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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/21/2024 11:54:56 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204304-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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

Authorization

Generated 5/21/2024 11:54:56 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-204304-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-204304-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

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. Project: Ford LTP

Job ID: 240-204304-1 Eurofins Cleveland

Job Narrative 240-204304-1

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

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

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

Receipt

The samples were received on 5/11/2024 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 3.6°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 240-613535 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK_43 (240-204304-1), MW-162S_050924 (240-204304-2) and (240-204329-B-2).

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

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Job ID: 240-204304-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204304-1

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

Eurofins Cleveland

5/21/2024

Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204304-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204304-1	TRIP BLANK_43	Water	05/09/24 00:00	05/11/24 08:00
240-204304-2	MW-162S_050924	Water	05/09/24 11:15	05/11/24 08:00

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204304-1

Client Sample ID: TRIP BLANK_43

Lab Sample ID: 240-204304-1

No Detections.

Client Sample ID: MW-162S_050924 Lab Sample ID: 240-204304-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204304-1

Project/Site: Ford LTP

Date Received: 05/11/24 08:00

Client Sample ID: TRIP BLANK_43

Lab Sample ID: 240-204304-1 Date Collected: 05/09/24 00:00

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			05/18/24 15:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 15:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 15:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			_		05/18/24 15:41	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					05/18/24 15:41	1
Toluene-d8 (Surr)	93		78 - 122					05/18/24 15:41	1
Dibromofluoromethane (Surr)	98		73 - 120					05/18/24 15:41	1

Client Sample Results

Client: Arcadis U.S., Inc.

Job ID: 240-204304-1

Project/Site: Ford LTP

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-162S_050924

Date Collected: 05/09/24 11:15 Date Received: 05/11/24 08:00 Lab Sample ID: 240-204304-2

Prepared

Matrix: Water

Dil Fac

Analyzed 05/18/24 16:26

05/18/24 16:26 05/18/24 16:26

05/18/24 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/24 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		05/15/24 15:11	1
Method: SW846 8260D - Volat Analyte	•	Ounds by G Qualifier	C/MS	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier			Unit ug/L	<u>D</u> .	Prepared	Analyzed 05/18/24 16:26	Dil Fac
Analyte	Result	Qualifier U	RL	0.49		<u>D</u> .	Prepared	- -	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49 0.46	ug/L	<u> </u>	Prepared	05/18/24 16:26	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u> -	Prepared	05/18/24 16:26 05/18/24 16:26	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	<u>D</u>	Prepared	05/18/24 16:26 05/18/24 16:26 05/18/24 16:26	Dil Fac 1 1 1 1 1 1 1

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

115

101

102

Surrogate Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204304-1

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-204304-1	TRIP BLANK_43	102	91	93	98
240-204304-2	MW-162S_050924	115	101	102	107
240-204329-E-2 MSD	Matrix Spike Duplicate	108	104	108	101
240-204329-F-2 MS	Matrix Spike	107	106	108	100
LCS 240-613535/6	Lab Control Sample	102	101	105	100
MB 240-613535/10	Method Blank	112	100	101	107

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	(68-127)	
240-204203-C-1 MS	Matrix Spike	109	
240-204203-C-1 MSD	Matrix Spike Duplicate	111	
240-204304-2	MW-162S_050924	104	
LCS 240-613063/4	Lab Control Sample	103	
MB 240-613063/6	Method Blank	108	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

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Client: Arcadis U.S., Inc. Job ID: 240-204304-1

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

MD MD

Lab Sample ID: MB 240-613535/10

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 613535

Client Sample ID: Method Blank

Prep Type: Total/NA

	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			05/18/24 12:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 12:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 12:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 12:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 12:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 12:37	1

MB MB %Recovery Qualifier Prepared Dil Fac Surrogate Limits Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 05/18/24 12:37 112 100 4-Bromofluorobenzene (Surr) 56 - 136 05/18/24 12:37 Toluene-d8 (Surr) 101 78 - 122 05/18/24 12:37 Dibromofluoromethane (Surr) 107 73 - 120 05/18/24 12:37

25.0

28.7

Lab Sample ID: LCS 240-613535/6

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 613535

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

60 - 144

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 103 63 - 134 25.0 25.8 ug/L 25.0 23.8 ug/L 95 77 - 123 25.0 24.6 ug/L 98 76 - 123 25.0 26.3 ug/L 105 75 - 124 25.0 25.3 101 ug/L 70 - 122

ug/L

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 102 62 - 137 4-Bromofluorobenzene (Surr) 101 56 - 136 Toluene-d8 (Surr) 105 78 - 122 Dibromofluoromethane (Surr) 73 - 120 100

Lab Sample ID: 240-204329-E-2 MSD

Matrix: Water

Analysis Batch: 613535

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

115

-	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	25.0		ug/L		100	56 - 135	1	26	
cis-1,2-Dichloroethene	1.0	U	25.0	23.4		ug/L		94	66 - 128	1	14	
Tetrachloroethene	1.0	U	25.0	23.1		ug/L		93	62 - 131	4	20	
trans-1,2-Dichloroethene	1.0	U	25.0	25.0		ug/L		100	56 - 136	2	15	
Trichloroethene	1.0	U	25.0	22.6		ug/L		90	61 - 124	2	15	
Vinyl chloride	1.0	U	25.0	29.7		ug/L		119	43 - 157	2	24	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	108		78 - 122

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

Job ID: 240-204304-1

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

Lab Sample ID: 240-204329-E-2 MSD

Matrix: Water

Analysis Batch: 613535

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

117

43 - 157

MSD MSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 101 73 - 120

Lab Sample ID: 240-204329-F-2 MS

Matrix: Water

Vinyl chloride

Analysis Batch: 613535

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

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,1-Dichloroethene 1.0 U 25.0 25.4 ug/L 101 56 - 135 cis-1,2-Dichloroethene 1.0 U 25.0 23 7 95 66 - 128 ug/L Tetrachloroethene 1.0 U 25.0 24.0 ug/L 96 62 - 131 trans-1.2-Dichloroethene ug/L 1.0 U 25.0 25.5 102 56 - 136 Trichloroethene 1.0 U 25.0 23.0 ug/L 92 61 - 124

29.2

ug/L

25.0

1.0 U MS MS

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

Lab Sample ID: MB 240-613063/6

Matrix: Water

Analysis Batch: 613063

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/15/24 10:06 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 108 68 - 127 05/15/24 10:06

Lab Sample ID: LCS 240-613063/4

Analyte

1,4-Dioxane

Matrix: Water Prep Type: Total/NA Analysis Batch: 613063 Spike LCS LCS %Rec

Result

9.17

Qualifier

Unit

ug/L

Added

10.0

LCS LCS %Recovery Qualifier Surrogate Limits 68 - 127

103

Lab Sample ID: 240-204203-C-1 MS

Matrix: Water

Analysis Batch: 613063

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: Matrix Spike

%Rec

92

Client Sample ID: Lab Control Sample

Limits

75 - 121

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 1.1 J 10.0 10.5 ug/L 93 20 - 180

Eurofins Cleveland

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204304-1

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		68 - 127

_							
	Lah Samnla	ID:	240.	2041	203-C	_1 N	ISD

Matrix: Water

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 613063 RPD Sample Sample Spike MSD MSD %Rec

Result Qualifier Added Result Qualifier D Limits RPD Limit Analyte Unit %Rec 1,4-Dioxane 10.0 10.4 93 20 - 180 20 1.1 J ug/L 0

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 111 68 - 127

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204304-1

GC/MS VOA

Analysis Batch: 613063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204304-2	MW-162S_050924	Total/NA	Water	8260D SIM	
MB 240-613063/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-613063/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-204203-C-1 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-204203-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 613535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204304-1	TRIP BLANK_43	Total/NA	Water	8260D	
240-204304-2	MW-162S_050924	Total/NA	Water	8260D	
MB 240-613535/10	Method Blank	Total/NA	Water	8260D	
LCS 240-613535/6	Lab Control Sample	Total/NA	Water	8260D	
240-204329-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-204329-F-2 MS	Matrix Spike	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204304-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_43

Lab Sample ID: 240-204304-1 Date Collected: 05/09/24 00:00

Matrix: Water

Date Received: 05/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	613535	MDH	EET CLE	05/18/24 15:41

Client Sample ID: MW-162S_050924 Lab Sample ID: 240-204304-2

Date Collected: 05/09/24 11:15 Matrix: Water

Date Received: 05/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	613535	MDH	EET CLE	05/18/24 16:26
Total/NA	Analysis	8260D SIM		1	613063	MDH	EET CLE	05/15/24 15:11

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204304-1

Laboratory: Eurofins Cleveland

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

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

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MICHIGAN

Chain of Custody Record

Te	est	Ar	η	er	ic
THE	LEADER	IN EN	VIRON	MENTA	LTEST

Te	stAmerica Labora	itory location	Brig	ghton	10-	448 Cita	tion Dri	ve, S	Suite	200 /	Brigh	nton, MI 4	18116	/ 810	0-229-	2763							THE LE	ADER IN ENVIRONMENTAL TES	TING
Client Contact	Regula	tory program	:		_ r	w	_	NPI	DES		_ I	RCRA	-	Oth	er										1
Company Name: Arcadis	Client Project	M	171				ler.	<i>C</i>		Chri		Weaver				li is	C	>6	ke Del	N1				stAmerica Laboratories, C. No:	11/2
Address: 28550 Cabot Drive, Suite 500			FILES	skey																	:0			C No:	14
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240					Tele	epho	ne: 2	48-99-	4-224	0				Tele	phone:	330-	197-93	96			\vdash	1 of 1 COCs	H
	Email: kristoff	er.hinskey@a	readi	s.com				λna	lysis	Turns	roun	d Time	7			_	,		Ā	naiy	ses		For	lab use only	
Phone: 248-994-2240	Sampler Name						TAT	l if di	flet ent	from be	low												w:	ilk-in client	
Project Name: Ford LTP	10	Hier	6								3 wee													The second	
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:	<u>u</u>				┨ '	10 da	ay		I wee			0	ı						≥		Lat	b sampling	
PO # US3410018772							-				2 day: 1 day		N. N.	age a		٥	8260D			G09	S Q		Tol	SDG No:	
FO # US3410018772	Shipping/Track	ang No:											mple (V/N)	Composite=C / Grab	e	cis-1,2-DCE 8260D	E 8			Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM		100	73DG No.	
				1	Matri	X	+	Co	otaine	ers & P	LO-CL	vatives		Ĭ.	8260D	CE	Trans-1,2-DCE	8260D	000	lorid	aue				
				tous	Sediment	_ =	3	2		=	5, =	5 5	Filtered Sa	npos	1,1-DCE	1,2-	15-1,	820	TCE 8260D	5	Š	1 1		Sample Specific Notes /	
Sample Identification	Sample Date	Sample Time	: 1	Aqueous	Srdi	Solid Other:	H2SO4	Ž	⊒	NaOH	Zn Zc NaOH	Unpres Other:	Ĕ	ē	=	cis-	Trai	PCE	TCE	, i	4.		\perp	Special Instructions:	
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Page 18 of 20 5/21/2024

	VOA Sample Preservation Date/Time VOAs Frozen.
	Sample(s)Were further preserved in the laboratory Time preservedPreservanve(s) added/Lot number(s)
	20 SAMPLE PRESERVATION
	SAMPLE CONDITION West received after the recommended holding time had expired. Sample(s) West received after the recommended holding time had expired. West received with bubble >6 mm in diameter (Notify PM)
A	
	18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES [H] additional next page Samples processed by:
	Concerning
	Contacted PM Date byvia Veibal Voice Mail Other
	13 Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? 15 Were an bubbles >6 mm m any VOA vials? 16 Was a VOA trip blank present m the cooler(s)? Trip Blank Lot # UVO CO Yes No 17 Was a LL Hg or Mo Hg trip blank present?
	Yes No
	he COC?), # of containers (YN), and say
<u></u>	Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? To No Did all bettles arrive in good condition (Unbroken)?
	mpromised? The No. NA.
	HYes Quantity (Fee No dated? Yes No (ILHeMeHg)? Yes You
	I. Cooler temperature upon receipt IR GUN# (CF OO °C) Observed Cooler Temp 3-6°C Corrected Cooler Temp 3.6°C
	Packing material used. Simble Wrap Roam Plastic Bag COOLANT: Wet Ice Blue Ice Dry Ice Water
	hrs-Drop-off-Pate/Page Chent Drop Off Rurof
	St. Dened on S-11-24
	$\frac{2}{2} d^2 $
Ď	

5/11/2024

Temperature readings			
Client Sample ID	<u>Lab ID</u>	Container Type	ContainerPreservationPreservationpHTempAddedLot Number
TRIP BLANK_43	240-204304-A-I	Voa Vial 40ml - Hydrochloric Acid	
MW-162S_050924	240-204304-A-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-162S_050924	240-204304-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-162S_050924	240-204304-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-162S_050924	240-204304-D-2	Voa Vial 40ml - Hydrochloric Acid	
MW-162S 050924	240-204304-E-2	Voa Viał 40ml - Hydrochloric Acid	
MW-162S_050924	240-204304-F-2	Voa Vial 40ml - Hydrochloric Acid	

Page 20 of 20

Page 1 of 1

DATA VERIFICATION REPORT



May 21, 2024

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

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.401.03

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

Laboratory submittal: 204304-1 Sample date: 2024-05-09

Report received by CADENA: 2024-05-21

Initial Data Verification completed by CADENA: 2024-05-21

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.					
The analyte / compound was detected in the associated blank. For Organic methods the sam concentration was greater than the RDL and less than 5x (or 10x for common lab contamina blank concentration and is considered non-detect at the reported concentration. For Inorgani 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: 204304-1

		Sample Name: Lab Sample ID: Sample Date:	240204	2402043041 24 5/9/2024 5 <i>h</i>				MW-162S_050924 2402043042 5/9/2024			
	Angluto	Coo No	Dogult	Report	Unito	Valid	Dogult	Report	Unito	Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Kesuli	Limit	Units	Qualifier	
GC/MS VOC											
OSW-826	<u>)D</u>										
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		
OSW-8260	<u>DDSIM</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 # 240-204304-1

CADENA Verification Report: 2024-05-21

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54256R Review Level: Tier III Project: 30206169.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204304-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Analysis				
Sample ID	Labib	Matrix	Collection Date	Farent Sample	VOC	VOC SIM			
TRIP BLANK_43	240-204304-1	Water	05/09/2024		X				
MW-162S_050924	240-204304-2	Water	05/09/2024		Х	Х			

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		X	
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 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 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_43 MW-162S 050924	Continuing Calibration Verification %D	Vinyl chloride	+24.3%

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

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.05	Non-detect	R
	KKF <0.05	Detect	J
Initial and Continuing Calibration	DDE -0.041	Non-detect	R
Campianon	RRF <0.01 ¹	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J
	0/ DOD 000/	Non-detect	R
	%RSD > 90%	Detect	J
	OVD COOK (in any and in any attitute)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
Operation via a Optila antique	0/D 000/ (dagged in aggrithmit.)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
0/ D	0/D 000/ // // // // // // // // // // // /	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

Rep	orted			Not Required
No	Yes	No	Yes	- Required
C/MS)				
	Х		Х	
	X		Х	
	Х		Х	
	Х		Х	
	Х	Х		
	Х		Х	
	Х		Х	
X				Х
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	X		X	
	Х		Х	
	No C/MS)	X X X X X X X X X X X X X	Reported Acce No Yes No C/MS) X X X X X X X X X X X X X	No Yes No Yes

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BASHIME

DATE: June 10, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 12, 2024

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



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

Client Contact	Regulat	ory program:		□ DW	Г	NPDE	s	⊤ RCI	RA	ΓO	ther											1	
Company Name: Arcadis	Client Project N	danager: Kris	Hinskey		Site	Contac	et: Chris	tina We	aver			Lab	Contac	t: Mik	e DelN	lonico)				FestAmerica Laboratorie COC No:	s, Irle.	h ~
Address: 28550 Cabot Drive, Suite 500																				_		4	٩
City/State/Zip: Novi, MI, 48377	Telephone: 248				I ele		248-994					Telep	hone:	330-19						_	1 of 1 COCs		
Phone: 248-994-2240	Email: kristoffe	r.hinskey@ar	eadis.com			Analys	is Turna	round I	ime	1		_		Ī	An	alys	es	-	_	F	For lab use only		
Barlon Norman Front LTD	Sampler Name:				TA	िंगी विधित्त	ent from bel	low 3 weeks												7	Walk-in client		
Project Name: Ford LTP	60	HicJa	4			10 day	V 2	2 weeks												1	Lab sampling		
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:						l week 2 days		2 9	i		9			a	SIM						
PO# US3410018772	Shipping/Track	ing No:						day		5 5		G09	826			8260	G093			J	lob/SDG No:		
		-		Matrix		Conta	iners & P	reservati	No.	Sample (V/N)	260	E 83	DCE	٥	٥	ride	ne 82			L			
Sample Identification	Sample Date	Sample Time	Air	Sediment	H2SO4	HNOS	NaOH	NaOII Unpres	Other:	Filtered Sample (V /	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Notes Special Instructions:		
TRIP BLANK_43			1		Î	1				NC	3 X		Х	Х	Х	Х					1 Trip Blank		1
MW-1625-050924	5/9/24	1115	۵			1	6			NG	5 X	X	X	×	X	X	义				3 VOAs for 8260D 3 VOAs for 8260D S	IM	V
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Possible Hazard Identification Non-Hazard Tanamable Sin Irr	itant Poiso	nB [Jnknown		,		Disposal eturn to C			assessed Disposal			retair A			an l n	nonth) Mont	hs					
Special Instructions/QC Requirements & Comments:	2017 Bre	wster	SH																				
Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.	co.com. Cadena #E	203728																					
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920-108, TestAmenca Laboratones, Inc., All highin reserved																							

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204304-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_43

Lab Sample ID: 240-204304-1 Date Collected: 05/09/24 00:00 **Matrix: Water**

Date Received: 05/11/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 15:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 15:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 15:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:41	1
Vinyl chloride	1.0	K N1	1.0	0.45	ug/L			05/18/24 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		05/18/24 15:41	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					05/18/24 15:41	1
Toluene-d8 (Surr)	93		78 - 122					05/18/24 15:41	1
Dibromofluoromethane (Surr)	98		73 - 120					05/18/24 15:41	1

Client Sample ID: MW-162S_050924

Date Collected: 05/09/24 11:15

Date Received: 05/11/24 08:00

Dibromofluoromethane (Surr)

Method: SW846 8260D SIM - \	/olatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/24 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		05/15/24 15:11	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		05/15/24 15:11	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	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			05/18/24 16:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 16:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 16:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 16:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 16:26	1
Vinyl chloride	1.0	M NN	1.0	0.45	ug/L			05/18/24 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137			-		05/18/24 16:26	1
4-Bromofluorobenzene (Surr)	101		56 - 136					05/18/24 16:26	1
Toluene-d8 (Surr)	102		78 - 122					05/18/24 16:26	1

73 - 120

107

05/18/24 16:26

Lab Sample ID: 240-204304-2

Matrix: Water