

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/18/2023 1:17:58 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-184625-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

low

Generated 5/18/2023 1:17:58 AM

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

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TEF

TEQ

TNTC

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

3 4 5 6
4 5 6
5 6
5 6
6
6
8
0
0
9
13
_

Job ID: 240-184625-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-184625-1

Receipt

The samples were received on 5/4/2023 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 1.2°C and 1.6°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 US Inc Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-184625-1	TRIP BLANK_155	Water	05/02/23 00:00	05/04/23 08:00
240-184625-2	MW-225S_050223	Water	05/02/23 12:05	05/04/23 08:00

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Detection Summary

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

Client Sample ID: TRIP BLANK_155

No Detections.

Client Sample ID: MW-225S_050223

No Detections.

Job ID: 240-184625-1

Lab Sample ID: 240-184625-1

Lab Sample ID: 240-184625-2



Client Sample ID: TRIP BLANK_155

Date Collected: 05/02/23 00:00 Date Received: 05/04/23 08:00

	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			05/11/23 20:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 20:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 20:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 20:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 20:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 128			-		05/11/23 20:22	1
Dibromofluoromethane (Surr)	97		77 - 124					05/11/23 20:22	1
Toluene-d8 (Surr)	116		80 - 120					05/11/23 20:22	1
4-Bromofluorobenzene	90		76 - 120					05/11/23 20:22	1

Job ID: 240-184625-1

Matrix: Water

Lab Sample ID: 240-184625-1

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Client Sample ID: MW-225S_050223

Date Collected: 05/02/23 12:05 Date Received: 05/04/23 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			05/07/23 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		75 - 133			-		05/07/23 05:34	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			05/11/23 23:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 23:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 23:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 128			-		05/11/23 23:41	1
Dibromofluoromethane (Surr)	98		77 - 124					05/11/23 23:41	1
Toluene-d8 (Surr)	114		80 - 120					05/11/23 23:41	1
4-Bromofluorobenzene	97		76 - 120					05/11/23 23:41	1

Job ID: 240-184625-1

Lab Sample ID: 240-184625-2 Matrix: Water

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

Lab Control Sample Dup

Method Blank

Matrix: Water

Prep Type: Total/NA

				Percent Su	rrogate Recovery (A	Acceptance Limits)	
		DCA	DBFM	TOL	BFB		
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)		
240-184625-1	TRIP BLANK_155	98	97	116	90		
240-184625-2	MW-225S_050223	95	98	114	97		
LCS 460-908766/4	Lab Control Sample	89	86	109	91		
LCSD 460-908766/5	Lab Control Sample Dup	95	95	112	96		
MB 460-908766/10	Method Blank	96	97	117	81		
Surrogate Legend							
DCA = 1,2-Dichloroeth							
DBFM = Dibromofluoro							
TOL = Toluene-d8 (Su							
BFB = 4-Bromofluorob	enzene						
lethod: 8260D SI	M - Volatile Organic Com	pounds (GC	/MS)				
latrix: Water		· · ·				Prep Type:	Total/NA
				Percent Su	rrogate Recovery (A	Acceptance Limits)	
		BFB					
Lab Sample ID	Client Sample ID	(75-133)					
240-184625-2	MW-225S_050223	106					
LCS 460-907549/4	Lab Control Sample	107					

108

105

Surrogate Legend

LCSD 460-907549/5

MB 460-907549/8

BFB = 4-Bromofluorobenzene

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

Matrix: Water Analysis Batch: 908766

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/11/23 18:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 18:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 18:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 18:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 18:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 18:53	1

	MB	мв					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 128	_		05/11/23 18:53	1
Dibromofluoromethane (Surr)	97		77 _ 124			05/11/23 18:53	1
Toluene-d8 (Surr)	117		80 - 120			05/11/23 18:53	1
4-Bromofluorobenzene	81		76 - 120			05/11/23 18:53	1

Lab Sample ID: LCS 460-908766/4 Matrix: Water Analysis Batch: 908766

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.5		ug/L		98	68 - 133	
cis-1,2-Dichloroethene	20.0	20.3		ug/L		101	78 - 121	
Tetrachloroethene	20.0	22.5		ug/L		112	70 - 127	
trans-1,2-Dichloroethene	20.0	19.5		ug/L		97	74 - 126	
Trichloroethene	20.0	19.8		ug/L		99	71 _ 121	
Vinyl chloride	20.0	18.5		ug/L		92	55 _ 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			70 - 128
Dibromofluoromethane (Surr)	86		77 - 124
Toluene-d8 (Surr)	109		80 - 120
4-Bromofluorobenzene	91		76 - 120

Lab Sample ID: LCSD 460-908766/5 Matrix: Water Analysis Batch: 908766

Spike LCSD LCSD %Rec RPD Added RPD Limit Analyte **Result Qualifier** %Rec Limits Unit D 20.0 18.8 30 1,1-Dichloroethene ug/L 94 68 - 133 4 cis-1,2-Dichloroethene 20.0 20.5 102 78 - 121 ug/L 1 30 Tetrachloroethene 20.0 20.9 ug/L 105 70 - 127 7 30 trans-1,2-Dichloroethene 20.0 19.2 ug/L 96 74 - 126 1 30 Trichloroethene 20.0 18.4 ug/L 92 71 - 121 7 30 Vinyl chloride 20.0 17.1 ug/L 85 55 - 144 8 30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 128
Dibromofluoromethane (Surr)	95		77 - 124
Toluene-d8 (Surr)	112		80 - 120

5

10

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

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

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

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10

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued) Lab Sample ID: LCSD 460-908766/5 Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA Analysis Batch: 908766 LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 96 76 - 120 Method: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 460-907549/8 **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA Analysis Batch: 907549 MB MB Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 05/07/23 00:11 1 MB MB Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 4-Bromofluorobenzene 105 75 - 133 05/07/23 00:11 1 Lab Sample ID: LCS 460-907549/4 **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Analysis Batch: 907549 Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec 1,4-Dioxane 5.00 4.09 82 57 - 124 ug/L LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 107 75 - 133 Lab Sample ID: LCSD 460-907549/5 **Client Sample ID: Lab Control Sample Dup** Matrix: Water Prep Type: Total/NA Analysis Batch: 907549 Spike LCSD LCSD %Rec RPD Analyte Added Qualifier Unit %Rec Limits RPD Limit Result D

4.20

ug/L

 1,4-Dioxane
 5.00

 LCSD
 LCSD

 Surrogate
 %Recovery

 4-Bromofluorobenzene
 108

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84

57 - 124

30

2

GC/MS VOA

Analysis Batch: 907549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184625-2	MW-225S_050223	Total/NA	Water	8260D SIM	
MB 460-907549/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-907549/4	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 460-907549/5	Lab Control Sample Dup	Total/NA	Water	8260D SIM	
nalysis Batch: 90876		Deep Tree	Madaia	Mathad	Drev Datab
.ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
_ab Sample ID		Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batch
Lab Sample ID 240-184625-1	Client Sample ID				Prep Batch
Lab Sample ID 240-184625-1 240-184625-2	Client Sample ID TRIP BLANK_155	Total/NA	Water	8260D	Prep Batch
nalysis Batch: 90876 Lab Sample ID 240-184625-1 240-184625-2 MB 460-908766/10 LCS 460-908766/4	Client Sample ID TRIP BLANK_155 MW-225S_050223	Total/NA Total/NA	Water Water	8260D 8260D	Prep Batch

Client Sample ID: TRIP BLANK_155 Lab Sample ID: 240-184625-1 Date Collected: 05/02/23 00:00 Matrix: Water Date Received: 05/04/23 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 908766 EMM EET EDI 05/11/23 20:22 Analysis 1 Client Sample ID: MW-225S_050223 Lab Sample ID: 240-184625-2 Date Collected: 05/02/23 12:05 Matrix: Water Date Received: 05/04/23 08:00 Batch Batch Dilution Batch Prepared

Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	908766	EMM	EET EDI	05/11/23 23:41	
Total/NA	Analysis	8260D SIM		1	907549	KLB	EET EDI	05/07/23 05:34	

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Accreditation/Certification Summary

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

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

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Client Contact	Regulatory program: DW	NPDES RCRA 0ther		
Company Name: Arcadis Add-me: 196660 C-bea Disine Suite 600	Client Project Manager: Kris Ilinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc COC No:
Autrices. 26229 C.2001 DJ PC; Outre 200	Tclephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	- JUJ - J.
спусяникир: мом, мп, 40377	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only CUCS
Prone: 248-994-2240 Project Name: Furd I.TP Off-Site	Sampler Name: Kent Lospr	TAT if afflerent from below 3 A Across Conception 1 - 3 weeks 4 A Across Conception 1 - 2 weeks		Walk-in client
Project Number: 30167538.402.04	ent/Ci	(N	8	Lab sampling
PO#30167538.402.04	Shipping/Tracking No:	/ Crab	8560E 8560E	Job/SDG No:
Sample Identification	Sample Date Sample Line Sample Cate	1'1-DCE 8560 Composite Composite C Lifeted Samp Unbres Nach HCC HXON HCC HXON HZON	cis-1,2-DCE 8: PCE 8260B TCE 8260B Vinyl Chlonde Vinyl Chlonde 3,4-Dioxane 8;	Sample Specific Notes / Special Instructions:
TRIP BLANK_155	5/2/2 Ke/2/2		x x x x x	1 Trip Blank
MN-2255-050223	5/2/23 1205 6	N N Q	XXXXXX	3 VOAs for 8260B 3 VOAs for 8260B SIM
		240-184625 Chain of Custody		ICHIGAN 190
Identificat		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Detunents (A fee may be assessed if samples are retained longer than 1 month)	tes are retained longer than 1 month)	
ard Flammable ions/QC: Requirements & Comment sss: 34/8000 5/26 afts through Cadena at ftomalia@ ting requested.	Unk	Return to Client Disposal By Lab	C Archive For L Months	
Relinquished by: Relinquishey by Relinquisher by:	Company Company Company Company Company Company Company Company	1700 Received by: 1237 Received by: 1237 Received by: Received in Laboratory by:	Breach Company	Date/Time: 5/2/23 1700 Date/Time: Date/Time:

5/18/2023

14 15

Eurofins - Canton Sample Receipt Form/Narrative Login # : Barberton Facility
Client Arcadis Site Name Cooler unpacked by:
Cooler Received on 5423 Opened on 5423 RAChelle HAidet
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other Receipt After-hours: Drop-off Date/Time Storage Location
Receipt After-hours: Drop-off Date/Time Storage Location Eurofins Cooler # EC 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 receiptSee Multiple Cooler Form IR GUN # (CF + O °C) Observed Cooler Temp °C Corrected Cooler Temp °C 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No
 Were the seals on the outside of the cooler(s) signed & dated? Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottle sarrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservative: (MN), # of containers (MN), and sample type of grab/comp(MN)? Were correct bottle(s) used for the test(s) indicated? Sufficient quantity received to perform indicated analyses? Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC? Were vOAs on the COC? Were vOAs on the COC? Were all preserved sample(s) at the correct pH upon receipt? Were vOAs on the COC? Were air bubbles >6 mm in any VOA vials? Larger than this. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding 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	#	:	184625

Cooler	Description	IR Gun #	Observed	Corrected	Coolant
51	Circle)	(Circle)	Temp °C	Temp °C	(Circle)
EC Clien	Box Other		1.2	1.2	Wet loe Blue Ice Di Water None
EC Clen	t Box Other		1.6	1.6	Wet ice Blue ice Dr Water None
EC Clien	t Box Other	IR GUN #:			Wet Ice Blue Ice Dr Water None
EC Clien	Box Other	IR GUN #:			Wet ice Blue ice Dr Water None
tC Clien	Box Other	IR GUN #:			Wellce Bluelce Dr
EC Clien		IR GUN #:			Water None Wet ice Sive ice Dr
EC Clien		IR GUN #:			Water None Wet Ice Blue Ice Dr
EC Clien		IR GUN #:			Water None Wet ice Dive ice Dry
		IR GUN #:			Water None. Wetice Silve Ice Dry
EC Clien		IR GUN #:			Water None Wetice Blue ice Dry
EC Clien		IR GUN #:			Water None Wet ice Sive ice Dry
EC Clien		IR GUN #:			Water None Wetice Blue ice Dry
EC Clien		IR GUN #:			Water None Water None
EC Clien	Box Other				Water None
EC Clien	Box Other	1R GUN #:			Water None
EC Clien	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Water None
EC Clien	Box Other	IR GUN #:			Wet ice Blue ice Dry Water None
EC Clien	Box Other	IR GUN #:			Wetice Blue ice Dry Water None
EC Clien	Box Other	IR GUN #:			Wet ice Blue ice Dry Water None
EC Clien	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Water None
EC Clien	Box Other	1R GUN #:			Wet Ice Blue Ice Dry Water None
EC Clien	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Water None
EC Clien	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Water None
EC Clien	Box Other	IR GUN #:			Wet Ice Sive Ice Dry Water None
EC Clien	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Water None
EC Clien	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Water None
EC Clien	Box Other	IR GUN #:			Wet Ice Blue Ice Dry I Water None
EC Clien		IR GUN #:		· · · · · · · · · · · · · · · · · · ·	Wellice Bluelice Dry I
EC Clien		IR GUN #:			Water None Wet Ice Blue Ice Dry
EC Clien		IR GUN #:			Water None Wet Ice Blue Ice Dry I
EC Client		IR GUN #:			Water None Wet ice Blue ice Dry I
EC Clien		IR GUN #:			Water None Wet Ice Blue Ice Dry I
EC Client		IR GUN #:			Water None Wet Ice Blue Ice Dry I
		IR GUN #:			Water None Wet Ice Blue Ice Dry is
EC Client		IR GUN #:		and the second secon	Water None Wet ice Blue ice Dry k
EC Client	Box Other				Water None

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

Cleveland	3uren Avenue
Eurofins	180 S. Van B

Chain of Custody Record



🔅 eurofins

Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772	,					5			ł,				Environment Testing	sting
Client Information (Sub Contract Lab)	Sampler:			Lab PM DelMo	Lab PM: DelMonico, Michael	Aichael			Carrier Tracking No(s)	king No(s):		COC No: 240-167561.1		
Client Contact: Shipping/Receiving	Phone:			E-Mail: Micha	ii: iael.DelN	fonico@	et.eurofi	E-Mail: Michael.DelMonico@et.eurofinsus.com	State of Origin Michigan	jin:		Page: Page 1 of 1		
Company: Eurofins Environment Testing Northeast,					Accreditat	ions Requ	Accreditations Required (See note):	ote):				Job #: 240-184625-1		
Address: 777 New Durham Road,	Due Date Requested: 5/17/2023	ÿ					₹	nalysis F	Analysis Requested			Preservation Codes	odes: M - Hexane	
City: Edison	TAT Requested (days):	ys):										A - HCL B - NaOH C - Zn Acetate	N - None O - AsNaO2 D - Na2O4S	
State, Zip: NJ, 08817												D - Nitric Acid E - NaHSO4	C - N42043 Q - Na2SO3 R - Na2S2O3	
Рнопе: 732-549-3900(Tel) 732-549-3679(Fax)	# Od				122	()5						F - MOUH G - Amchlor H - Ascorbic Acid		ate
Email:	# OM				(ON	אסת ב					S	I - Ice J - DI Water		
Project Name: Ford LTP - Off Site	Project #: 24015353				10 88	s) \$20					ienis)	K - EDTA L - EDA	w - pH 4-5 Y - Trizma Z - other (snecifv)	
Site:	SSOW#:				A) ds						and the second se	Other:		
		Sample	Sample Type (C=comp,	Matrix (W=water, S=solid, O=wasterioll, BT=Tissue,	s benežii 7 bie Miziki miche	000 21W12030					nedmuki isto			
	Sample Uate	e A	G=grab)	Preservation Code:	a X	-						Special	Special Instructions/Note:	
D TRIP BLANK 155 (240-184625-1)	5/2/23	Eastern		Water		×	-				-			
		12:05				-	-				-			
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Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory accreditation is the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central. LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central. LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central. LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central. LLC	ent Testing North Centr above for analysis/tests Central, LLC attention in	al, LLC places /matrix being a mediately. If a	the ownership inalyzed, the s ill requested a	o of method, ar amples must b ccreditations a	alyte & acc e shipped t re current t	reditation back to the o date, ret	compliance Eurofins E um the sig	upon our su invironment ned Chain of	bcontract laboratc Testing North Cen Custody attesting	pries. This sam itral, LLC labora to said complia	ole shipmen tory or othe nce to Euro	it is forwarded und r instructions will I fins Environment	er chain-of-custody. If th e provided. Any changes Testing North Central, LL(e 6
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5/18/2023

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14

Cooler Temperature(s) °C and Other Remarks: 0

Client: ARCADIS US Inc

Login Number: 184625 List Number: 2

Creator: Armbruster, Chris

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

DATA VERIFICATION REPORT



May 18, 2023

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30167538.402.04 off-site Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 184625-1 Sample date: 2023-05-02 Report received by CADENA: 2023-05-18 Initial Data Verification completed by CADENA: 2023-05-18 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, LCS/LCD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 184625-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401846 5/2/202	- 5251	5		MW-225 2401846 5/2/202			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>				1.0				1.0		
	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-8260</u>	DDSIM									
	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 # 240-184625-1 CADENA Verification Report: 2023-05-18

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49774R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-184625-1 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		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_155	240-184625-1	Water	05/02/23		Х	
MW-225S_050223	240-184625-2	Water	05/02/23		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		rmance ptable	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		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:	Dilip Kumar
SIGNATURE:	Pinter
DATE:	June 12, 2023

PEER REVIEW: Andrew Korycinski

DATE: June 21, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



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1-2	1 ch
101	

Chain of Custody Record



THE LEADER IN ENVIREN

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

Client Contact	Regulat	ory program:		t.	DW	Г	NPDF	ËS	T	RC	RA	1	Oth	er 🗌											
Company Name: Arcadis	Client Project	tanager: Kris	Hinske	у		Site	Conta	ict: Cl	hristi	ina W	eaver			-	Lab	Conta	ct: Mi	ke De	IMoni	02					TestAmerica Laboratories, COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240				Tele	phone	: 248	-994-	2240					Tele	ohone	: 330-	197-9	396						
City/State/Zip: Novi, MI, 48377		er.hinskey@ar	andis a				Analy				ime	-	-	_					naly	506					1 of 1 COCs For lab use only
Phone: 248-994-2240			cauis.c	UNI											1		1	T Í			1	1			
Project Name: Ford LTP Off-Site	Sampler Name Ken Method of Ship		2Cr	_			lo day	T	3	w weeks weeks	L	-													Walk-in client Lab sampling
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:					,	1	- 1	week days		2	9							SIM					Lao samping
PO # 30167538.402.04	Shipping/Track	ing No:							ī			mole (Y / N)	C/Grab=G		8260B	E 8260B			8260B	8260B					Job/SDG No:
				M	atrix	1	Conta	iners	& Pr	serva	ives			82	CE 8	-DCI	8	18	Chloride	ine 8	1				
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid Other:	H2S04	1003	HCI	ZaAci	Unpres	Otheri	Filtered		1.1-DCE	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260B	TCE 8260B	Vinyl Chlo	1,4-Dioxane					Sample Specific Notes / Special Instructions:
TRIP BLANK_ 155	5/2/2			1		Τ		1				Ν	۱G	X	X	X	X	X	X						1 Trip Blank
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Eurofins Cleveland

180 S. Van Buren Avenue Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



🔅 eurofins

Environment Testing

Client Information (Sub Contract Lab)	Sampler:			Del	РМ: Monie	co, M	lichae	el				C	arrier T	racking	No(s):			COC N 240-1	₩o: 167561.1	1			
Client Contact: Shipping/Receiving	Phone:											Page:	Page: Page 1 of 1										
Company:												Job #:	1011										
Eurofins Environment Testing Northeast,																			240-184625-1				
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City: Edison	TAT Requested (d	ays):						Т										B - Na			I - None) - AsNaO2	2	
State, Zip:																		D - Ni	tric Acid		- Na2O4S - Na2SO3		
NJ, 08817 Phone:	PO #:																	F - Me		F	R - Na2S2O 5 - H2SO4		
732-549-3900(Tel) 732-549-3679(Fax)					Ŷ							1					1	G - Ar H - As	nchlor corbic Aci	T bi		decahydrate	
Email:	WO #:				2	Q I	(MOD) VOCs (Short List) 030C										2	I - Ice J - DI	Water	V	- MCAA		
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Note: Since laboratory accreditations are subject to change, Eurofins Env	ironment Testing North Cen	tral, LLC place	s the ownership	of method, a	nalyte	& acci	reditatio	on com	pliance	e upon	i our sul	i	i. act labo	ratorie	s. This	sample	shipme	ant is for	warded ur	der ch	ain-of-custo	odv If the	
laboratory does not currently maintain accreditation in the State of Origin I accreditation status should be brought to Eurofins Environment Testing N	isted above for analysis/test	s/matrix being	analyzed, the si	amples must l	be shir	nned b	ack to	the Eu	rofins 1	Enviro	nment T	estina	North (Central	LICIS	aborator	v or oth	or inetru	ctions will	be pro	vided Any	changes to	
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Client Sample ID: TRIP BLANK_155

Date Collected: 05/02/23 00:00

Date Received: 05/04/23 08:00

Method: SW846 8260D - Volatile Organic Compo	unde hy CC/MC
Welhou: Swo4b ozbub - volatile Ordanic Combo	unds by GC/Ma

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/11/23 20:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 20:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 20:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 20:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 20:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 20:22	1
0	0/ • • • • • • • •	A	1				D	A	D:/ E

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 128		05/11/23 20:22	1
Dibromofluoromethane (Surr)	97		77 - 124		05/11/23 20:22	1
Toluene-d8 (Surr)	116		80 - 120		05/11/23 20:22	1
4-Bromofluorobenzene	90		76 - 120		05/11/23 20:22	1

Client Sample ID: MW-225S_050223 Date Collected: 05/02/23 12:05 Date Received: 05/04/23 08:00

Toluene-d8 (Surr)

4-Bromofluorobenzene

Lab Sample ID: 240-184625-2

Matrix: Water

1

1

Method: SW846 8260D S Analyte		Qualifier	ounds (GC/N RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L		-	05/07/23 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		75 - 133					05/07/23 05:34	1

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

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97

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/11/23 23:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 23:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 23:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 128			-		05/11/23 23:41	1
Dibromofluoromethane (Surr)	98		77 - 124					05/11/23 23:41	1

80 - 120

76 - 120

05/11/23 23:41

05/11/23 23:41

Lab Sample ID: 240-184625-1 Matrix: Water