

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

Laboratory Job ID: 240-159616-1 Client Project/Site: Ford LTP - Off-Site

For:

ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mode Del Your

Authorized for release by: 11/22/2021 3:33:32 PM

Michael DelMonico, Project Manager I (330)497-9396

Michael.DelMonico@Eurofinset.com

·····LINKS ······

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Laboratory Job ID: 240-159616-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-159616-1

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.

Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

Job ID: 240-159616-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-159616-1

Comments

No additional comments.

Receipt

The samples were received on 11/9/2021 10:00 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 3.7° C and 3.8° C.

GC/MS VOA

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

VOA Prep

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

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Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Job ID: 240-159616-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

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

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 240-159616-1
 TRIP BLANK_59
 Water
 11/05/21 00:00
 11/09/21 10:00

 240-159616-2
 MW-127S_110521
 Water
 11/05/21 11:32
 11/09/21 10:00

.

Job ID: 240-159616-1

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_59 Lab Sample ID: 240-159616-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	2.3	1.0	0.45 ug/L	1	8260B	Total/NA

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_59

Date Collected: 11/05/21 00:00 Date Received: 11/09/21 10:00 Lab Sample ID: 240-159616-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/21 15:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 15:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 15:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 15:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 15:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/21 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			•		11/16/21 15:17	1
4-Bromofluorobenzene (Surr)	87		56 ₋ 136					11/16/21 15:17	1
Toluene-d8 (Surr)	96		78 - 122					11/16/21 15:17	1
Dibromofluoromethane (Surr)	108		73 - 120					11/16/21 15:17	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: MW-127S_110521

Date Collected: 11/05/21 11:32 Date Received: 11/09/21 10:00 Lab Sample ID: 240-159616-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/13/21 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					11/13/21 02:26	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/21 18:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 18:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 18:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 18:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 18:50	1
Vinyl chloride	2.3		1.0	0.45	ug/L			11/16/21 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137					11/16/21 18:50	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					11/16/21 18:50	1
Toluene-d8 (Surr)	99		78 - 122					11/16/21 18:50	1
Dibromofluoromethane (Surr)	118		73 - 120					11/16/21 18:50	1

11/22/2021

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Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-159616-1	TRIP BLANK_59	95	87	96	108
240-159616-2	MW-127S_110521	105	92	99	118
240-159636-F-2 MS	Matrix Spike	93	93	102	105
240-159636-G-2 MSD	Matrix Spike Duplicate	93	94	103	105
LCS 240-513208/5	Lab Control Sample	86	91	100	101
MB 240-513208/8	Method Blank	91	87	98	108

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260B 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)	
240-159543-G-3 MS	Matrix Spike	85	
240-159543-O-3 MSD	Matrix Spike Duplicate	83	
240-159616-2	MW-127S_110521	81	
LCS 240-512758/4	Lab Control Sample	83	
MB 240-512758/5	Method Blank	84	
Surrogate Legend			

Eurofins TestAmerica, Canton

Client: ARCADIS U.S., Inc. Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

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

Lab Sample ID: MB 240-513208/8

Matrix: Water

Analysis Batch: 513208

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

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte D 0.49 ug/L 1,1-Dichloroethene 1.0 U 1.0 11/16/21 14:06 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/16/21 14:06 1.0 U 0.44 ug/L Tetrachloroethene 1.0 11/16/21 14:06 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/16/21 14:06 Trichloroethene 1.0 U 1.0 0.44 ug/L 11/16/21 14:06 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/16/21 14:06

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 91 62 - 137 1,2-Dichloroethane-d4 (Surr) 11/16/21 14:06 4-Bromofluorobenzene (Surr) 87 56 - 136 11/16/21 14:06 98 78 - 122 Toluene-d8 (Surr) 11/16/21 14:06 Dibromofluoromethane (Surr) 108 73 - 120 11/16/21 14:06

Lab Sample ID: LCS 240-513208/5

Matrix: Water

Analysis Batch: 513208

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	28.3		ug/L		113	63 - 134	
cis-1,2-Dichloroethene	25.0	26.1		ug/L		104	77 - 123	
Tetrachloroethene	25.0	29.3		ug/L		117	76 - 123	
trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	75 - 124	
Trichloroethene	25.0	27.4		ug/L		110	70 - 122	
Vinyl chloride	25.0	24.0		ug/L		96	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 86 62 - 137 4-Bromofluorobenzene (Surr) 91 56 - 136 Toluene-d8 (Surr) 100 78 - 122 Dibromofluoromethane (Surr) 73 - 120 101

Lab Sample ID: 240-159636-F-2 MS

Matrix: Water

Analysis Batch: 513208

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	25.0	25.8		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	24.8		ug/L		99	66 - 128	
Tetrachloroethene	1.0	U	25.0	28.9		ug/L		116	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	25.3		ug/L		101	56 - 136	
Trichloroethene	1.0	U	25.0	25.4		ug/L		101	61 - 124	
Vinyl chloride	1.0	U	25.0	22.2		ug/L		89	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	93		56 - 136
Toluene-d8 (Surr)	102		78 - 122

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

Lab Sample ID: 240-159636-F-2 MS

Matrix: Water

Analysis Batch: 513208

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

%Recovery Qualifier Surrogate Limits Dibromofluoromethane (Surr) 105 73 - 120

Lab Sample ID: 240-159636-G-2 MSD

Matrix: Water

Analysis Batch: 513208

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

١		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	25.9		ug/L		104	56 - 135	0	26
	cis-1,2-Dichloroethene	1.0	U	25.0	25.0		ug/L		100	66 - 128	1	14
	Tetrachloroethene	1.0	U	25.0	29.5		ug/L		118	62 - 131	2	20
İ	trans-1,2-Dichloroethene	1.0	U	25.0	25.1		ug/L		100	56 - 136	1	15
	Trichloroethene	1.0	U	25.0	25.3		ug/L		101	61 - 124	0	15
	Vinyl chloride	1.0	U	25.0	22.3		ug/L		89	43 - 157	1	24
- 1												

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

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

MB MB

Lab Sample ID: MB 240-512758/5

Matrix: Water

Analysis Batch: 512758

Client Sample ID: Method Blank

Prep Type: Total/NA

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/12/21 16:51

MB MB %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 66 - 120 84 11/12/21 16:51

Lab Sample ID: LCS 240-512758/4

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 512758

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

Spike LCS LCS %Rec. Added Result Qualifier Limits Unit D %Rec 10.0 9.63 ug/L 96 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 66 - 120 1,2-Dichloroethane-d4 (Surr) 83

Lab Sample ID: 240-159543-G-3 MS

Matrix: Water

Analysis Batch: 512758

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	
1,4-Dioxane	2.0	U F1	10.0	9.98		ug/L		100	51 - 153	

Eurofins TestAmerica, Canton

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	85		66 - 120								
Lab Sample ID: 240-1599 Matrix: Water Analysis Batch: 512758	543-O-3 MSD					Client	Samp	le ID: N	latrix Spil Prep Ty	_	
	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 F1	10.0	9.71	-	ug/L		97	51 - 153	3	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1.2-Dichloroethane-d4 (Surr)	83		66 - 120								

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

GC/MS VOA

Analysis Batch: 512758

Lab Sample ID 240-159616-2	Client Sample ID MW-127S_110521	Prep Type Total/NA	Matrix Water	Method 8260B SIM	Prep Batch
MB 240-512758/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-512758/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159543-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159543-O-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 513208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159616-1	TRIP BLANK_59	Total/NA	Water	8260B	
240-159616-2	MW-127S_110521	Total/NA	Water	8260B	
MB 240-513208/8	Method Blank	Total/NA	Water	8260B	
LCS 240-513208/5	Lab Control Sample	Total/NA	Water	8260B	
240-159636-F-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-159636-G-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_59 Lab Sample ID: 240-159616-1

Date Collected: 11/05/21 00:00 **Matrix: Water**

Date Received: 11/09/21 10:00

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run Lab TAL CAN Total/NA Analysis 8260B 513208 11/16/21 15:17 SAM

Client Sample ID: MW-127S_110521

Lab Sample ID: 240-159616-2 Date Collected: 11/05/21 11:32 **Matrix: Water**

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Date Received: 11/09/21 10:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513208	11/16/21 18:50	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	512758	11/13/21 02:26	CS	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Eurofins TestAmerica, Canton

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

Laboratory: Eurofins TestAmerica, Canton

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	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
lowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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Topping State Paper Manager & No. 11 modes Paper Manager & Company & No. 11 modes Paper Manager & Company & No. 11 modes Paper Manager & No. 11 modes	Client Contact	Regulatory program: DW	DW NPDES RCRA Other		
Telephone Machine Ma	Company Name: Arcadis				TestAmerica Laboratories, Inc.
Telephone: 134-644-5111	Address: 28550 Cabot Drive, Suite 500	Chent Project Manager: Kris Hinskey	Site Contact: Julia McClafferty	Lab Contact: Mike DelMonico	COC No:
March Marc	City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240	Telephone: 734-644-5131	Telephone: 330-497-9396	-
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10 day 2 weeks 2 days	Project Name: Ford LTP Off-Site	1 ~	TAT if different from below 3 weeks		Walk-in client
1 1 1 1 1 1 1 1 1 1	Project Number: 30080642.402.04	' I	2 weeks		Lab sampling
Nation N	PO# 30080642,402,04	Shipping/Tracking No:	le (Y / I	85 608	Job/SDG No:
X X X X X X X X X X	Sample Identification	Sample 7 100 No. 100 N	HCCI Laberca Samp Composite Composit	35-1,2-DCE 8 12-DCE 8260B 17-E 82	Sample Specific Notes / Special Instructions:
2. X X X X X X X X X X X X X X X X X X X	TRIP BLANK 59	×	7	× × × × ×	1 Trip Blank
Date-Time: ate-Time: Date-Time: Date-Time: Date-Time: Date-Time: Date-Time: Date-Time: Date-Time: Dat	5-1105	11:32	3	X X X	3 VOAs for 8260B 3 VOAs for 8260B SIM
Date/Time: Dat	Possible Hazard Identification P. Non-Hazard in Irrita	Poison B	Sample Disposal (A fre may be assessed if same Return to Client State Disposal By Lab	16 Chain of Custody ples are retained longer than 1 month) Archive For Months	
Sommer Suny Company Practice Date-Time: 13:00 Novi Cold Storage Company Fractise Date-Time: 11/8/12/ 1200 Received by: Cold Storage Company FTA 11/8/12/ 1200 Received by: Company FTA 11/8/12/ 1200 Received in Lindonsky by: Company: 5TA Date-Time: Date-Time: 12/4 Date-Time: 5TA Date-Time: 12/4 Date-Tim	pccial Instructions/QC Requirements & Comments: ubmit all results through Cadena at jtomalia@cadenac evel IV Reporting requested.	o.com. Cadena #E203631)	
	Sommer (Hader	Date Time:	Received by: Old Received by:	-1	

	C 1.
Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login # : ! 57 6 6
Client ARCA Site Name	Cooler unpacked by:
Cooler Received on 1-9-21 Opened on 1-9-21	Vary Vaca
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Other
Receipt After hours. Drop-off Date/Time Storage Location	
TestAmerica Cooler # Feam 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 IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. °C Corrected Cooler IR GUN #IR-15 (CF +0.2 °C) Observed Cooler Temp. °C Corrected C	Temp°C Temp°C No
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Vest 17. Was a LL Hg or Me Hg trip blank present? Yes	N ₀
Contacted PM Date by via Verbal Ve	oice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page TB is not logged for SIM due to Insuff per corrected coc. Similaria	Samples processed by:
19. SAMPLE CONDITION	
Sample(s) were received after the recommended holding	ng time had expired.
	in a broken container.
Sample(s) were received with bubble >6 mm in	
20. SAMPLE PRESERVATION	
Sample(s)	ther preserved in the laboratory.
Sample(s) were furt Time preserved: Preservative(s) added/Lot number(s):	mer preserved in the laboratory.
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login#: 159616

	escription	IR Gun #	Observed	Corrected	Coolant
	rcle)	(Circle)	Temp ℃	Temp °C	(Circle)
TA Client	Box Other	18-14, 18-15 dt:514 18-15	36	3-7	Water None Wet Ice Blue Ice Dry
(A Client	Box Other		3-7	3-8	Water None
TA Client	Box Other	IR-14 IR-15			Wellice Bluelice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wat ice Blue ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wellice Blue Ice Dry
TA Client	Box Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry
		IR-14 IR-15			Water None Wet ice Blue ice Dry
TA Client	Sox Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry
TA Client	Box Other	IR-14 IR-16			Water None Wellice Blue Ice Dry
TA Client	Box Other				Water None
TA Client	Box Other	IR-14 IR-15			Wel ice Blue ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wellice Blue Ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wellice Sive Ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wel ice Sive ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry
TA Client	Box Other	IR-14 IR-15			Water Mone Wet Ice Blue Ice Dry
		IR-14 IR-15			Water None Wet Ice Blue Ice Dry
TA Client	Box Other	IR-14 IR-15			Water None Wet Ice Sive Ice Dry
TA Client	Box Other	To be to be			Water None
TA Client	Box Other	IR-14 IR-15			Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wet ice Blue ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Water None
TA Clent	Box Other	IR-14 IR-15			Wellice Blue Ice Dry
	Sox Other	IR-14 IR-15			Water None Wellice Blue Ice Dry
		IR-14 IR-15			Water None Wellice Blue Ice Dry
TA Client	Box Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry
TA Client	Box Other	IR-14 IR-15			Water None Wet Ice Slue Ice Dry
TA Client	Box Other				Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wet ice Blue ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wellice Blue Ice Dry I Water None
TA Client	Sox Other	IR-14 IR-15			Wet Ice Blue Ice Dry Water None
TA Client	Box Other	IR-14 IR-15			Wellice Blue Ice Dry
TA Client	Box Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry I
Oppill	TAY OHIEL	<u> </u>	1		Water None nperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

DATA VERIFICATION REPORT



November 22, 2021

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: 30080642.402.04 OFF-SITE GW Event Specific Scope of Work References: Sample COC

Laboratory: TestAmerica - North Canton

Laboratory submittal: 159616-1 Sample date: 2021-11-05

Report received by CADENA: 2021-11-22

Initial Data Verification completed by CADENA: 2021-11-22

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 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: TestAmerica - North Canton

Laboratory Submittal: 159616-1

		Sample Name:	TRIP BLA	TRIP BLANK_59			MW-127S_110521			
		Lab Sample ID:	2401596	5161			2401596	5162		
		Sample Date:	11/5/2021				11/5/2021			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0B</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		2.3	1.0	ug/l	
OSW-826	<u>OBBSim</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 # 240-159616-1

CADENA Verification Report: 2021-11-22

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 43676R Review Level: Tier III Project: 30080642.402.04

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-159616-1 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) includes 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 Collection		Ana	lysis	
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM	
TRIP BLANK_59	240-159616-1	Water	11/05/21		Х		
MW-127S_110521	240-159616-2	Water	11/05/21		X	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample receipt condition		X		X	
2. 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		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

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.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - 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 8260B/8260B 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.

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.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B/8260B-SIM	Rep	orted		rmance eptable	Not
	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	
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		Х	
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: Hrishikesh Upadhyaya

SIGNATURE:

DATE: December 10, 2021

PEER REVIEW: Andrew Korycinski

DATE: December 14, 2021

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

MICHIGAN TestAmerica

Client Contact Regulatory program: - DW NPDES □ RCRA Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Julia McClafferty Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 734-644-5131 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs Email: kristoffer.hinskev@arcadis.com Analysis Turnaround Time Analyses For lab use only Phone: 248-994-2240 Sampler Name: Sommer Guy TAT if different from below Walk-in client Project Name: Ford LTP Off-Site 3 weeks ✓ 2 weeks Lab sampling Project Number: 30080642.402.04 Method of Shipment/Carrier: 1 week Composite=C / Grab=G 8260B SIM 2 days Vinyl Chloride 8260B PO # 30080642,402,04 Shipping/Tracking No: □ I day Job/SDG No: Containers & Preservatives Matrix Sample Specific Notes / NaOH Special Instructions: 4 Sample Identification Sample Date Sample Time TRIP BLANK 59 G X X X X X 1 Trip Blank MW-1275_110521 3 VOAs for 8260B 11/5/21 6 6 X K X X 11:32 X. × 3 VOAs for 8260B SIM Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard in Irritant Poison B Unknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by: Received by: Date/Time: 11/5/21 13:00 Storage 1115/2 Relinquished by: Received by: 200 1200 Relinquished by Received in Laboratory by: Company:

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159616-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_59

Lab Sample ID: 240-159616-1 Date Collected: 11/05/21 00:00 **Matrix: Water**

Date Received: 11/09/21 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/21 15:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 15:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 15:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 15:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 15:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/21 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137					11/16/21 15:17	1
4-Bromofluorobenzene (Surr)	87		56 - 136					11/16/21 15:17	1
Toluene-d8 (Surr)	96		78 - 122					11/16/21 15:17	1
Dibromofluoromethane (Surr)	108		73 - 120					11/16/21 15:17	1

Client Sample ID: MW-127S_110521

Date Collected: 11/05/21 11:32

Date Received: 11/09/21 10:00

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/13/21 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120			-		11/13/21 02:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/21 18:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 18:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 18:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 18:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 18:50	1
Vinyl chloride	2.3		1.0	0.45	ug/L			11/16/21 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		11/16/21 18:50	1
4-Bromofluorobenzene (Surr)	92		56 - 136		11/16/21 18:50	1
Toluene-d8 (Surr)	99		78 - 122		11/16/21 18:50	1
Dibromofluoromethane (Surr)	118		73 - 120		11/16/21 18:50	1

Lab Sample ID: 240-159616-2

Matrix: Water