ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/1/2024 7:28:20 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-199799-1

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

Generated 3/1/2024 7:28:20 AM

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

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-199799-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-199799-1

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: 240-199799-1 Eurofins Cleveland

Job Narrative 240-199799-1

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 2/22/2024 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 1.8°C and 1.9°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-604292 was outside the method criteria for the following analyte(s): Trichloroethene and Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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: 240-199799-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-199799-1

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: 240-199799-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-199799-1	TRIP BLANK_136	Water	02/19/24 00:00	02/22/24 08:00
240-199799-2	MW-176S_021924	Water	02/19/24 10:35	02/22/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-199799-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_136

Lab Sample ID: 240-199799-1

No Detections.

Client Sample ID: MW-176S_021924 Lab Sample ID: 240-199799-2

No Detections.

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This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-199799-1

Project/Site: Ford LTP - Off Site

Date Received: 02/22/24 08:00

Dibromofluoromethane (Surr)

Client Sample ID: TRIP BLANK_136

Lab Sample ID: 240-199799-1 Date Collected: 02/19/24 00:00

Matrix: Water

02/27/24 18:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 02/27/24 18:09 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 02/27/24 18:09 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 02/27/24 18:09 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 02/27/24 18:09 Trichloroethene 1.0 U 1.0 0.44 ug/L 02/27/24 18:09 Vinyl chloride 1.0 U 1.0 0.45 ug/L 02/27/24 18:09 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 115 62 - 137 02/27/24 18:09 4-Bromofluorobenzene (Surr) 91 02/27/24 18:09 56 - 136 101 78 - 122 02/27/24 18:09 Toluene-d8 (Surr)

73 - 120

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-199799-1

Project/Site: Ford LTP - Off Site

Date Received: 02/22/24 08:00

Client Sample ID: MW-176S_021924

Lab Sample ID: 240-199799-2 Date Collected: 02/19/24 10:35

Matrix: Water

moundar official ozobb om	I - Volatile Organic C	ompounds	(GC/IVIS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/26/24 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surroyate	78Recovery	Qualifier	Lillits				riepaieu	Allalyzeu	DII Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 127					02/26/24 23:55	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	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			02/27/24 18:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 18:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 18:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 18:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 18:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/27/24 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			•		02/27/24 18:34	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					02/27/24 18:34	1
Toluene-d8 (Surr)	100		78 - 122					02/27/24 18:34	1
Dibromofluoromethane (Surr)	97		73 - 120					02/27/24 18:34	1

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-199799-1

Project/Site: Ford LTP - Off Site

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)
240-199799-1	TRIP BLANK_136	115	91	101	99
240-199799-2	MW-176S_021924	117	91	100	97
240-199799-2 MS	MW-176S_021924	103	97	102	91
240-199799-2 MSD	MW-176S_021924	100	97	102	91
LCS 240-604292/4	Lab Control Sample	105	102	104	91
MB 240-604292/7	Method Blank	114	94	103	96

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)	
240-199799-2	MW-176S_021924	100	
240-199800-C-2 MS	Matrix Spike	101	
240-199800-C-2 MSD	Matrix Spike Duplicate	104	
LCS 240-604238/4	Lab Control Sample	108	
MB 240-604238/6	Method Blank	107	
Surrogate Legend			

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

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Job ID: 240-199799-1

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

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

Lab Sample ID: MB 240-604292/7

Matrix: Water

Analysis Batch: 604292

Client Sa	mple ID:	Meth	od 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			02/27/24 12:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 12:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 12:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 12:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 12:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/27/24 12:41	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 02/27/24 12:41 114 4-Bromofluorobenzene (Surr) 94 56 - 136 02/27/24 12:41 02/27/24 12:41 Toluene-d8 (Surr) 103 78 - 122 Dibromofluoromethane (Surr) 96 73 - 120 02/27/24 12:41

Lab Sample ID: LCS 240-604292/4

Matrix: Water

Analysis Batch: 604292

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	21.8		ug/L		87	63 - 134	
cis-1,2-Dichloroethene	25.0	20.9		ug/L		83	77 - 123	
Tetrachloroethene	25.0	24.1		ug/L		96	76 - 123	
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	75 - 124	
Trichloroethene	25.0	19.7		ug/L		79	70 - 122	
Vinyl chloride	12.5	14.0		ug/L		112	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 105 62 - 137 4-Bromofluorobenzene (Surr) 102 56 - 136 Toluene-d8 (Surr) 104 78 - 122 73 - 120 Dibromofluoromethane (Surr) 91

Lab Sample ID: 240-199799-2 MS

Matrix: Water

Analysis Batch: 604292

Client Sample ID: MW-176S_021924 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	25.0	19.5		ug/L		78	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	19.2		ug/L		77	66 - 128	
Tetrachloroethene	1.0	U	25.0	20.9		ug/L		83	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	20.6		ug/L		82	56 - 136	
Trichloroethene	1.0	U	25.0	18.6		ug/L		74	61 - 124	
Vinyl chloride	1.0	U	12.5	11.4		ug/L		91	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	102		78 - 122

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-199799-1

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

Lab Sample ID: 240-199799-2 MS

Matrix: Water

Analysis Batch: 604292

Client Sample ID: MW-176S_021924

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 91 73 - 120

Lab Sample ID: 240-199799-2 MSD Client Sample ID: MW-176S_021924

Matrix: Water

Analysis Batch: 604292

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	21.3		ug/L		85	56 - 135	9	26
cis-1,2-Dichloroethene	1.0	U	25.0	19.3		ug/L		77	66 - 128	1	14
Tetrachloroethene	1.0	U	25.0	21.5		ug/L		86	62 - 131	3	20
trans-1,2-Dichloroethene	1.0	U	25.0	21.2		ug/L		85	56 - 136	3	15
Trichloroethene	1.0	U	25.0	18.7		ug/L		75	61 - 124	1	15
Vinyl chloride	1.0	U	12.5	12.7		ug/L		102	43 - 157	11	24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	91		73 - 120

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

Lab Sample ID: MB 240-604238/6

Matrix: Water

Analysis Batch: 604238

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 02/26/24 16:06 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 107 68 - 127 02/26/24 16:06

Lab Sample ID: LCS 240-604238/4

Matrix: Water Prep Type: Total/NA Analysis Batch: 604238 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 11.0 ug/L 110 75 - 121

> LCS LCS %Recovery Qualifier

Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 108

Lab Sample ID: 240-199800-C-2 MS

Matrix: Water

Analysis Batch: 604238										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	8.33	12.5		ug/L		151	20 - 180	

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Prep Type: Total/NA

QC Sample Results

8.33

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Client: Arcadis U.S., Inc. Job ID: 240-199799-1

Project/Site: Ford LTP - Off Site

Method: 8260D SIM - \	/olatile Organic Compounds ((GC/MS) (Continued)
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	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		68 - 127

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 604238

							-	Prep	Type: To	tal/NA
Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

ug/L

MSD MSD

2.0 U

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 104
 68 - 127

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Client Sample ID: Matrix Spike Duplicate

20 - 180

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QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-199799-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 604238

Lab Sample ID 240-199799-2	Client Sample ID MW-176S_021924	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-604238/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-604238/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-199800-C-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-199800-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 604292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-199799-1	TRIP BLANK_136	Total/NA	Water	8260D	<u> </u>
240-199799-2	MW-176S_021924	Total/NA	Water	8260D	
MB 240-604292/7	Method Blank	Total/NA	Water	8260D	
LCS 240-604292/4	Lab Control Sample	Total/NA	Water	8260D	
240-199799-2 MS	MW-176S_021924	Total/NA	Water	8260D	
240-199799-2 MSD	MW-176S_021924	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-199799-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_136

Lab Sample ID: 240-199799-1 Date Collected: 02/19/24 00:00

Matrix: Water

Date Received: 02/22/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	604292	LEE	EET CLE	02/27/24 18:09

Client Sample ID: MW-176S_021924 Lab Sample ID: 240-199799-2

Date Collected: 02/19/24 10:35 Matrix: Water

Date Received: 02/22/24 08:00

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Туре	Method	Run	Factor	Number Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	604292 LEE	EET CLE	02/27/24 18:34
Total/NA	Analysis	8260D SIM		1	604238 MDH	EET CLE	02/26/24 23:55

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 - Off Site

Job ID: 240-199799-1

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	02-27-24	
Georgia	State	4062	02-27-24	
Illinois	NELAP	200004	07-31-24	
lowa	State	421	06-01-25	
Kentucky (UST)	State	112225	02-28-24	
Kentucky (WW)	State	KY98016	12-30-24	
Michigan	State	9135	02-27-24	
Minnesota	NELAP	039-999-348	12-31-24	
New Jersey	NELAP	OH001	07-01-24	
New York	NELAP	10975	04-01-24	
Ohio	State	8303	02-27-24	
Ohio VAP	State	ORELAP 4062	02-27-24	
Oregon	NELAP	4062	02-27-24	
Pennsylvania	NELAP	68-00340	08-31-24	
Texas	NELAP	T104704517-22-19	08-31-24	
USDA	US Federal Programs	P330-18-00281	01-05-27	
Virginia	NELAP	460175	09-14-24	
West Virginia DEP	State	210	12-31-24	

Chain of Custody Record

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 2007 Brighton, MI 48116 7810-229-2763

T	es	t	4	ne	eri	C	a
	FIEAD		ENIM	DOM:	CNTA	700	TING

Client Contact	Regular	tory program:	:		D	w	- 1	NPDE	s		RCR	RA	-	Othe	-												
Company Name: Arcadis	Client Project	Manager: Kris	H Insk	ey			Site	ontac	t: CI	hristin:	a We	av er	_	_		Lab C	onta	rt: MII	ce D e	Monte	co					TestAmerica Laborato	iries, I
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	2-094-2240					Teler	h one:	749	.004.21	240			_		Telephone: 330-497-9396					-						
City/State/Zip: Novi, MI, 48377								Celephone: 248-994-2240 Telephon Amalysis Turnaround Time									1 of 1 COCs										
Phone: 248 -994- 2240	Em all: kristoff	er.hin skey@ar	cadis.	moo.								Analyses				For lab use only											
Project Name: Ford LTP Off-Site	Sampler Name	: 1 Scherce	γ				TAT if different from below 3 weeks 10 day 2 weeks											Walk-in client									
Project Number: 30167538.402.04	Method of Ship		1									2					Lab sampling										
PO # 301 67538,402.04		Chinales/Treatiles No.		4			2 da	ys		(Z)	<u>4</u> €		0	G09 23			82 60D	MIS O					LA ISPON				
rO # 3010/53&402.04	Shipping/Traci	Shipping/Tracking No:				~		da	•		ple C	5/ C	8260D	8260D	SE 88				8260					Job/SDG Na			
Sample I dentification	Sample Date	Sample Time	ųк		Sediment	Officer:		Contain	T	Z Pres		Other:	Filtered Sample (Y / N)	Composite=C/Grab=G	1,1-DCE 826	ös-1,2-DCE	Trans-1,2-DCE	PCE 82 600	TCE 82600	Vinyl Chloride	1,4-Dioxane 8260D				1	Sample Specific No Special Instruction	
TRIP BLANK_ 136				1				1					N	G	X	Х	Χ	X	Х	X				T		1 Trip Blank	
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교교교 양 COOLANT Set las Blue Ice Dry Ice Wator

Cooler temperature upon receipts (CF +0.0 °C) Observed Cooler Temp See Multiple Cooler Form C Corrected Cooler Temp

2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Each 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? AN AN

Shippers' packing slip attached to the cooler(s)?

Did custody papers accompany the sample(s)?

w 4 v 0 r 8 0 Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)?

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

10 Were correct bottle(s) used for the test(s) indicated? For each sample, does the COC specify preservatives (Y/I)I), # of container

ample type of grab/comb(YN)

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NA

checked for pH by Receiving Tests that are not

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Oil and Grease TOC

VOAs

Sufficient quantity received to perform indicated analyses?

Are these work share samples and all listed on the COC?

If yes, Questions 13-17 have been checked at the originating laboratory

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

5 14. Was a VOA trip blank present in the cooler(s)? Were air bubbles >6 mm in any VOA vials? Trip Blank Lot#

Was a LL Hg or Me Hg trip blank present?

Contacted PM Date 2, via Verbal Voice Mail Other

Concerning

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

SAMPLE CONDITION were received after the recommended holding time had expired were received with bubble >6 mm in diameter (Notify PM) were received inja broken container

۴,

Time preserved Sample(s) Sample(s) Sample(s) Sample(s) SAMPLE PRESERVATION Date/Tipe VOAs Frozen Preservative(s) added/Lot number(s) were further preserved in the laboratory

VOA Sample Preservation -

(NA) pH Strip Lot# HC316719

36.56

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Page 20 of 20

3/1/2024

DATA VERIFICATION REPORT



March 04, 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: 199799-1 Sample date: 2024-02-19

Report received by CADENA: 2024-03-04

Initial Data Verification completed by CADENA: 2024-03-04

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 QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 199799-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_136 2401997991 2/19/2024				MW-176S_021924 2401997992 2/19/2024			
	Austra	0 N-	December	Report	11	Valid	Daniela	Report	11	Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>D</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>DSIM</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 # 240-199799-1

CADENA Verification Report: 2024-03-04

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53229R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-199799-1 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	Parent Sample	VOC	VOC SIM
TRIP BLANK_136	240-199799-1	Water	02/19/2024		X	
MW-176S_021924	240-199799-2	Water	02/19/2024		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		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compounds	Criteria
TRIP BLANK_136	Continuing Calibration Verification 9/ D	Vinyl chloride	+31.6%
MW-176S_021924	Continuing Calibration Verification %D	Trichloroethene	-21.8%

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

Initial/Continuing	Criteria	Sample Result	Qualification
	DDE -0.05	Non-detect	R
	RRF <0.05	Detect	J
Initial and Continuing Calibration	DDE -0.041	Non-detect	R
Campianon	RRF <0.01 ¹	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J
	0/ DOD 000/	Non-detect	R
	%RSD > 90%	Detect	J
	ND 000/ (; ; ; ; ;)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
0 ((AD 000/ / L	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	(A.D. 1994 (1) 11 11 11 11 11 11 11 11 11 11 11 11 1	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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.

All identified compounds met the specified criteria.

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.

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo Acce	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: Dilip Kumar

SIGNATURE:

DATE: March 20, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 1, 2024

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 2007 Brighton, MI 48116 7 810-229-2763

Test _A	AT	er	icc

Client Contact	Regulat	tory program	:		D	w	Г	NPD	ES		R	CRA		- o	ther							-				
Company Name: Arcadis	Client Project !	Manager: Kris	H Insk	ey			Site	Cont	act: (Christ	in a V	V eav er	r		_	Lab	Conta	et: MI	ke D e	IM onle	00					TestAmerica Laboratories, Inc
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-7740					Telephone: 248-994-2240					Telephone: 330-497-9396														
City/State/Zip: Novl, MI, 48377							l ei	Analysis Turnaround Time											1 of 1 COCs							
Phone: 248-994-2240	Em all: kristoff	er.hin skey@ar	cadis.	m 02.			-	Anal	ysis T	nrnai	round	Time	-			_	_		A	naly	ses	_				For lab use only
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Sample i dentification	Sample Date	Sample Time	Air	Aquions	Sediment	Other:	нузон	HNO3	нсі	NaOH	NeOR	Other:		Filtered Sample (Y/N)	1,1-DCE 8260D	os-1,2-DCE 82600	Trans-1,2-DCE	PCE 82 600	TCE 82600	Vinyl Chloride	1,4-Dioxane					Sample Specific Notes / Special Instructions:
TRIP BLANK_ 136				1					1				1	V C	3 X	X	Х	X	X	X		Ī				1 Trip Blank
MW-1765-021924	02/19/24	10:35		6					6				1	V 6	X	X	χ	χ	Х	Х	X					3 VOAs for 8260D 3 VOAs for 8260D SIM
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-199799-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_136

Lab Sample ID: 240-199799-1 Date Collected: 02/19/24 00:00 **Matrix: Water**

Date Received: 02/22/24 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			02/27/24 18:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 18:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 18:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 18:09	1
Trichloroethene	1.0	h nn	1.0	0.44	ug/L			02/27/24 18:09	1
Vinyl chloride	1.0	nn nn	1.0	0.45	ug/L			02/27/24 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137					02/27/24 18:09	1
4-Bromofluorobenzene (Surr)	91		56 - 136					02/27/24 18:09	1
Toluene-d8 (Surr)	101		78 - 122					02/27/24 18:09	1
Dibromofluoromethane (Surr)	99		73 - 120					02/27/24 18:09	1

Client Sample ID: MW-176S_021924

Date Collected: 02/19/24 10:35

Date Received: 02/22/24 08:00

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/26/24 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 127			_		02/26/24 23:55	1

Method: SW846 8260D - Analyte		Qualifier	us by GC/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							riepaieu		Diriac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/27/24 18:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 18:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 18:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 18:34	1
Trichloroethene	1.0	h nn	1.0	0.44	ug/L			02/27/24 18:34	1
Vinyl chloride	1.0	ŋ nn	1.0	0.45	ug/L			02/27/24 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	117		62 - 137		02/27/24 18:34	1	
4-Bromofluorobenzene (Surr)	91		56 - 136		02/27/24 18:34	1	
Toluene-d8 (Surr)	100		78 - 122		02/27/24 18:34	1	
Dibromofluoromethane (Surr)	97		73 - 120		02/27/24 18:34	1	

Lab Sample ID: 240-199799-2

Matrix: Water