

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/3/2023 5:05:45 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-180973-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Canton

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization

Your

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Generated 3/3/2023 5:05:45 AM

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Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	E
Glossary		5
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	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	0
Dil Fac	Dilution Factor	9
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)	13
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)	
TEO		

- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Job ID: 240-180973-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-180973-1

Receipt

The samples were received on 2/25/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.4°C and 0.6°C

GC/MS VOA

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

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

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-180973-1	TRIP BLANK_22	Water	02/23/23 00:00	02/25/23 08:00
240-180973-2	MW-156S_022323	Water	02/23/23 13:35	02/25/23 08:00

Detection Summary

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

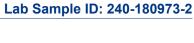
Client Sample ID: TRIP BLANK_22

No Detections.

Client Sample ID: MW-156S_022323

No Detections.

Eurofins Canton



Lab Sample ID: 240-180973-1

Job ID: 240-180973-1

Client Sample ID: TRIP BLANK_22

Date Collected: 02/23/23 00:00 Date Received: 02/25/23 08:00

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/23 17:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/23 17:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/23 17:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/23 17:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/23 17:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/23 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			-		02/28/23 17:12	1
4-Bromofluorobenzene (Surr)	90		56 - 136					02/28/23 17:12	1
Toluene-d8 (Surr)	91		78 - 122					02/28/23 17:12	1
Dibromofluoromethane (Surr)	98		73 - 120					02/28/23 17:12	1

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Eurofins Canton

Client Sample ID: MW-156S_022323

Date Collected: 02/23/23 13:35 Date Received: 02/25/23 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			03/01/23 20:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120			-		03/01/23 20:31	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/23 20:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/23 20:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/23 20:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/23 20:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/23 20:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/23 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		02/28/23 20:08	1
4-Bromofluorobenzene (Surr)	87		56 - 136					02/28/23 20:08	1
Toluene-d8 (Surr)	91		78 - 122					02/28/23 20:08	1
Dibromofluoromethane (Surr)	97		73 - 120					02/28/23 20:08	1

3/3/2023

Job ID: 240-180973-1

Lab Sample ID: 240-180973-2 Matrix: Water

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

Matrix: Water

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Prep Type: Total/NA

Prep Type: Total/NA

				Percent Su	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-180962-B-2 MS	Matrix Spike	101	90	94	96
240-180962-B-2 MSD	Matrix Spike Duplicate	97	92	91	93
240-180973-1	TRIP BLANK_22	104	90	91	98
240-180973-2	MW-156S_022323	103	87	91	97
LCS 240-563755/5	Lab Control Sample	98	92	92	98
MB 240-563755/8	Method Blank	105	90	92	98
Surrogate Legend					
DCA = 1,2-Dichloroetha	ne-d4 (Surr)				
BFB = 4-Bromofluorober	nzene (Surr)				
TOL = Toluene-d8 (Surr)	•				
DBFM = Dibromofluoron	nethane (Surr)				

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

Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(66-120)		1
240-180973-2	MW-156S_022323	84		
240-180977-E-2 MS	Matrix Spike	84		
240-180977-K-2 MSD	Matrix Spike Duplicate	83		
LCS 240-563886/4	Lab Control Sample	87		
MB 240-563886/6	Method Blank	95		

Surrogate Legend

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

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

Matrix: Water Analysis Batch: 563755

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/23 15:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/23 15:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/23 15:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/23 15:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/23 15:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/23 15:32	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		02/28/23 15:32	1
4-Bromofluorobenzene (Surr)	90		56 _ 136		02/28/23 15:32	1
Toluene-d8 (Surr)	92		78 - 122		02/28/23 15:32	1
Dibromofluoromethane (Surr)	98		73 - 120		02/28/23 15:32	1

Lab Sample ID: LCS 240-563755/5 Matrix: Water Analysis Batch: 563755

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.3		ug/L		86	63 - 134	
cis-1,2-Dichloroethene	20.0	18.1		ug/L		91	77 - 123	
Tetrachloroethene	20.0	20.1		ug/L		100	76 - 123	
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	75 - 124	
Trichloroethene	20.0	18.8		ug/L		94	70 - 122	
Vinyl chloride	20.0	19.7		ug/L		99	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: 240-180962-B-2 MS Matrix: Water Analysis Batch: 563755

Sample Sample Spike MS MS %Rec Result Qualifier Added Limits Analyte **Result Qualifier** %Rec Unit D U 2000 56 - 135 1,1-Dichloroethene 100 1740 ug/L 87 cis-1,2-Dichloroethene 120 2000 1910 66 - 128 ug/L 90 2000 Tetrachloroethene 100 U 1990 ug/L 99 62 - 131 trans-1,2-Dichloroethene 180 2000 2160 ug/L 99 56 - 136 Trichloroethene 2000 3860 61 - 124 2100 ug/L 88 Vinyl chloride 100 U 2000 2010 ug/L 100 43 - 157 MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	94		78 - 122

Prep Type: Total/NA

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Client Sample ID: Method Blank

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

Prep Type: Total/NA

Lab Sample ID: 240-180962-B-2 MS

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

Matrix: Water Analysis Batch: 563755									Prep 1	Type: To	tal/NA
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
Dibromofluoromethane (Surr)	96		73 - 120								
Lab Sample ID: 240-180962-E	3-2 MSD						Client S	ample IC): Matrix Sp	oike Dup	licate
Matrix: Water									Prep 1	Type: To	tal/NA
Analysis Batch: 563755											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	100	U	2000	1680		ug/L		84	56 - 135	4	26
cis-1,2-Dichloroethene	120		2000	1860		ug/L		87	66 - 128	3	14
Tetrachloroethene	100	U	2000	1970		ug/L		98	62 - 131	1	20
trans-1,2-Dichloroethene	180		2000	2080		ug/L		95	56 - 136	4	15
Trichloroethene	2100		2000	3730		ug/L		81	61 - 124	3	15
Vinyl chloride	100	U	2000	2010		ug/L		101	43 - 157	0	24
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	97		62 - 137								
4-Bromofluorobenzene (Surr)	92		56 - 136								
Toluene-d8 (Surr)	91		78 - 122								
Dibromofluoromethane (Surr)	93		73 - 120								

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

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

Lab Sample ID: MB 240-563886/6 Matrix: Water	6											Client S	ample ID: Metho Prep Type: 1	
Analysis Batch: 563886														
		МВ	МВ											
Analyte	Re	esult	Qualifier		RL		MDL	Unit		D	Р	repared	Analyzed	Dil Fac
1,4-Dioxane		2.0	U		2.0		0.86	ug/L					03/01/23 13:13	1
		ΜВ	МВ											
Surrogate	%Reco	very	Qualifier	Limit	s						P	repared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		95		66 - 1	20					_			03/01/23 13:13	1
										01		0		0
Lab Sample ID: LCS 240-563886/	4									Cli	ent	Sample	ID: Lab Control	
Matrix: Water													Prep Type: 1	otal/NA
Analysis Batch: 563886				Spike		LCS	1.00						%Rec	
Analyta				Added		Result		ifior	Unit		D	%Rec	Limits	
Analyte				10.0		9.85	Quai	mer			_	98	80 - 122	
1,4-Dioxane				10.0		9.65			ug/L			90	00 - 122	
	LCS	LCS												
Surrogate	%Recovery	Qual	ifier	Limits										
1,2-Dichloroethane-d4 (Surr)	87			66 - 120										
-	MS											Client	Sample ID: Matri	x Spike
Lab Sample ID: 240-180977-E-2 I													Prep Type: 1	
Lab Sample ID: 240-180977-E-2 M Matrix: Water														
Matrix: Water														
-	Sample	Sam	ple	Spike		MS	MS						%Rec	
Matrix: Water	Sample Result			Spike Added		MS Result		ifier	Unit		D	%Rec	%Rec Limits	

Eurofins Canton

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	84		66 - 120								
Lab Sample ID: 240-180977-	K-2 MSD					c	Client Sa	ample IC): Matrix Sp	oike Dur	olicate
Matrix: Water									Prep 1	Гуре: То	tal/NA
Analysis Batch: 563886											
	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	10.2		ug/L		102	51 _ 153	1	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	83		66 - 120								

GC/MS VOA

Analysis Batch: 563755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-180973-1	TRIP BLANK_22	Total/NA	Water	8260D	
240-180973-2	MW-156S_022323	Total/NA	Water	8260D	
MB 240-563755/8	Method Blank	Total/NA	Water	8260D	
_CS 240-563755/5	Lab Control Sample	Total/NA	Water	8260D	
240-180962-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-180962-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
nalysis Batch: 563886					
		Ргер Туре	Matrix	Method	Prep Batch
nalysis Batch: 563886 Lab Sample ID	6		Matrix Water	Method 8260D SIM	Prep Batch
nalysis Batch: 563886 Lab Sample ID 240-180973-2	6 Client Sample ID	Ргер Туре			Prep Batch
nalysis Batch: 563886 Lab Sample ID 240-180973-2 MB 240-563886/6	6 Client Sample ID MW-156S_022323	Prep Type Total/NA	Water	8260D SIM	Prep Batch
nalysis Batch: 563886	6 Client Sample ID MW-156S_022323 Method Blank	Prep Type Total/NA Total/NA	Water Water	8260D SIM 8260D SIM	Prep Batch

Date Collected: 02/23/23 00:00

Matrix: Water

Matrix: Water

Lab Sample ID: 240-180973-1

Client Sample ID: TRIP BLANK_22

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D			563755	TES	EET CAN	02/28/23 17:12	

Client Sample ID: MW-156S_022323 Date Collected: 02/23/23 13:35

Date Received: 02/25/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	563755	TES	EET CAN	02/28/23 20:08
Total/NA	Analysis	8260D SIM		1	563886	BAJ	EET CAN	03/01/23 20:31

Laboratory References:

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

Accreditation/Certification Summary

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

Laboratory: Eurofins Canton

aboratory: Eurofins Can I accreditations/certifications held by the		ions/certifications are applicable to this report	<u>.</u>	
Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23 *	
Connecticut	State	PH-0590	12-31-23	
Florida	NELAP	E87225	06-30-23	
Georgia	State	4062	02-27-23 *	
Illinois	NELAP	200004	07-31-23	
lowa	State	421	06-01-23	
Kentucky (UST)	State	112225	02-27-23 *	
Kentucky (WW)	State	KY98016	12-31-23	
Michigan	State	9135	02-27-23 *	
Minnesota	NELAP	039-999-348	12-31-23	
Minnesota (Petrofund)	State	3506	08-01-23	
New Jersey	NELAP	OH001	06-30-23	
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-27-23 *	
Ohio VAP	State	CL0024	02-27-23 *	
Oregon	NELAP	4062	02-28-24	
Pennsylvania	NELAP	68-00340	08-31-23	
Texas	NELAP	T104704517-22-17	08-31-23	
Virginia	NELAP	460175	09-14-23	
West Virginia DEP	State	210	12-31-23	

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

190 Test	Chain TestAmerica Laboratory location: <u>Brighton</u> — 10448 Citation	Chain of Custody Record 10448 Citation Drive, Suite 2007 Brighton, MI 48116 / 810-229-2763	2763	
Client Contact	L	- NPDES - RCRA - Other		
Company Name: Arcadis	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc. COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
City/State/Zip: Novi, MI, 48377	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Phone: 248-994-2240 Project Name: Ford LTP Off-Site	Sampler Name:	cut from b		Walk-in client
Project Number: 30167538.402.04	- 1	(N		Lab sampling
PO# 30167538.402.04	Shipping/Tracking No:	Grab	82608	Job/SDG No:
	Matrix	Containers & Preservativ	.2-DCE 8; 5-1,2-DCE 8260B 8260B 8260B 8260B 8260B 8260B 8300168 8300168 8300168 8300168 8300168 8300168 8300168 8300168 8300168 830016 80016 80000 80000000000	Sample Specific Notes /
Sample Identification	Sample Date Sample Time At 4 0010 50010	Com	Vinyi TCE PCE	Special Instructions:
TRIP BLANK_22	-			1 Trip Blank
022323 MM - 1545 _ 0223723	2-23-23 [335 6	N G X	× × × × × ×	3 VOAs for 8260B 3 VOAs for 8260B SIM
			240-180973 Chain of Custody	
-				
Possible Hazard Identification	itant 🛛 Poison B 🖉 Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client 🖉 Disposal By Lab	es are retalmed longer than 1 month) Archive For Months	
	so.com. Cadena #E203631			
Relinquishedoy Relinquished by: Relinquished by:	A.S.	30 Received by: Novi CorU Received by:	57. R. R. L. Company: Company: Company: Company:	Date/Time: 2.23.23 / 473 • Date/Time: 2.124 /13 10 13 5
COOM TRAVERS & COUNTRACT & COU	EFTR 2/24/23	10,451 James Ite	U ETNC	7-25-73 800

3/3/2023

Eurofins - Canton Sample Receipt Form/Narrative Login # :
Barberton Facility Client Site Name Soler unpacked by:
Cooler Received on 2-25-23 Opened on 2-27-23 Jam by
FedEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location
Eurofins Cooler # 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 K See Multiple Cooler Form
IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp. C C Corrected Cooler Temp. °C
IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp°C Corrected Cooler Temp°C
IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp°C Corrected Gooler Temp°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Cach Yes No
-Were the seals on the outside of the cooler(s) signed & dated? (Yes No NA checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes, No Receiving:
-Were tamper/custody seals intact and uncompromised?
3. Shippers' packing slip attached to the cooler(s)?
4. Did custody papers accompany the sample(s)?
 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC?
 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/D)?
10. Were correct bottle(s) used for the test(s) indicated?
11. Sufficient quantity received to perform indicated analyses? Yes 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?
14. Were VOAs on the COC? 15. Were air bubbles >6 mm in any VOA vials? Larger than this. () Yes No. NA
 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 # COUPIED Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes (No)
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES D additional next page Samples processed by:
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding 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 further preserved in the laboratory.
Sample(s)
VOA Sample Preservation - Date/Time VOAs Frozen:

Login # : _

Cooler Descript		on Sample Receipt Mu Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
EC Client Box	Other IR-13 IR-16 IR-17	0.6	0.4	Wet Ice Blue Ice Dy Water None
EC Client Box	Other IR-13 IR-16 IR-17	0.8	0.6	Wet Ice Blue Ice Dry I Water None
EC Client Box	Other IR-13 IR-16 IR-17			Wellice Blue ice Diy
EC Client Box	Other 18-13 IR-16 IR-17			Wetice Blue Ice Dry I
	Other IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dry I
	Other IR-13 IR-16 IR-17			Water None Wet ice Dive Ice Dry I
	IR.13 IR.14 IR.17			Water None Wet Ice Blue Ice Dy I
	Other IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dy I
	Other IR-13 IR-16 IR-17			Water None Wellice Blue Ice Dry I
	Other IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dryk
	Other IR-13 IR-16 IR-17			Water None Wetice Dive Ice Dry k
EC Client Box	Other			Water None
EC Client Box	Other IR-13 IR-16 IR-17			Water None
EC Client Box	Other IR-13 IR-16 IR-17			Wet ice Blue ice Dy in Water None
EC Client Box	Other IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry k Water None
EC Client Box	Other IR-13 IR-16 IR-17			Wellice Bluelice Dyle Water None
EC Client Box	Other IR-13 IR-16 IR-17			Wellce Blue Ice Dyk Water None
EC Client Box	Other IR-13 IR-16 IR-17			Wet ice Dive ice Dry k Water Name
EC Client Box	Other IR-13 IR-16 IR-17			Wellice Bluelice Dryk Water None
EC Client Box	Other IR-13 IR-16 IR-17			Wet ice Blue ice Dryic Water Noise
EC Client Box	Other II-13 III-16 III-17			Wet Ice Blue Ice Dryle Water None
EC Client Box	Other IR-13 IR-16 IR-17			Wellice Nuelice Byla Water None
EC Client Box	Other IR-13 IR-16 IR-17			Wet Ice Dive Ice Dry Ic Water None
EC Client Box	Other IR-13 IR-16 IR-17			Wet ice Blue ice Dry ic Water Mone
EC Client Box	B.10 (B.14 (B.17			Wet Ice Blue Ice Dry Ic Water None
EC Client Box	10.13 10.14 10.17			Watice Bive ice Dry ic
EC Client Box	P.12 P.14 P.17			Weter None Wetice Blue ice Dry ic
EC Client Box	B-12 B-14 B-17			Water None Watice Sive ice Dry ice
EC Client Box	P.13 P.16 P.17			Water None Wet Ice Blue Ice Dry Ice
	Other IR-13 IR-16 IR-17			Water None Wet ice Blue ice Dry ici
	10-12 M-14 10-17			Water None Wet ice Blue ice Dry ice
	Other IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dry Ice
	M.13 M.14 M.17			Water None Wet Ice Blue Ice Dry Ice
	Mail: 10.14 10.17			Water None Wet ice Blue ice Dry ice
	10-11 ID-14 ID-17			Water None Wet Ice Blue Ice Dry Ice
C Client Box	Other R-13 IR-16 IR-17			Water None

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

DATA VERIFICATION REPORT



March 06, 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: 30146655.402.04 off-site Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory submittal: 180973-1 Sample date: 2023-02-23 Report received by CADENA: 2023-03-03 Initial Data Verification completed by CADENA: 2023-03-06 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 <u>http://clms.cadenaco.com/index.cfm</u>.

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 - Barberton Laboratory Submittal: 180973-1

		Sample Name: Lab Sample ID: Sample Date:	Sample ID: 2401809731						MW-156S_022323 2401809732 2/23/2023		
				Report		Valid		Report		Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	
GC/MS VOC											
<u>OSW-826</u>	<u>0D</u>										
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		
<u>OSW-826</u>	<u>ODSIM</u>										
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-180973-1 CADENA Verification Report: 2023-03-06

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49031R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-180973-1 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 Collection		Analysis			
	Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM		
	TRIP BLANK_22	240-180973-1	Water	02/23/23		Х			
-	MW-156S_022323	240-180973-2	Water	02/23/23		Х	Х		

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	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	
11. Narrative summary of Quality Assurance or sample problems provided		х		х	
12. Data Package Completeness and Compliance		Х		Х	

DATA REVIEW

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 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.

DATA REVIEW

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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo Acce	Not Required	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation					·
System performance and column resolution		Х		X	
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:	Dilip Kumar
SIGNATURE:	Perting
DATE:	March 24, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 24, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record



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

Client Contact Company Name: Arcadis	Regulat							NPDES						ther								TestAmerica Laboratories, I
ddress: 28550 Cabot Drive, Suite 500	Client Project	lanager: Kris	Hinsk	ey			Site C	Contact	t: Ch	ristin	a Weav	er			Lab	Conta	ct: Mi	ke Del	Monie	0		COC No:
	Telephone: 248	-994-2240	_				Telep	hone:	248-9	994-22	240	-			Telephone: 330-497-9396							
ity/State/Zip: Novi, MI, 48377	Email: kristoff	r hinekov@ar	cadie					nalvai	s Tur	narou	ind Tia	1e - 1		_				-	nalv			1 of 1 COCs For lab use only
hone: 248-994-2240			cauis.	com											1	Γ	Τ					
roject Name: Ford LTP Off-Site	Sampler Name	E Fos	-	u			TAT	f differen	-	3 w												Walk-in client
roject Number: 30167538.402.04	Method of Ship		11	-			10	day		2 we										5		Lab sampling
O # 30167538.402.04							4			2 da			(N/N)		0	8260B			80	8 SIN		
0 # 30107536.402.04	Shipping/Track	ing No:								1 da			ple ()	50B	8260B	E 82			926	8260		Job/SDG No:
					Matrix	1		Contain	ers &	k Prese	rvatives		Sam	826	СШ СШ	2-DC	8	8	loride	aue		
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment Solid	Other:	H2SO4	HN03	HOW	ZnAc/ NaOH	Unpres Other:		Filtered	1,1-DCE 8260B	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1.4-Dioxane 82608		Sample Specific Notes / Special Instructions:
TRIP BLANK_ 22	-		Π	1			T	1	Τ	Ι			NC	3 X	X	X	X	x	X		T	1 Trip Blank
MW-1565 022323	2-23-23	1335		6				6		1			NC	λX	X	X	×	X	X		-	3 VOAs for 8260B
		(77)	\vdash	-			╉┼	-	-	+		_		1		10	10	1	1	X	\rightarrow	3 VOAs for 8260B SIM
										1				-				\vdash			-	
			\vdash	\rightarrow		-	+		+			_		_	-	-	-					
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			\square	\rightarrow	_	<u> </u>	+		+	-			_									
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Possible Hazard Identification						<u> </u>					ĻĹ											
✓ Non-Hazard Flammable Skin	Irritant 🔽 Poiso	n B	Unkn	nown			Sa			o Clier			sposal				Ined Io Archive		han 1	month) Months		
pecial Instructions/QC Requirements & Comments: ample Address: 12100 おちてゃん イロ	151																	_				
ubmit all results through Cadena at itomalia@cade		E203631																				
evel IV Reporting requested.																						
linquished by: JOE FOSTIN	Company	dis		3.0	Time: 23.2'	3/1	430	2			11	8	LD	ST	· RA	48		Com	A G	iadis		Date/Time: 2.23.23 /1930
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03/03/2023

Client Sample ID: TRIP BLANK_22

Date Collected: 02/23/23 00:00

Date Received: 02/25/23 08:00

Mathead, OW040,0000 Males	
wethod: 500846 8260D - Vola	tile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/23 17:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/23 17:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/23 17:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/23 17:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/23 17:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/23 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery (Qualifier	LIMITS	Prepared	Analyzea	DII Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		02/28/23 17:12	1
4-Bromofluorobenzene (Surr)	90		56 - 136		02/28/23 17:12	1
Toluene-d8 (Surr)	91		78 - 122		02/28/23 17:12	1
Dibromofluoromethane (Surr)	98		73 - 120		02/28/23 17:12	1

Client Sample ID: MW-156S_022323 Date Collected: 02/23/23 13:35 Date Received: 02/25/23 08:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-180973-2

Matrix: Water

Method: SW846 8260D 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			03/01/23 20:31	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)			66 - 120					03/01/23 20:31	1	

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/23 20:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/23 20:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/23 20:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/23 20:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/23 20:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/23 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		02/28/23 20:08	1
4-Bromofluorobenzene (Surr)	87		56 - 136					02/28/23 20:08	1
Toluene-d8 (Surr)	91		78 - 122					02/28/23 20:08	1

1

Lab Sample ID: 240-180973-1 Matrix: Water