ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi Michigan 48377

Generated 11/18/2022 8:13:30 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-176031-1



Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-176031-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-176031-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

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

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

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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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-176031-1

Project/Site: Ford LTP - Off Site

Job ID: 240-176031-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-176031-1

Receipt

The samples were received on 11/8/2022 5:25 PM. 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 2.0°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 240-552054 recovered above the upper control limit for 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK_42 (240-176031-1), MW-164S_110422 (240-176031-2), (CCV 240-552054/4), (CCVIS 240-552054/3), (LCS 240-552054/5), (LCS 240-552054/6), (MB 240-552054/8), (240-176033-B-2), (240-176033-F-2 MS) and (240-176033-L-2 MSD).

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

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Method Summary

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

Job ID: 240-176031-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

11/04/22 00:00 11/08/22 17:25

11/04/22 13:00 11/08/22 17:25

Water

Water

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

TRIP BLANK_42

MW-164S_110422

240-176031-1

240-176031-2

Lab Sample ID Client Sample ID Matrix Collected Received

Job ID: 240-176031-1

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-176031-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_42 Lab Sample ID: 240-176031-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176031-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_42

Date Collected: 11/04/22 00:00 Date Received: 11/08/22 17:25 Lab Sample ID: 240-176031-1

Matrix: Water

Method: SW846 8260D - Vo Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/15/22 16:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/15/22 16:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/15/22 16:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/15/22 16:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/15/22 16:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/15/22 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					11/15/22 16:18	1
4-Bromofluorobenzene (Surr)	79		56 ₋ 136					11/15/22 16:18	1
Toluene-d8 (Surr)	93		78 - 122					11/15/22 16:18	1
Dibromofluoromethane (Surr)	97		73 - 120					11/15/22 16:18	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176031-1

Project/Site: Ford LTP - Off Site

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-176031-2 Client Sample ID: MW-164S_110422

92

103

Date Collected: 11/04/22 13:00

Matrix: Water Date Received: 11/08/22 17:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/15/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 120					11/15/22 01:47	1
Method: SW846 8260D - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/15/22 21:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/15/22 21:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/15/22 21:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/15/22 21:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/15/22 21:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/15/22 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137					11/15/22 21:46	1
4-Bromofluorobenzene (Surr)	73		56 ₋ 136					11/15/22 21:46	1

78 - 122

73 - 120

11/15/22 21:46

11/15/22 21:46

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176031-1

Project/Site: Ford LTP - Off Site

Method: 8260D - Volatile Organic Compounds by 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)
240-176031-1	TRIP BLANK_42	101	79	93	97
240-176031-2	MW-164S_110422	108	73	92	103
240-176033-F-2 MS	Matrix Spike	92	99	98	94
240-176033-L-2 MSD	Matrix Spike Duplicate	90	97	96	92
LCS 240-552054/5	Lab Control Sample	90	94	97	93
MB 240-552054/8	Method Blank	101	81	96	95

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-175884-G-2 MS	Matrix Spike	110	
240-175884-M-2 MSD	Matrix Spike Duplicate	112	
240-176031-2	MW-164S_110422	108	
LCS 240-551906/3	Lab Control Sample	105	
MB 240-551906/4	Method Blank	120	

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

Client: ARCADIS U.S., Inc. Job ID: 240-176031-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-552054/8

Matrix: Water

Analysis Batch: 552054

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

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 11/15/22 15:02 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/15/22 15:02 1.0 U Tetrachloroethene 1.0 0.44 ug/L 11/15/22 15:02 0.51 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 11/15/22 15:02 Trichloroethene 1.0 U 1.0 0.44 ug/L 11/15/22 15:02 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/15/22 15:02

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 101 1,2-Dichloroethane-d4 (Surr) 11/15/22 15:02 4-Bromofluorobenzene (Surr) 81 56 - 136 11/15/22 15:02 96 78 - 122 Toluene-d8 (Surr) 11/15/22 15:02 Dibromofluoromethane (Surr) 95 73 - 120 11/15/22 15:02

Lab Sample ID: LCS 240-552054/5

Matrix: Water

Analysis Batch: 552054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits 25.0 27.0 108 63 - 134 1,1-Dichloroethene ug/L cis-1,2-Dichloroethene 25.0 26.5 106 ug/L 77 - 123 Tetrachloroethene 25.0 24.3 97 ug/L 76 - 123 trans-1.2-Dichloroethene 25.0 26.3 105 75 - 124

ug/L Trichloroethene 25.0 24.6 98 70 - 122 ug/L Vinyl chloride 12.5 10.4 ug/L 83 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 90 62 - 137 4-Bromofluorobenzene (Surr) 94 56 - 136 Toluene-d8 (Surr) 97 78 - 122 73 - 120 Dibromofluoromethane (Surr) 93

Lab Sample ID: 240-176033-F-2 MS

Matrix: Water

Analysis Batch: 552054

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	1.0	U	25.0	27.8		ug/L		111	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	25.2		ug/L		101	66 - 128	
Tetrachloroethene	1.0	U	25.0	24.9		ug/L		100	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	25.0		ug/L		100	56 - 136	
Trichloroethene	1.0	U	25.0	22.5		ug/L		90	61 - 124	
Vinyl chloride	1.0	U	12.5	10.5		ug/L		84	43 - 157	

	MS		
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	98		78 - 122

Eurofins Canton

Job ID: 240-176031-1

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

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

Lab Sample ID: 240-176033-F-2 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 552054

MS MS

%Recovery Qualifier Surrogate Limits Dibromofluoromethane (Surr) 94 73 - 120

Lab Sample ID: 240-176033-L-2 MSD

Matrix: Water

Analysis Batch: 552054

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	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	25.0	27.9		ug/L		112	56 - 135	0	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.4		ug/L		98	66 - 128	3	14
Tetrachloroethene	1.0	U	25.0	23.0		ug/L		92	62 - 131	8	20
trans-1,2-Dichloroethene	1.0	U	25.0	24.1		ug/L		96	56 - 136	4	15
Trichloroethene	1.0	U	25.0	23.0		ug/L		92	61 - 124	2	15
Vinyl chloride	1.0	U	12.5	9.93		ug/L		79	43 - 157	5	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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

Lab Sample ID: MB 240-551906/4

Matrix: Water

Analysis Batch: 551906

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

Client Sample ID: Matrix Spike

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 11/14/22 18:27 0.86 ug/L

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 66 - 120 120 11/14/22 18:27

Lab Sample ID: LCS 240-551906/3

Analysis Batch: 551906

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 9.69 ug/L 97 80 - 122

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 105 66 - 120

Lab Sample ID: 240-175884-G-2 MS

Matrix: Water

Analysis Batch: 551906

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

Eurofins Canton

Prep Type: Total/NA

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176031-1

Project/Site: Ford LTP - Off Site

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	110		66 - 120								
Lab Sample ID: 240-1758 Matrix: Water Analysis Batch: 551906	884-M-2 MSD					Client	Samp	le ID: N	latrix Spil Prep Ty		
•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	51 - 153	2	16
	MSD	MSD									
O	%Recovery	Qualifier	Limits								
Surrogate	/ortecovery	Quantities									

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QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-176031-1

GC/MS VOA

Analysis Batch: 551906

Lab Sample ID 240-176031-2	Client Sample ID MW-164S_110422	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-551906/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-551906/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-175884-G-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-175884-M-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 552054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176031-1	TRIP BLANK_42	Total/NA	Water	8260D	
240-176031-2	MW-164S_110422	Total/NA	Water	8260D	
MB 240-552054/8	Method Blank	Total/NA	Water	8260D	
LCS 240-552054/5	Lab Control Sample	Total/NA	Water	8260D	
240-176033-F-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-176033-L-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-176031-1 Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-176031-1 Client Sample ID: TRIP BLANK_42

Matrix: Water

Date Collected: 11/04/22 00:00 Date Received: 11/08/22 17:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	552054	SAM	EET CAN	11/15/22 16:18

Lab Sample ID: 240-176031-2 Client Sample ID: MW-164S_110422

Date Collected: 11/04/22 13:00 **Matrix: Water**

Date Received: 11/08/22 17:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	552054	SAM	EET CAN	11/15/22 21:46
Total/NA	Analysis	8260D SIM		1	551906	CS	EET CAN	11/15/22 01:47

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176031-1

Project/Site: Ford LTP - Off Site

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	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
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	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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Activate	Client Contact	Regulatory program: DW	NPDES RCRA		Took Amorino
The PLANK 13 The Plank 14 The	Address: 28550 Cahal Drive Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
National University	Charles and Mark Mark 1000	Telephone: 248-994-2240	Telephone: 248-994-2293	Telephone: 330-497-9396	
This of the control	. Hy/State/Zap: NoVI, NH, 48577	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	for lab use only
The part	Phone: 248-994-2240				
1 1 1 1 1 1 1 1 1 1	roject Name: Ford LTP Off-Site	SUKRRI	TAT if different from below 3 weeks 10 day 2 weeks		Walk-in client Lab sampling
The company	roject Number: 30146655.402.04		I week	8	
Winter Complement Winter Character Winter Cha	O#30146655,402,04	Shipping/Tracking No:	le (Y /	8560	Job/SDG No:
1		Matrix	amp D=9	B DCE	
1	Sample Identification	Air Aqueous Sediment bilo	HAO3 HOL Composite Composite Compress Compress Compress Compress Composite C	Trans-1,2 PCE 8260 TCE 8260 Vinyl Chlo	Sample Specific Notes / Special Instructions:
10 10 10 10 10 10 10 10	TRIP BLANK_ 42		υ Ζ	×	1 Trip Blank
Unknown Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month) Sample Disposal (A fer may be assessed if samples are retained longer than 1 month	MW-1(45_11942	(300	3	× × ×	3 VOAs for 8260B 3 VOAs for 8260B SIM
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Unknown Chicken Chi					
Company:			240-1760	31 Chain of Custody	
Company Comp					
Date/Time: 1472 407 ACROLS COLD STORE, PRCACES 1472 1472 1000 Learned by: 1000 Learned by: 11722 1172	Possible Hazard Identification Non-Hazard Flammable Skin		Sample Disposal (A fee may be assessed if samp	ples are retained longer than 1 month) Archive For	
SAM SUKARTA COMPANY ARCACIES 11/4/22/ 407 Received by COLO STORE COMPANY ARCACIES 11/4/22 1/4/22 COMPANY ARCACIES 11/4/22 1/4/22	ipecial Instructions/OC Requirements & Comments: Sample Address: 34637 GEACON submit all results through Cadena at itomalia@cade evel IV Reporting requested.			Atemot For 3	
Company ARCHOIS (1772) 1000 Receivedby the Company Company Date Time: 1802 Received in Both Company Company	SAM	Company, CACACUES Date/II	Received by PRCROIS	STORE.	TOH 22(1/1)
the feel of the whole the many block company	Celinquished by:	HCHOUS III	1000 Receiveding	Company;	Date Time 122 /1000
	و،		,	South Company	Date/Time: 10.5

	71
Eurofins - Canton Sample Receipt Form/Narrative Barberton Facility	Login#: 105
Client Arcaul Site Name Site Name	Cooler unpacked by:
Cooler Received on Opened O	fins Courier Other
	torage Location
Eurofins Cooler # CV Foam Box Client Cooler Box	Other
Packing material used: Bubble Wrap Foam Plastic Bag No.	ne Other
	one se Multiple Cooler Form
	Corrected Cooler Temp. C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quan	ntity (Vai) No
-Were the seals on the outside of the cooler(s) signed & dated?	Des No. NIA 1650 that are not
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeH	
-Were tamper/custody seals intact and uncompromised?	Yes No NA VOAs
Shippers' packing slip attached to the cooler(s)?	Off and Greek
1. Did custody papers accompany the sample(s)?	Toc
 Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on t 	
7. Did all bottles arrive in good condition (Unbroken)?	Va No
B. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of contain	
10. Were correct bottle(s) used for the test(s) indicated?	(Ye) No
11. Sufficient quantity received to perform indicated analyses?	Yes No.
2. Are these work share samples and all listed on the COC?	Yes (No)
If yes, Questions 13-17 have been checked at the originating laboratory.	
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA pH Strip Lot# HC286797
14. Were VOAs on the COC?	Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this	s. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No.
7. Was a LL Hg or Me Hg trip blank present?	Yes No
Contacted PM Date by	via Verbal Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	onal next page Samples processed by:
8 8	
19. SAMPLE CONDITION	
Sample(s) were received after the rec	commended holding time had expired.
Sample(s)	were received in a broken container.
Sample(s) were received with	bubble >6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION	-
Sample(s)	were further preserved in the laboratory.
Sample(s)Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

W7-NC-099

Job Notes

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

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

Authorization

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

DATA VERIFICATION REPORT



November 19, 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: 30146655.402.04 off-site

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory submittal: 176031-1 Sample date: 2022-11-04

Report received by CADENA: 2022-11-18

Initial Data Verification completed by CADENA: 2022-11-19

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

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

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory Submittal: 176031-1

		Sample Name: TRIP BLANK_42 MW-164S_1				4S_1104	22			
		Lab Sample ID:	2401760	0311			2401760	0312		
		Sample Date:	11/4/20	22			11/4/20	22		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>OD</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-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-176031-1

CADENA Verification Report: 2022-11-19

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 47740R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-176031-1 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) includes 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_42	240-176031-1	Water	11/04/22		Х	
MW-164S_110422	240-176031-2	Water	11/04/22		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Performance Acceptable		Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
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	
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 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines NFG 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.
 - 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 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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_42 MW-164S_110422	Continuous Calibration Verification %D	1,1-Dichloroethene	+20.4%

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

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.05	Non-detect	R
Initial and Continuing Calibration	KKF <0.05	Detect	J
	RRF <0.01 ¹	Non-detect	R
	RRF <0.01	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
	KKF 20.03 01 KKF 20.01	Detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
	%RSD > 20% or a correlation coefficient	Non-detect	UJ
Initial Calibration	<0.99	Detect	J
	%RSD > 90%	Non-detect	R
	70K3D > 90%	Detect	J
	0/D > 200/ /ingragge in consitiuity)	Non-detect	No Action
	%D >20% (increase in sensitivity)	Detect	J
Continuing Calibration	0/D > 200/ (decrease in consitiuity)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D > 000/ (increase/decrease in consitivity)	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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.

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Performance Acceptable		Not	
	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		
lon abundance criteria for each instrument used		Х		Х		
Field Duplicate RPD	Х				Х	
Internal standard		Х		Х		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		Х		Х		
B. Quantitation Reports		Х		Х		
C. RT of sample compounds within the established RT windows		Х		Х		
D. Transcription/calculation errors present		Х		Х		
E. Reporting limits adjusted to reflect sample dilutions		Х		Х		

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE:

DATE: November 29, 2022

PEER REVIEW: Andrew Korycinski

DATE: December 02, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

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

<u>TestAmerica</u>

Client Contact Regulatory program: DW - NPDES RCRA Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2293 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs 1 of 1 Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses For lab use only Phone: 248-994-2240 Walk-in client TAT if different from below Sampler Name: Project Name: Ford LTP Off-Site 3 weeks SAM SUKARIA ✓ 2 weeks Lab sampling Method of Shipment/Carrier: Project Number: 30146655.402.04 1 week $\frac{S}{N}$ Composite=C / Grab=G 2 days PO# 30146655.402.04 Shipping/Tracking No: 1 day Job/SDG No 1,1-DCE 8260B /inyl Chloride Matrix Containers & Preservatives Sample Specific Notes / NaOH **Special Instructions:** Air Sample Identification Sample Date Sample Time TRIP BLANK_ 42 X IGI Χ Χ X Х Х 1 Trip Blank 6 3 VOAs for 8260B MW-1645_110422 1300 XX XX X X 3 VOAs for 8260B SIM Page 386 of Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ▼ Non-Hazard □ Flammable Skin Irritant Poison B Unknown Return to Client Disposal By Lab Archive For [Special Instructions/QC Requirements & Comments: Sample Address: 34637 GEACON ST.
Submit all results through Cadena at itomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by: 1407 Relinquished by Relinquished by

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176031-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_42

Lab Sample ID: 240-176031-1 Date Collected: 11/04/22 00:00 **Matrix: Water**

Date Received: 11/08/22 17:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/15/22 16:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/15/22 16:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/15/22 16:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/15/22 16:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/15/22 16:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/15/22 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					11/15/22 16:18	1
4-Bromofluorobenzene (Surr)	79		56 - 136					11/15/22 16:18	1
Toluene-d8 (Surr)	93		78 - 122					11/15/22 16:18	1
Dibromofluoromethane (Surr)	97		73 - 120					11/15/22 16:18	1

Client Sample ID: MW-164S_110422

Date Collected: 11/04/22 13:00

Date Received: 11/08/22 17:25

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86 ι	ug/L			11/15/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 2-Dichloroethane-d4 (Surr)	108		66 - 120			-		11/15/22 01:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/15/22 21:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/15/22 21:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/15/22 21:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/15/22 21:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/15/22 21:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/15/22 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	108		62 - 137			•		11/15/22 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	108		62 - 137		11/15/22 21:46	1	
4-Bromofluorobenzene (Surr)	73		56 - 136		11/15/22 21:46	1	
Toluene-d8 (Surr)	92		78 - 122		11/15/22 21:46	1	
Dibromofluoromethane (Surr)	103		73 - 120		11/15/22 21:46	1	

Lab Sample ID: 240-176031-2

Matrix: Water