PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 3/19/2024 7:21:44 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200743-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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

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

Authorization

Generated 3/19/2024 7:21:44 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396

Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200743-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200743-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

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

Job ID: 240-200743-1 Eurofins Cleveland

Job Narrative 240-200743-1

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 3/8/2024 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 2.3°C and 3.3°C.

GC/MS VOA

Method 8260D_SIM: An MS/MSD was prepared and analyzed with batch 240-605892, but is not reported due to the MS sample having a bad purge.

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 U.S., Inc.

Job ID: 240-200743-1

Project/Site: Ford LTP - Off Site

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 U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-200743-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200743-1	TRIP BLANK_75	Water	03/06/24 00:00	03/08/24 08:00
240-200743-2	MW-111S_030624	Water	03/06/24 11:35	03/08/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200743-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_75 Lab Sample ID: 240-200743-1

No Detections.

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200743-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_75

Lab Sample ID: 240-200743-1 Date Collected: 03/06/24 00:00

Matrix: Water

Date Received: 03/08/24 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			03/15/24 13:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/15/24 13:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/15/24 13:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/15/24 13:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/15/24 13:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/15/24 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			_		03/15/24 13:01	1
4-Bromofluorobenzene (Surr)	90		56 ₋ 136					03/15/24 13:01	1
Toluene-d8 (Surr)	100		78 - 122					03/15/24 13:01	1
Dibromofluoromethane (Surr)	96		73 - 120					03/15/24 13:01	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200743-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-111S_030624

Lab Sample ID: 240-200743-2 Date Collected: 03/06/24 11:35

Matrix: Water

Date Received: 03/08/24 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			03/13/24 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			_		03/13/24 12:19	1
Method: SW846 8260D - Volat Analyte	Result	Qualifier	RL	MDL		<u>D</u> _	Prepared	Analyzed	Dil Fac
	•	Qualifier		MDL 0.49		<u>D</u> -	Prepared	Analyzed 03/15/24 15:56	Dil Fac
Analyte	Result	Qualifier U	RL	0.49		<u>D</u> .	Prepared	- <u> </u>	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U U		0.49 0.46	ug/L	<u> </u>	Prepared	03/15/24 15:56	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u> -	Prepared	03/15/24 15:56 03/15/24 15:56	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	<u>D</u> .	Prepared	03/15/24 15:56 03/15/24 15:56 03/15/24 15:56	Dil Fac 1 1 1 1 1

1,2-Dichloroethane-d4 (Surr) 107 62 - 137 03 4-Bromofluorobenzene (Surr) 91 56 - 136 03 Toluene-d8 (Surr) 97 78 - 122 03						3			
4-Bromofluorobenzene (Surr) 91 56 - 136 03. Toluene-d8 (Surr) 97 78 - 122 03.	Su	urrogate %R	ecovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr) 97 78 - 122 03.	1,2	2-Dichloroethane-d4 (Surr)	107		62 - 137			03/15/24 15:56	1
	4-1	Bromofluorobenzene (Surr)	91		56 ₋ 136			03/15/24 15:56	1
Dibromofluoromethane (Surr) 100 73 - 120 03.	То	luene-d8 (Surr)	97		78 - 122			03/15/24 15:56	1
	Di	bromofluoromethane (Surr)	100		73 - 120			03/15/24 15:56	1

3/19/2024

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-200743-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

_				D 4 O	B
				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-200743-1	TRIP BLANK_75	103	90	100	96
240-200743-2	MW-111S_030624	107	91	97	100
240-200774-B-6 MS	Matrix Spike	103	104	101	100
240-200774-B-6 MSD	Matrix Spike Duplicate	103	105	102	99
LCS 240-606244/5	Lab Control Sample	99	106	103	96
MB 240-606244/7	Method Blank	104	91	101	97

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)	
240-200743-2	MW-111S_030624		
LCS 240-605892/5	Lab Control Sample	109	
MB 240-605892/7	Method Blank	107	

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

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Job ID: 240-200743-1

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

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

Lab Sample ID: MB 240-606244/7

Matrix: Water

Analysis Batch: 606244

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			03/15/24 12:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/15/24 12:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/15/24 12:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/15/24 12:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/15/24 12:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/15/24 12:36	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 03/15/24 12:36 104 4-Bromofluorobenzene (Surr) 91 56 - 136 03/15/24 12:36 03/15/24 12:36 Toluene-d8 (Surr) 101 78 - 122 Dibromofluoromethane (Surr) 97 73 - 120 03/15/24 12:36

Lab Sample ID: LCS 240-606244/5

Matrix: Water

Analysis Batch: 606244

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	25.0	21.7		ug/L		87	63 - 134	
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	77 - 123	
Tetrachloroethene	25.0	24.2		ug/L		97	76 - 123	
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	75 - 124	
Trichloroethene	25.0	23.4		ug/L		94	70 - 122	
Vinyl chloride	12.5	12.4		ug/L		99	60 - 144	

LCS LCS Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 99 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 106 78 - 122 Toluene-d8 (Surr) 103 73 - 120 Dibromofluoromethane (Surr) 96

Analysis Batch: 606244

Lab Sample ID: 240-200774-B-6 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	
cis-1,2-Dichloroethene	1.0	U	25.0	24.1		ug/L		97	66 - 128	
Tetrachloroethene	1.0	U	25.0	23.5		ug/L		94	62 - 131	
Trichloroethene	1.0	U	25.0	23.1		ug/L		92	61 - 124	
Vinyl chloride	1.9		12.5	11.8		ug/L		79	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	104		56 ₋ 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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Client: Arcadis U.S., Inc. Job ID: 240-200743-1

Project/Site: Ford LTP - Off Site Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-200774-B-6 MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water**

Analysis Batch: 606244

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
cis-1,2-Dichloroethene	1.0	U	25.0	23.8		ug/L	_	95	66 - 128	1	14	
Tetrachloroethene	1.0	U	25.0	22.7		ug/L		91	62 - 131	4	20	
Trichloroethene	1.0	U	25.0	22.3		ug/L		89	61 - 124	3	15	
Vinyl chloride	1.9		12.5	14.7		ug/L		102	43 - 157	22	24	

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

Lab Sample ID: MB 240-605892/7

Matrix: Water

Analysis Batch: 605892

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

ug/L

Analyte Result Qualifier RLMDL Unit Prepared Analyzed 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/13/24 10:20

MB MB

мв мв

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 68 - 127 1,2-Dichloroethane-d4 (Surr) 03/13/24 10:20 107

Lab Sample ID: LCS 240-605892/5

Matrix: Water

1,4-Dioxane

Analysis Batch: 605892			
	Spike	LCS LCS	%Rec
Analysta	Addad	Popult Qualifier Unit	D % Poc Limits

8.28

10.0

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 109 68 - 127

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

75 - 121

Prep Type: Total/NA

QC Association Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200743-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 605892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200743-2	MW-111S_030624	Total/NA	Water	8260D SIM	
MB 240-605892/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605892/5	Lab Control Sample	Total/NA	Water	8260D SIM	

Analysis Batch: 606244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200743-1	TRIP BLANK_75	Total/NA	Water	8260D	<u> </u>
240-200743-2	MW-111S_030624	Total/NA	Water	8260D	
MB 240-606244/7	Method Blank	Total/NA	Water	8260D	
LCS 240-606244/5	Lab Control Sample	Total/NA	Water	8260D	
240-200774-B-6 MS	Matrix Spike	Total/NA	Water	8260D	
240-200774-B-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200743-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_75

Lab Sample ID: 240-200743-1 Date Collected: 03/06/24 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 606244 CDG EET CLE 03/15/24 13:01 Analysis

Client Sample ID: MW-111S_030624 Lab Sample ID: 240-200743-2

Date Collected: 03/06/24 11:35 **Matrix: Water**

Date Received: 03/08/24 08:00

Date Received: 03/08/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	606244	CDG	EET CLE	03/15/24 15:56
Total/NA	Analysis	8260D SIM		1	605892	MDH	EET CLE	03/13/24 12:19

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 240-200743-1 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	Expiration Date		
California	State	2927	02-27-24 *		
Illinois	NELAP	200004	07-31-24		
lowa	State	421	06-01-25		
Kentucky (WW)	State	KY98016	12-30-24		
Minnesota	NELAP	039-999-348	12-31-24		
New Jersey	NELAP	OH001	06-30-24		
New York	NELAP	10975	04-01-24		
Oregon	NELAP	4062	02-27-25		
Pennsylvania	NELAP	68-00340	08-31-24		
Texas	NELAP	T104704517-22-19	08-31-24		
USDA	US Federal Programs	P330-18-00281	01-05-27		
Virginia	NELAP	460175	09-14-24		
West Virginia DEP	State	210	12-31-24		

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

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Chain of Custody Record

TestAmeri	C	
THE LEADER IN ENVIRONMENTAL	TEST	INC

1	estAmerica Labora	tory location:	Brigh	ton —	10448	B Citatio	on Driv	/e, S	Suite 2	200 / E	Brighto	n, MI 4	3116	/810	-229-:	2763									THI	E LEADER IN ENVIRONMENTAL TE	STING
Client Contact	Regulat	ory program:	:	٢	- DW	,	Γ	NPI	DES	1	RC	RA	_	Othe	er 📗												_
Company Name: Arcadis	Client Project I	Manager: Kris	Hinske	·v	_		Site	Con	tact: (Christ	ina W	сачег				Lab (ontac	t: Mil	ce Del	Monic	0					TestAmerica Laboratories COC No:	Inc.
Address: 28550 Cabot Drive, Suite 500							Tala		24	9 00 4	22.40					Talan	bono.	330 4	97-93	0.6							
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240							ne: 24							retep	none.	330-4								1 of 1 COCs	=
hone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.c	om				Ana	lysis l	urnar	ound	l'ime'	-		-	_			A	nalys	es					For lab use only	
	Sampler Name: TAT if different from below																										
Project Name: Ford LTP Off-Site	Lottio	- Jay					1	0 da	av		weeks weeks															Lab sampling	-
roject Number: 30167538.402.04	Method of Ship						1		•		week days		E	Ö			Q				SIM						
O#30167538.402.04	Shipping/Track	ing No:					1			_ i			3	Grab		G09	826(12601	G09					Job/SDG No:	
	_			M	atrix	-		Cor	ntalner	s & Pr	user val	ives	- da)	260E	E 82	DCE	0		ide 8	e 82						
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H2SO4	HNO3	HCI	NaOH	NaOH	Other:	Filtered Sample (Y I N)	Composite=C/Grab=G	1,1-DCE 8260D	ds-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample Specific Notes / Special Instructions:	
TRIP BLANK_ 75			П	1			П		1				N	G	Х	Х	Х	Х	Х	Х						1 Trip Blank	
MW-1115-030624	316/24	1135	П	6					C				N	کا	Χ	Х	X	Х	X	X	X					3 VOAs for 8260D 3 VOAs for 8260D SI	М
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			П	\top	T		П	Г	П	T	1	†						-									
Possible Hazard Identification Non-Hazard Flammable Skin	rritant Pois	<u> </u>	Unk			1	s	amp	le Dis Retur	posal	(A fee	may be	asses: Dispos	sed if	samp	les ar	retai	ned lo	nger i	han 1	month	onths					
special Instructions/QC Requirements & Comments:	rritarit Pols	m B	Unid	IOWIL			_	,	Reun	n to C	nent	-	Dispoi	шъу	Lao			LCIUV	roii		IVE	Onuis	_				
ample Address: 12051 Stark Rd ubmit all results through Cadena at Itomaila@cader	one one Codena	E202624																									
evel IV Reporting requested.	iaco.com. Cadena i	ME203631																									
telinquiahed by: Lothe Jay / Latur	Company.	tols		Date/T	ime:	1	14	30	5	Receiv	ved by: SOJ i	Col	20.5	570	RAI	ЗÉ			Com	any:	AD	15				Date/Time: 3/6/24 1430)
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Relinquished by:	Company			Date T	124	,	KU			Receiv	ved in	Labora	ory b	y:	=	-			Com	oany:	7	N	^			DataClime: SIBIDY 8	.CE

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VOA Sample Preservation - Date/Lime VOAs Prozen
Sample(s) were further preserved in the laboratory Time preserved Preservative(s) added/Lot number(s)
20 SAMPLE PRESERVATION
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)
18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
iting laboratory apt? Larger than this ank Lot # 62014
7 Did all bottles arrive in good condition (Unbroken)? 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9 For each sample, does the COC specify preservatives (DN), # of containers (DN), and sample type of grab/comp(DN)? 10 Were correct bottle(s) used for the test(s) indicated? 11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC?
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? Yes Was/were the person(s) who collected the samples clearly identified on the COC?
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -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?
n receipt (CF) °C) Observed Cooler Temp
Burofins Cooler # C Foam Box Client Cooler Box Other Packing material used Bubble Wran Plastic Bao None Other
xp / UPS FAS Waypoin Chent Drop Off E
Client HCall'S Site Name Cooler Received on 3/8/24 Opened on 3/8/24 Cooler Received on 3/8/24
reland Sample Receipt Form/Narrative Login #, := Login

RC Clerk Jan Other RGPN F	Clerid Lex Other	Clerk Box Other	Cital Bex Offer	Clear Per Other	CARRE SON OWNER	Company Company		EC Clerk los Offer MONE:	RC Clerk Base Other R GHILE:	EC Clerk Best Diller MGRH 5:	EC Clair Sex Other MGPME	IC Class Jan Other ROOM!	BC CHARL FOX OHLY WERE	PC Clear Sex Other MCFH #:	RC Clear Fee: Other MGHI4:	BC Close For Other MONEY	EC Client Fox Other REGINE	EC Class Sex Other MONEY	NC CHIEF BOX ORNET MODELET	EC Client Box Office Merkets	BC Clerk Bar Other REGENE:	EC Clerk Sex Offer M. GAN 61	EC Client Sex Other R GHI E:	IC Clerk Sur Other M. GEN 8:	EC Clert Sox Office M GEN &:	EC Clerk for Other MONE	IC Clerk Box Other MIGHN F:	EC Clerk lox Other M.GUN.4:	IC Clerk tex Offer RGINT	EC Clent lox OWN RGUNE	IC Clent Box Office R GUN #	IC Clent Box Other RGUNE	(19 Clant sox Other IRGUNA	(IC) Clent lox Other IR GUN 8;	Cooler Description (Circle)
												ricin may								f:	*		7	**			ß.	4 ;		\$: 			** 77 \ 2.3	3.3	IR Gun # Observed Corrected (Circle) Temp °C Temp °C
Wellice Meetice Brytise	Welke Meke Byke With	Welker New Dry in	Wellice Steelice Dry in	Welce Seeks Dyks	Marie and and the second	White Hose	Walter Hone Daylor	Well to Bee to By to	Wet ice Blue ice Dy to	Weller Merice Bytes	White She by to Water Mane	Welke Neeke Byks	Well be Blue her By be	Weller She ke by he	Wellow Market Byles	Weller State of the Miles	Welley Shee Sight State	Weller Short before at the	Wellto Ske Sca Byles	Ministra and feet and feet	Storice Storice by the	Well to Mee Ke By to	Welks the ke light	Weller Shelte Min	Well a great and a second	Mydice divedos Byte	Welce She ice By k	Welle Hee Ice Dyk	Welke Block by	Welke Shieke Ryke Wolff More	Melice show he are		S	Net Ce	Corrected Coolant Temp °C (Circle)

WI-NC-089 Cooler Receipt Form Page ? Multiple Codes

DATA VERIFICATION REPORT



March 19, 2024

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

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

Laboratory submittal: 200743-1 Sample date: 2024-03-06

Report received by CADENA: 2024-03-19

Initial Data Verification completed by CADENA: 2024-03-19

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 605892 did not include MS/MSD analysis results due to a bad purge on the instrument according to the laboratory submittal case narrative.

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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200743-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402007 3/6/2024	431			MW-111 2402007 3/6/2024	7432	4	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>60D</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-826	60DSIM									
	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 # 240-200743-1

CADENA Verification Report: 2024-03-19

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53396R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200743-1 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_75	240-200743-1	Water	03/06/2024		Х	
MW-111S_030624	240-200743-2	Water	03/06/2024		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		X		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 (preserved)7 days from collection to analysis (unpreserved)	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	oorted		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		X		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	X				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		X		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: March 26, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 3, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Client Contact

Company Name: Arcadis

Address: 28550 Cabot Drive, Suite 500

City/State/Zip: Novi, MI, 48377

Phone: 248-994-2240

Project Name: Ford LTP Off-Site
Project Number: 30167538.402.04

TRIP BLANK_ 75 MW-1115_630624

PO#30167538.402.04

5/15

TestAmerica

Chain of Custody Record

Regula	tory program:	:			DW		1	NPD	E.S		1 1	RCR	A	1	Oth	ier											TestAmerica Laboratories
Client Project	Manager: Kris	Hinsl	key				Site	Cont	ect:	Chri	stina	Wear	ver				Lab	Conta	ct: Mi	ke De	Monic	:0					COC No:
Telephone: 248	-994-2240						Tele	phon	e: 24	48-99	94-224	ŧ0					Tele	phone	330-	197-93	96						
Email: kristoff	er.hinskey@ar	cadis	.com		_			Analy	313	Turn	агоиг	d I ir	me				<u> </u>			7	naly:	ies					1 of 1 COCs For lab use only
Sampler Name	= Jay							irdine O day		ا <u>ت</u> _	3 wee 2 wee	eks															Walk-in client Lab sampling
Method of Ship Shipping/Track				_							1 wee 2 day 1 day	*		ple (Y/N)	J/Grab-G	Q	8260D	CE 8260D			e 8260D	8260D SIM					Job/SDG No:
Sample Date	Sample Time	Alr	100	Mai		Other:	H2SO4				Preser HO'N	Unpres		Filtered Sample (Y I N)	Composite=C/Grab=G	1,1-DCE 8260D	ds-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D					Sample Specific Notes / Special Instructions:
		П	1					П	1					N	G	X	Х	X	Х	×	X						1 Trip Blank
316/24	1135		6						C					N	کا	X	Х	X	X	X	X	X					3 VOAs for 8260D 3 VOAs for 8260D SI
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Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client
Disposal By Lab

Archive For Mor

ARCADIS

Relinquished by:

Company:

Company:

Madis 31114 1530 Received by:

Received in Laboratory by:

□ Unknown

3/6/24

1430

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Possible Hazard Identification

Level IV Reporting requested

Flammable

Submit all results through Cadena at Itomalia@cadenaco.com. Cadena #E203631

Special Instructions/QC Requirements & Comments:

Sample Address: 12051 Stark Rd

Skin Irritant

Poison B

ARCADIS

▼ Non-Hazard

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200743-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_75 Lab Sample ID: 240-200743-1

Date Collected: 03/06/24 00:00 **Matrix: Water** Date Received: 03/08/24 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			03/15/24 13:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/15/24 13:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/15/24 13:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/15/24 13:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/15/24 13:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/15/24 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			•		03/15/24 13:01	1
4-Bromofluorobenzene (Surr)	90		56 ₋ 136					03/15/24 13:01	1
Toluene-d8 (Surr)	100		78 - 122					03/15/24 13:01	1
Dibromofluoromethane (Surr)	96		73 - 120					03/15/24 13:01	1

Client Sample ID: MW-111S_030624 Lab Sample ID: 240-200743-2

Date Collected: 03/06/24 11:35 Date Received: 03/08/24 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Method: SW846 8260D SIM	I - Volatile Orga	anic Comp	ounds (GC/N	1S)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/13/24 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	111		68 - 127			-		03/13/24 12:19	1

- 1,2-Dichioloethane-d+ (Sull)	111		00 - 121					03/13/24 12.19	,
- Method: SW846 8260D - Vo	latile Organic	Compoun	ds by GC/MS						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/15/24 15:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/15/24 15:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/15/24 15:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/15/24 15:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/15/24 15:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/15/24 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/15/24 15:56	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					03/15/24 15:56	1

78 - 122

73 - 120

97

100

03/15/24 15:56

03/15/24 15:56

Matrix: Water