PREPARED FOR

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

Generated 8/7/2024 7:50:33 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208613-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 8/7/2024 7:50:33 AM

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

Page 2 of 20

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

Laboratory Job ID: 240-208613-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

4

6

8

46

11

10

Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-208613-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

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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Page 4 of 20 8/7/2024

Case Narrative

Client: Arcadis U.S., Inc. Project: Ford LTP

Job ID: 240-208613-1 Eurofins Cleveland

Job Narrative 240-208613-1

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 8/1/2024 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 1.3°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: 240-208613-1

Page 5 of 20 8/7/2024

Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208613-1

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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Page 6 of 20 8/7/2024

Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208613-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208613-1	TRIP BLANK_138	Water	07/29/24 00:00	08/01/24 08:00
240-208613-2	MW-98S_072924	Water	07/29/24 10:40	08/01/24 08:00

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208613-1

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-208613-1

No Detections.

Client Sample ID: MW-98S_072924 Lab Sample ID: 240-208613-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208613-1

Project/Site: Ford LTP

Date Received: 08/01/24 08:00

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-208613-1 Date Collected: 07/29/24 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			08/03/24 12:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/03/24 12:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 12:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/03/24 12:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 12:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/03/24 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		08/03/24 12:09	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					08/03/24 12:09	1
Toluene-d8 (Surr)	99		78 - 122					08/03/24 12:09	1
Dibromofluoromethane (Surr)	101		73 - 120					08/03/24 12:09	1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208613-1

Project/Site: Ford LTP

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Client Sample ID: MW-98S_072924

Lab Sample ID: 240-208613-2 Date Collected: 07/29/24 10:40

Matrix: Water

08/03/24 15:08

08/03/24 15:08

08/03/24 15:08

Date Received: 08/01/24 08:00	U
Mothodi CMO46 0260D CIM	Volotila Organia Compoundo

Method: SW846 8260D SIM - Vo	latile 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			08/05/24 11:55	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			_		08/05/24 11:55	

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		68 - 127					08/05/24 11:55	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by C	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/03/24 15:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/03/24 15:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 15:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/03/24 15:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 15:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/03/24 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			_		08/03/24 15:08	1

56 - 136

78 - 122

73 - 120

92

96

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-208613-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-208613-1	TRIP BLANK_138	102	96	99	101
240-208613-2	MW-98S_072924	105	92	96	99
240-208618-B-2 MS	Matrix Spike	100	99	98	97
240-208618-B-2 MSD	Matrix Spike Duplicate	106	104	102	102
LCS 240-622195/5	Lab Control Sample	100	100	99	97
LCS 240-622195/6	Lab Control Sample	101	98	96	99
MB 240-622195/9	Method Blank	102	97	98	101

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)	
240-208613-2	MW-98S_072924	116	
240-208618-E-2 MS	Matrix Spike	110	
240-208618-F-2 MSD	Matrix Spike Duplicate	109	
LCS 240-622256/4	Lab Control Sample	105	
MB 240-622256/6	Method Blank	97	

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

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8/7/2024

Job ID: 240-208613-1

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

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

Lab Sample ID: MB 240-622195/9

Matrix: Water

Analysis Batch: 622195

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			08/03/24 11:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/03/24 11:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 11:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/03/24 11:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 11:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/03/24 11:17	1

MB MB %Recovery Qualifier Surrogate Limits Prepared Dil Fac Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 08/03/24 11:17 102 97 56 - 136 4-Bromofluorobenzene (Surr) 08/03/24 11:17 Toluene-d8 (Surr) 98 78 - 122 08/03/24 11:17

73 - 120

Lab Sample ID: LCS 240-622195/5

Matrix: Water

Analysis Batch: 622195

Dibromofluoromethane (Surr)

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

08/03/24 11:17

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.8		ug/L		99	63 - 134	
cis-1,2-Dichloroethene	20.0	17.7		ug/L		89	77 - 123	
Tetrachloroethene	20.0	19.6		ug/L		98	76 - 123	
trans-1,2-Dichloroethene	20.0	18.1		ug/L		90	75 - 124	
Trichloroethene	20.0	18.6		ug/L		93	70 - 122	
Vinyl chloride	20.0	17.8		ug/L		89	60 - 144	
1								

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 100 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 100 Toluene-d8 (Surr) 99 78 - 122 73 - 120 Dibromofluoromethane (Surr) 97

101

Lab Sample ID: LCS 240-622195/6 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 622195

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-208618-B-2 MS

Matrix: Water

Analysis Batch: 622195

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	19.2		ug/L		96	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	17.9		ug/L		90	66 - 128	

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Page 12 of 20

8/7/2024

Client: Arcadis U.S., Inc. Job ID: 240-208613-1

Project/Site: Ford LTP

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

Lab Sample ID: 240-208618-B-2 MS **Matrix: Water**

Analysis Batch: 622195

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1.0 U 20.0 16.9 84 62 - 131 Tetrachloroethene ug/L trans-1,2-Dichloroethene 1.0 U 20.0 17.7 ug/L 89 56 - 136 20.0 Trichloroethene 1.0 U 16.4 ug/L 82 61 - 124 Vinyl chloride 1.0 U 20.0 17.6 ug/L 88 43 - 157

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-208618-B-2 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 622195

	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	20.0	20.4		ug/L		102	56 - 135	6	26
cis-1,2-Dichloroethene	1.0	U	20.0	18.0		ug/L		90	66 - 128	0	14
Tetrachloroethene	1.0	U	20.0	18.4		ug/L		92	62 - 131	9	20
trans-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	56 - 136	4	15
Trichloroethene	1.0	U	20.0	17.4		ug/L		87	61 - 124	6	15
Vinyl chloride	1.0	U	20.0	19.3		ug/L		96	43 - 157	9	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	104		56 ₋ 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

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

Lab Sample ID: MB 240-622256/6

Matrix: Water

Analysis Batch: 622256

MR MR

Analyte Result Qualifier RL MDL Unit Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/05/24 10:45

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 97 68 - 127 08/05/24 10:45

Lab Sample ID: LCS 240-622256/4

Matrix: Water

Analysis Batch: 622256

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier	Unit	%Re	c Limits	
1,4-Dioxane	10.0	9.91		ug/L	9	9 75 - 121	

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8/7/2024

Page 13 of 20

10

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

Prep Type: Total/NA

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208613-1

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

Lab Sample ID: LCS 240-622256/4

Matrix: Water

Analysis Batch: 622256

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 105 68 - 127

Lab Sample ID: 240-208618-E-2 MS Client Sample ID: Matrix Spike Prep Type: Total/NA **Matrix: Water**

Analysis Batch: 622256

MS MS %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 110 68 - 127

MSD MSD

Lab Sample ID: 240-208618-F-2 MSD

Matrix: Water

Surrogate

Analysis Batch: 622256

Alialysis batch. 622256											
	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	20 - 180	2	20

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

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QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208613-1

GC/MS VOA

Analysis Batch: 622195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208613-1	TRIP BLANK_138	Total/NA	Water	8260D	
240-208613-2	MW-98S_072924	Total/NA	Water	8260D	
MB 240-622195/9	Method Blank	Total/NA	Water	8260D	
LCS 240-622195/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 240-622195/6	Lab Control Sample	Total/NA	Water	8260D	
240-208618-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-208618-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 622256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208613-2	MW-98S_072924	Total/NA	Water	8260D SIM	
MB 240-622256/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-622256/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-208618-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-208618-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-208613-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-208613-1 Date Collected: 07/29/24 00:00

Matrix: Water

Date Received: 08/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622195	AJS	EET CLE	08/03/24 12:09

Client Sample ID: MW-98S_072924 Lab Sample ID: 240-208613-2

Date Collected: 07/29/24 10:40 Matrix: Water

Date Received: 08/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622195	AJS	EET CLE	08/03/24 15:08
Total/NA	Analysis	8260D SIM		1	622256	MDH	EET CLE	08/05/24 11:55

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.

Project/Site: Ford LTP

Job ID: 240-208613-1

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
Georgia	State	4062	02-27-25
Illinois	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 Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-28-25
Pennsylvania	NELAP	68-00340	08-31-25
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

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Chain of Custody Record

MICHIGAN 190

TestAmeric ©	<u> </u>
THE LEADER IN ENVIRONMENTAL TESTING	_

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

Client Contact	Regulat	ory program:		□ D	w	T	PDES		┌ RC	RA	F° 0	ther										T	I aba			
Company Name: Arcadis	Client Project !	Manager: Kris H	linskey			Site C	ontact	t: Chri	istina W	eaver			Lab	Conta	ct: Mil	ce Dell	1onico					COC No:	rica Labo	atories,	<u>e.</u>	
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240			-	Telen	hone:	248-99	94-2240				Tele	phone	330-4	97-939	6								\dashv	
City/State/Zip: Novi, MI, 48377			41						around	ime			L				alys	• •	_			For lab us		COCs		
Phone: 248-994-2240	Email: Kristoll	er.hinskey@arc	adis.com	1		160					11	H	Т	T			14.75	1				1111				
Project Name: Ford LTP	Sampler Name	and K	1				i differen		3 weeks 2 weeks	L										į		146		2000		
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:	457			┧ "	day		1 week 2 days		2 4	2		9			٥	SIM				Lab samp	ing.	NEW YORK		
O # US3410018772	Shipping/Track	sing No:				1			1 day		mple (Y/	g	8260D	E 8260D			9 8260	8260D SIM				Walk-in client Lab sampling Job/SDG No Sample Specific Notes / Special Instructions: 1 Trip Blank 3 VOAs for 8260D 3 VOAs for 8260D SIM				
			ALEXE D	Matri			Contair	ners & I	Preservat	ives		826	, E	2-DC	8260D	G	lorid	ane	1			E-HIPPAN	113111111111111111111111111111111111111	0.000	₹	
Sample Identification	Sample Date	Sample Time	Air Aqueous	Sediment	Other:	H2SO4	HN03	NaOH	ZnAci NaOH Unpres	Other:	Filtered Sample (Y / N)	1,1-DCE 8260D	cis-1,2-DCE	Trans-1,2-DCE	PCE 826	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane								
TRIP BLANK_ 134			1				1				NG	3 X	X	Х	Х	Х	Х					1 Tri	o Blank		7	
TRIP BLANK_ 138 MW-985_072924	7/29/21	1040	4				6				100	,	λ ?	4 >	~	Z	۸	×								
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Possible Hazard Identification Non-Hazard Ilammable kin Irritant	Poiso	n B	Jnknow	m		Sa			l (A fee Client		assessed Disposal				ned lo		an 1 n		nths							
Precial Instructions/OC Pequirements & Comments	-				-		110		Chem		этэрозиг	Dy Du									× · · · · ·	1				
Submit all results through Cadena at itomalia@cadenaco.co	reviste om. Cadena #E	203728	W																						1	
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Page 18 of 20

8/7/2024

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1		Box Other	Client Cooler	From Box Client Cooler	14	Furnitue Cooler #	T
i		Storage Location)ate/Time	rs. Drop-off	eceipt After-hou	×
	Other //	Client Drop Off Eurofins Courier		UPS FAS (Waypoint		FedEx: 1st Grd Exp	7
		8-1-24	Opened on	1-24	08-1	Cooler Received on	Ö
	Cooler unpacked by:		Site Name		Radis	Chent A	Ω
		Logina	Narrative	Receipt Form	and Sample	urofins — Clevel arberton Pacilit	

Receipt. Eurofins Foam Plastic Bag None Other

Dry Ice

COOLANT West Tee Blue Ice
Cooler temperature upon receipt

TR CHINA M. Water None

R GUN# <u>.</u> _°C) Observed Cooler Temp. See Multiple Cooler Form °C Corrected Cooler Temp.

'n Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were the seals on the outside of the cooler(s) signed & dated?

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?

\$ \$ \$

TOC VOAs

Oil and Grease

Z

Receiving:

checked for pH by Tests that are not

X

Z.

7 6 Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condution (Unbroken)?

Could all bottle labels (ID/Date/Time) be reconciled with the COC?

For each sample, does the COC specify preservatives (YN), # of containers (YN), and sample type of grab/comp(YN)?

12 Sufficient quantity received to perform indicated analyses? Were correct bottle(s) used for the test(s) indicated?

% % % %

क्ष इ

Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory

ü Were all preserved sample(s) at the correct pH upon receipt?

15 14. Were VOAs on the COC?

Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #
Was a LL Hg or Me Hg trip blank present?

Contacted PM স্থ via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by

19. SAMPLE CONDITION

Sample(s) Sample(s) Sample(s) were received after the recommended holding time had expired were received with bubble >6 mm in diameter (Notify PM) were received in a broken container

20. SAMPLE PRESERVATION

Sample(s)
Time preserved. Preservative(s) added/Lot number(s): were further preserved in the laboratory

VOA Sample Preservation -

Date/Time VOAs Frozen.

WI-NC-099-062024 Cooler Receipt Form.doc

쭚

(NA) pH Strip Lo# HC442471

7

8 **9** 8

I diliberature reautilys			
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_138	240-208613-A-1	Voa Vial 40ml - Hydrochloric Acıd	The second secon
MW-98S_072924	240-208613-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-98S_072924	240-208613-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-98S_072924	240-208613-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-98S_072924	240-208613-D-2	Voa Vial 40ml - Hydrochloric Acid	
MW-98S_072924	240-208613-E-2	Voa Vial 40ml - Hydrochloric Acid	And the second s
MW-98S_072924	240-208613-F-2	Voa Vial 40ml - Hydrochloric Acid	

Page 20 of 20

Page 1 of 1



DATA VERIFICATION REPORT

August 07, 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

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

Laboratory submittal: 208613-1 Sample date: 2024-07-29

Report received by CADENA: 2024-08-07

Initial Data Verification completed by CADENA: 2024-08-07

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: 208613-1

		Sample Name:	TRIP BL	ANK_13	8		MW-989	5_07292	4	
		Lab Sample ID:	240208	6131			240208	6132		
		Sample Date:	7/29/20	24			7/29/20	24		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<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-826	<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 # 240-208613-1

CADENA Verification Report: 2024-08-07

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55465R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208613-1 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 ID	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_138	240-208613-1	Water	07/29/2024		X	
MW-98S_072924	240-208613-2	Water	07/29/2024		X	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		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		X		X	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation				'	
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		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: August 27, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 7, 2024

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:		DW	- N	PDES		RCF	LA .	Oth	er												
Company Name: Arcadis	Client Project	danager: Kris H	inskev		Site C	ontact:	Christ	tina We	aver			Lab C	ontac	t: Mik	c DelN	1onico			COC No		oratories, In	דֿ	
Address: 28550 Cabot Drive, Suite 500																						4	
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240			Telepi	hone: 2	48-994	-2240				Telepi	hone:	330-49	97-939	6			1	of 1	COCs	1	
	Email: kristoff	r.hinskey@arca	dis.com		A	nalysis	Turnar	round T	ime						Ar	alyso	s		For lab u	se only		4	
Phone: 248-994-2240	Sampler Name				TATu	different	from belo	ow			1								Walk-in	client	-	1	
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Sample Identification	Sample Date	Sample Time	Air Aqueous	Solid Other:	H2SO4	HC	NaOH ZaAd	Vnpres	Other:	Filtered Sample (Y/N) Composite=C/Grab=G	1,1-DCE	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D		S	pecial Inst	uctions:		
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Special Instructions/QC Requirements & Comments:	1	Pa	. `																		240		
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.c	om. Cadena #	203728	\sim																				
Level IV Reporting requested.																						7	
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208613-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-208613-1 Date Collected: 07/29/24 00:00 **Matrix: Water**

Date Received: 08/01/24 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			08/03/24 12:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/03/24 12:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 12:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/03/24 12:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 12:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/03/24 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			_		08/03/24 12:09	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					08/03/24 12:09	1
Toluene-d8 (Surr)	99		78 - 122					08/03/24 12:09	1
Dibromofluoromethane (Surr)	101		73 - 120					08/03/24 12:09	1

Client Sample ID: MW-98S_072924

Date Collected: 07/29/24 10:40

Da

1,4-Dioxane

Date Received: 08/01/24 08:00											
Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)											
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac				

2.0

0.86 ug/L

Surrogate	%Recovery Qu	ualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		68 - 127		08/05/24 11:55	1

2.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/03/24 15:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/03/24 15:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 15:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/03/24 15:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 15:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/03/24 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		08/03/24 15:08	1	
4-Bromofluorobenzene (Surr)	92		56 - 136		08/03/24 15:08	1	
Toluene-d8 (Surr)	96		78 - 122		08/03/24 15:08	1	
Dibromofluoromethane (Surr)	99		73 - 120		08/03/24 15:08	1	

Lab Sample ID: 240-208613-2

08/05/24 11:55

Matrix: Water