PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 8/14/2023 4:21:00 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-189658-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 8/14/2023 4:21:00 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 US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-189658-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-189658-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS V	OA
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Qualifier **Qualifier Description** Е

Result exceeded calibration range.

U Indicates the analyte was analyzed for but not detected.

Glossary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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) Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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 US Inc Job ID: 240-189658-1

Project/Site: Ford LTP - Off Site

Job ID: 240-189658-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-189658-1

Receipt

The samples were received on 8/5/2023 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 0.3°C

GC/MS VOA

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

Method Summary

Client: ARCADIS US Inc Job ID: 240-189658-1 Project/Site: Ford LTP - Off Site

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

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

Sample Summary

Project/Site: Ford LTP - Off Site

Client: ARCADIS US Inc Job ID: 240-189658-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-189658-1	TRIP BLANK_144	Water	08/03/23 00:00	08/05/23 08:00
240-189658-2	MW-173S_080323	Water	08/03/23 12:08	08/05/23 08:00

Detection Summary

Client: ARCADIS US Inc Job ID: 240-189658-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_144 Lab Sample ID: 240-189658-1

No Detections.

Client Sample ID: MW-173S_080323 Lab Sample ID: 240-189658-2

No Detections.

7

0

40

11

13

14

15

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189658-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_144

Lab Sample ID: 240-189658-1 Date Collected: 08/03/23 00:00

Matrix: Water

Date Received: 08/05/23 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			08/10/23 14:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/10/23 14:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/10/23 14:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/10/23 14:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/10/23 14:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/10/23 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			_		08/10/23 14:46	1
4-Bromofluorobenzene (Surr)	98		56 ₋ 136					08/10/23 14:46	1
Toluene-d8 (Surr)	101		78 - 122					08/10/23 14:46	1
Dibromofluoromethane (Surr)	102		73 - 120					08/10/23 14:46	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189658-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-173S_080323

Date Collected: 08/03/23 12:08

Lab Sample ID: 240-189658-2 Matrix: Water

Date Received: 08/05/23 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			08/08/23 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		66 - 120			-		08/08/23 19:17	1
Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	C/MS						
	•	ounds by G Qualifier	C/MS	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier		MDL 0.49		<u>D</u> .	Prepared	Analyzed 08/10/23 15:09	Dil Fac
Analyte 1,1-Dichloroethene	Result	Qualifier U	RL		ug/L	D	Prepared	- <u> </u>	Dil Fac 1
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49 0.46	ug/L	<u>D</u> -	Prepared	08/10/23 15:09	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	ug/L ug/L ug/L	<u>D</u> -	Prepared	08/10/23 15:09 08/10/23 15:09	Dil Fac 1 1 1 1

Vinyl chloride	1.0 (U	1.0	0.45 ug/L		08/10/23 15:09	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137			08/10/23 15:09	1
4-Bromofluorobenzene (Surr)	98		56 ₋ 136			08/10/23 15:09	1
Toluene-d8 (Surr)	97		78 - 122			08/10/23 15:09	1
Dibromofluoromethane (Surr)	104		73 - 120			08/10/23 15:09	1

Client: ARCADIS US Inc Job ID: 240-189658-1

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)
240-189658-1	TRIP BLANK_144	102	98	101	102
240-189658-2	MW-173S_080323	111	98	97	104
240-189665-B-3 MS	Matrix Spike	103	93	97	101
240-189665-B-3 MSD	Matrix Spike Duplicate	103	103	102	101
LCS 240-583519/5	Lab Control Sample	97	96	95	95
MB 240-583519/8	Method Blank	107	97	97	103

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	(66-120)	
240-189540-G-3 MS	Matrix Spike	95	
240-189540-G-3 MSD	Matrix Spike Duplicate	88	
240-189658-2	MW-173S_080323	82	
LCS 240-583238/5	Lab Control Sample	89	
MB 240-583238/7	Method Blank	87	
Surrogate Legend			

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	(10-150)	
MRL 240-583238/6	Lab Control Sample	87	
Surrogate Legend			
DCA = 1,2-Dichloroeth	ane-d4 (Surr)		

Client: ARCADIS US Inc Job ID: 240-189658-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-583519/8

Matrix: Water

Analysis Batch: 583519

Client	Sample	ID: I	Metho	d Blan	k
	Pr	an T	wne.	Total/N	Δ

	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			08/10/23 14:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/10/23 14:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/10/23 14:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/10/23 14:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/10/23 14:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/10/23 14:23	1

MB MB Qualifier %Recovery Surrogate Limits Prepared Dil Fac Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 08/10/23 14:23 107 97 08/10/23 14:23 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 97 78 - 122 08/10/23 14:23 Dibromofluoromethane (Surr) 103 73 - 120 08/10/23 14:23

Lab Sample ID: LCS 240-583519/5

Matrix: Water

Analysis Batch: 583519

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 103 63 - 134 1,1-Dichloroethene 25.0 25.6 ug/L cis-1,2-Dichloroethene 25.0 24.0 ug/L 96 77 - 123 Tetrachloroethene 25.0 25.0 ug/L 100 76 - 123 75 - 124 trans-1,2-Dichloroethene 25.0 24.6 ug/L 98 Trichloroethene 25.0 25.7 103 ug/L 70 - 122 Vinyl chloride 12.5 ug/L 88 60 - 144 11.0

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 97 62 - 137 4-Bromofluorobenzene (Surr) 96 56 - 136 Toluene-d8 (Surr) 95 78 - 122 Dibromofluoromethane (Surr) 73 - 120 95

Matrix: Water

Analysis Batch: 583519

Lab Sample ID: 240-189665-B-3 MS 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	100	U	2500	2450		ug/L		98	56 - 135	
cis-1,2-Dichloroethene	5300		2500	7100	E	ug/L		71	66 - 128	
Tetrachloroethene	100	U	2500	2340		ug/L		94	62 - 131	
trans-1,2-Dichloroethene	810		2500	3140		ug/L		93	56 - 136	
Trichloroethene	100	U	2500	2390		ug/L		96	61 - 124	
Vinyl chloride	290		1250	1240		ug/L		76	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	93		56 - 136
Toluene-d8 (Surr)	97		78 - 122

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Client: ARCADIS US Inc

Job ID: 240-189658-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-189665-B-3 MS

Matrix: Water

Analysis Batch: 583519

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

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 101 73 - 120

Lab Sample ID: 240-189665-B-3 MSD

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

Matrix: Water

Analysis Batch: 583519

% Poo

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	100	U	2500	2570		ug/L		103	56 - 135	5	26
cis-1,2-Dichloroethene	5300		2500	7520	E	ug/L		88	66 - 128	6	14
Tetrachloroethene	100	U	2500	2380		ug/L		95	62 - 131	1	20
trans-1,2-Dichloroethene	810		2500	3310		ug/L		100	56 - 136	5	15
Trichloroethene	100	U	2500	2520		ug/L		101	61 - 124	5	15
Vinyl chloride	290		1250	1440		ug/L		93	43 - 157	15	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

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

Lab Sample ID: MB 240-583238/7

Matrix: Water

Analysis Batch: 583238

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

> Analyzed Dil Fac

Result Qualifier Analyte RL **MDL** Unit Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/08/23 13:43

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 87 66 - 120 08/08/23 13:43

Lab Sample ID: LCS 240-583238/5

Matrix: Water

Analysis Batch: 583238

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

Client Sample ID: Lab Control Sample

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 9.49 ug/L 95 80 - 122

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 89

Lab Sample ID: MRL 240-583238/6

Matrix: Water

Analysis Batch: 583238

Spike MRL MRL %Rec

Result Qualifier Added Limits Analyte Unit %Rec 1,4-Dioxane 0.00200 0.00273 ng/uL 136 10 - 150

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Prep Type: Total/NA

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-189658-1

Project/Site: Ford LTP - Off Site

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

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	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		10 - 150

Lab Sample ID: 240-189540-G-3 MS

Matrix: Water

Analysis Batch: 583238

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	9.51		ug/L		95	51 - 153	

Limits

66 - 120

66 - 120

MS MS Surrogate %Recovery Qualifier 1,2-Dichloroethane-d4 (Surr) 95

Lab Sample ID: 240-189540-G-3 MSD

Matrix: Water

Analysis Batch: 583238

1,2-Dichloroethane-d4 (Surr)

	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	9.52		ug/L		95	51 - 153	0	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	l imits								

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-189658-1

GC/MS VOA

Analysis Batch: 583238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189658-2	MW-173S_080323	Total/NA	Water	8260D SIM	
MB 240-583238/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-583238/5	Lab Control Sample	Total/NA	Water	8260D SIM	
MRL 240-583238/6	Lab Control Sample	Total/NA	Water	8260D SIM	
240-189540-G-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-189540-G-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 583519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189658-1	TRIP BLANK_144	Total/NA	Water	8260D	
240-189658-2	MW-173S_080323	Total/NA	Water	8260D	
MB 240-583519/8	Method Blank	Total/NA	Water	8260D	
LCS 240-583519/5	Lab Control Sample	Total/NA	Water	8260D	
240-189665-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-189665-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-189658-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_144

Lab Sample ID: 240-189658-1 Date Collected: 08/03/23 00:00

Matrix: Water

Date Received: 08/05/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	583519	LEE	EET CLE	08/10/23 14:46

Client Sample ID: MW-173S_080323 Lab Sample ID: 240-189658-2

Date Collected: 08/03/23 12:08 Matrix: Water

Date Received: 08/05/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	583519	LEE	EET CLE	08/10/23 15:09
Total/NA	Analysis	8260D SIM		1	583238	MRL	EET CLE	08/08/23 19:17

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-189658-1 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
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	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
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	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

TestAmerica TestAmerica Laboratories, Inc COC No: 3 VOAs for 8260D 3 VOAs for 8260D SIM Sample Specific Notes / Special Instructions: COCs 0121 N 1 Trip Blank 8 4/23 Date/Time: 3-5-23 1 of 1 For lab use only Date Time: Walk-in client ab sampling ob/SDG No: 0.4/0.3 OMPANY OF THE NC Company. × 4-Dioxane 8260D SIM Analyses Lab Contact: Mike DelMonico Vinyl Chloride 8260D × 240-189657 Chain of Custody × Telephone: 330-497-9396 \times **CE 8500D** × X CE 8500D × X (1908-1,2-DCE 8260D) × Novi cold storage Fest America Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 × 18-1,2-DCE 8260D × × 1-DCE 8500D Other J C decempting aboratory by: Filtered Sample (Y / N) Z 2 Chain of Custody Record Site Contact: Christina Weaver RCRA Analysis Turnaround Time :тэф1О ontainers & Preservativ Unpres Felephone: 248-994-2240 → 2 weeks week 2 days teceived by I day HOW AT if different from bel HOSN 2 NPDES ЮH 10 day 0121 CONH Date (Time 8 4 123 120 FOSTE Aria 15 1055 08/03/23 Date Time 8/4/23 MO bilos 160 таяшірэ mail: kristoffer.hinskey@arcadis.com 9 snoonby Client Project Manager: Kris Hinskey post J!V Megin Regulatory program: Method of Shipment/Carrier: Sample Time 1208 of read s Boston Telephone: 248-994-2240 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Shipping/Trucking No: Company: 08/03/23 Sampler Name Sample Date Skin Irritant Wardy U Special Instructions/QC Requirements & Comments: 23 MICHIGAN 190 Sample Identification Client Contact MH-1735_0803 Address: 28550 Cabot Drive, Suite 500 TRIP BLANK 144 Project Number: 30167538,402.04 Project Name: Ford LTP Off-Site Level IV Reporting requested. anne Possible Hazard Identification City/State/Zip: Novi, MI, 48377 MEGGN LER Company Name: Arcadis PO # 30167538.402.04 Phone: 248-994-2240 Sample Address:

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Eurofins - Cleveland Sample Receipt Form/Narrative Login	#:189657
Barberton Facility	#:18965/
Client Arcodis Site Name	Cooler unpacked by:
Cooler Received on 8-6-23 Opened on 8-5-23	Math
	her
Receipt After-hours: Drop-off Date/Time Storage Location	IICI
Eurofins Cooler # C Foam Box Client Cooler Box Other	
Packing material used: Bubble Wrap Foam Plastic Bag None Other	
COOLANT: Wet Ice Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt See Multiple Cooler Fo	
IR GUN # 22 (CFO.) °C) Observed Cooler Temp. O.4 °C	Corrected Cooler Temp. 0, 5 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	No l
-Were the seals on the outside of the cooler(s) signed & dated?	Tests that are not
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	checked for pH by Receiving:
-Were tamper/custody seals intact and uncompromised?	NO NA
3. Shippers' packing slip attached to the cooler(s)?	VOAs
4. Did custody papers accompany the sample(s)?	No Oil and Grease
5. Were the custody papers relinquished & signed in the appropriate place?	No TOC
6. Was/were the person(s) who collected the samples clearly identified on the COC?	No
7. Did all bottles arrive in good condition (Unbroken)?	No no
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	No 6600.5:13
9. For each sample, does the COC specify preservative (YN), # of containers (YN), and so	
10. Were correct bottle(s) used for the test(s) indicated? 11. Sufficient quantity received to perform indicated analyses?	No
12. Are these work share samples and all listed on the COC? Yes	No.
If yes, Questions 13-17 have been checked at the originating laboratory.	
	No NA pH Strip Lot# 10BDH4321
14. Were VOAs on the COC?	No HC312502
15. Were air bubbles >6 mm in any VOA vials? Larger than this.	
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #004/30/1	No
17. Was a LL Hg or Me Hg trip blank present? Yes	(N)
Contacted PM Date by via Verbal V	oice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples processed by:
19. SAMPLE CONDITION	
Sample(s) were received after the recommended holding	ng time had expired.
Sample(s) were received	in a broken container.
Sample(s) were received with bubble >6 mm in	diameter. (Notify PM)
20. SAMPLE PRESERVATION	,
Sample(s) were furt	her preserved in the laboratory.
Sample(s) were furt Time preserved: Preservative(s) added/Lot number(s):	property.
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-189658-1

Login Number: 189658 List Source: Eurofins Cleveland

List Number: 1

Creator: Snyder, Matthew

Question Answer Comment

Radioactivity wasn't checked or is </= background as measured by a survey

meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or

tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested

MS/MSDs

Containers requiring zero headspace have no headspace or bubble is

<6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.

3

4

5

7

0

10

12

13

15

DATA VERIFICATION REPORT



August 16, 2023

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 off-site

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

Laboratory submittal: 189658-1 Sample date: 2023-08-03

Report received by CADENA: 2023-08-16

Initial Data Verification completed by CADENA: 2023-08-16

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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 189658-1

		Sample Name:	TRIP BLA	NK_144			MW-173	3S_0803	23	
		Lab Sample ID:	2401896	5581			2401896	5582		
		Sample Date:	8/3/202	3			8/3/202	3		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>OD</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>DDSIM</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 # 240-189658-1

CADENA Verification Report: 2023-08-16

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51042R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-189658-1 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	IVIALITA	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_144	240-189658-1	Water	08/03/2023		Х	
MW-173S_080323	240-189658-2	Water	08/03/2023		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		X	
2. Requested analyses and sample results		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Χ		X	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		X	
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	<u>'</u>				'
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		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: September 11, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 13, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

0.4/0.3

<u>TestAmerica</u>

Client Contact	Regular	ory program:		1	DW	4		NPL	DES		RC	RA		Othe	er									
Company Name: Arcadis	Client Project	lanager: Kris I	Hinsk	ev			Site (Con	tact: C	hristi	na Wa	aver			_	Lah (ontac	- Mil	ke Dal	Moni	en	_	TestAmerica Laboratories,	
Address: 28550 Cabot Drive, Suite 500				-,																	co		COC NO:	
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240					Tele	pho	ne: 248	1-994-	2240					Telep	hone:	330-4	197-93	96			1 of 1 COCs	
Phone: 248-994-2240	Email: kristoff	er.hinskey@arc	radis.	com			7	Ana	lysis T	urnaro	und 1	ime	-						A	naly	ses		For lab use only	
HUHE. 240-774-2240	Sampler Name	:					TAT	ifdif	flerent fro	m below	_		1										Walk-in client	
Project Name: Ford LTP Off-Site		Megan	n	Le	9		1 4	0 da		3 v	veeks		1										Lab sampling	
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				IV.	latrix			Con	ntainers	& Pre	servati	ves	San	Composite=C / Grab=G	826	cis-1,2-DCE 8260D	Trans-1,2-DCE	Q09	8260D	Vinyl Chloride	1,4-Dioxane			
				snoon	Solid	Other:	H2SO4	HN03		ZnAc	Unpres	Other:	Filtered	odu	1.1-DCE	-1.2	ns-1	PCE 8260D	E 82	2 2	O O		Sample Specific Notes / Special Instructions:	
Sample Identification	Sample Date	Sample Time	Ϋ́	Aqu	Solid	ō	Ξ	鱼	달	ZnAc	5	ō	E	ပီ		Cis	Tra	5	TCE	Ş	4.		Special this ructions:	
TRIP BLANK_ 144				1					1				N	G	X	Х	Х	X	X	X			1 Trip Blank	
MH-1735_080323	08/03/23	17.08		b					b				N	4	X	X	X	X	X	X	X		3 VOAs for 8260D	
		. 200	\vdash		+	-			U	+	+	-	· v	4	^	-	-		1	1	+	-	3 VOAs for 8260D SIM	
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Special Instructions/QC Requirements & Comments: Sample Address:	11721 80	chon O	กร	L																				
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189658-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_144

Lab Sample ID: 240-189658-1 Date Collected: 08/03/23 00:00 **Matrix: Water**

Date Received: 08/05/23 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			08/10/23 14:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/10/23 14:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/10/23 14:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/10/23 14:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/10/23 14:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/10/23 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		08/10/23 14:46	1
4-Bromofluorobenzene (Surr)	98		56 - 136					08/10/23 14:46	1
Toluene-d8 (Surr)	101		78 - 122					08/10/23 14:46	1
Dibromofluoromethane (Surr)	102		73 - 120					08/10/23 14:46	1

Client Sample ID: MW-173S_080323

Date Collected: 08/03/23 12:08

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/08/23 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		66 - 120					08/08/23 19:17	1
Method: SW846 8260D - \	•		•		Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte 1,1-Dichloroethene	1.0	Qualifier U	RL 1.0	MDL 0.49	ug/L	<u>D</u>	Prepared	08/10/23 15:09	Dil Fac
Analyte	1.0 1.0	Qualifier U U	RL 1.0 1.0	MDL 0.49 0.46	ug/L ug/L	<u>D</u>	Prepared	08/10/23 15:09 08/10/23 15:09	Dil Fac
Analyte 1,1-Dichloroethene	1.0	Qualifier U U	RL 1.0	MDL 0.49 0.46	ug/L	<u> </u>	Prepared	08/10/23 15:09	Dil Fac
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	1.0 1.0	Qualifier U U U	RL 1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u>	Prepared	08/10/23 15:09 08/10/23 15:09	Dil Fac
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	RL 1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	<u>D</u>	Prepared	08/10/23 15:09 08/10/23 15:09 08/10/23 15:09	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137			08/10/23 15:09	1
4-Bromofluorobenzene (Surr)	98		56 - 136			08/10/23 15:09	1
Toluene-d8 (Surr)	97		78 - 122			08/10/23 15:09	1
Dibromofluoromethane (Surr)	104		73 - 120			08/10/23 15:09	1

Lab Sample ID: 240-189658-2

Matrix: Water