

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/1/2024 7:28:46 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-199800-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





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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

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

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Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
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	Ο
DER	Duplicate Error Ratio (normalized absolute difference)	
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)	

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

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Job Narrative 240-199800-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/22/2024 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 1.8°C and 1.9°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-604292 was outside the method criteria for the following analyte(s): Trichloroethene and Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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 CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

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

Laboratory References:

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-199800-1	TRIP BLANK_134	Water	02/19/24 00:00	02/22/24 08:00
240-199800-2	MW-94S_021924	Water	02/19/24 13:38	02/22/24 08:00

Detection Summary

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

Client Sample ID: TRIP BLANK_134

No Detections.

Client Sample ID: MW-94S_021924

No Detections.

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Lab Sample ID: 240-199800-1

Lab Sample ID: 240-199800-2

Job ID: 240-199800-1

Client Sample ID: TRIP BLANK_134

Date Collected: 02/19/24 00:00 Date Received: 02/22/24 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			02/27/24 18:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 18:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 18:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 18:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 18:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/27/24 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137			-		02/27/24 18:59	1
4-Bromofluorobenzene (Surr)	92		56 - 136					02/27/24 18:59	1
Toluene-d8 (Surr)	101		78 - 122					02/27/24 18:59	1
Dibromofluoromethane (Surr)	94		73 - 120					02/27/24 18:59	1

Job ID: 240-199800-1

Lab Sample ID: 240-199800-1

Matrix: Water

5 6

8 9

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Client Sample ID: MW-94S_021924

Date Collected: 02/19/24 13:38 Date Received: 02/22/24 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			02/27/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		02/27/24 00:19	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			02/27/24 19:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 19:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 19:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 19:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 19:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/27/24 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137			-		02/27/24 19:24	1
4-Bromofluorobenzene (Surr)	89		56 - 136					02/27/24 19:24	1
Toluene-d8 (Surr)	99		78 - 122					02/27/24 19:24	1
Dibromofluoromethane (Surr)	100		73 - 120					02/27/24 19:24	1

3/1/2024

Job ID: 240-199800-1

Lab Sample ID: 240-199800-2 Matrix: Water

2 3 4

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

Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM Lab Sample ID Client Sample ID (62-137) (56-136) (78-122) (73-120) 240-199799-C-2 MS Matrix Spike 103 97 91 102 240-199799-F-2 MSD Matrix Spike Duplicate 100 97 102 91 240-199800-1 TRIP BLANK_134 114 92 101 94 MW-94S_021924 240-199800-2 114 89 99 100 LCS 240-604292/4 Lab Control Sample 105 102 104 91 MB 240-604292/7 Method Blank 114 94 103 96 Surrogate Legend DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

		P	ercent Surrogate Recovery (Acceptance Limits)
		DCA	
ab Sample ID	Client Sample ID	(68-127)	
40-199800-2	MW-94S_021924	104	
40-199800-2 MS	MW-94S_021924	101	
240-199800-2 MSD	MW-94S_021924	104	
CS 240-604238/4	Lab Control Sample	108	
VB 240-604238/6	Method Blank	107	

Surrogate Legend

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

Prep Type: Total/NA

5

9

13

3/1/2024

Prep Type: Total/NA

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

Matrix: Water Analysis Batch: 604292

	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			02/27/24 12:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 12:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 12:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 12:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 12:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/27/24 12:41	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137		02/27/24 12:41	1
4-Bromofluorobenzene (Surr)	94		56 - 136		02/27/24 12:41	1
Toluene-d8 (Surr)	103		78 - 122		02/27/24 12:41	1
Dibromofluoromethane (Surr)	96		73 - 120		02/27/24 12:41	1

Lab Sample ID: LCS 240-604292/4 Matrix: Water Analysis Batch: 604292

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	21.8		ug/L		87	63 - 134	
cis-1,2-Dichloroethene	25.0	20.9		ug/L		83	77 - 123	
Tetrachloroethene	25.0	24.1		ug/L		96	76 - 123	
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	75 - 124	
Trichloroethene	25.0	19.7		ug/L		79	70 - 122	
Vinyl chloride	12.5	14.0		ug/L		112	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	91		73 - 120

Lab Sample ID: 240-199799-C-2 MS Matrix: Water Analysis Batch: 604292

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	25.0	19.5		ug/L		78	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	19.2		ug/L		77	66 - 128
Tetrachloroethene	1.0	U	25.0	20.9		ug/L		83	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	20.6		ug/L		82	56 - 136
Trichloroethene	1.0	U	25.0	18.6		ug/L		74	61 - 124
Vinyl chloride	1.0	U	12.5	11.4		ug/L		91	43 - 157
	MS	MS							
Surrogate	%Recoverv	Qualifier	Limits						

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	102		78 - 122

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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

Job ID: 240-199800-1

Lab Sample ID: 240-199799- Matrix: Water	-C-2 MS								Client	Sample ID Prep T	: Matrix Type: Tot	
Analysis Batch: 604292												
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
Dibromofluoromethane (Surr)	91		73 - 120									
- Lab Sample ID: 240-199799-	F-2 MSD						Client	Sa	mple ID	: Matrix Sp	oike Dup	olicate
Matrix: Water											Type: To	
Analysis Batch: 604292												
	Sample	Sample	Spike	MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	I	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	21.3		ug/L			85	56 - 135	9	26
cis-1,2-Dichloroethene	1.0	U	25.0	19.3		ug/L			77	66 - 128	1	14
Tetrachloroethene	1.0	U	25.0	21.5		ug/L			86	62 _ 131	3	20
trans-1,2-Dichloroethene	1.0	U	25.0	21.2		ug/L			85	56 - 136	3	15
Trichloroethene	1.0	U	25.0	18.7		ug/L			75	61 - 124	1	15
Vinyl chloride	1.0	U	12.5	12.7		ug/L			102	43 - 157	11	24
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	100		62 - 137									
4-Bromofluorobenzene (Surr)	97		56 - 136									
Toluene-d8 (Surr)	102		78 - 122									
Dibromofluoromethane (Surr)	91		73 - 120									

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

Lab Sample ID: MB 240-604238/6 Matrix: Water											Client S	Sample ID: Metho Prep Type: 1	
Analysis Batch: 604238													
		MB	MB										
Analyte	R	esult	Qualifier	RL		MDL	Unit		D	Pı	repared	Analyzed	Dil Fa
1,4-Dioxane		2.0	U	2.0		0.86	ug/L					02/26/24 16:06	
		ΜВ	МВ										
Surrogate	%Reco	very	Qualifier	Limits						PI	repared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)		107		68 - 127								02/26/24 16:06	
Lab Sample ID: LCS 240-604238	л								Clie	nt	Sample	ID: Lab Control	Sample
Matrix: Water	· · · ·								One		Jampie	Prep Type: 1	
Analysis Batch: 604238												тер туре. т	otaint
· ·····,······························				Spike	LCS	LCS						%Rec	
Analyte				Added	Result	Qual	lifier	Unit	I	D	%Rec	Limits	
1,4-Dioxane				10.0	11.0			ug/L			110	75 - 121	
	1.00	LCS											
	LUS	200											
Surrogate	%Recovery		ifier	Limits									
Surrogate 1,2-Dichloroethane-d4 (Surr)			ifier	Limits 68 - 127									
	% Recovery 108		ifier							Cli	ent San	nple ID: MW-94S	021924
1,2-Dichloroethane-d4 (Surr)	% Recovery 108		ifier							Cli	ent San	nple ID: MW-94S_ Prep Type: 1	-
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-199800-2 MS	% Recovery 108		ifier							Cli	ent San		-
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-199800-2 MS Matrix: Water	% Recovery 108	Qual			MS	MS				Cli	ent San		-
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-199800-2 MS Matrix: Water	%Recovery 108	<u>Qual</u>	ole	68 - 127	MS Result		lifier	Unit		Cli	ent San %Rec	Prep Type: 1	-

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	101		68 - 127								
- Lab Sample ID: 240-199800-	2 MSD						CI	ient San	nple ID: MV	V-94S_0	21924
Matrix: Water									Prep 1	Type: To	tal/NA
Analysis Batch: 604238											
	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	8.33	12.3		ug/L		147	20 - 180	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)			68 - 127								

GC/MS VOA

Analysis Batch: 604238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-199800-2	MW-94S_021924	Total/NA	Water	8260D SIM	
MB 240-604238/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-604238/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-199800-2 MS	MW-94S_021924	Total/NA	Water	8260D SIM	
240-199800-2 MSD	MW-94S_021924	Total/NA	Water	8260D SIM	
nalysis Batch: 60429					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Lab Sample ID		Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batch
Lab Sample ID 240-199800-1	Client Sample ID				Prep Batch
Lab Sample ID 240-199800-1 240-199800-2	Client Sample ID TRIP BLANK_134	Total/NA	Water	8260D	Prep Batch
Lab Sample ID 240-199800-1 240-199800-2 MB 240-604292/7	Client Sample ID TRIP BLANK_134 MW-94S_021924	Total/NA Total/NA	Water Water	8260D 8260D	Prep Batch
Lab Sample ID 240-199800-1 240-199800-2 MB 240-604292/7 LCS 240-604292/4 240-199799-C-2 MS	Client Sample ID TRIP BLANK_134 MW-94S_021924 Method Blank	Total/NA Total/NA Total/NA	Water Water Water	8260D 8260D 8260D	Prep Batch

			ļ	Lab Chro	nicle				
lient: Arcadis l	J.S., Inc. rd LTP - Off Site	۵						Job	ID: 240-199800-1
-									
ate Collected	le ID: TRIP B : 02/19/24 00:00 02/22/24 08:00	0					I	Lab Sample IU	: 240-199800-1 Matrix: Water
Jate Receiveu.	02/22/24 00:00	J							
	Batch	Batch		Dilution	Batch			Prepared	
Ргер Туре	Туре	Method	Run	Factor		Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	604292	LEE	EET CLE	02/27/24 18:59	
Client Samp	le ID: MW-94	S_021924						Lab Sample ID	: 240-199800-2
	le ID: MW-94 : 02/19/24 13:38	_					I	Lab Sample ID	: 240-199800-2 Matrix: Water
Date Collected		8						Lab Sample ID	
Date Collected	: 02/19/24 13:38	8		Dilution	Batch		I	Lab Sample ID Prepared	
Date Collected	: 02/19/24 13:38 02/22/24 08:00	8 0	Run	Dilution Factor		Analyst	Lab		
Date Collected	: 02/19/24 13:38 02/22/24 08:00 Batch	8 0 Batch	Run					Prepared	
Date Collected Date Received: Prep Type	: 02/19/24 13:38 02/22/24 08:00 Batch Type	8 D Batch Method	Run		Number	LEE	Lab	Prepared or Analyzed	
Date Collected Date Received: Prep Type Total/NA	: 02/19/24 13:38 02/22/24 08:00 Batch Type Analysis	8 0 Batch Method 8260D	Run	Factor 1	Number 604292	LEE	_ Lab EET CLE	Prepared or Analyzed 02/27/24 19:24	
Prep Type Total/NA Total/NA	: 02/19/24 13:38 02/22/24 08:00 Batch Type Analysis Analysis ences:	8 Batch Method 8260D 8260D SIM		Factor1	Number 604292 604238	LEE	_ Lab EET CLE	Prepared or Analyzed 02/27/24 19:24	
Prep Type Total/NA Total/NA	: 02/19/24 13:38 02/22/24 08:00 Batch Type Analysis Analysis ences:	8 0 Batch Method 8260D		Factor1	Number 604292 604238	LEE	_ Lab EET CLE	Prepared or Analyzed 02/27/24 19:24	
Prep Type Total/NA Total/NA	: 02/19/24 13:38 02/22/24 08:00 Batch Type Analysis Analysis ences:	8 Batch Method 8260D 8260D SIM		Factor1	Number 604292 604238	LEE	_ Lab EET CLE	Prepared or Analyzed 02/27/24 19:24	
Prep Type Total/NA Total/NA	: 02/19/24 13:38 02/22/24 08:00 Batch Type Analysis Analysis ences:	8 Batch Method 8260D 8260D SIM		Factor1	Number 604292 604238	LEE	_ Lab EET CLE	Prepared or Analyzed 02/27/24 19:24	
Prep Type Total/NA Total/NA	: 02/19/24 13:38 02/22/24 08:00 Batch Type Analysis Analysis ences:	8 Batch Method 8260D 8260D SIM		Factor1	Number 604292 604238	LEE	_ Lab EET CLE	Prepared or Analyzed 02/27/24 19:24	

_ 1										
	Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
	Total/NA	Analysis	8260D		1	604292	LEE	EET CLE	02/27/24 19:24	
	Total/NA	Analysis	8260D SIM		1	604238	MDH	EET CLE	02/27/24 00:19	

Laboratory References:

Eurofins Cleveland

Accreditation/Certification Summary

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

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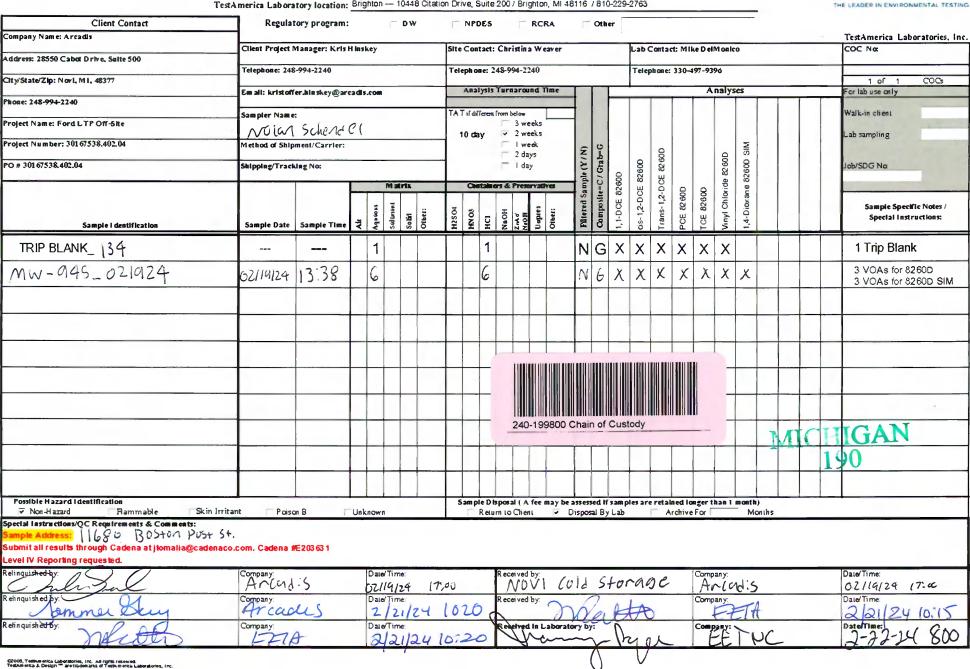
Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-30-24
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-01-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

Chain of Custody Record

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 2007 Brighton, MI 48116 / 810-229-2763



14

TestAmerica

1 2 3 4 5 6 7 8 9 10 11 12 13 14
Barberton, Facility C.C.A. C. Ste Name N. Cooler unpacked by
Received on 1-22-24 . 1st Grd Exp UPS FAS Waypoint
aurs Drop-off Date/Titre # Cooler Bo terial used. Bubble Wrap Foam Plastic Bag ANT. Wet Lee Blue Ice Dry Ice Wate
Cooler temperature upon receipting (CF ± 0.0 °C) Observed Cooler Temp. °C Corrected Cooler 'IR GUN # $(CF \pm 0.0)$ °C) Observed Cooler Temp. °C Corrected Cooler 'Were temper/out of visals on the outside of the cooler(s)? If Yes Quantity Cach (Tags No
2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity CACA Yas No Were the seals on the outside of the cooler(s) signed & dated? Yas No NA Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yas O Were tamper/custody seals intact and uncompromised? Yas No NA
 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 Were the custody papers relinquished & signed in the appropriate place? 7 Were the custody papers relinquished & signed in the appropriate place?
Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the COC?
lyses? Yes
H upon receipt?
 15 Were air bubbles >6 mm in any VOA vials? 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 43014 Was 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 [] additional next page Samples processed by
19 SAMPLE CONDITION were received after the recommended holding time had expired. Sample(s) were received after the recommended holding time had expired. Sample(s) were received after the recommended holding time had expired. Sample(s) were received after the recommended holding time had expired.
20 SAMPLE PRESERVATION
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3/1/2024

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DATA VERIFICATION REPORT



March 04, 2024

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 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 199800-1 Sample date: 2024-02-19 Report received by CADENA: 2024-03-04 Initial Data Verification completed by CADENA: 2024-03-04 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 CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD 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 Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 199800-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401998 2/19/202	001		MW-94S 2401998 2/19/202				
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
	Anatyte	Cas 110.	nesutt	Liiiit	Units	Quatiliei	nesuti	Linint	Units	Quatinei
GC/MS VOC										
<u>OSW-8260</u>	<u>D</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-8260</u>	DSIM									
	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 # 240-199800-1 CADENA Verification Report: 2024-03-04

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53230R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-199800-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Barant Sampla	Analysis			
Sample ID		maura	Collection Date	Parent Sample	VOC	VOC SIM		
TRIP BLANK_134	240-199800-1	Water	02/19/2024		Х			
MW-94S_021924	240-199800-2	Water	02/19/2024		Х	Х		

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	orted		mance otable	Not Required
		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		X	
5.	Reporting limits		Х		Х	
6.	Sample collection date		Х		Х	
7.	Laboratory sample received date		Х		X	
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	

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, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compounds	Criteria
TRIP BLANK_134	Continuing Colibration Varification %	Vinyl chloride	+31.6%
MW-94S_021924	Continuing Calibration Verification %D	Trichloroethene	-21.8%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.05	Non-detect	R
	KKF <0.05	Detect	J
Initial and Continuing Calibration		Non-detect	R
	RRF <0.01 ¹	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

DATA REVIEW

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J
Initial Calibration		Non-detect	R
	%RSD > 90%	Detect	J
		Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
O se tissuis a O sliberation		Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
		Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Nequireu
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation		1			
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	
Ion 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

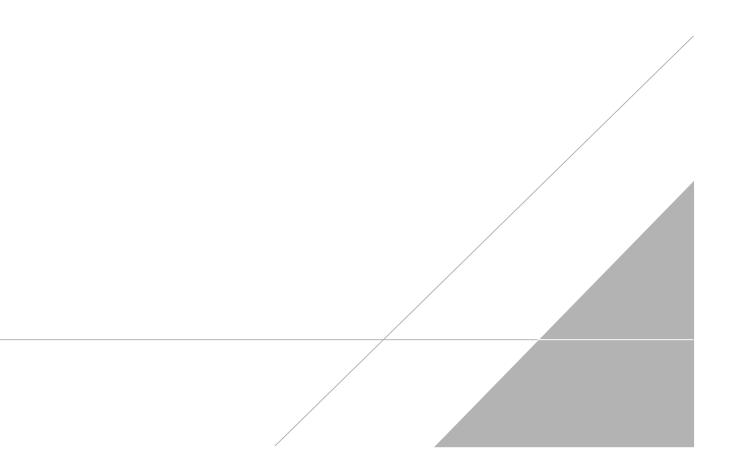
%D Percent difference

VALIDATION PERFORMED BY:	Dilip Kumar
SIGNATURE:	Pertmit
DATE:	March 20, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 1, 2024

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

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Possible Hazard Identification ▼ Non-Hazard Rammable Skin Irritant pectal Instructions/QC Requirements & Comments: ample Address: 11680 B0S+01 P05+ S+. ubmit all results through Cadena at jtomalia@cadenaco.com			- Unk	known			9			usal (A Lo Chien		y be ass Dis					ned los rchive		han 1 s		mihs				<u> </u>
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Page 283 of 285

Client Sample ID: TRIP BLANK_134 Date Collected: 02/19/24 00:00

Date Received: 02/22/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/27/24 18:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 18:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 18:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 18:59	1
Trichloroethene	1.0	h ni	1.0	0.44	ug/L			02/27/24 18:59	1
Vinyl chloride	1.0	∳ UJ	1.0	0.45	ug/L			02/27/24 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137			-		02/27/24 18:59	1

1,2-Dichloroethane-d4 (Surr)	114	62 - 137	02/27/24 18:59	1
4-Bromofluorobenzene (Surr)	92	56 - 136	02/27/24 18:59	1
Toluene-d8 (Surr)	101	78 - 122	02/27/24 18:59	1
Dibromofluoromethane (Surr)	94	73 - 120	02/27/24 18:59	1

Client Sample ID: MW-94S_021924 Date Collected: 02/19/24 13:38 Date Received: 02/22/24 08:00

Lab Sample ID: 240-199800-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/27/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		02/27/24 00:19	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			02/27/24 19:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 19:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 19:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 19:24	1
Trichloroethene	1.0	h nî	1.0	0.44	ug/L			02/27/24 19:24	1
Vinyl chloride	1.0	n 🛉	1.0	0.45	ug/L			02/27/24 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					02/27/24 19:24	1
4-Bromofluorobenzene (Surr)	89		56 - 136					02/27/24 19:24	1
Toluene-d8 (Surr)	99		78 - 122					02/27/24 19:24	1
Dibromofluoromethane (Surr)	100		73 - 120					02/27/24 19:24	1

Lab Sample ID: 240-199800-1 Matrix: Water