	R GUN #:			Wellice Nee Ice By Ic Weler Nees
BC Clent	Box Other	IR GUN 0:			Wellte Blue Ice By ic
IC Client	Bex Other	R GUN #:			Weller Mess
IC Client	Box Other	IR GUN F:			Wellice Nee Ice Bylos
SC Clent	Box Other	IR GUN 6:			Well to She to Byte
BC Client	Bex Other	IR GUN F:			Wellice Shee Ice Bylcs
BC Clout	Box Other	IR GUN F:			Wellies Shee lee Sylce
BC Cleat	Bex Other	12 GUN #:			Weller Nee too Byte
BC Cloud	Sex Other	R OOM 6:			that he the he byte
BC Client	Box Other	12 GUN 6:			Weller the tee tyle
BC Cleat	Box Other	IR GUM 6:			Well too Shee Sale Styles
BC Clent	Bex Other	R 60N 6:			Wellies the less byte
BC CSont	Bex Other	IX 69N 5:			Well be Shee fee by be
BC Client	Bex Other	10 OUN 6:			Worker the too trylo
BC CBent	Box Other	IR 60H 6:			Well too Ship too By to
BC Cleat	Bex Other	R 69H 9:			Wellico She lee Syle
BC CBent	Bex Other	IR GIM #:			Weller She lee Sylte
BC Cloud	Sex Other	12 GUN 6:			Well too Sive too Byte
BC CBent	Beix Other	R 60H F:			Weller Mose
BC Cloud	Bex Other	R 90H #:			Wellies Nos Ico Byte
BC Cloud	Jox Ölher	R 64H #:			Walter Name
		R 04H 6:			Well too Blue too By to
BC Client	Bex Other	18 OM 6:			Well to Mee to Byte
DC Clork	Ben Other	R 6W 6:			Not les êles les Byte
	Sex Other	2 GWI 6:			Well too Blue too Bryto
BC Clent	Bex Other	R GUN F:			Well too Must be Byte
BC Cloud	Sex Other	R 60H 6:			Helice Blue Ice By its
	Bex Other	IR COM F:			Not less the tes thy to
	Sex Other	R DON P:		1	Tol Ico Sho Ico Bryto
BC Clork		R SUN F:			fel Ice She Ice Bryte
EC Clerk		R 6W 6:			tel les être les Bryles
	Bex Other	R GW #:		W	of ice life fee Bry to

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

DATA VERIFICATION REPORT



November 27, 2023

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04 off-site

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 195191-1 Sample date: 2023-11-06

Report received by CADENA: 2023-11-27

Initial Data Verification completed by CADENA: 2023-11-27

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC SIM QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 195191-1

		Sample Name:	TRIP BLA	NK_52			MW-119	9S_1106	23	
		Lab Sample ID:	2401951	1911			2401952	1912		
		Sample Date:	11/6/20	23			11/6/20	23		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>OD</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-195191-1

CADENA Verification Report: 2023-11-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52135R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-195191-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample 10	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_52	240-195191-1	Water	11/06/2023		Х	
MW-119S_110623	240-195191-2	Water	11/06/2023		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- · Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: December 15, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 19, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

<u>TestAmerica</u>

TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Client Contact	Regulat	tory program:		[DV	V	_ N	PDES		□ RC	RA	T (Othe	r												
Company Name: Arcadis	Client Project	Manager: Kris	Hinskey			Site C	ontact	: Chri	istina W	eaver		-		Lab C	`onta	et: M	ike D	lMon	ico	_				TestAmerica Labora COC No:	atories, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240				Telep	hone: 2	248-99	94-2240				\dashv	Telen	hone:	330-	497-9	396					_		
City/State/Zip: Novi, MI, 48377									around	ime		_		Telep				\nal	VEOF				_		COCs
Phone: 248-994-2240		er.hinskey@ar					2)2		100	THE								Man	yses	T			-1	For lab use only	
Project Name: Ford LTP Off-Site	Sampler Name	· Alair	NOV	1.10	(0	TATi	different		olow 3 weeks														ľ	Walk-in client	
Project Number: 30167538.402.04	Method of Ship	TIUI!	MH	17	1U	10	day		2 weeks 1 week										_				ŀ	Lab sampling	
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PO # 30167538.402.04	Shipping/Track	cing No:				-		Г	I day		Sample (Y / N)	-C/Grab	۵	2600	E 82			8260D	2600					Job/SDG No:	
			14 170	Matrix		(Contain	ers & l	Preservat	ives	Samp		8260	CE 8	DC-	8	1 8	Chloride	ne 8					Red Hillians	
Sample Identification	Sample Date	Sample Time	Air	Sediment	Other:	H2SO4	HN03	NaOH	ZnAc NaOII Unpres	Otheri	Filtered	Composite	1.1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chic	1,4-Dioxane 8260D SIM					Sample Specific Special Instruc	
TRIP BLANK_ 52			1				1							X	X	X	1						7	1 Trip Blank	
-50	11/06/100				+	+					\vdash	-				\vdash	+	+	-	-			-	3 VOAs for 826	
mw-1195-110623	11/06/13	1350	6			\sqcup	6				7	6	X	X	X	X	X	X	X					3 VOAs for 826	
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Possible Hazard Identification						Sar	mple D	isposa	l (A fee	may be a	issesse	ed if	sampl	es are	retai	ined l	ongei	than	1 mont	h)					
Non-Hazard Flammable Skin la Special Instructions/QC Requirements & Comments:	rritant Poisc	on B	Unknow	n		- 1			Client	₹ D						Archiv		ſ		Aonths .					
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Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.	aco.com. Cadena #	E203631	100					1 1	,			ا ر													
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195191-1

Client Sample ID: TRIP BLANK_52

Lab Sample ID: 240-195191-1 Date Collected: 11/06/23 00:00 **Matrix: Water**

Date Received: 11/10/23 08:00

Project/Site: Ford LTP - Off Site

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/23 17:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/23 17:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/23 17:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/23 17:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/23 17:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/23 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 137					11/17/23 17:47	1
4-Bromofluorobenzene (Surr)	83		56 - 136					11/17/23 17:47	1
Toluene-d8 (Surr)	103		78 - 122					11/17/23 17:47	1
Dibromofluoromethane (Surr)	90		73 - 120					11/17/23 17:47	1

Client Sample ID: MW-119S_110623

Date Collected: 11/06/23 13:50

Date Received: 11/10/23 08:00

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/20/23 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 120			-		11/20/23 23:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/23 18:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/23 18:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/23 18:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/23 18:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/23 18:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/23 18:13	1

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85	62 - 137	11/17/23 18:13	1
4-Bromofluorobenzene (Surr)	84	56 - 136	11/17/23 18:13	1
Toluene-d8 (Surr)	105	78 - 122	11/17/23 18:13	1
Dibromofluoromethane (Surr)	89	73 - 120	11/17/23 18:13	1

Lab Sample ID: 240-195191-2

Matrix: Water