

Environment Testing America

ANALYTICAL REPORT

Eurofins Canton 180 S. Van Buren Avenue Barberton, OH 44203 Tel: (330)497-9396

Laboratory Job ID: 240-163058-1 Client Project/Site: Ford LTP - Off-Site

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

Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mode Del Your

Authorized for release by: 3/11/2022 3:16:38 PM

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

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Laboratory Job ID: 240-163058-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site

Qualifiers

GC/MS VOA Qualifier **Qualifier Description**

Ε Result exceeded calibration range.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

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 CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DΙ

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

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 MLMinimum Level (Dioxin) Most Probable Number MPN 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**

Relative Error Ratio (Radiochemistry) RER

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) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site

Job ID: 240-163058-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-163058-1

Comments

No additional comments.

Receipt

The samples were received on 2/25/2022 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 was 1.0° C.

GC/MS VOA

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

VOA Prep

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

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Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Job ID: 240-163058-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Job ID: 240-163058-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-163058-1	TRIP BLANK_137	Water	02/23/22 00:00	02/25/22 08:00
240-163058-2	MW-150S_022322	Water	02/23/22 11:15	02/25/22 08:00

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Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_137 Lab Sample ID: 240-163058-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_137

Date Collected: 02/23/22 00:00 Date Received: 02/25/22 08:00 Lab Sample ID: 240-163058-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/22 13:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/22 13:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 13:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/22 13:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 13:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/22 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 137					03/01/22 13:42	1
4-Bromofluorobenzene (Surr)	104		56 - 136					03/01/22 13:42	1
Toluene-d8 (Surr)	80		78 - 122					03/01/22 13:42	1
Dibromofluoromethane (Surr)	89		73 - 120					03/01/22 13:42	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: MW-150S_022322

Date Collected: 02/23/22 11:15 Date Received: 02/25/22 08:00 Lab Sample ID: 240-163058-2

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			03/01/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					03/01/22 22:56	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/22 22:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/22 22:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/22 22:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/22 22:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/22 22:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/22 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		62 - 137					02/28/22 22:58	1
4-Bromofluorobenzene (Surr)	107		56 - 136					02/28/22 22:58	1
Toluene-d8 (Surr)	88		78 - 122					02/28/22 22:58	1
Dibromofluoromethane (Surr)	94		73 - 120					02/28/22 22:58	1

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Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-163026-F-2 MS	Matrix Spike	82	121	90	95
240-163026-F-2 MSD	Matrix Spike Duplicate	78	118	86	89
240-163058-1	TRIP BLANK_137	74	104	80	89
240-163058-2	MW-150S_022322	75	107	88	94
240-163074-D-3 MSD	Matrix Spike Duplicate	75	120	88	95
240-163074-H-3 MS	Matrix Spike	71	116	86	92
LCS 240-518866/5	Lab Control Sample	74	118	88	89
LCS 240-518931/5	Lab Control Sample	76	116	84	90
MB 240-518866/8	Method Blank	75	111	85	88
MB 240-518931/8	Method Blank	77	111	84	93

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-163058-2	MW-150S_022322	81	
240-163074-G-3 MS	Matrix Spike	76	
240-163074-M-3 MSD	Matrix Spike Duplicate	81	
LCS 240-518984/4	Lab Control Sample	83	
MB 240-518984/5	Method Blank	82	
Surrogate Legend			
DCA = 1,2-Dichloroeth	ane-d4 (Surr)		

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Job ID: 240-163058-1

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

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

Lab Sample ID: MB 240-518866/8

Matrix: Water

Analysis Batch: 518866

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

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte D 0.49 ug/L 1,1-Dichloroethene 1.0 U 1.0 02/28/22 14:02 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 02/28/22 14:02 1.0 U 0.44 ug/L Tetrachloroethene 1.0 02/28/22 14:02 trans-1,2-Dichloroethene 1.0 0.51 ug/L 02/28/22 14:02 1.0 U Trichloroethene 1.0 U 1.0 0.44 ug/L 02/28/22 14:02 Vinyl chloride 1.0 U 1.0 0.45 ug/L 02/28/22 14:02

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 1,2-Dichloroethane-d4 (Surr) 75 02/28/22 14:02 4-Bromofluorobenzene (Surr) 111 56 - 136 02/28/22 14:02 85 78 - 122 Toluene-d8 (Surr) 02/28/22 14:02 Dibromofluoromethane (Surr) 88 73 - 120 02/28/22 14:02

Lab Sample ID: LCS 240-518866/5

Matrix: Water

Analysis Batch: 518866

Client Sample ID: Lab Control Sample

Prep Type: Total/NA % Pac

	Spike	LUS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	22.6		ug/L		113	63 - 134	
cis-1,2-Dichloroethene	20.0	21.6		ug/L		108	77 - 123	
Tetrachloroethene	20.0	19.6		ug/L		98	76 - 123	
trans-1,2-Dichloroethene	20.0	22.5		ug/L		113	75 - 124	
Trichloroethene	20.0	21.9		ug/L		109	70 - 122	
Vinyl chloride	20.0	22.9		ug/L		114	60 - 144	

100 100

Snika

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 62 - 137 4-Bromofluorobenzene (Surr) 118 56 - 136 Toluene-d8 (Surr) 88 78 - 122 73 - 120 Dibromofluoromethane (Surr) 89

Lab Sample ID: 240-163026-F-2 MS

Matrix: Water

Analysis Batch: 518866

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

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	13	U	250	283		ug/L		113	56 - 135
cis-1,2-Dichloroethene	63		250	337		ug/L		110	66 - 128
Tetrachloroethene	13	U	250	249		ug/L		99	62 - 131
trans-1,2-Dichloroethene	11	J	250	290		ug/L		112	56 - 136
Trichloroethene	13	U	250	282		ug/L		113	61 - 124
Vinyl chloride	600		250	857	E	ug/L		102	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		62 - 137
4-Bromofluorobenzene (Surr)	121		56 - 136
Toluene-d8 (Surr)	90		78 - 122

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3/11/2022

Job ID: 240-163058-1

Prep Type: Total/NA

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off-Site

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

Lab Sample ID: 240-163026-F-2 MS

Matrix: Water

Analysis Batch: 518866

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 95 73 - 120

Lab Sample ID: 240-163026-F-2 MSD

Matrix: Water

Analysis Batch: 518866

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Client Sample ID: Matrix Spike

%Rec. **RPD** Limits RPD Limit Unit D %Rec 26

Sample Sample Spike MSD MSD Result Qualifier Added **Analyte** Result Qualifier 13 Ū 1,1-Dichloroethene 250 262 ug/L 105 56 - 135 8 cis-1,2-Dichloroethene 63 250 326 ug/L 105 66 - 128 3 14 Tetrachloroethene 13 U 250 227 ug/L 91 62 - 13120 trans-1.2-Dichloroethene 11 J 250 273 105 56 - 136 15 ug/L 6 Trichloroethene 13 U 250 254 ug/L 102 61 - 124 10 15 Vinyl chloride 600 250 843 E ug/L 97 43 - 157 2 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		62 - 137
4-Bromofluorobenzene (Surr)	118		56 - 136
Toluene-d8 (Surr)	86		78 - 122
Dibromofluoromethane (Surr)	89		73 - 120

Lab Sample ID: MB 240-518931/8

Matrix: Water

Analysis Batch: 518931

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

мв мв Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 03/01/22 13:17 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/01/22 13:17 03/01/22 13:17 Tetrachloroethene 1.0 0.44 ug/L 1.0 U trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/01/22 13:17 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/01/22 13:17 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/01/22 13:17

MR MR Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 77 62 - 137 03/01/22 13:17 56 - 136 4-Bromofluorobenzene (Surr) 111 03/01/22 13:17 Toluene-d8 (Surr) 84 78 - 122 03/01/22 13:17 Dibromofluoromethane (Surr) 93 73 - 120 03/01/22 13:17

Lab Sample ID: LCS 240-518931/5

Matrix: Water

Analysis Batch: 518931

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

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	21.6		ug/L		108	63 - 134	
cis-1,2-Dichloroethene	20.0	21.3		ug/L		107	77 - 123	
Tetrachloroethene	20.0	19.0		ug/L		95	76 - 123	
trans-1,2-Dichloroethene	20.0	22.2		ug/L		111	75 - 124	
Trichloroethene	20.0	21.7		ug/L		109	70 - 122	

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Client: ARCADIS U.S., Inc. Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-518931/5

Matrix: Water

Analysis Batch: 518931

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Vinyl chloride 20.0 23.9 ug/L 119 60 - 144

Limits

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 76 62 - 137 4-Bromofluorobenzene (Surr) 116 56 - 136 Toluene-d8 (Surr) 78 - 122 84 Dibromofluoromethane (Surr) 73 - 120 90

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 518931

Lab Sample ID: 240-163074-D-3 MSD

Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U 20.0 20.7 56 - 135 ug/L 103 1 26 cis-1,2-Dichloroethene 1.0 U 20.0 20.0 100 66 - 128 ug/L 14 Tetrachloroethene 1.0 U 20.0 17.1 ug/L 86 62 - 131 2 20 trans-1,2-Dichloroethene 1.0 U 20.0 20.8 104 56 - 136 15 ug/L Trichloroethene 20.0 20.8 1.0 U ug/L 104 61 - 12415 1 Vinyl chloride 1.0 U 20.0 24.1 ug/L 120 43 - 157

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	75		62 - 137
4-Bromofluorobenzene (Surr)	120		56 - 136
Toluene-d8 (Surr)	88		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Lab Sample ID: 240-163074-H-3 MS **Client Sample ID: Matrix Spike Matrix: Water Prep Type: Total/NA**

Analysis Batch: 518931

_	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	20.9		ug/L		104	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	20.7		ug/L		104	66 - 128	
Tetrachloroethene	1.0	U	20.0	17.4		ug/L		87	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	21.0		ug/L		105	56 - 136	
Trichloroethene	1.0	U	20.0	20.5		ug/L		103	61 - 124	
Vinyl chloride	1.0	U	20.0	23.6		ug/L		118	43 - 157	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	71		62 - 137
4-Bromofluorobenzene (Surr)	116		56 - 136
Toluene-d8 (Surr)	86		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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Client: ARCADIS U.S., Inc. Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site

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

Lab Sample ID: MB 240-518984/5 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 518984

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 2.0 0.86 ug/L 03/01/22 19:35 1,4-Dioxane 2.0 U

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 66 - 120 03/01/22 19:35 1,2-Dichloroethane-d4 (Surr) 82

Lab Sample ID: LCS 240-518984/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 518984

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 9.68 ug/L 97 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 83

Lab Sample ID: 240-163074-G-3 MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 518984

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2.0 U 1,4-Dioxane 10.0 10.2 ug/L 102 51 - 153

MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 76 66 - 120

Lab Sample ID: 240-163074-M-3 MSD

Matrix: Water

Analysis Batch: 518984

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Analyte Result Qualifier Limits Limit Unit D %Rec RPD 1,4-Dioxane 2.0 U 10.0 10.4 ug/L 104 51 - 153

MSD MSD

%Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 66 - 120 81

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

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QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-163058-1 Project/Site: Ford LTP - Off-Site

GC/MS VOA

Analysis Batch: 518866

Γ					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-163058-2	MW-150S_022322	Total/NA	Water	8260B	
MB 240-518866/8	Method Blank	Total/NA	Water	8260B	
LCS 240-518866/5	Lab Control Sample	Total/NA	Water	8260B	
240-163026-F-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-163026-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 518931

Lab Sample ID 240-163058-1	Client Sample ID TRIP BLANK_137	Prep Type Total/NA	Matrix Water	Method 8260B	Prep Batch
MB 240-518931/8	Method Blank	Total/NA	Water	8260B	
LCS 240-518931/5	Lab Control Sample	Total/NA	Water	8260B	
240-163074-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-163074-H-3 MS	Matrix Spike	Total/NA	Water	8260B	

Analysis Batch: 518984

Lab Sample ID 240-163058-2	Client Sample ID MW-150S_022322	Prep Type Total/NA	Water	Method 8260B SIM	Prep Batch
MB 240-518984/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-518984/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-163074-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-163074-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_137 Lab Sample ID: 240-163058-1

Date Collected: 02/23/22 00:00 **Matrix: Water**

Date Received: 02/25/22 08:00

Batch Batch Dilution Batch Prepared Method **Prep Type** Run **Factor** Number or Analyzed Analyst Type Lab TAL CAN Total/NA Analysis 8260B 518931 03/01/22 13:42 LEE

Client Sample ID: MW-150S_022322 Lab Sample ID: 240-163058-2

Date Collected: 02/23/22 11:15 **Matrix: Water**

Date Received: 02/25/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518866	02/28/22 22:58	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	518984	03/01/22 22:56	CS	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off-Site

Job ID: 240-163058-1

Laboratory: Eurofins Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22 *
Connecticut	State	PH-0590	12-31-21 *
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22 *
Illinois	NELAP	200004	07-31-22
lowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22 *
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	11-06-22
New York	NELAP	10975	03-31-22
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	12-21-23
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-21-14	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins Canton

190 Test	America Laboratory location: Brighton —	C nain of Custody Kecord 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763		
Client Contact	Regulatory program:	NPDES RCRA Other	her	
ompany Name: Arcadis	Client Project Manager: Kris Hinskey	Site Contact: Julia McClafferty	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 734-644-5131	Telenhone: 310.497.9396	
City/State/Zip: Novi, MI, 48377	0040	Analysis Turnaround Time	A POLICES	1 of 1 COCs
Phone: 248-994-2240	CHEMI. ACTIVITIES AND			For lab use only
Project Name: Ford LTP Off-Site	Sampler Name:	TAT if different from below 3 weeks		Walk-in client
Project Number: 30080642.402.04	at/Car	1 week	80	Tao sambiing
PO # 30080642.402.04	Shipping/Tracking No:	/ ऱ्र) ग	8 5 208 E 8520 S2008	Job/SDG No:
	Matrix	Containers & Preserv	3008 1"3-DCE 2-DCE 83 3008	
Sample Identification	Sample Date Sample Time Aducou		1,1-DC cls-1,2 Trans- PCE 8, Trans-	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 137		9/1	× × × × × ×	1 Trip Blank
MW-1505.022322	02/23/22 1115 6	Q V	ナナナナナメ	3 VOAs for 8260B
	240-163058 Chain of Custody	of Custody		
Possible Hazard Identification Non-Hazard	ritiant Paison B I Internet	Sample Disposal (A fee may be assessed	ples are retained longer than 1 mo	
s/OC Requirements & Common 343 80 BCAC intrough Cadena at Itomalia.		Return to Chemical By Lab	sy Lab Archive For Months	
Retinguished by M.	SE	1500 Received by: Jour Cold	Company Company	Date Time (37.22 1300)
Reinquished by: NOVI COID STOCKOR REInquished by: REINquished by:	Company Only Date/Time Company Company Date/Time	1030 Received in Laboratory by:	5 3	- 0
All Marie Control of the Control of	1 5 E M	1		

WI-NC-099

were further preserved in the laboratory.

Time preserved: ______Preservative(s) added/Lot number(s):_____

VOA Sample Preservation - Date/Time VOAs Frozen:

Sample(s)

DATA VERIFICATION REPORT



March 12, 2022

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

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30080642.402.04 WA04 OFF-SITE GW Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - North Central

Laboratory submittal: 163058-1 Sample date: 2022-02-23

Report received by CADENA: 2022-03-11

Initial Data Verification completed by CADENA: 2022-03-12

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - North Central

Laboratory Submittal: 163058-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401630 2/23/20	_)581 22	•		MW-150 2401630 2/23/20	 0582 22	22	
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
	Allalyte	cas No.	Nesuit	Lillie	Offics	Qualifier	Nesuit	Lilling	Onits	Quanner
GC/MS VOC										
OSW-826	<u>0B</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	
OSW-826	<u>OBBSim</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-163058-1

CADENA Verification Report: 2022-03-12

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 44840R Review Level: Tier III Project: 30080642.402.04

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-163058-1for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

			Sample Collection		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_137	240-163058-1	Water	02/23/2022		Х	
MW-150S_022322	240-163058-2	Water	02/23/2022		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		X		X	
2. Requested analyses and sample results		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		X	
7. Laboratory sample received date		Х		X	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/8260B-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with 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 calibrations were within the specified control limits.

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B/8260B-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	X				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Vinayak Hegde

SIGNATURE:

DATE: March 22, 2022

PEER REVIEW: Andrew Korycinski

DATE: March 22, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190 Test Test America Laboratory location: Brighton — 10448 Citation Drive Suite 200 / Brighton MI 48116 / 810-229-2763

Chain of Custody Record

121	10	<u>TestAmerica</u>
101		THE LEADER IN ENVIRONMENTAL TESTING

Client Contact	Regulat	ory program:			DW	Ondiro		PDES			RCR			Othe								- 1				
Company Name: Areadis	Client Project Manager: Kris Hinskey					Sia- C		. 1		C1- 0	4.1				Lab Contacts Miles DalManics								TestAmerica Labor	atories, Inc.		
Address: 28550 Cabot Drive, Suite 500												Lab Contact: Mike DelMonico								COC No:						
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240					Telephone: 734-644-5131						Telephone: 330-497-9396									1 of 1	COCs				
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com				Ai	nalysis	Tur	narou	nd Ti	me				Analyses									For lab use only	COCS		
FRONC: 248-994-2240	Sampler Name	Sampler Name: 1				TAT if different from below														Walk-in client						
Project Name: Ford LTP Off-Site	Domne Haimen				40			3 we 2 we			1												Maria I			
Project Number: 30080642.402.04	Method of Ship		,,,,		-		10	day	Γ	1 we	ek		2	ې			m			8260B	SIM				Lab sampling	
PO # 30080642.402.04	Shipping/Track	sing No:								2 day	*		mple (Y / N)	C/Grab=G	<u></u>	260B	8260				8260B S				Job/SDG No:	
			_	,),	latrix	10	C	ontain	ers &	Prese	rvativ	es			8260	CE 8	-DC	8	8	oride	ne 8					
Sample Identification	Shipping/Tracking No: Matrix Containers & Preservatives	Trans-1,2-DCE 8260B	rans-1.2	PCE 8260B	TCE 8260B	Vinyl Chloride	1.4-Dioxane				Sample Specific Special Instruc															
TRIP BLANK_ 137	-			1	T			1					N		Х	Х	X		Х	X					1 Trip Blank	
MW-1505-022322	02/23/22	1115		6				6	,				N		X	*	4	4	-	4	4				3 VOAs for 826 3 VOAs for 826	
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Possible Hazard Identification Non-Hazard Flammable Skin Ir	ritant Poise	on B	Unk	nown			San			al (A		nay be						ined to		than I		(h) (lonths				
Special Instructions/QC Requirements & Comments:														,			_					IVIIII.				
Sample Address: 34380 B-COCO Submit all results through Cadena at Itomalia@cadena	ico.com. Cadena #	E203631																								
Level IV Reporting requested.																										
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Relinquished by:	Company:			Date/	Time:	1-0	1.5		Reg	chied	173	ov!	_	100	_0	7	7		Com	pany:	1	22			02/23/22 Date Time:	
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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_137

Date Collected: 02/23/22 00:00 Date Received: 02/25/22 08:00 Lab Sample ID: 240-163058-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/22 13:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/22 13:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 13:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/22 13:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 13:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/22 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 137					03/01/22 13:42	1
4-Bromofluorobenzene (Surr)	104		56 ₋ 136					03/01/22 13:42	1
Toluene-d8 (Surr)	80		78 - 122					03/01/22 13:42	1
Dibromofluoromethane (Surr)	89		73 - 120					03/01/22 13:42	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163058-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: MW-150S_022322

Date Collected: 02/23/22 11:15 Date Received: 02/25/22 08:00 Lab Sample ID: 240-163058-2

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			03/01/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					03/01/22 22:56	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/22 22:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/22 22:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/22 22:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/22 22:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/22 22:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/22 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		62 - 137					02/28/22 22:58	1
4-Bromofluorobenzene (Surr)	107		56 - 136					02/28/22 22:58	1
Toluene-d8 (Surr)	88		78 - 122					02/28/22 22:58	1
Dibromofluoromethane (Surr)	94		73 - 120					02/28/22 22:58	1

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