PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 11/19/2024 11:59:23 PM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-214794-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

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 Environment Testing North Central, LLC Project Manager.

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

Laboratory Job ID: 240-214794-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-214794-1

Project/Site: Ford LTP

Qualifiers GC/MS VOA

Qualifier **Qualifier Description**

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

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

EPA recommended "Maximum Contaminant Level" MCL 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-214794-1 Eurofins Cleveland

Job Narrative 240-214794-1

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

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

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

Receipt

The samples were received on 11/13/2024 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 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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Job ID: 240-214794-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214794-1

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

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

Job ID: 240-214794-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-214794-1	TRIP BLANK_40	Water	11/08/24 00:00	11/13/24 08:00
240-214794-2	MW-174S_110824	Water	11/08/24 12:45	11/13/24 08:00

Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214794-1

Client Sample ID: TRIP BLANK_40

Lab Sample ID: 240-214794-1

No Detections.

No Detections.

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-214794-1

Project/Site: Ford LTP

Date Received: 11/13/24 08:00

Client Sample ID: TRIP BLANK_40

Lab Sample ID: 240-214794-1 Date Collected: 11/08/24 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			11/18/24 12:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/24 12:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 12:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/24 12:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 12:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/24 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		11/18/24 12:49	1
4-Bromofluorobenzene (Surr)	84		56 ₋ 136					11/18/24 12:49	1
Toluene-d8 (Surr)	92		78 - 122					11/18/24 12:49	1
Dibromofluoromethane (Surr)	100		73 - 120					11/18/24 12:49	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-214794-1

Project/Site: Ford LTP

Client Sample ID: MW-174S_110824

Lab Sample ID: 240-214794-2

Date Collected: 11/08/24 12:45 Matrix: Water Date Received: 11/13/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/18/24 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 127			-		11/18/24 12:08	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/18/24 13:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/24 13:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 13:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/24 13:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 13:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/24 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		11/18/24 13:09	1
4-Bromofluorobenzene (Surr)	87		56 ₋ 136					11/18/24 13:09	1
Toluene-d8 (Surr)	96		78 - 122					11/18/24 13:09	1
Dibromofluoromethane (Surr)	108		73 - 120					11/18/24 13:09	1

Surrogate Summary

Client: Arcadis US Inc.

Job ID: 240-214794-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery		
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-214794-1	TRIP BLANK_40	107	84	92	100	
240-214794-2	MW-174S_110824	116	87	96	108	
240-214799-C-2 MSD	Matrix Spike Duplicate	103	93	94	95	
240-214799-E-2 MS	Matrix Spike	105	94	94	99	
LCS 240-635623/4	Lab Control Sample	104	93	96	101	
MB 240-635623/7	Method Blank	113	91	96	102	

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	(68-127)	
240-214794-2	MW-174S_110824	102	
240-214803-A-5 MS	Matrix Spike	104	
240-214803-A-5 MSD	Matrix Spike Duplicate	105	
LCS 240-635649/5	Lab Control Sample	105	
MB 240-635649/7	Method Blank	103	
Surrogate Legend			

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

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Client: Arcadis US Inc. Job ID: 240-214794-1

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

Lab Sample ID: MB 240-635623/7

Matrix: Water Analysis Batch: 635623

Project/Site: Ford LTP

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

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 1.0 U 1.0 0.49 ug/L 11/18/24 11:09 1.0 U 1.0 0.46 ug/L 11/18/24 11:09

Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene 1.0 U Tetrachloroethene 1.0 0.44 ug/L 11/18/24 11:09 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/18/24 11:09 Trichloroethene 1.0 0.44 ug/L 11/18/24 11:09 1.0 U 1.0 11/18/24 11:09 Vinyl chloride 1.0 U 0.45 ug/L

MB MB %Recovery Qualifier Prepared Dil Fac Surrogate Limits Analyzed 62 - 137 1,2-Dichloroethane-d4 (Surr) 113 11/18/24 11:09 91 4-Bromofluorobenzene (Surr) 56 - 136 11/18/24 11:09 Toluene-d8 (Surr) 96 78 - 122 11/18/24 11:09 Dibromofluoromethane (Surr) 102 73 - 120 11/18/24 11:09

Lab Sample ID: LCS 240-635623/4

Matrix: Water

1,1-Dichloroethene

cis-1,2-Dichloroethene

Analyte

Analysis Batch: 635623

Client Sample ID: Lab Control Sample Prep Type: Total/NA 10

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 25.0 29.5 ug/L 118 63 - 134 25.0 26.6 ug/L 106 77 - 123 25.0 27.4 ug/L 109 76 - 123

Tetrachloroethene trans-1,2-Dichloroethene 25.0 28.6 114 75 - 124 ug/L 25.0 102 Trichloroethene 25.6 ug/L 70 - 122 Vinyl chloride 12.5 9.12 ug/L 73 60 - 144

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	93		56 ₋ 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-214799-C-2 MSD

Matrix: Water

Analysis Batch: 635623

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

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	27.0		ug/L		108	56 - 135	0	26
cis-1,2-Dichloroethene	1.0	U	25.0	25.3		ug/L		101	66 - 128	2	14
Tetrachloroethene	1.0	U	25.0	24.4		ug/L		97	62 - 131	3	20
trans-1,2-Dichloroethene	1.0	U	25.0	26.1		ug/L		105	56 - 136	4	15
Trichloroethene	1.0	U	25.0	23.7		ug/L		95	61 - 124	3	15
Vinyl chloride	1.0	U	12.5	9.63		ug/L		77	43 - 157	1	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 _ 137
4-Bromofluorobenzene (Surr)	93		56 ₋ 136
Toluene-d8 (Surr)	94		78 - 122

Eurofins Cleveland

Client: Arcadis US Inc. Job ID: 240-214794-1 Project/Site: Ford LTP

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

Lab Sample ID: 240-214799-C-2 MSD

Matrix: Water

Analysis Batch: 635623

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 95 73 - 120

Lab Sample ID: 240-214799-E-2 MS

Matrix: Water

Analysis Batch: 635623

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

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,1-Dichloroethene 1.0 U 25.0 27.0 ug/L 108 56 - 135 cis-1,2-Dichloroethene 1.0 U 25.0 25.7 103 66 - 128 ug/L Tetrachloroethene 1.0 U 25.0 25.0 ug/L 100 62 - 131 trans-1.2-Dichloroethene 27.1 1.0 U 25.0 ug/L 108 56 - 136 Trichloroethene 1.0 U 25.0 24 4 ug/L 98 61 - 124 Vinyl chloride 1.0 U 12.5 9.56 ug/L 76 43 - 157

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

Lab Sample ID: MB 240-635649/7

Matrix: Water

Analysis Batch: 635649

Client Sample ID: Method Blank

Prep Type: Total/NA

MR MR Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/18/24 11:21 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 103 68 - 127 11/18/24 11:21

Lab Sample ID: LCS 240-635649/5

Analyte

Surrogate

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 635649 Spike LCS LCS %Rec

Result

Qualifier

Unit

Added

Limits

68 - 127

1,4-Dioxane 10.0 8.34 ug/L LCS LCS %Recovery

Qualifier

105

Lab Sample ID: 240-214803-A-5 MS

Matrix: Water

Analysis Batch: 635649

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: Matrix Spike

%Rec

83

Limits

75 - 121

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 0.92 J 10.0 9.85 ug/L 89 20 - 180

Eurofins Cleveland

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-214794-1

Project/Site: Ford LTP

MSD MSD Result Qualifier

8.91

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		68 - 127

-	
Lab Sample ID	: 240-214803-A-5 MSD

Matrix: Water

Analysis Batch: 635649

	Sample	Sample	Spike
Analyte	Result	Qualifier	Added
1,4-Dioxane	0.92	J	10.0
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		68 - 127

Client Sample ID: Matrix Spike Duplicate

D

Unit

ug/L

Prep Type: Total/NA

RPD Limits RPD Limit %Rec 80 20 - 180

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214794-1

GC/MS VOA

Analysis Batch: 635623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214794-1	TRIP BLANK_40	Total/NA	Water	8260D	
240-214794-2	MW-174S_110824	Total/NA	Water	8260D	
MB 240-635623/7	Method Blank	Total/NA	Water	8260D	
LCS 240-635623/4	Lab Control Sample	Total/NA	Water	8260D	
240-214799-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-214799-E-2 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 635649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214794-2	MW-174S_110824	Total/NA	Water	8260D SIM	
MB 240-635649/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-635649/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-214803-A-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-214803-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-214794-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_40

Lab Sample ID: 240-214794-1 Date Collected: 11/08/24 00:00

Matrix: Water

Date Received: 11/13/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	635623	LEE	EET CLE	11/18/24 12:49

Client Sample ID: MW-174S_110824 Lab Sample ID: 240-214794-2

Date Collected: 11/08/24 12:45 Matrix: Water

Date Received: 11/13/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	635623	LEE	EET CLE	11/18/24 13:09
Total/NA	Analysis	8260D SIM		1	635649	R5XG	EET CLE	11/18/24 12:08

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.

Project/Site: Ford LTP

Job ID: 240-214794-1

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	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Ilinois	NELAP	200004	08-31-25
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
/irginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24

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MICHIGAN 190

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<u>TestAmerico</u>

Chain of Custody Record

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

Client Contact	Regular	ory program:		Г	DW	ſ	NP.	DES		RC	RA	_ C	ther						_							
Company Name: Arcadis	Client Businet	Manager: Kris	Winskay			le:	ta Cor	tost	Chris	tina We				It a	h Cont	act: M	like De	lMonic						estAmerica I	aborato	ries, In
Address: 28550 Cabot Drive, Suite 500			rinskey				elepho				aver						-497-93						4			
City/State/Zip: Novi, MI, 48377	Telephone: 248					ľ				round 1	vices.			1,6	epnon	e: 330-		naly	000				_	1 of 1	co	Cs
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.con	n							Line.			Т	Т	T	T	thaty:	ics							
Project Name: Ford LTP	Sampler Name	Join	N /	NJ	110	T	AT if di	fferent f	□ 3	weeks			2											Valk-in client		
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			Air	Sediment	Solid Other:		HZSO4 HNO3	HCI	NaOH ZnAc/	NaOH Unpres	Other:	Filtered Sample (Y / N)	Composite=C/C	Cie. 1 2.DCE	Trans-1.2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample S _l Special I	ecific No	
Sample Identification	Sample Date	Sample Time		×	ığ c	: :	===	=	Z Z	12 =	0		_	╤	#	╅		+		-	\vdash	\Rightarrow	╪			_
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MU-1745_110824	11108124	12:45	0)				6				N	1 >	< ;	/	Y >	X	X	X				\perp	3 VOAs fo 3 VOAs fo		
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Possible Hazard Identification Non-Hazard Plammable cin Irritant	Poiso	on B	Jnknov	vn	<u> </u>		Samp		posal rn to C		may be a	issesse Disposal					longer ve For			onths						
Special Instructions/QC Requirements & Comments:	K Ro	Stan Por	34 5	do	-4	401		5 5																		
Submit all results through Cadena at jtomalia@cadenaco.c	com. Cadena #				(_																			
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	VUA Sample Preservation - Date/I ime VUAs Frozen.
	The breative Theory tentral adva(s) addamped to manner(s).
	Sample(s)were further preserved in the laboratory Time preserved
	20. SAMPLE PRESERVATION
	Sample(s) were received with bubble >6 mm in diameter (Notify PM)
	19 SAMPLE CONDITION were received after the recommended holding time had expired. Sample(s) Sample(s)
	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
L	Concerning
	Contacted PM Date by via Verbal Voice Mail Other
	Was a VOA trip blank present in the cooler(s)? Trip Was a LL Hg or Me Hg trip blank present?
	13 Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? 15. Were air hubbles >6 mm in any VOA viale? 16. I arrest than this Vox VED NA
	ting laboratory
	11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC?
	9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)? 10 Were correct bottle(s) used for the test(s) indicated?
 	Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (III/Date/Time) be recognifed with the COO?
	Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC?
	y ig S
	r bottle kits (LLHg/MeHg)? promised? Yes No NA
,	1
	+0/°C) Observed Cooler
	vet Ice Blue Ice Dry Ice Water None on receipt ,
<u></u>	Packing material used. Bubble Wrap Foam Plastic Bag None Other
<u></u>	urs Drop-off Date/Time Storage Location
	Cooler Received on //-/3-3 \ Opened on //-/3-3 \ FedEx: 1st Grd Exp UPS FAS Waypoint Chent Drop Off Eurofins Courier Other
	tient (CHL) Site Name Cooley papacked by
estration (2)	AS — Cleveland Sample Receipt Korm/Narrative — Login # ;
•	

Page 19 of 20

11/13/2024

Login Container Summary Report

240-214794

11/15/2024	Logir	Login Container Summary Report	a	240-214/94	·	/2024
Temperature readings.	The second secon					11/19
Client Sample ID	<u>Lab ID</u>	Container Type	Container pH Temp	Preservation Preservation Added Lot Number	to a thing	,
TRIP BLANK_40	240-214794-A-1	Voa Vial 40ml - Hydrochloric Acid	- Contraction of the Contraction	The state of the s	american	
MW-174S_110824	240-214794-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-174S_110824	240-214794-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-174S_110824	240-214794-C-2	Voa Vial 40ml - Hydrochloric Acıd	**************************************			
MW-174S_110824	240-214794-D-2	Voa Vial 40ml - Hydrochloric Acid		+ manufacture and the second and the		
MW-174S_110824	240-214794-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-174S_110824	240-214794-G-2	Voa Vial 40ml - Hydrochloric Acid		The state of the s	AMA A A A A A A A A A A A A A A A A A A	

Page 1 of 1

DATA VERIFICATION REPORT



November 20, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.0401.04_WA-03

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

Laboratory submittal: 214794-1 Sample date: 2024-11-08

Report received by CADENA: 2024-11-20

Initial Data Verification completed by CADENA: 2024-11-20

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 http://clms.cadenaco.com/index.cfm.

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.
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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 214794-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 240214 11/8/20	7941			MW-174 240214 11/8/20		24	
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier	Docult	Report		Valid
	Allatyte	Gas No.	nesuli	Lillin	Ullits	Qualifier	nesuli	Lillin	Ullita	Quaumen
GC/MS VOC										
OSW-8260	<u>0D</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 # 240-214794-1

CADENA Verification Report: 2024-11-20

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56923R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-214794-1 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	Analysis			
Sample ID	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM		
TRIP BLANK_40	240-214794-1	Water	11/08/2024		X			
MW-174S_110824	240-214794-2	Water	11/08/2024		X	X		

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep	Not Required	
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
Master tracking list		Х		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		Х	
6. Sample collection date		X		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		X		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

Rep	orted			Not Required
No	Yes	No	Yes	Required
C/MS)				
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
X				Х
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	X		Х	
	Х		Х	
	No C/MS)	X X X X X X X X X X X X X X X X X X X	Reported Acce No Yes No C/MS) X X X X X X X X X X X X X	No Yes No Yes

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 16, 2024

PEER REVIEW: Andrew Korycinski

DATE: December 19, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

2.8/2.9 1/8

<u>TestAmerica</u>

	TestAmerica Labora	itory location:	Brig	nton —	10448	Citatio				/ Brig	ghton	, MI 48	116	810-	229-2	763									THE	E LEADER IN ENVIRON	IMENTAL	TESTING
Client Contact	Regular	tory program:			DW		m N	PDES	i		RCF	ŁA .		Other												TestAmerica Lab	hawatawi	in Inc
Company Name: Arcadis	Client Project	Manager: Kris	Hinsk	ey			Site Co	ontact	t: Chr	istin:	a We	aver				Lab Co	ntaci	: Mik	e Del	Monic	0					COC No:	огатогі	les, the
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240					Telent	one:	248-9	94-22	240				\dashv	Teleph	one: 3	330-49	7-939	06			_		\dashv			
City/State/Zip: Novi, MI, 48377								Telephone: 248-994-2240 Tel Analysis Turnaround Time										00				_	1 of 1 COCs					
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	com			- ^,						Analyses							For lab use only								
Project Name: Ford LTP	Sampler Name			M	101	-	TAT if	differen			aake															Walk-in client		
		Jerem	1][[1613	7	10	3 weeks 10 day 2 weeks									Lab sampling	AL	_									
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:	1							1 wo			Z	ğ	i		9			٥	SIM							
PO # US3410018772	Shipping/Track	cing No:				2 days 1 day Containers & Preservatives				C/Gral	30D	8260D	CE 826			le 8260	8260D					Job/SDG No:						
			- 1		atrix	ı.	П						Filtered San	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample Spec		
Sample Identification	Sample Date	Sample Time	A ir	Aqueous Sediment	Solid	ě	H2SO4	S U	NaO	ZnAc	Unpres	Other:	File	Con	<u></u>	cis-1	Tran	PCE	TCE	Viny	1.4-					Special Inst	ructions	.:
TRIP BLANK_ 40				1				1					Ν	G	х	x	Х	х	X	Х						1 Trip Blan	ık	
MU-1745_110824	11108124	12:45		6				()				N	y	X	X	X	×	X	X	X	1				3 VOAs for 8 3 VOAs for 8		SIM
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Possible Hazard Identification Non-Hazard Planmable cin l	rritant Poisc	on B	Ink	nown			San		ispos turn to			nay be a				es are i		ed lon		han 1		onths						
Special Instructions/QC Requirements & Comments:	C/C B	Ston Pos		C.A.	o'	in Cal		- Ku	<u> </u>	Circ			713PO3	u. Dy	Lau		7.0	CIIIVC	. 01			Ontais						
Submit all results through Cadena at jtomalia@cader Level IV Reporting requested.	aco.com. Cadena #B	1) 101 1	14	-	l	1		33																				
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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-214794-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

 Qualifier
 Qualifier Description

 U
 Indicates the analyte was analyzed for but not detected.

Glossary

Cioodary	
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

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-214794-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_40

Lab Sample ID: 240-214794-1

Date Collected: 11/08/24 00:00 **Matrix: Water** Date Received: 11/13/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/18/24 12:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/24 12:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 12:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/24 12:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 12:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/24 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			_		11/18/24 12:49	1
4-Bromofluorobenzene (Surr)	84		56 ₋ 136					11/18/24 12:49	1
Toluene-d8 (Surr)	92		78 - 122					11/18/24 12:49	1
Dibromofluoromethane (Surr)	100		73 - 120					11/18/24 12:49	1

Client Sample ID: MW-174S_110824 Lab Sample ID: 240-214794-2

Date Collected: 11/08/24 12:45 Date Received: 11/13/24 08:00

Method: SW846 8260D SIM - \	/olatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/18/24 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 127			_		11/18/24 12:08	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 127			=		11/18/24 12:08	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/18/24 13:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/24 13:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 13:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/24 13:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 13:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/24 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137			-		11/18/24 13:09	1
4-Bromofluorobenzene (Surr)	87		56 - 136					11/18/24 13:09	1
Toluene-d8 (Surr)	96		78 - 122					11/18/24 13:09	1
Dibromofluoromethane (Surr)	108		73 - 120					11/18/24 13:09	1

Matrix: Water