

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-160151-1 Client Project/Site: Ford LTP - Off-Site

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

Attn: Kristoffer Hinskey

Mile Del Your

Authorized for release by: 12/3/2021 3:45:03 PM

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

Michael.DelMonico@Eurofinset.com

.....LINKS

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Have a Question?



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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.

Laboratory Job ID: 240-160151-1

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

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-160151-1

Project/Site: Ford LTP - Off-Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

F2 MS/MSD RPD exceeds control limits

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.

Eisted 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/Site: Ford LTP - Off-Site Job ID: 240-160151-1

Job ID: 240-160151-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-160151-1

Comments

No additional comments.

Receipt

The samples were received on 11/16/2021 10:15 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 was 0.9° C.

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.

Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Job ID: 240-160151-1

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

Job ID: 240-160151-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-160151-1	TRIP BLANK_126	Water	11/12/21 00:00	11/16/21 10:15
240-160151-2	MW-145S_111221	Water	11/12/21 11:50	11/16/21 10:15

Detection Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off-Site

Job ID: 240-160151-1

Client Sample ID: TRIP BLANK_126 Lab Sample ID: 240-160151-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-160151-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_126

Date Collected: 11/12/21 00:00 Date Received: 11/16/21 10:15 Lab Sample ID: 240-160151-1

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			11/20/21 05:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/21 05:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 05:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/21 05:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 05:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/21 05:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			·		11/20/21 05:50	1
4-Bromofluorobenzene (Surr)	74		56 - 136					11/20/21 05:50	1
Toluene-d8 (Surr)	106		78 - 122					11/20/21 05:50	1
Dibromofluoromethane (Surr)	93		73-120					11/20/21 05:50	1

12/3/2021

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-160151-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: MW-145S_111221 Lab Sample ID: 240-160151-2

Date Collected: 11/12/21 11:50

Matrix: Water Date Received: 11/16/21 10:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/19/21 02:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		66 - 120					11/19/21 02:44	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			11/20/21 06:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/21 06:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 06:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/21 06:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 06:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/21 06:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		11/20/21 06:12	1
4-Bromofluorobenzene (Surr)	74		<i>56 - 136</i>					11/20/21 06:12	1
Toluene-d8 (Surr)	108		78 - 122					11/20/21 06:12	1
Dibromofluoromethane (Surr)	99		73 - 120					11/20/21 06:12	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-160151-1

Project/Site: Ford LTP - Off-Site

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

Matrix: Water Prep Type: Total/NA

			Pe	rcent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-160150-B-2 MS	Matrix Spike	99	85	110	90
240-160150-D-2 MSD	Matrix Spike Duplicate	104	88	122	96
240-160151-1	TRIP BLANK_126	99	74	106	93
240-160151-2	MW-145S_111221	105	74	108	99
LCS 240-513905/4	Lab Control Sample	104	89	118	97
MB 240-513905/6	Method Blank	99	7 3	109	92

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)	
240-159739-G-3 MS	Matrix Spike	74	
240-159739-M-3 MSD	Matrix Spike Duplicate	75	
240-160151-2	MW-145S_111221	74	
LCS 240-513700/4	Lab Control Sample	75	
MB 240-513700/5	Method Blank	77	
Surrogate Legend			
DCA = 1,2-Dichloroeth	ane-d4 (Surr)		

Eurofins TestAmerica, Canton

Job ID: 240-160151-1

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

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

Lab Sample ID: MB 240-513905/6

Matrix: Water

Analysis Batch: 513905

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

MB MB Analyte Result Qualifier RL MDL Unit D **Prepared** Analyzed Dil Fac 1,1-Dichloroethene 0.49 ug/L 1.0 U 1.0 11/20/21 03:58 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/20/21 03:58 1.0 U 0.44 ug/L Tetrachloroethene 1.0 11/20/21 03:58 trans-1,2-Dichloroethene 1.0 U 0.51 ug/L 1.0 11/20/21 03:58 1.0 U Trichloroethene 1.0 0.44 ug/L 11/20/21 03:58 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/20/21 03:58

MB MB Surrogate Qualifier Limits Prepared Dil Fac %Recovery Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 99 11/20/21 03:58 4-Bromofluorobenzene (Surr) 73 56 - 136 11/20/21 03:58 Toluene-d8 (Surr) 109 78 - 122 11/20/21 03:58 Dibromofluoromethane (Surr) 92 73-120 11/20/21 03:58

Lab Sample ID: LCS 240-513905/4

Matrix: Water

Analysis Batch: 513905

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits 10.0 63 - 134 1,1-Dichloroethene 10.9 ug/L 109 10.0 cis-1,2-Dichloroethene 10.4 ug/L 104 77 - 123 10.0 10.3 103 Tetrachloroethene ug/L 76 - 123 75 - 124 trans-1,2-Dichloroethene 10.0 10.6 ug/L 106 Trichloroethene 10.0 8.96 ug/L 90 70 - 122 Vinyl chloride 10.0 11.0 ug/L 110 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 104 62 - 137 4-Bromofluorobenzene (Surr) 89 56 - 136 Toluene-d8 (Surr) 118 78-122 Dibromofluoromethane (Surr) 73-120 97

Lab Sample ID: 240-160150-B-2 MS

Matrix: Water

Analysis Batch: 513905

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

7a. , 0.0 _ a.o 0.0000	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	10.0	7.96		ug/L		80	56 - 135	
cis-1,2-Dichloroethene	1.0	U F2	10.0	8.59		ug/L		86	66 - 128	
Tetrachloroethene	1.0	U	10.0	7.18		ug/L		72	62 - 131	
trans-1,2-Dichloroethene	1.0	U	10.0	8.27		ug/L		83	56 - 136	
Trichloroethene	1.0	U	10.0	6.70		ug/L		67	61 - 124	
Vinyl chloride	1.0	U	10.0	8.91		ug/L		89	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	85		56 - 136
Toluene-d8 (Surr)	110		78 - 122

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Job ID: 240-160151-1

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

Lab Sample ID: 240-160150-B-2 MS

Matrix: Water

Analysis Batch: 513905

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 90 73 - 120

Lab Sample ID: 240-160150-D-2 MSD

Matrix: Water

Analysis Batch: 513905

Client Sample ID: Matrix Spike Duplicate 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	10.0	9.12	-	ug/L		91	56 - 135	14	26
cis-1,2-Dichloroethene	1.0	U F2	10.0	10.1	F2	ug/L		101	66 - 128	16	14
Tetrachloroethene	1.0	U	10.0	8.59		ug/L		86	62 - 131	18	20
trans-1,2-Dichloroethene	1.0	U	10.0	9.32		ug/L		93	56 - 136	12	15
Trichloroethene	1.0	U	10.0	7.73		ug/L		77	61 - 124	14	15
Vinyl chloride	1.0	U	10.0	9.29		ug/L		93	43 - 157	4	24

MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 104 62 - 137 4-Bromofluorobenzene (Surr) 88 56 - 136 Toluene-d8 (Surr) 122 78 - 122 Dibromofluoromethane (Surr) 96 73-120

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

Lab Sample ID: MB 240-513700/5

Matrix: Water

Analysis Batch: 513700

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

MB MB Analyte Result Qualifier RL**MDL** Unit **Prepared** Analyzed Dil Fac 1.4-Dioxane 2.0 U 2.0 0.86 ug/L 11/18/21 19:41

MB MB %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 66 - 120 11/18/21 19:41 77

Lab Sample ID: LCS 240-513700/4

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 513700

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

Spike LCS LCS %Rec. Added Result Qualifier Unit D %Rec Limits 10.0 10.4 ug/L 104 80 - 122

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 75

Lab Sample ID: 240-159739-G-3 MS

Matrix: Water

Analysis Batch: 513700

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

Sample Sample Spike MS MS %Rec. Analyte **Result Qualifier** Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 UF1 10.0 104 10.4 ug/L 51 - 153

Eurofins TestAmerica, Canton

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-160151-1

MSD MSD

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Project/Site: Ford LTP - Off-Site

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	74		66 - 120

Lab Sample ID: 240-159739-M-3 MSD **Matrix: Water**

Analysis Batch: 513700

Allai	ysis	Daten	. ၁	13700	,

7 maryone Datom Croroc	Sample	Sample	Spike
Analyte	•	Qualifier	Added
1,4-Dioxane	2.0	U F1	10.0
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1.2-Dichloroethane-d4 (Surr)	75		66 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

%Rec. RPD Result Qualifier Unit D %Rec Limits RPD Limit

106 51 - 153 2 ug/L

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-160151-1

Project/Site: Ford LTP - Off-Site

GC/MS VOA

Analysis Batch: 513700

Lab Sample ID 240-160151-2	Client Sample ID MW-145S_111221	Prep Type Total/NA	Matrix Water	Method 8260B SIM	Prep Batch
MB 240-513700/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-513700/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159739-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159739-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 513905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160151-1	TRIP BLANK_126	Total/NA	Water	8260B	
240-160151-2	MW-145S_111221	Total/NA	Water	8260B	
MB 240-513905/6	Method Blank	Total/NA	Water	8260B	
LCS 240-513905/4	Lab Control Sample	Total/NA	Water	8260B	
240-160150-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-160150-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

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Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 240-160151-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_126 Lab Sample ID: 240-160151-1

Date Collected: 11/12/21 00:00 Matrix: Water Date Received: 11/16/21 10:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513905	11/20/21 05:50	LEE	TAL CAN

Date Collected: 11/12/21 11:50 Date Received: 11/16/21 10:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B			513905	11/20/21 06:12	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	513700	11/19/21 02:44	CS	TAL CAN

Laboratory References:

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

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Matrix: Water

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off-Site

Job ID: 240-160151-1

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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Thompse Thomps	TestAm	TestAmerica Laboratory location: Brightor	1	of Custon	Chain of Custody Record 10448 Citation Drive. Suite 200 / Brighton, MI 48116 / 810-229-2783	1116 / 8102	29-2763				 	TestAmerica
Supplementary Control March Control Marc	Client Contact	Regulatory program:	5	~ NPDES	RCRA	Other				-		
Comparison Com	Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris His	nskey	Site Contact: Ju	ulia McClafferty		Lab Co	ntact: M	ce DelM	nico		Testamerica Laboratorica, COC No:
Comparison Com	City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240		Telephone: 734	1-644-5131		Teleph	ne: 330-	197-9396			
Compared	Phone: 248-994-2240	Email: kristoffer.hinskey@arcac	lis.com	Analysis II.	urnaround Time	Ë	┫┞	$\ \cdot\ $	Ang	lyses		only
Sample Identification Sample Date Sample Track Marrier Marr	Puject Name: Ford LTP Off-Site	Sampler Name: Salve Hundle CHF	石庫を研えるが	TAT if different fro	om below 3 weeks							Walk-in client
1	Toject Number: 30080642.402.04	Method of Shipment/Carrier:		Î	l week			g				Lab sampling
NK OL O O O O O O O O	O# 30080642.402.04	Shipping/Tracking No:		_	1 day	Grab	8098	8560				Job/SDG No;
NK			Matrix	Containers	& Preservatives	/)= 4	28 3:					
NK Ab	Sample Identification	Sample Time	Aqueous Sediment Bolld	HCI HNO3	ZaAci Vapres	Composite	OG-S,1-elo					Sample Specific Notes / Special Instructions:
55 -	TRIP BLANK_ (AL)	1	×	-		-	×	 	 	1		1 Trip Blank
Company Comp		7.77	е.	0			X	+	×	X		3 VOAs for 8260B
Company Comp		-						\vdash				S ACMS IOT OZOUB SIN
Company Comp								+				
Company Comp								+				
Genetification Customerical Company Comp						+	+	+	士			
Internation									=			
Company Comp					240-160151 Ch							
Sample Disposal (A fee may be assessed if amples are retained longer than 1 month) Poison B					<u> </u>			ˈ .	. 1			
**************************************	Possible Hazard Identification			Sample Dispo	osal (A fee may be	Si pussassi						
through Cadena at Itomalia@cadenaco.com. Cadena #E203631 3 requested The Company Comp	ron-razard dammable cin Irri ecial Instructions/QC Requirements & Comments:	Poison B	nknown	Return	to Client	Asposal ByL	ap	Archiv	For	8 ,		
THE Company: Main Company Com	ibmit all results through Cadena at Komalia@cadena vel IV Reporting requested	co.com. Cadena #E203631										
WATER The Real Documents 1/15/21 Received by M Company ETA 1/15/21 Document 1/15/21	Shared by Ming the 100	Company	Time:	17.	cocived by	1 KNY	101		Compan	\$ 6		51 (5)
Total Market Company: ETA Deletting	100	Company		N N	occived by		b/		Compar	11		
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	2008, Teutonaria Lebratoria, Inc. Al fight inserved.											

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D. C. T. A. C. A. C. A. C. D. J. D. J. E. C. Maryetina	1
Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login # : 160151
Client Avcadi S Site Name	Cooler unpacked by
	Maria Maria
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Other
Receipt After-hours. Drop-off Date/Time Storage Location	Other
TestAmerica Cooler # Foam Box Client Cooler Box Other	
Packing material used: Bubble Wrap Foam Plastic Bag None Other	The state of the s
COOLANT. Wet Ice) Blue Ice Dry Ice Water None	The state of the s
1 Cooler temperature upon receipt See Multiple Cooler For	
IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. O-8 °C Corrected Cooler T	
IR GUN #IR-15 (CF +0.2°C) Observed Cooler Temp°C Corrected Cooler Temp.	Гетр°С
Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	No Tests that are not
-Were the seals on the outside of the cooler(s) signed & dated?	NO NA checked for nH by
	No Receiving:
-Were tamper/custody seals intact and uncompromised?	No NA VOAs
 3 Shippers' packing slip attached to the cooler(s)? 4 Did custody papers accompany the sample(s)? 	No VOAs Oil and Grease
4 Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? Yes	No TOC
6 Was/were the person(s) who collected the samples clearly identified on the COC?	No L
7 Did all bottles arrive in good condition (Unbroken)?	No 36
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sa	mple type of grab/comp(X/1)
10. Were correct bottle(s) used for the test(s) indicated?	No S
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.	
13. Were all preserved sample(s) at the correct pH upon receipt? Yes Yes	No (NA) pH Strip Lot# HC157842
14. Were VOAs on the COC? 15. Were air bubbles > 6 mm in any VOA vials? Larger than this	(No) NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	No.
17. Was a LL Hg or Me Hg trip blank present? Yes	(No)
Contacted PM Date by via Verbal Vo	Dice Mail Other
Consequence	
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page	Samples processed by:
no SIM on TB per corrected COC, one	0
THE SELL OF TO DET COTRETECT COST, EVE	11/10/21
19. SAMPLE CONDITION	
Sample(s) were received after the recommended holding	
Sample(s) were received	
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)	
VOA Sample Preservation - Date/Time VOAs Frozen	

WI-NC-099

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🔆 eurofins

DRIGIN ID:DEOA (810) 229-2763 SHIPPING DEPARTMENT EUROFINS TESTAMERICA 10448 CITATION DRIVE SUITE 200 BRIGHTON, MI 48116 SHIP DATE: 15NOV21 ACTWGT: 49.15 LB CAD: 0183192/CAFE3507

BILL RECIPIENT

ATTN: SAMPLE RECEVING EUROFINS TEST AMERICA NORTH CANTON 4101 SHUFFEL DRIVE NW

NORTH CANTON OH 44720



FedEx Express E

TRK# 4506 9518 1774

TUE - 16 NOV 11:30A PRIORITY OVERNIGHT

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DATA VERIFICATION REPORT



December 04, 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 WA03 OFF-SITE GW Event Specific Scope of Work References: Sample COC

Laboratory: TestAmerica - North Canton

Laboratory submittal: 160151-1 Sample date: 2021-11-12

Report received by CADENA: 2021-12-03

Initial Data Verification completed by CADENA: 2021-12-04

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 MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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 $48108\ 517\text{-}819\text{-}0356$

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

Reportable Results Only

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton

Laboratory Submittal: 160151-1

	Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_126 2401601511 11/12/2021	NK_126 511 321			MW-145S_111221 2401601512 11/12/2021	S_11122 512 321	11	
			Report		Valid		Report		Valid
Analyte	Cas No.	Result Limit	Limit	Units	Qualifier	Result Limit	Limit	Units	Qualifier
GC/MS VOC									
OSW-8260B									
1,1-Dichloroethene	75-35-4	ND	1.0	l/gn		ND	1.0	l/gn	
cis-1,2-Dichloroethene	156-59-2	ND	1.0	l/gn		ND	1.0	l/gn	
Tetrachloroethene	127-18-4	ND	1.0	l/gn	1	ND	1.0	l/gn	1
trans-1,2-Dichloroethene	156-60-5	ND	1.0	l/gn		ND	1.0	l/gn	
Trichloroethene	79-01-6	ND	1.0	l/gn	1	ND	1.0	l/gn	
Vinyl chloride	75-01-4	ND	1.0	l/gn		ND	1.0	l/gn	
OSW-8260BBSim						:	(5	
1,4-Dioxane	123-91-1					ND	2.0	ng/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-160151-1

CADENA Verification Report: 2021-12-04

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 43725R Review Level: Tier III Project: 30080642.402.04

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-160151-1 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_126	240-160151-1	Water	11/12/21		Х	
MW-145S_111221	240-160151-2	Water	11/12/21		X	Х

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		Х		Х	
2. Requested analyses and sample results		Х		Х	
3. 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	
9. 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 HCI

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.

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: 8260B/8260B-SIM	Rep	orted	Performance Acceptable		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	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD					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		X		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE:

DATE: December 16, 2021

PEER REVIEW: Andrew Korycinski

DATE: December 16, 2021

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc COC No: 3 VOAs for 8260B 3 VOAs for 8260B SIM Sample Specific Notes / Special Instructions: 1 Trip Blank Valk-in client ab sampling Job/SDG No; Sample Disposal (A fee may be assessed if amples are retained longer than 1 month)
Return to Client - Disposal By Lab Archive For Months 兆 MIS 808S8 enexolQ-4, Lab Contact: Mike DelMonico × Vinyl Chloride 82608 Telephone: 330-497-9396 × **LCE 8500B SCE 8590B** × >4 × Lans-1,2-DCE 8260B TestAmerica Laboratory location: Brighton - 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 18-1,2-DCE 8260B × 240-160151 Chain of Custody 1 × 1-DCE 8500B Other C ح O=derO / O=siteoqmoO Filtered Sample (Y / N) 2 Site Contact: Julia McClafferty RCRA Analysis Turnaround Time Others Containers & Preservatives Unpres 1 week 2 days 1 day Felephone: 734-644-5131 < 2 weeks HO*N AT if different from below pyuz HORN NPDES 0 IOH 10 day EONH HSSO4 Other: M Sam funde CHERSON HUNDER CHRESTANGE pitos tnamlba2 Email: kristoffer.hinskey@arcadis.com С. snoanby × Chent Project Manager: Kris Hinskey 414 Regulatory program: Method of Shipment/Carrier: Sample Time B Felephone: 248-994-2240 Shipping/Tracking No: مسد حيدر 12211 Sample Date Possible Hazard Identification
▼ Non-Hazard
¬ lammable
Special Instructions/QC Requirements & Comments: Sample Identification Client Contact Address: 28550 Cabot Drive, Suite 500 TRIP BLANK_ (AL roject Number: 30080642,402.04 roject Name: Ford LTP Off-Site City/State/Zip: Novi, MI, 48377 Company Name: Arcadis NE-1458 PO#30080642,402,04 one: 248-994-2240

Submit all results through Cadena at Itomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-160151-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_126

Lab Sample ID: 240-160151-1 Date Collected: 11/12/21 00:00 **Matrix: Water**

Date Received: 11/16/21 10:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/20/21 05:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/21 05:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 05:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/21 05:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 05:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/21 05:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			-		11/20/21 05:50	1
4-Bromofluorobenzene (Surr)	74		56 ₋ 136					11/20/21 05:50	1
Toluene-d8 (Surr)	106		78 - 122					11/20/21 05:50	1
Dibromofluoromethane (Surr)	93		73 - 120					11/20/21 05:50	1

Client Sample ID: MW-145S_111221

Date Collected: 11/12/21 11:50	Matrix: Water
Date Received: 11/16/21 10:15	

Method: 8260B SIM - Volat Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/19/21 02:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		66 - 120			-		11/19/21 02:44	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	•	Qualifier	, RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/20/21 06:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/21 06:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 06:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/21 06:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 06:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/21 06:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		11/20/21 06:12	1
4-Bromofluorobenzene (Surr)	74		56 - 136					11/20/21 06:12	1
Toluene-d8 (Surr)	108		78 - 122					11/20/21 06:12	1
Dibromofluoromethane (Surr)	99		73 - 120					11/20/21 06:12	1

Lab Sample ID: 240-160151-2