

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/5/2025 7:33:23 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219434-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





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Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)966-9783

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Client: Arcadis US Inc. Project/Site: Ford LTP

Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
F2	MS/MSD RPD exceeds control limits	
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		6
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	0
CFU	Colony Forming Unit	Ο
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	13
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
 ¢	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Job Narrative 240-219434-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 2/26/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

GC/MS VOA

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

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Client: Arcadis US Inc. Project/Site: Ford LTP

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

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Sample Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219434-1	TRIP BLANK_156	Water	02/24/25 00:00	02/26/25 08:00
240-219434-2	MW-83_022425	Water	02/24/25 10:15	02/26/25 08:00
240-219434-3	MW-83S_022425	Water	02/24/25 11:00	02/26/25 08:00
240-219434-4	MW-134S_022425	Water	02/24/25 14:10	02/26/25 08:00
240-219434-5	MW-135S_022425	Water	02/24/25 12:15	02/26/25 08:00

Detection Sum	mary
Client: Arcadis US Inc.	Job ID: 240-219434-1
Project/Site: Ford LTP	
Client Sample ID: TRIP BLANK_156	Lab Sample ID: 240-219434-1
No Detections.	
Client Sample ID: MW-83_022425	Lab Sample ID: 240-219434-2
No Detections.	
Client Sample ID: MW-83S_022425	Lab Sample ID: 240-219434-3
No Detections.	
Client Sample ID: MW-134S_022425	Lab Sample ID: 240-219434-4
No Detections.	
Client Sample ID: MW-135S_022425	Lab Sample ID: 240-219434-5
No Detections.	

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_156

Date Collected: 02/24/25 00:00 Date Received: 02/26/25 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			03/03/25 19:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 19:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 19:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 19:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 19:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/03/25 19:09	1
4-Bromofluorobenzene (Surr)	105		56 - 136					03/03/25 19:09	1
Toluene-d8 (Surr)	103		78 - 122					03/03/25 19:09	1
Dibromofluoromethane (Surr)	100		73 - 120					03/03/25 19:09	1

Job ID: 240-219434-1

Matrix: Water

Lab Sample ID: 240-219434-1

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Client Sample ID: MW-83_022425

Date Collected: 02/24/25 10:15 Date Received: 02/26/25 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			02/28/25 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			_		02/28/25 15:23	1
Method: SW846 8260D - Volati	ile 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			03/01/25 03:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/25 03:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 03:51	1
rans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/25 03:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 03:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/25 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			_		03/01/25 03:51	1
4-Bromofluorobenzene (Surr)	91		56 - 136					03/01/25 03:51	1
Toluene-d8 (Surr)	99		78 - 122					03/01/25 03:51	1
Dibromofluoromethane (Surr)	105		73 - 120					03/01/25 03:51	1

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Job ID: 240-219434-1

Lab Sample ID: 240-219434-2 Matrix: Water

Client Sample ID: MW-83S_022425

Date Collected: 02/24/25 11:00 Date Received: 02/26/25 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			02/28/25 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			-		02/28/25 15:46	1
Method: SW846 8260D - Volati	ile 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			03/01/25 04:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/25 04:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 04:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/25 04:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 04:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/25 04:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		03/01/25 04:14	1
4-Bromofluorobenzene (Surr)	85		56 - 136					03/01/25 04:14	1
Toluene-d8 (Surr)	95		78 - 122					03/01/25 04:14	1
Dibromofluoromethane (Surr)	99		73 - 120					03/01/25 04:14	1

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Lab Sample ID: 240-219434-3 Matrix: Water

Client Sample ID: MW-134S_022425

Date Collected: 02/24/25 14:10 Date Received: 02/26/25 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			02/28/25 16:10	1	
0	0/ D	0	1 : :4				D	A	D# 5	
Surrogate	%Recovery	Quaimer	Limits			-	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	107		68 - 127					02/28/25 16:10	1	
Method: SW846 8260D - Volat	ile 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			03/01/25 04:38	1	E
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/25 04:38	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 04:38	1	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/25 04:38	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 04:38	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/25 04:38	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		03/01/25 04:38	1	
4-Bromofluorobenzene (Surr)	89		56 - 136					03/01/25 04:38	1	
Toluene-d8 (Surr)	99		78 - 122					03/01/25 04:38	1	
Dibromofluoromethane (Surr)	102		73 - 120					03/01/25 04:38	1	

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Job ID: 240-219434-1

Matrix: Water

Lab Sample ID: 240-219434-4

Client Sample ID: MW-135S_022425

Date Collected: 02/24/25 12:15 Date Received: 02/26/25 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			02/28/25 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		02/28/25 16:33	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds by (SC/MS						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/25 08:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/25 08:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 08:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/25 08:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 08:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/25 08:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/01/25 08:54	1
4-Bromofluorobenzene (Surr)	86		56 - 136					03/01/25 08:54	1
Toluene-d8 (Surr)	96		78 - 122					03/01/25 08:54	1
Dibromofluoromethane (Surr)	104		73 - 120					03/01/25 08:54	1

Matrix: Water

Lab Sample ID: 240-219434-5

Job ID: 240-219434-1

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

				Percent Su	rrogate Recovery (Accep	otance Limits)	
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
240-219434-1	TRIP BLANK_156	107	105	103	100		
240-219434-2	MW-83_022425	107	91	99	105		
240-219434-3	MW-83S_022425	101	85	95	99		
240-219434-4	MW-134S_022425	106	89	99	102		
240-219434-5	MW-135S_022425	107	86	96	104		
240-219434-5 MS	MW-135S-MS_022425	104	101	102	100		
240-219434-5 MSD	MW-135S-MSD_022425	102	101	103	101		
240-219565-B-12 MS	Matrix Spike	106	101	103	101		
240-219565-B-12 MSD	Matrix Spike Duplicate	106	101	104	107		
LCS 240-646504/3	Lab Control Sample	100	101	100	100		
LCS 240-646690/10	Lab Control Sample	105	101	100	102		
MB 240-646504/7	Method Blank	102	90	99	99		
MB 240-646690/9	Method Blank	107	105	103	104		
Surrogate Legend							
DCA = 1,2-Dichloroethar	ne-d4 (Surr)						
BFB = 4-Bromofluorober	nzene (Surr)						
TOL = Toluene-d8 (Surr)							
DBFM = Dibromofluorom	nethane (Surr)						

Matrix: Water

Percent Surrogate Recovery (Acceptance Limits) DCA (68-127) **Client Sample ID** Lab Sample ID 240-219434-2 MW-83_022425 108 240-219434-3 MW-83S_022425 103 240-219434-4 MW-134S_022425 107 240-219434-5 MW-135S_022425 106 MW-135S-MS_022425 240-219434-5 MS 104 240-219434-5 MSD MW-135S-MSD_022425 104 LCS 240-646369/4 Lab Control Sample 95 MB 240-646369/5 Method Blank 99

Surrogate Legend

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

Prep Type: Total/NA

- Prep Type: Total/NA

Method: 8260D - Volatile Organic Compounds

S	by	GC/MS	

Lab Sample ID: MB 240-646504/7

	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			03/01/25 02:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/25 02:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 02:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/25 02:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 02:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/25 02:41	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		03/01/25 02:41	1
4-Bromofluorobenzene (Surr)	90		56 - 136		03/01/25 02:41	1
Toluene-d8 (Surr)	99		78 - 122		03/01/25 02:41	1
Dibromofluoromethane (Surr)	99		73 - 120		03/01/25 02:41	1

Lab Sample ID: LCS 240-646504/3 Matrix: Water Analysis Batch: 646504

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.6		ug/L		88	63 - 134	
cis-1,2-Dichloroethene	20.0	17.6		ug/L		88	77 - 123	
Tetrachloroethene	20.0	16.3		ug/L		82	76 - 123	
trans-1,2-Dichloroethene	20.0	17.4		ug/L		87	75 - 124	
Trichloroethene	20.0	16.5		ug/L		83	70 - 122	
Vinyl chloride	20.0	18.7		ug/L		94	60 - 144	

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

102

Lab Sample ID: 240-219434-5 MS Matrix: Water Analysis Batch: 646504

Toluene-d8 (Surr)

· ····,	Sample	Sample	Spike	MS	MS				%Rec
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	20.0	16.3		ug/L		82	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	16.8		ug/L		84	66 - 128
Tetrachloroethene	1.0	U	20.0	15.4		ug/L		77	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	16.2		ug/L		81	56 - 136
Trichloroethene	1.0	U	20.0	15.9		ug/L		79	61 - 124
Vinyl chloride	1.0	U	20.0	17.1		ug/L		86	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	104		62 - 137						
4-Bromofluorobenzene (Surr)	101		56 - 136						

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

Client Sample ID: MW-135S-MS_022425 Prep Type: Total/NA

Job ID: 240-219434-1

Prep Type: Total/NA

Client Sample ID: Method Blank

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78 - 122

Trichloroethene

Jol

Job ID: 240-219434-1

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

Matrix: Water Analysis Batch: 646504	MS						Clie	nt Sample	ID: MW-135S-M Prep Type	_
	MS MS									
Summe mete		lifier	Limits							
Surrogate Dibromofluoromethane (Surr)	100 WRecovery	lifier	73 - 120							
Distonionuorometriane (Surr)	100		73-720							
Lab Sample ID: 240-219434-5 I Matrix: Water	MSD						Client	Sample II): MW-135S-MS Prep Type	_
Analysis Batch: 646504										
	Sample San	nple	Spike	MSD	MSD				%Rec	RF
Analyte	Result Qua	•	Added		Qualifi	ier Unit		D %Rec		PD Lin
1,1-Dichloroethene	1.0 U		20.0	16.4		ug/L		<u>- /// 82</u>	56 - 135	1
cis-1,2-Dichloroethene	1.0 U		20.0	17.2		ug/L		86	66 - 128	2
Tetrachloroethene	1.0 U		20.0	15.5		ug/L		77	62 - 131	1 2
trans-1,2-Dichloroethene	1.0 U		20.0	16.7		ug/L		83	56 - 136	3
Trichloroethene	1.0 U		20.0	16.1		ug/L		81	61 - 124	2
Vinyl chloride	1.0 U		20.0	17.6		ug/L		88	43 - 157	3 2
	1.0 0		20.0	17.0		uy/L		00	10 - 107	. .
	MSD MSI	0								
Surrogate	<u>.</u>	lifier	Limits							
1,2-Dichloroethane-d4 (Surr)	102		62 - 137							
4-Bromofluorobenzene (Surr)	101		56 - 136							
Toluene-d8 (Surr)	103		78 - 122							
Matrix: Water	0/9							Client	Sample ID: Meth Prep Type	
Matrix: Water Analysis Batch: 646690	МВ	МВ							Ргер Туре	: Total/N
Matrix: Water Analysis Batch: 646690 Analyte	MB Result	Qualifier	RL		MDL L		D	Client S	Prep Type Analyzed	: Total/N
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene	MB 	Qualifier U	1.0		0.49 u	ıg/L	D		Prep Type <u>Analyzed</u> 03/03/25 16:08	: Total/N
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	MB Result 1.0 1.0	Qualifier U U	1.0 1.0		0.49 u 0.46 u	ıg/L ıg/L	D		Analyzed 03/03/25 16:08 03/03/25 16:08	: Total/N
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	MB <u>Result</u> 1.0 1.0	Qualifier U U U	1.0 1.0 1.0		0.49 u 0.46 u 0.44 u	ıg/L ıg/L ıg/L	<u>D</u>		Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	: Total/N
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	MB Result 1.0 1.0	Qualifier U U U	1.0 1.0 1.0 1.0		0.49 u 0.46 u	ıg/L ıg/L ıg/L	<u> </u>		Analyzed 03/03/25 16:08 03/03/25 16:08	: Total/N
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene	MB Result 1.0 1.0 1.0 1.0 1.0	Qualifier U U U U U	1.0 1.0 1.0 1.0 1.0 1.0		0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ıg/L ıg/L ıg/L ıg/L ıg/L	D		Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	: Total/N Dil Fa
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene	MB Result 1.0 1.0 1.0 1.0	Qualifier U U U U U	1.0 1.0 1.0 1.0		0.49 u 0.46 u 0.44 u 0.51 u	ıg/L ıg/L ıg/L ıg/L ıg/L	D		Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	: Total/N
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 1.0 MB	Qualifier U U U U U U U MB	1.0 1.0 1.0 1.0 1.0 1.0		0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ıg/L ıg/L ıg/L ıg/L ıg/L	D	Prepared	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	: Total/N
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 1.0 8 <i>MB</i> %Recovery	Qualifier U U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ıg/L ıg/L ıg/L ıg/L ıg/L	<u> </u>		Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	: Total/N Dil Fi
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr)	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 MB %Recovery 107	Qualifier U U U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 <u>Limits</u> 62 - 137		0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ıg/L ıg/L ıg/L ıg/L ıg/L	D	Prepared	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa
Lab Sample ID: MB 240-646690 Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofiluorobenzene (Surr)	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 MB %Recovery 107 105	Qualifier U U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 56 - 137 56 - 136		0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ıg/L ıg/L ıg/L ıg/L ıg/L	<u> </u>	Prepared	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Trachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 MB %Recovery 107 105 103	Qualifier U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 5.0 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1		0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ıg/L ıg/L ıg/L ıg/L ıg/L	<u> </u>	Prepared	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Trachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 MB %Recovery 107 105	Qualifier U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 56 - 137 56 - 136		0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ıg/L ıg/L ıg/L ıg/L ıg/L	D	Prepared	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Trachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr)	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 5 707 105 103 104	Qualifier U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 5.0 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1		0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ıg/L ıg/L ıg/L ıg/L ıg/L		Prepared	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 5 707 105 103 104	Qualifier U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 56 - 137 56 - 136 78 - 122 73 - 120		0.49 u 0.46 u 0.44 u 0.51 u 0.44 u 0.45 u	ıg/L ıg/L ıg/L ıg/L ıg/L		Prepared	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Trans-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-64665 Matrix: Water Analysis Batch: 646690	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 5 707 105 103 104	Qualifier U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	LCS	0.49 u 0.46 u 0.44 u 0.51 u 0.45 u 0.45 u	ıg/L ıg/L ıg/L ıg/L ıg/L		Prepared Prepared	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Trachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-64665 Matrix: Water Analysis Batch: 646690 Analyte	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 5 707 105 103 104	Qualifier U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	LCS Result	0.49 u 0.46 u 0.44 u 0.51 u 0.44 u 0.45 u	ig/L ig/L ig/L ig/L ig/L ig/L <u>ig/L</u>		Prepared Prepared ent Sampl	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Trachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-64669 Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 5 707 105 103 104	Qualifier U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	LCS Result 18.2	0.49 u 0.46 u 0.44 u 0.51 u 0.45 u 0.45 u	ig/L ig/L ig/L ig/L ig/L ig/L <u>ig/L</u> <u>ier</u> <u>Unit</u> ug/L		Prepared Prepared ent Sampl <u>D</u> %Rec 91	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-64665 Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 5 707 105 103 104	Qualifier U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	LCS <u>Result</u> 18.2 18.1	0.49 u 0.46 u 0.44 u 0.51 u 0.45 u 0.45 u	ier Unit ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		Prepared Prepared ent Sampl D %Rec 91 90	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa
Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-64669 Matrix: Water Analysis Batch: 646690 Analyte 1,1-Dichloroethene	MB Result 1.0 1.0 1.0 1.0 1.0 1.0 5 707 105 103 104	Qualifier U U U U U U MB Qualifier	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 56 - 136 78 - 122 73 - 120 Spike Added 20.0	LCS Result 18.2	0.49 u 0.46 u 0.44 u 0.51 u 0.45 u 0.45 u	ig/L ig/L ig/L ig/L ig/L ig/L <u>ig/L</u> <u>ier</u> <u>Unit</u> ug/L		Prepared Prepared ent Sampl <u>D</u> %Rec 91	Analyzed 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08 03/03/25 16:08	Dil Fa

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70 - 122

91

18.3

ug/L

20.0

Job ID: 240-219434-1

10

12 13

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

Lab Sample ID: LCS 240-646 Matrix: Water Analysis Batch: 646690	6690/10						Clien	t Sample	e ID: Lab Control Sample Prep Type: Total/NA
-			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Vinyl chloride			20.0	20.3		ug/L		101	60 - 144
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	105		62 - 137						
4-Bromofluorobenzene (Surr)	101		56 - 136						
Toluene-d8 (Surr)	100		78 - 122						
Dibromofluoromethane (Surr)	102		73 - 120						

Lab Sample ID: 240-219565-B-12 MS Matrix: Water

Analysis Batch: 646690

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	20	U	400	298		ug/L		74	56 - 135
cis-1,2-Dichloroethene	24	F2	400	343		ug/L		80	66 - 128
Tetrachloroethene	20	U	400	317		ug/L		79	62 - 131
trans-1,2-Dichloroethene	20	U F2	400	310		ug/L		78	56 - 136
Trichloroethene	580		400	897		ug/L		79	61 - 124
Vinyl chloride	20	U	400	366		ug/L		91	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-219565-B-12 MSD Matrix: Water

Analysis Batch: 646690

Analysis Baten. 040000	Somela	Sample	Spike	Men	MSD				%Rec		RPD
	•	•	•				_	~ -			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20	U	400	352		ug/L		88	56 - 135	17	26
cis-1,2-Dichloroethene	24	F2	400	398	F2	ug/L		94	66 - 128	15	14
Tetrachloroethene	20	U	400	352		ug/L		88	62 - 131	11	20
trans-1,2-Dichloroethene	20	U F2	400	363	F2	ug/L		91	56 - 136	16	15
Trichloroethene	580		400	918		ug/L		85	61 - 124	2	15
Vinyl chloride	20	U	400	418		ug/L		105	43 - 157	13	24
	MSD	MSD									
	WSD	WSD									
Surrogate	%Recovery	Qualifier	Limits								

1,2-Dichloroethane-d4 (Surr)	106	62 - 137
4-Bromofluorobenzene (Surr)	101	56 - 136
Toluene-d8 (Surr)	104	78 - 122
Dibromofluoromethane (Surr)	107	73 - 120

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

Eurofins Cleveland

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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

Lab Sample ID: MB 240-646	369/5									Client S	ample ID: I	Method	Blank
Matrix: Water											Prep T	ype: To	otal/NA
Analysis Batch: 646369													
	Ν	IB MB											
Analyte	Res	ult Qualifier	RL		MDL	Unit		D	Pr	epared	Analyz	ed	Dil Fac
1,4-Dioxane		2.0 U	2.0		0.86	ug/L					02/28/25 0	07:30	1
	-												
		IB MB							_				
Surrogate	%Recove	<u> </u>	Limits						Pi	repared	Analyz		Dil Fac
1,2-Dichloroethane-d4 (Surr)		99	68 - 127								02/28/25	07:30	1
Lab Sample ID: LCS 240-64	6369/4							Clie	ont	Sample	ID: Lab Co	ontrol S	ample
Matrix: Water	00001-							one		Campio		ype: To	
Analysis Batch: 646369												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Qual	ifier	Unit		D	%Rec	Limits		
1,4-Dioxane			10.0	9.32			ug/L			93	75 - 121		
							0						
	LCS L												
Surrogate		ualifier	Limits										
1,2-Dichloroethane-d4 (Surr)	95		68 - 127										
- Lab Sample ID: 240-219434	-5 MS							Clien	nt S	ample I	D: MW-135	S-MS (122425
Matrix: Water	0 110							Chief		ampioi		ype: To	
Analysis Batch: 646369											11001	J po. 10	
	Sample S	ample	Spike	MS	MS						%Rec		
Analyte	Result Q		Added	Result	Qual	ifier	Unit		D	%Rec	Limits		
1,4-Dioxane	2.0 U		10.0	10.2		-	ug/L		_ ·	102	20 - 180		
							-						
	MS N												
Surrogate		ualifier	Limits										
1,2-Dichloroethane-d4 (Surr)	104		68 - 127										
- Lab Sample ID: 240-219434	-5 MSD							Client	Sa	mole ID	: MW-135S	MSD (122425
Matrix: Water	0							Choine	Ju			ype: To	
Analysis Batch: 646369												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Sample S	ample	Spike	MSD	MSD						%Rec		RPD
Analyte	Result Q		Added	Result			Unit		D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0		10.0	11.1			ug/L			111	20 - 180	9	20
							0						
	MSD N												
Surrogate	%Recovery G	ualifier	Limits										

 1,2-Dichloroethane-d4 (Surr)
 104
 68 - 127

Job ID: 240-219434-1

GC/MS VOA

Analysis Batch: 646369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc			
240-219434-2	MW-83_022425	Total/NA	Water	8260D SIM				
240-219434-3	MW-83S_022425	Total/NA	Water	8260D SIM				
240-219434-4	MW-134S_022425	Total/NA	Water	8260D SIM				
240-219434-5	MW-135S_022425	Total/NA	Water	8260D SIM				
MB 240-646369/5	Method Blank	Total/NA	Water	8260D SIM				
LCS 240-646369/4	Lab Control Sample	Total/NA	Water	8260D SIM				
240-219434-5 MS	MW-135S-MS_022425	Total/NA	Water	8260D SIM				
240-219434-5 MSD	MW-135S-MSD_022425	Total/NA	Water	8260D SIM				
240-219434-2	MW-83_022425	Total/NA	Water	8260D				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc			
240-219434-3	MW-83S 022425	Total/NA	Water	8260D				
	=							
240-219434-4	MW-134S_022425	Total/NA	Water	8260D				
240-219434-5	MW-135S_022425	Total/NA	Water	8260D				
VB 240-646504/7	Method Blank	Total/NA	Water	8260D				
_CS 240-646504/3	Lab Control Sample	Total/NA	Water	8260D				
240-219434-5 MS	MW-135S-MS_022425	Total/NA	Water	8260D				
	MW-135S-MS_022425 MW-135S-MSD_022425	Total/NA Total/NA	Water Water	8260D 8260D				
240-219434-5 MSD	 MW-135S-MSD_022425							
240-219434-5 MS 240-219434-5 MSD nalysis Batch: 64669 Lab Sample ID	 MW-135S-MSD_022425				Prep Batc			

240-219434-1	TRIP BLANK_156	Total/NA	Water	8260D
MB 240-646690/9	Method Blank	Total/NA	Water	8260D
LCS 240-646690/10	Lab Control Sample	Total/NA	Water	8260D
240-219565-B-12 MS	Matrix Spike	Total/NA	Water	8260D
240-219565-B-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D

Client Samp	le ID: TRIP E	BLANK_156						Lab Sample ID:	240-219434-1
Date Collected	: 02/24/25 00:0	0							Matrix: Water
Date Received:	02/26/25 08:00)							
_	Batch	Batch		Dilution	Batch			Prepared	
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	646690	НМВ	EET CLE	03/03/25 19:09	
Client Samp	le ID: MW-83	_022425						Lab Sample ID:	240-219434-2
Date Collected	: 02/24/25 10:1	5							Matrix: Wate
Date Received:	02/26/25 08:00)							
-	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D			646504	AJS	EET CLE	03/01/25 03:51	
Total/NA	Analysis	8260D SIM		1	646369	CS	EET CLE	02/28/25 15:23	
Client Samp	le ID: MW-83	S_022425						Lab Sample ID:	240-219434-3
Date Collected	: 02/24/25 11:0	0							Matrix: Wate
Date Received:	02/26/25 08:00)							
_	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor		Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D			646504	AJS	EET CLE	03/01/25 04:14	
Total/NA	Analysis	8260D SIM		1	646369	CS	EET CLE	02/28/25 15:46	
Client Samp	le ID: MW-13	34S_022425						Lab Sample ID:	240-219434-4
Date Collected	: 02/24/25 14:1	0							Matrix: Wate
Date Received:	02/26/25 08:00)							
-	Batch	Batch		Dilution	Batch			Prepared	
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	646504	AJS	EET CLE	03/01/25 04:38	
Total/NA	Analysis	8260D SIM		1	646369	CS	EET CLE	02/28/25 16:10	
Client Samp	le ID: MW-13	35S_022425						Lab Sample ID:	240-219434-{
Date Collected									Matrix: Wate
Date Received:	02/26/25 08:00)							
_	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Fieb lybe						-			
Total/NA	Analysis	8260D		1	646504	AJS	EET CLE	03/01/25 08:54	

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory: Eurofins Cleveland

	eveland			
accreditations/certifications held by	y this laboratory are listed. Not all accreditations/cer	rtifications are applicable to this report	<u>.</u>	
Authority	Program	Identification Number	Expiration Date	
Connecticut	State	PH-0806	12-31-26	
Georgia	State	4062	02-27-26	
Illinois	NELAP	200004	08-31-25	
lowa	State	421	06-01-25	
Kansas	NELAP	E-10336	01-31-26	
Kentucky (WW)	State	KY98016	12-31-25	
Minnesota	NELAP	039-999-348	12-31-25	
New Hampshire	NELAP	225024	09-30-25	
New Jersey	NELAP	OH001	07-03-25	
New York	NELAP	10975	04-01-25	
Ohio	State	8303	11-04-25	
Ohio VAP	State	ORELAP 4062	02-28-26	
Oregon	NELAP	4062	02-27-26	
Pennsylvania	NELAP	68-00340	08-31-25	
Texas	NELAP	T104704517-22-19	08-31-25	
USDA	US Federal Programs	P330-18-00281	01-05-27	
Virginia	NELAP	460175	09-14-25	
West Virginia DEP	State	210	12-31-25	
Wisconsin	State	399167560	08-31-25	



1-5/2.6

6/8 TestAmerica

TestAmerica Laboratory location:	Farmington Hills — 38855 Hills	Tech Drive, Suite 600, Farmington Hills 48331

Chain of Custody Record

Client Contact Company Name: Arcadis	Regulat	tory program:		⊂ DW		E N	PDES	Í	- RCRA		Other									TestAn	nerica I s	aboratorio	ies In
	Client Project	Manager: Meg	an Meckl	cy		Site Co	ontact:	Samar	tha Szpaich	ler		Lab	Conta	ct: Mil	ke Dell	Monico	,			COC N		IDOI ALOI A	<u>cs, m</u>
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240				Teleph	one: 24	48-994-	-2240			Tele	phone	: 330-4	97-939	6	-						
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	cadie con			Ar	alysis	Turnar	ound Time						A	nalyse	5		_	1 For lab u	of 1	COCs	5
'hone: 248-994-2240			CAUIS.CON								F		T	T					T				
Project Name: Ford LTP	Sampler Name	PERMY	M	215			different l	3	weeks	-										Walk-in		-	1
roject Number: 30206169.0401.03	Method of Ship			11		10	day	Γ 1	weeks week	-	9						Σ			Lab sam	pling		
O # US3460021848	Shipping/Track	ting No:			-					A/Y	Grab	8260D	8260D			260D	S Clos			Job/SDC	i No:		
				Matrix		0	ontainc	rs & Pr	eservatives	닅	C a	826	ЧU			de 8	e 826					100	
Samala Martification	Sample Date	Sample Time	Air Aqueeus	Sediment Solid	Other:	H2504	IICI	NaOH ZnAci	NaOH Unpres Other:	Filtered Sample (Y / N)	Composite=C/C	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					cific Notes structions:	
TRIP BLANK_	Sample Date	Sampie Time		N N				Z N	2 7 0		-	-	+	1	-	-	-	_	+				_
TRIP BLANK_ 166- 166			1				1		<u> </u>	N	GX	(X	X	X	Х	X					rip Bla		
MW-83_022425	02/24/25	10:15	4				R			N	0 7	(🗙	X	×	X	X	X				DAs for DAs for	8260D 8260D S	SIM
MW-835_022425	02/24/25	11:00	Ģ				ĺę			A	Εx	X	Y	X	×	Х	X						
MW- 1345_ 022425	02/24/25	14:10	l i				6			N	6 X	X	X	X	X	X	×						
MW-1355_022425	02/24/25	12:15	-4	>			6			N	i x	$\langle \gamma \rangle$	X	K	X	X	X						
MW- 1355 - MS_ 022425	02/24/25	12:15	6	,			G			N	$\langle \cdot \rangle$	(X	\propto	X	¥	x	\star	ĥ	383	-			
MN- 1355 - MSD-022425	02/24/25	12:15	G				6			N	t >	$\langle \times \rangle$	×	×	X	×	X					<u>y</u>	
																		240.0	10.42	4 CO >			
																		240-2	1943	4 CO ;			
<u> </u>																							
Possible Hazard Identification Non-Hazard Tammable in 1	Irritant 🗆 Poisc	on B	Jnknow	/m		Sam	ple Dis Retu	rn to C	A fee may l	e assesse Disposa	d if san l By La	nples ar b		ined los Archive		an 1 n	nonth) Months						_
pecial Instructions/QC Requirements & Comments: ubmit all results through Cadena at jtomalia@cader	tark road	ROW																					
ubmit all results through Cadena at jtomalia@cader evel IV Reporting requested.	faco.com. Cadena #E	203728																					
elinquished by 2 S. Myirs	Company:	dis		te/Time: UL/V		152	3D	Receiv	ed by: Vovi	Cild		Stu/	'15L		Comp	any:	Icidis			Date/Tit つく	ne: 12412	5 15	:30
elinquished by:	Company: ARCA			e/Time 2/25		10	3	Receiv	ed by	tat	11	5			Comp		TA			Date/Tir		5 11	12
clinquished by:	Сопрану		Dat	124	1		<u>`</u>	Receiv	ed in Labor				1		Comp	any:	R			Date/Ti	me:	58	

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18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: 19. SAMPLE CONDITION

WI NC-099-123124 Cooler Receipt Form.doc

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Container Summary Report

Temperature readings

				Page 1 of 2
		Voa Vial 40ml - Hydrochloric Acid	240-219434-E-5 MS	MW-135S-MS_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-E-5	MW-135S_022425
9		Voa Vial 40ml - Hydrochloric Acid	240-219434-D-5 MSD	MW-135S-MSD_022425
		Voa Vial 40ml - Hydrochlorıc Acid	240-219434-D-5 MS	MW-135S-MS_022425
		Voa Vial 40ml - Hydrochlorıc Acıd	240-219434-D-5	MW-135S_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-C-5 MSD	MW-135S-MSD_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-C-5 MS	MW-135S-MS_022425
an le constant d'an an a	**************************************	Voa Vial 40ml - Hydrochloric Acid	240-219434-C-5	MW-135S_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-B-5 MSD	MW-135S-MSD_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-B-5 MS	MW-135S-MS_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-B-5	MW-135S_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-A-5 MSD	MW-135S-MSD_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-A-5 MS	MW-135S-MS_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-A-5	MW-135S_022425
		Voa Vial 40ml - Hydrochloric Acıd	240-219434-F-4	MW-134S_022425
Page		Voa Vial 40ml - Hydrochloric Acid	240-219434-E-4	MW-134S_022425
24		Voa Vial 40ml - Hydrochloric Acid	240-219434-D-4	MW-134S_022425
 	Management of the second se	Voa Vial 40ml - Hydrochloric Acid	240-219434-C-4	MW-134S_022425
25		Voa Vial 40ml - Hydrochloric Acıd	240-219434-B-4	MW-134S_022425
	And a second	Voa Vial 40ml - Hydrochloric Acid	240-219434-A-4	MW-134S_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-F-3	MW-83S_022425
	And and the second	Voa Vial 40ml - Hydrochloric Acid	240-219434-E-3	MW-83S_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-D-3	MW-83S_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-C-3	MW-83S_022425
		Voa Vial 40ml - Hydrochloric Acıd	240-219434-B-3	MW-83S_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-A-3	MW-83S_022425
A resolution of the second		Voa Vial 40ml - Hydrochloric Acid	240-219434-F-2	MW-83_022425
		Voa Vial 40ml - Hydrochtoric Acid	240-219434-E-2	MW-83_022425
2002.2.490.000.000		Voa Vial 40ml - Hydrochloric Acıd	240-219434-D-2	MW-83_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-C-2	MW-83_022425
		Voa Vial 40ml - Hydrochloric Acıd	240-219434-B-2	MW-83_022425
	And back a block of the second s	Voa Vial 40ml - Hydrochloric Acid	240-219434-A-2	MW-83_022425
		Voa Vial 40ml - Hydrochloric Acid	240-219434-A-1	TRIP BLANK_156
Preservation Preservation Added Lot Number	<u>Container</u> Preserv pH Temp Added	Container Type	<u>Lab ID</u>	<u>Client Sample ID</u>
.				Iemperature readings

14

Client Sample ID	<u>Lab ID</u>	Container Type
MW-135S-MSD_022425	240-219434-E-5 MSD	Voa Vial 40ml - Hydrochloric Acid
MW-1358_022425	240-219434-F-5	Voa Vial 40ml - Hydrochloric Acid
MW-135S-MS_022425	240-219434-F-5 MS	240-219434-F-5 MS Voa Vial 40ml - Hydrochloric Acid
MW-135S-MSD 022425	240-219434-F-5 MSI	240-219434-F-5 MSDVoa Vial 40ml - Hydrochloric Acid

	<u>Con</u>
	<u>tamer</u> Temp
	<u>Preservation</u> Added
	Preservation Lot Number
ļ	3/5/2025

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DATA VERIFICATION REPORT



March 05, 2025

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728 Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil Project number: 30251157.401.04 (vapor 301.04) 30206169.0401.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 219434-1 Sample date: 2025-02-24 Report received by CADENA: 2025-03-05 Initial Data Verification completed by CADENA: 2025-03-05 Number of Samples:5 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

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

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, 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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 219434-1

		Sample Name:	TRIP BL/	ANK_156	6		MW-83_	022425			MW-83	S_02242	:5		MW-134	4S_0224	25		MW-135	S_0224	25	
		Lab Sample ID:	2402194	4341			2402194	4342			240219	4343			240219	4344			2402194	1345		
		Sample Date:	2/24/20	25			2/24/20	25			2/24/20)25			2/24/20	25			2/24/20	25		
				Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																						
<u>OSW-8260</u>	<u>DC</u>																					
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		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		ND	2.0	ug/l		ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-219434-1 CADENA Verification Report: 2025-03-05

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58469R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219434-1 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:

Samula ID	Lab ID	Motrix	Sample	Derent Comple	Ana	lysis
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_156	240-219434-1	Water	02/24/2025		Х	
MW-83_022425	240-219434-2	Water	02/24/2025		Х	Х
MW-83S_022425	240-219434-3	Water	02/24/2025		Х	Х
MW-134S_022425	240-219434-4	Water	02/24/2025		Х	Х
MW-135S_022425	240-219434-5	Water	02/24/2025		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed		orted	Perfor Accep		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 HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo Acce	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		X	
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

SIGNATURE:

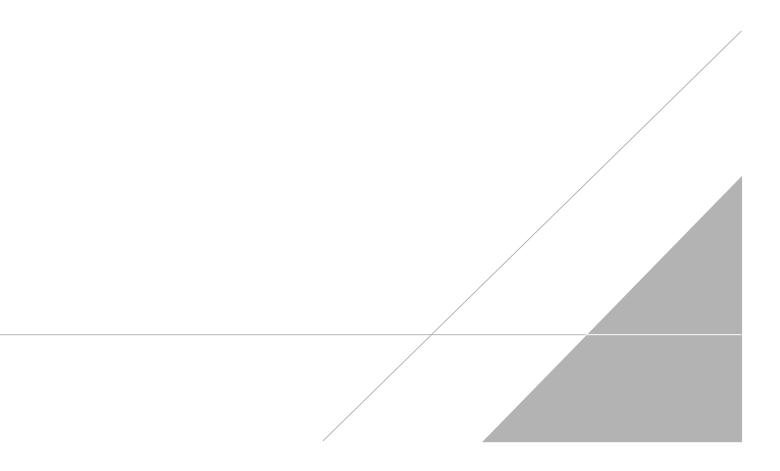
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DATE: March 21, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 26, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS





1-5/2.6

6/8 TestAmerica

TestAmerica Laboratory location:	Farmington Hills — 38855 Hills	Tech Drive, Suite 600, Farmington Hills 48331

Chain of Custody Record

Client Contact Company Name: Arcadis		tory program			DW		NPDE	_		CRA		1									TestA	merica L	aboratorie	es, In
ddress: 28550 Cabot Drive, Suite 500	Client Project	Manager: Meg	an Me	ckley		Site	Conta	ct: Sai	mantha	Szpaichl	er		Lab	Conta	ct: Mi	ke Del	Monic	0			COC	No:		
	Telephone: 248	-994-2240				Tel	ephone	248-9	994-224	0			Tele	phone:	330-4	97-93	96							_
ity/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	cadis.c	om			Analys	is Tur	naroun	Time						A	nalys	es			For lai	1 of 1 b use only	COCs	
hone: 248-994-2240	Samela Name			_		TA	Γ if differ	unt from	halan					Ī							Walk	in client		
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roject Number: 30206169.0401.03	Method of Ship			120		-	10 day	Γ.	1 wee	(2						•	N.			Lab si	mpling		
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			-	Ma	trix	-	Conta	iners d	k Preserv	atives	- ta	8260D	E 826	OCE			ide 8	e 82(-	
Sample Identification	Sample Date	Sample Time	Air	Aquenus Sediment	Solid Other:	H2S04	fonh	NaOH	ZnAc/ NaOH	Unpres Other:	Filtered Sample (Y / N)	Composite=C/Grabed	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					ecific Notes nstructions:	
TRIP BLANK_J26056			Π	1		Τ	-	1			N	3 X	X	x	x	x	x				1	Trip Bla	ank	
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MW- 1345_ 022425	02/24/25	14:10		Ġ				0			N	ЬX	Y	×	X	\times	X	X						
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MN-1355-MS_022425	02/24/25	12:15		6			(, D			N	X	X	X	X	×	X	\star	1	Ξ¥				
MU-1355-M5D-022425	02/24/25	12:15		6			(0			N 1	t x	<u>′</u>	X	×	X	×	X		Ż.			<u>v</u>	
										-		+						<u> </u>	240	-2194	34 CO	; —		
Possible Hazard Identification Non-Hazard itemable itemable	Irritant 🗌 Poisc	on B	Jnkn	own		5			sal (A fe o Client		Disposal				ined lo Archive		han 1 i	nonth) Months						
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Client: Arcadis US Inc. Project/Site: Ford LTP

Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
F2	MS/MSD RPD exceeds control limits	
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		6
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	0
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	13
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
 ¢	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_156

Date Collected: 02/24/25 00:00 Date Received: 02/26/25 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			03/03/25 19:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 19:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 19:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 19:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 19:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/03/25 19:09	1
4-Bromofluorobenzene (Surr)	105		56 - 136					03/03/25 19:09	1
Toluene-d8 (Surr)	103		78 - 122					03/03/25 19:09	1
Dibromofluoromethane (Surr)	100		73 - 120					03/03/25 19:09	1

Job ID: 240-219434-1

Matrix: Water

Lab Sample ID: 240-219434-1

Client Sample ID: MW-83_022425

Date Collected: 02/24/25 10:15 Date Received: 02/26/25 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			02/28/25 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		02/28/25 15:23	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte	· ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/25 03:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/25 03:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 03:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/25 03:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 03:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/25 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/01/25 03:51	1
4-Bromofluorobenzene (Surr)	91		56 - 136					03/01/25 03:51	1
Toluene-d8 (Surr)	99		78 - 122					03/01/25 03:51	1
Dibromofluoromethane (Surr)	105		73 - 120					03/01/25 03:51	1

3/5/2025

Lab Sample ID: 240-219434-2 Matrix: Water

Client Sample ID: MW-83S_022425

Date Collected: 02/24/25 11:00 Date Received: 02/26/25 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			02/28/25 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			-		02/28/25 15:46	1
Method: SW846 8260D - Volati	ile 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			03/01/25 04:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/25 04:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 04:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/25 04:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 04:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/25 04:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		03/01/25 04:14	1
4-Bromofluorobenzene (Surr)	85		56 - 136					03/01/25 04:14	1
Toluene-d8 (Surr)	95		78 - 122					03/01/25 04:14	1
Dibromofluoromethane (Surr)	99		73 - 120					03/01/25 04:14	1

3/5/2025

Job ID: 240-219434-1

Lab Sample ID: 240-219434-3 Matrix: Water

Client Sample ID: MW-134S_022425

Date Collected: 02/24/25 14:10 Date Received: 02/26/25 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			02/28/25 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		68 - 127			-		02/28/25 16:10	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte	· ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/25 04:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/25 04:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 04:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/25 04:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 04:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/25 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		03/01/25 04:38	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136					03/01/25 04:38	1
Toluene-d8 (Surr)	99		78 - 122					03/01/25 04:38	1
Dibromofluoromethane (Surr)	102		73 - 120					03/01/25 04:38	1

3/5/2025

Job ID: 240-219434-1

Lab Sample ID: 240-219434-4

Matrix: Water

Client Sample ID: MW-135S_022425

Date Collected: 02/24/25 12:15 Date Received: 02/26/25 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			02/28/25 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		02/28/25 16:33	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds by C	SC/MS						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/25 08:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/25 08:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 08:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/25 08:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/25 08:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/25 08:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/01/25 08:54	1
4-Bromofluorobenzene (Surr)	86		56 _ 136					03/01/25 08:54	1
Toluene-d8 (Surr)	96		78 - 122					03/01/25 08:54	1
Dibromofluoromethane (Surr)	104		73 - 120					03/01/25 08:54	1

Matrix: Water

Lab Sample ID: 240-219434-5

Job ID: 240-219434-1