

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 12/6/2022 2:48:12 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-176841-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Canton

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization

n Mlp

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Authorized for release by Ann Maddux, Project Management Assistant I <u>ann.maddux@et.eurofinsus.com</u> Designee for Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

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Qualifiers

Qualifier Description
Indicates the analyte was analyzed for but not detected.
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
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
EPA recommended "Maximum Contaminant Level"
-

MDAMinimum Detectable Activity (Radiochemistry)MDCMinimum Detectable Concentration (Radiochemistry)

MDLMethod Detection LimitMLMinimum Level (Dioxin)MPNMost Probable NumberMQLMethod Quantitation Limit

 NC
 Not Calculated

 ND
 Not Detected at the reporting limit (or MDL or EDL if shown)

NEGNegative / AbsentPOSPositive / Present

PQLPractical Quantitation LimitPRESPresumptive

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Job ID: 240-176841-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-176841-1

Receipt

The samples were received on 11/19/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C

GC/MS VOA

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

Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-176841-1	TRIP BLANK_181	Water	11/17/22 00:00	11/19/22 08:00
240-176841-2	MW-159S_111722	Water	11/17/22 14:45	11/19/22 08:00

Detection Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_181

No Detections.

Client Sample ID: MW-159S_111722

No Detections.

Lab Sample ID: 240-176841-1

Lab Sample ID: 240-176841-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK_181 Date Collected: 11/17/22 00:00 Date Received: 11/19/22 08:00

Lab Sample ID: 240-176841-1

Matrix: Water

5 6

8 9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/29/22 08:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/29/22 08:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 08:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/29/22 08:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 08:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/29/22 08:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					11/29/22 08:10	1
4-Bromofluorobenzene (Surr)	101		56 - 136					11/29/22 08:10	1
Toluene-d8 (Surr)	103		78 - 122					11/29/22 08:10	1
Dibromofluoromethane (Surr)	99		73 - 120					11/29/22 08:10	1

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Client Sample ID: MW-159S_111722 Date Collected: 11/17/22 14:45 Date Received: 11/19/22 08:00

Job ID: 240-176841-1

Lab Sample ID: 240-176841-2 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/28/22 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 120			-		11/28/22 23:47	1
Method: SW846 8260D - Vo	slatile Organic	Compoun	ds by 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			11/29/22 10:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/29/22 10:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 10:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/29/22 10:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 10:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/29/22 10:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137			-		11/29/22 10:42	1
4-Bromofluorobenzene (Surr)	98		56 - 136					11/29/22 10:42	1
Toluene-d8 (Surr)	102		78 - 122					11/29/22 10:42	1
Dibromofluoromethane (Surr)	97		73 - 120					11/29/22 10:42	1

Surrogate Summary

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

			Pe	ercent Surro	ogate Recovery
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-176841-1	TRIP BLANK_181	91	101	103	99
240-176841-2	MW-159S_111722	91	98	102	97
240-176843-D-5 MS	Matrix Spike	85	99	104	99
240-176843-D-5 MSD	Matrix Spike Duplicate	83	98	104	96
LCS 240-553659/3	Lab Control Sample	84	101	105	97
MB 240-553659/4	Method Blank	91	99	101	97
Surrogate Legend					
DCA = 1,2-Dichloroeth	ane-d4 (Surr)				
BFB = 4-Bromofluorob	enzene (Surr)				
TOL = Toluene-d8 (Sur	r)				
DREM - Dibromofluoro	omethane (Surr)				

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(66-120)		
240-176838-B-2 MS	Matrix Spike	98		
240-176838-B-2 MSD	Matrix Spike Duplicate	102		
240-176841-2	MW-159S_111722	106		
LCS 240-553632/3	Lab Control Sample	96		
MB 240-553632/4	Method Blank	102		
Surrogate Legend				

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

Job ID: 240-176841-1

Prep Type: Total/NA

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Prep Type: Total/NA

Client Sample ID: Method Blank

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

Lab Sample ID: MB 240-553659/4 Matrix: Water

Analysis Batch: 553659

	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			11/29/22 06:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/29/22 06:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 06:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/29/22 06:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 06:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/29/22 06:53	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137		11/29/22 06:53	1
4-Bromofluorobenzene (Surr)	99		56 - 136		11/29/22 06:53	1
Toluene-d8 (Surr)	101		78 - 122		11/29/22 06:53	1
Dibromofluoromethane (Surr)	97		73 - 120		11/29/22 06:53	1

Lab Sample ID: LCS 240-553659/3 Matrix: Water Analysis Batch: 553659

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	27.3		ug/L		109	63 - 134	
cis-1,2-Dichloroethene	25.0	24.4		ug/L		97	77 - 123	
Tetrachloroethene	25.0	25.0		ug/L		100	76 - 123	
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	75 - 124	
Trichloroethene	25.0	23.4		ug/L		94	70 - 122	
Vinyl chloride	25.0	25.3		ug/L		101	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-176843-D-5 MS **Matrix: Water** Analysis Batch: 553659

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	25.0	28.4		ug/L		114	56 - 135	
cis-1,2-Dichloroethene	4.8		25.0	32.9		ug/L		112	66 - 128	
Tetrachloroethene	1.0	U	25.0	24.7		ug/L		99	62 - 131	
trans-1,2-Dichloroethene	0.74	J	25.0	24.1		ug/L		93	56 - 136	
Trichloroethene	1.0	U	25.0	23.0		ug/L		92	61 - 124	
Vinyl chloride	5.4		25.0	32.1		ug/L		107	43 - 157	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	85		62 - 137							

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	104		78 - 122

Client Sample ID: Lab Control Sample

Sherit Sample ID.		onuo	Jaili	hie
	Prep	Type:	Total/	NA

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

QC Sample Results

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

Lab Sample ID: 240-176843-D-5 MS Matrix: Water Prep Type: Total/NA Analysis Batch: 553659 MS MS %Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 99 73 - 120 **Client Sample ID: Matrix Spike Duplicate** Lab Sample ID: 240-176843-D-5 MSD Matrix: Water Prep Type: Total/NA Analysis Batch: 553659 Sample Sample Spike MSD MSD %Rec RPD **Result Qualifier** Added Limits RPD Limit Analyte **Result Qualifier** Unit D %Rec 1,1-Dichloroethene 1.0 Ū 25.0 27.2 ug/L 109 56 - 135 4 26 cis-1,2-Dichloroethene 4.8 25.0 31.3 ug/L 106 66 - 128 5 14 Tetrachloroethene 1.0 U 25.0 24.2 ug/L 97 62 - 131 2 20 trans-1.2-Dichloroethene 0.74 J 25.0 23.2 90 15 ug/L 56 - 136 4 Trichloroethene 1.0 U 25.0 22.6 ug/L 90 61 - 124 2 15 Vinyl chloride 5.4 25.0 30.9 ug/L 102 43 - 157 4 24 MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 83 62 - 137 4-Bromofluorobenzene (Surr) 98 56 - 136 Toluene-d8 (Surr) 104 78 - 122 Dibromofluoromethane (Surr) 96 73 - 120 Method: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-553632/4 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Analysis Batch: 553632 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/28/22 16:04 MB MB Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 102 66 - 120 11/28/22 16:04 1 Lab Sample ID: LCS 240-553632/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 553632 Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 9.87 ug/L 99 80 - 122 LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 96 **Client Sample ID: Matrix Spike** Lab Sample ID: 240-176838-B-2 MS Prep Type: Total/NA Matrix: Water Analysis Batch: 553632 Sample Sample Spike MS MS %Rec **Result Qualifier** Added **Result Qualifier** Limits Analyte Unit D %Rec 1,4-Dioxane 2.0 U 10.0 9.65 ug/L 96 51 - 153

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

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	98		66 - 120									
_ Lab Sample ID: 240-1768	38-B-2 MSD					Client	Samp	le ID: N	latrix Spi	ke Dup	licate	
Matrix: Water									Prep Ty			
Analysis Batch: 553632										-		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	-
1,4-Dioxane	2.0	U	10.0	9.68		ug/L		97	51 - 153	0	16	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	102		66 - 120									-

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QC Association Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 553632

Lab Sample ID 240-176841-2	Client Sample ID MW-159S_111722	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-553632/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-553632/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-176838-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-176838-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
Analysis Batch: 5536	59				

Lab Sample ID 240-176841-1	Client Sample ID TRIP BLANK 181	Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batch
240-176841-2	MW-159S_111722	Total/NA	Water	8260D	
MB 240-553659/4	Method Blank	Total/NA	Water	8260D	
LCS 240-553659/3	Lab Control Sample	Total/NA	Water	8260D	
240-176843-D-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-176843-D-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Job ID: 240-176841-1

Matrix: Water

Lab Sample ID: 240-176841-1

Client Sample ID: TRIP BLANK_181 Date Collected: 11/17/22 00:00 Date Received: 11/19/22 08:00

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
I/NA	Analysis	8260D		1	553659	CS	EET CAN	11/29/22 08:10
Samp	ole ID: MW	-159S_11172	2				Lab	Sample ID:
ollected	1: 11/17/22 1	4:45						-
Received	I: 11/19/22 0	8:00						
	Batch	Batch		Dilution	Batch			Prepared

	Daten	Datch		Dilution	Datch			Fiepaieu
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	553659	CS	EET CAN	11/29/22 10:42
Total/NA	Analysis	8260D SIM		1	553632	CS	EET CAN	11/28/22 23:47

Laboratory References:

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

Eurofins Canton

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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

Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23	
Connecticut	State	PH-0590	12-31-23	
Florida	NELAP	E87225	06-30-23	
Georgia	State	4062	02-27-23	
Illinois	NELAP	200004	07-31-23	
lowa	State	421	06-01-23	
Kentucky (UST)	State	112225	02-27-23	
Kentucky (WW)	State	KY98016	12-31-22	
Minnesota	NELAP	039-999-348	12-31-22	
Minnesota (Petrofund)	State	3506	08-01-23	
New Jersey	NELAP	OH001	06-30-23	
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-27-23	
Ohio VAP	State	CL0024	02-27-23	
Oregon	NELAP	4062	02-27-23	
Pennsylvania	NELAP	68-00340	08-31-23	
Texas	NELAP	T104704517-22-17	08-31-23	
Virginia	NELAP	460175	09-14-23	
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	

MICHIGAN 190	Chain TestAmerica Laboratory location: Brighton — 10448 Citalio	Chain of Custody Record 10448 Citation Drive, Suite 2007 Brighton, MI 48116 / 810-229-2763	-2763	
Client Contact Company Name: Arradis	L	F NPDES F RCRA F Other		
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Nike DelMonico	TestAmerica Laboratories, Inc. COC No:
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240	Telephone: 248-994-2293	Telephone: 330-497-9396	
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Project Name: Ford LTP OIL-Site Project Number: 30146655,402.04	Sampler Name: [[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[V	Walk-in client Lab sampling
PO# 30146655,402.04	Shipping/Tracking No:	6 (X / N)	82608	Job/SDG No:
Sample Identification	Sample Date Sediment Solid Advens Advens Advens Solid Fine	Li 1-DCE 82600 Composite=C / Depres Depres Mach Mach Mach Mach Mach Mach Mach Mach	28 -1,2-DCE 82 Frans-1,2-DCE PCE 8260B FCE 826	Sample Specific Notes / Special Instructions:
P TRIP BLANK_ 101	22/±1/11	1 2	× × ×	1 Trip Blank
12L111 - 5651 - MW	14:45 6	L 26X	XXXXXX	3 VOAs for 8260B 3 VOAs for 8260B
		240-	240-176841 Chain of Custody	
Possible Hazard Identification Von-Hazard Contification	Tilant Poison B Linknown	Sample Ukposal (A fee may be assessed if samples are retained longer than 1 month Bennum China in the second of samples are retained longer than 1 month	ples are retained longer than 1 month)	
ions/QC Requirements & Comment ss: ults through Cadena at jtomalia(rting requested.		Blacon St	Archive For a Months	
Relinquished by: Relinquished by:	Company (55) Date/Time. Company ACCATTC JAPT Date/Time.	16:10 Received by 10101	Storage Company.	Date/Time: 11/17/22/b:10 Date/Time: 777 CP.11
Relinquishing by:		1002 Received in Laboratory by:	Company	22
00000. TestAmerica I aboratories. Inc. All rights reserved				

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Eurofins - Canton Sample Receipt Form/Narrative Login # : Barberton Facility	
Client ARCADIS Site Name Cooler unpacked by:	
Cooler Received on $11/19/22$ Opened on $11/19/22$ M- d. d.	
FedEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other	
Receipt After-hours: Drop-off Date/Time Storage Location	
Eurofins Cooler # E < 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 IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. 2.4 °C Corrected Cooler Temp. 3.1 °C	
IR GUN #IR-15 (CF 0.0°C) Observed Cooler Temp°C Corrected Cooler Temp°C 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity \No	_
 Were the seals on the outside of the cooler(s) signed & dated? Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottles arrive in good condition (Unbroken)? Were the custody condition (Unbroken)? 	22
12. Are these work share samples and all listed on the COC? Yes (No)	
If yes, Questions 13-17 have been checked at the originating laboratory.	
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC28679'	7
14. Were VOAs on the COC?	·
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA	
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 0104201G (Yes No 17. Was a LL Hg or Me Hg trip blank present? Yes (No	
Contacted PM Date by via Verbal Voice Mail Other	
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:	
	-
	-
	_
	_
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)	
	-
VOA Sample Preservation - Date/Time VOAs Frozen:	-

DATA VERIFICATION REPORT



December 06, 2022

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: 30146655.402.04 off-site Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory submittal: 176841-1 Sample date: 2022-11-17 Report received by CADENA: 2022-12-06 Initial Data Verification completed by CADENA: 2022-12-06 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.**

There were no significant QC anomalies or exceptions to report.

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 <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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.
E	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 - Barberton Laboratory Submittal: 176841-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401768 11/17/2	_ 3411			MW-159 2401768 11/17/2	_ 3412	22	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u>d0</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	
<u>OSW-8260</u>	DDSIM									
	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 # 240-176841-1 CADENA Verification Report: 2022-12-06

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 47918R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-176841-1 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:

O annual a ID	L-L D		Sample Collection	Devent Occursio	Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_181	240-176841-1	Water	11/17/2022		Х	
MW-159S_111722	240-176841-2	Water	11/17/2022		Х	Х

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
1. Sample receipt condition		Х		Х	
2. Requested analyses and sample results		Х		Х	
3. Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
9. Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
11. 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.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - 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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_181 MW-159S_111722	Initial Calibration Verification %D	1,1-Dichloroethene	+30.8%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
		Non-detect	R
	RRF <0.05		J
Initial and Continuing Calibration	RRF <0.01 ¹	Non-detect	R
Calibration	KRF <0.01	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

DATA REVIEW

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
	%RSD > 20% or a correlation coefficient	Non-detect	UJ
Initial Calibration	<0.99	Detect	J
	%RSD > 90%	Non-detect	R
	%R3D > 90%	Detect	J
	0/D > 200//(increases in consistivity)	Non-detect	No Action
	%D >20% (increase in sensitivity)	Detect	J
Continuing Colibration		Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D > 0.00/ (increase /decreases in consitivity)	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

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 is 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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM		orted		rmance eptable	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					1	
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		
lon 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		Х		
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

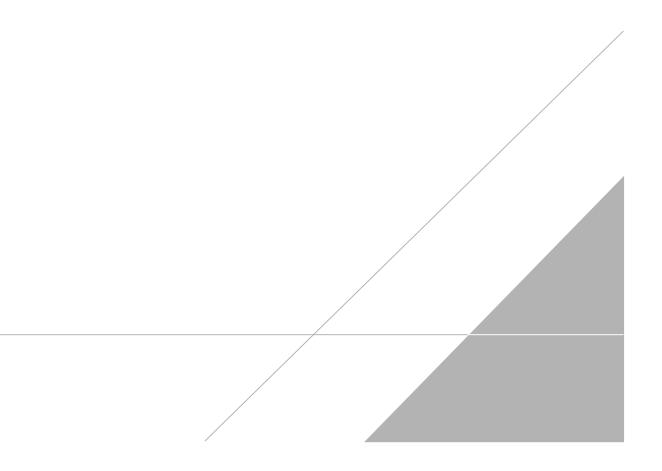
VALIDATION PERFORMED BY:	Hareesha Naik
SIGNATURE:	Habic
DATE:	December 12, 2022

PEER REVIEW: Andrew Korycinski

DATE: December 13, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record



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

Client Contact	Regulat	ory program:	:		E D	W		NPDE	s	Г	RCRA	r	Othe	er 🗌										
Address: 28550 Cabot Drive, Suite 500	Client Project N	Client Project Manager: Kris Hinskey							t: Chi	ristina	Weave	r		_	Lab Contact: Mike DelMonico								TestAmerica Laboratories, II COC No:	
	Telephone: 248	-994-2240					Telephone: 248-994-2293 T							Telephone: 330-497-9396										
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskev@ar	cadis.	com			A	Analysis Turnaround Time							_	_	A	nalys	65			_	1 of 1 COCs For lab use only	
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PO # 30146655.402.04	Shipping/Track	ing No:					1			2 da 1 da		Sample (Y / N)	/ Grab=	8	260B	E 8260B			8260B	260B SI				Job/SDG No:
			H		latrix	T		Contai	ners &	Prese	rvatives	Samp	site=C	8260	DCE 8	2-DCE	SOB	80B	loride	ane 8				
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment Solid	Other:	H2SO4	HN03	NaOH	ZnAc/ NaOH	Unpres Other:	Filtered	Composite=C / Grab=G	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1.2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1.4-Dioxane 8260B SIM				Sample Specific Notes / Special Instructions:
TRIP BLANK_ 131	11/17/22			1				1	I			N	G	X	X	Х	Х	Х	X					1 Trip Blank
MW-1595-111722	14/17/22	14:45		6					6			N	6	X	X	χ	X	γ	X	X				3 VOAs for 8260B 3 VOAs for 8260B SIM
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Possible Hazard Identification																								
Non-Hazard Flammable Skin I pecial Instructions/QC Requirements & Comments:	rritant Poiso	n B	Unkr	nown			Sal	Re	turn to	Clien	fee may t 🗸 🗸	De asses Dispe	sal By	Lab			ned lo		han I		h) onths			
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Qualifiers

Qualifier Description
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Indicates the analyte was analyzed for but not detected.
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
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
EPA recommended "Maximum Contaminant Level"
-

MDAMinimum Detectable Activity (Radiochemistry)MDCMinimum Detectable Concentration (Radiochemistry)

MDLMethod Detection LimitMLMinimum Level (Dioxin)MPNMost Probable NumberMQLMethod Quantitation Limit

 NC
 Not Calculated

 ND
 Not Detected at the reporting limit (or MDL or EDL if shown)

NEGNegative / AbsentPOSPositive / Present

PQLPractical Quantitation LimitPRESPresumptive

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

Client Sample ID: TRIP BLANK_181 Date Collected: 11/17/22 00:00 Date Received: 11/19/22 08:00

Lab Sample ID: 240-176841-1

Matrix: Water

5 6

8 9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/29/22 08:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/29/22 08:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 08:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/29/22 08:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 08:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/29/22 08:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					11/29/22 08:10	1
4-Bromofluorobenzene (Surr)	101		56 - 136					11/29/22 08:10	1
Toluene-d8 (Surr)	103		78 - 122					11/29/22 08:10	1
Dibromofluoromethane (Surr)	99		73 - 120					11/29/22 08:10	1

Eurofins Canton

Client Sample ID: MW-159S_111722 Date Collected: 11/17/22 14:45 Date Received: 11/19/22 08:00

Job ID: 240-176841-1

Lab Sample ID: 240-176841-2 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/28/22 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 120			-		11/28/22 23:47	1
Method: SW846 8260D - Vo	slatile Organic	Compoun	ds by 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			11/29/22 10:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/29/22 10:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 10:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/29/22 10:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 10:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/29/22 10:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137			-		11/29/22 10:42	1
4-Bromofluorobenzene (Surr)	98		56 - 136					11/29/22 10:42	1
Toluene-d8 (Surr)	102		78 - 122					11/29/22 10:42	1
Dibromofluoromethane (Surr)	97		73 - 120					11/29/22 10:42	1