PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 5/19/2023 3:23:01 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-184995-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 5/19/2023 3:23:01 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-184995-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	21

3

4

6

۶ R

9

11

12

1/

Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-184995-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Eurofins Cleveland

5/19/2023

Page 4 of 21

J

A

Ę

7

10

46

13

Case Narrative

Client: ARCADIS US Inc

Job ID: 240-184995-1

Project/Site: Ford LTP - Off Site

Job ID: 240-184995-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-184995-1

Receipt

The samples were received on 5/9/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0° C, 2.8° C, 3.3° C and 4.3° C

GC/MS VOA

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

1

4

5

6

7

8

40

11

14

Method Summary

Client: ARCADIS US Inc Job ID: 240-184995-1 Project/Site: Ford LTP - Off Site

Method **Method Description** Protocol Laboratory SW846 EET EDI 8260D Volatile Organic Compounds by GC/MS 8260D SIM Volatile Organic Compounds (GC/MS) SW846 EET EDI 5030C SW846 EET EDI

Protocol References:

Purge and Trap

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-184995-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-184995-1	TRIP BLANK_146	Water	05/04/23 00:00	05/09/23 10:30
240-184995-2	MW-179S_050423	Water	05/04/23 09:45	05/09/23 10:30

1

3

4

6

_

9

44

12

1/

Detection Summary

Client: ARCADIS US Inc Job ID: 240-184995-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_146 Lab Sample ID: 240-184995-1

No Detections.

No Detections.

16

4

5

8

10

11

13

14

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184995-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_146

Lab Sample ID: 240-184995-1 Date Collected: 05/04/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/13/23 16:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/23 16:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 16:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/23 16:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 16:19	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/23 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 128			_		05/13/23 16:19	1
Dibromofluoromethane (Surr)	114		77 - 124					05/13/23 16:19	1
Toluene-d8 (Surr)	91		80 - 120					05/13/23 16:19	1
4-Bromofluorobenzene	105		76 - 120					05/13/23 16:19	1

Page 9 of 21

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184995-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-179S_050423

Date Collected: 05/04/23 09:45 Date Received: 05/09/23 10:30

Analyte

1,1-Dichloroethene

Lab Sample ID: 240-184995-2

Analyzed

05/13/23 19:20

Prepared

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			05/17/23 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		<u>75 - 133</u>			_		05/17/23 11:36	1

RL

1.0

MDL Unit

0.49 ug/L

Result Qualifier

1.0 U

cis-1,2-Dichloroethene	1.0 (U	1.0	0.46	ug/L		05/13/23 19:20	1
Tetrachloroethene	1.0 (U	1.0	0.44	ug/L		05/13/23 19:20	1
trans-1,2-Dichloroethene	1.0 (U	1.0	0.51	ug/L		05/13/23 19:20	1
Trichloroethene	1.0 (U	1.0	0.44	ug/L		05/13/23 19:20	1
Vinyl chloride	1.0 (U	1.0	0.45	ug/L		05/13/23 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate 1,2-Dichloroethane-d4 (Surr)		Qualifier	Limits 70 - 128			Prepared	Analyzed 05/13/23 19:20	Dil Fac
	<u> </u>	Qualifier				Prepared		Dil Fac 1
1,2-Dichloroethane-d4 (Surr)	100	Qualifier	70 - 128			Prepared	05/13/23 19:20	Dil Fac 1 1 1

4

O

8

Dil Fac

40

11

12

14

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-184995-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

_				Percent Sui	rrogate Reco
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)
240-184995-1	TRIP BLANK_146	100	114	91	105
240-184995-2	MW-179S_050423	100	113	90	104
LCS 460-908966/3	Lab Control Sample	97	111	91	108
LCSD 460-908966/4	Lab Control Sample Dup	99	115	94	112
MB 460-908966/8	Method Blank	98	115	92	107
Surrogate Legend					

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

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(75-133)	
240-184995-2	MW-179S_050423	95	
LCS 460-909650/5	Lab Control Sample	94	
LCSD 460-909650/6	Lab Control Sample Dup	97	
MB 460-909650/9	Method Blank	96	

Surrogate Legend

BFB = 4-Bromofluorobenzene

Client: ARCADIS US Inc Job ID: 240-184995-1

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

Lab Sample ID: MB 460-908966/8

Matrix: Water

Analysis Batch: 908966

Project/Site: Ford LTP - Off Site

Client	Sample	ID:	Method	Blank
	Dr	on T	Type: To	to I/NI A

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			05/13/23 11:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/23 11:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 11:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/23 11:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 11:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/23 11:42	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 70 - 128 05/13/23 11:42 98 Dibromofluoromethane (Surr) 115 77 - 124 05/13/23 11:42 05/13/23 11:42 Toluene-d8 (Surr) 92 80 - 120 4-Bromofluorobenzene 107 76 - 120 05/13/23 11:42

Lab Sample ID: LCS 460-908966/3

Matrix: Water

Analysis Batch: 908966

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	21.5		ug/L	107	68 - 133	
cis-1,2-Dichloroethene	20.0	21.6		ug/L	108	78 - 121	
Tetrachloroethene	20.0	21.2		ug/L	106	70 - 127	
trans-1,2-Dichloroethene	20.0	22.7		ug/L	113	74 - 126	
Trichloroethene	20.0	19.2		ug/L	96	71 - 121	
Vinyl chloride	20.0	15.9		ug/L	79	55 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 128
Dibromofluoromethane (Surr)	111		77 - 124
Toluene-d8 (Surr)	91		80 - 120
4-Bromofluorobenzene	108		76 - 120

Lab Sample ID: LCSD 460-908966/4

Matrix: Water

Analysis Batch: 908966

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

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	21.5		ug/L		107	68 - 133	0	30
cis-1,2-Dichloroethene	20.0	21.0		ug/L		105	78 - 121	3	30
Tetrachloroethene	20.0	20.4		ug/L		102	70 - 127	4	30
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	74 - 126	6	30
Trichloroethene	20.0	18.3		ug/L		91	71 - 121	5	30
Vinyl chloride	20.0	16.6		ug/L		83	55 - 144	5	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 128
Dibromofluoromethane (Surr)	115		77 - 124
Toluene-d8 (Surr)	94		80 - 120

Eurofins Cleveland

Job ID: 240-184995-1

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCSD 460-908966/4 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 908966

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 112 76 - 120

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

Lab Sample ID: MB 460-909650/9 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 909650

MB MB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 05/17/23 08:57

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 4-Bromofluorobenzene 96 75 - 133 05/17/23 08:57

Lab Sample ID: LCS 460-909650/5 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 909650

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec 1,4-Dioxane 5.00 4.96 57 - 124 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene 94 75 - 133

Lab Sample ID: LCSD 460-909650/6 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 909650

Spike LCSD LCSD %Rec RPD Analyte Added Qualifier Unit %Rec Limits RPD Limit Result 1,4-Dioxane 5.00 5.77 115 57 - 124 30 ug/L 15

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 97 75 - 133

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-184995-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 908966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184995-1	TRIP BLANK_146	Total/NA	Water	8260D	
240-184995-2	MW-179S_050423	Total/NA	Water	8260D	
MB 460-908966/8	Method Blank	Total/NA	Water	8260D	
LCS 460-908966/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-908966/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 909650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184995-2	MW-179S_050423	Total/NA	Water	8260D SIM	
MB 460-909650/9	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-909650/5	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 460-909650/6	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

3

4

6

9

10

11

13

14

Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-184995-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_146

Lab Sample ID: 240-184995-1 Date Collected: 05/04/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908966	MZS	EET EDI	05/13/23 16:19

Client Sample ID: MW-179S_050423

Lab Sample ID: 240-184995-2

Matrix: Water

Date Collected: 05/04/23 09:45 Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908966	MZS	EET EDI	05/13/23 19:20
Total/NA	Analysis	8260D SIM		1	909650	SZD	EET EDI	05/17/23 11:36

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-184995-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

3

4

5

9

10

12

13

1030

5/8/23 / Date/Time: 05-09-23

1019 S

Date/Tipe: /

Sompany recells

1001

1619

Date/Timy

ompany rech >

6206

Level IV Reporting requested.

Relinquished by: 1007 Relinquished by Relinquished b

1050

TestAmerica

Chain of Custody Record

MICHIGAN

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

TestAmerica Laboratories, Inc. COC No: 3 VOAs for 8260B 3 VOAs for 8260B SIM Sample Specific Notes / Special Instructions: 1 Trip Blank or lab use on /alk-in client op/SDG No ab sampling Sample Disposal (Afre may be assessed if samples are retained longer than 1 month | Return to Client | P. Disposal By Lab Archive For Mo X MIS 806S8 enexoid-4, Lab Contact: Mike DelMonico × Vinyl Chloride 8260B Telephone: 330-497-9396 CE 8500B \times \times CE 8500B X \times Lans-1, 2-DCE 8260B 12-1,2-DCE 8260B \times X \times 1-DCE 8560B 240-184995 Chain of Custody Other 0 G D=danD \ D=sileoqmoD Z Filtered Sample (Y / N) Site Contact: Christina Weaver RCRA Analysis Turnaround Time Lapres 1 week 2 days J weeks Felcphone: 248-994-2240 3 weeks I day No.N 'AT if different from below HORN O HCI 10 day CONH FOSTH Other: Sampler Name, Rent Kusper MΩ bilo reamina Unknown Email: kristoffer.hinskey@arcadis.com snoonby Client Project Manager: Kris Hinskey ni.A Regulatory program: Sample Date | Sample Time 5/4/23 6945 Felephone: 248-994-2240 Sample Address: 3 V \$ 70 (00 0 50 70)
Submit all results through Cadena at itomalia@cadenaco.com. Cadena #E203631 Shipping/Tracking No: 5/4/23 Weds North Skin Irritant MW-1795-05042 Special Instructions/QC Requirements & Comments, Sample Identification Flammable Client Contact Address: 28550 Cabot Drive, Suite 500 Project Number: 30167538.402.04 Project Name: Ford LTP Off-Site Possible Hazard Identification City/State/Zip: Novi, MI, 48377 Company Name: Arcadis TRIP BLANK PO # 30167538.402.04 Phone: 248-994-2240 4 Page 17 of 21

250/ S/8/23/ 5/8/23 -Company. Company:

13 14 15

\$2008. TestAmerica Laboratores, Inc. All rights reserved. TestAmerica & Design "" are trademarks of TestAmerica Laboratories,

· ·	16UCGS
Eurofins - Canton Sample Receipt Form/Narrative Login # : Barberton Facility	(844)
Client A(Cadis Site Name	Cooler unpacked by:
Cooler Received on 05-09-23 Opened on 05-09-23	Leal-M. Smith
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Oth	ner
Receipt After-hours: Drop-off Date/Time Storage Location	
-Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and so the correct bottle(s) used for the test(s) indicated? 10. Were correct bottle(s) used for the test(s) indicated? 11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory. 13. Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC?	No No No No No No ample type of grab/comp(N)? No
Contacted PM Date by via Verbal V	oice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Samples processed by:
19. SAMPLE CONDITION	
Sample(s) were received after the recommended hold	
Sample(s) were received	
Sample(s) were received with bubble >6 mm i	n diameter. (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s) were fur	ther preserved in the laboratory.
Sample(s) were fur Time preserved: Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

5/19/2023

Login #: [84995

Cooler Description	IR Gun #	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
EC Client Box Other	IR GUN #:	2.7	7.8	Wet ice Blue ice Dry Water None
EC Client Box Other	IR GUN #:	3.2	3.3	Wet Ice Blue Ice Dry Water None
EC Client Box Other	IR GUN #:	1.9	2.0	Wet Ice Blue Ice Dry
EC Client Box Other	IR GUN #:	4.2	4,3	Wet ice Blue ice Dry
EC Client Box Other	IR GUN #:	-1, 0	113	Water None Wet Ice Blue Ice Dry
EC Client Box Other	IR GUN #:			Water None Wet ice Blue ice Dry
EC Client Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry
	IR GUN #:			Water None Wet Ice Blue Ice Dry
	IR GUN #:			Water None Wet Ice Blue Ice Dry
EC Client Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry
EC Client Box Other	IR GUN #:			Water None Wet ice Blue ice Dry
EC Client Box Other	IR GUN #:			Water None Wet ice Sive ice Dry
EC Client Box Other	IR GUN #:			Water None Wet ice Sive ice Dry
EC Client Box Other				Water None
EC Client Box Other	IR GUN #:			Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry Water None
EC Client Box Other	IR GUN #:			Wet ice Sive ice Dry i Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry i Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry i Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry i Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry i Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry i Water None
EC Client Box Other	IR GUN #:			Wet ice Sive Ice Dry is Water None
EC Client Box Other	IR GUN #:			Wet ice Blue Ice Dry is Water None
EC Client Box Other	IR GUN #:			Wet ice Sive Ice Dry is Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry k
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry k Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry k
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ic
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ic
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ic
EC Client Box Other	IR GUN #:			Water None Wet ice Blue ice Dry ic
EC Client Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ic
	IR GUN #:			Water None Wet Ice Blue Ice Dry Ic
	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client Box Other				Water None

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

💸 eurofins | Environment Testing

Chain of Custody Record

Eurofins Cleveland 180 S. Van Buren Avenue

Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772	Chain of Custody Record	y Record	100	S curonnent Testing
	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Information (Sub Contract Lab)		DelMonico, Michael		240-167888.1
Client Contact:	Phone:	E-Mail:	State of Origin:	Page:
Shipping/Receiving		Michael.DelMonico@et.eurofinsus.com	Michigan	Page 1 of 1

כווכוור ווווסוווומוסוו (סמם ססוווומכר במם)				Del	DeiMonico, Michael	lichaei						240-167888.1
Client Contact: Shipping/Receiving	Phone:			E-Mail:	iii	- Conico	E-Mail: Michael DelMonico@et eurofinsus com	800	State of Origin:	jin:		Page:
o mosano					A Socialists		ingd (Sop pop)		56			
Company. Eurofins Environment Testing Northeast,					Accreditat	ons kequ	Accreditations Kequired (See note):					240-184995-1
Address: 777 New Durham Road	Due Date Requested:	ij					Acak	Analysis Beginseted	Potage			Preservation Codes:
Constitution of the consti	0/2/2/2020						2	SIS INC.	חפפופח	-	ŀ	
city: Edison	I A I Requested (days):	/s):										ø.
State, Zip: NJ, 08817												D - Nitric Acid Q - Na2SO3 E - NaHSO4 R - Na2S2O3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	,# Od					(281)						or ic Acid
Email:	WO #:				(on	ייסע ד						1200
Project Name: Ford LTP - Off Site	Project #: 24015353				10 80,	s) sac					edicto	K - EDTA L - EDA
Site:	SSOW#:				A) as		****				03 30	Other:
		Sample	Sample Type (C=comp,	(W=water, S=solid, O=waste/oil, BT=Tissue,	M/SM mot	0D/2030C (W					nedmuk is.	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	A=Air)		-					01	Special Instructions/Note:
	X	X	Preserva	Preservation Code:	X						_ _	
PRIP BLANK_146 (240-184995-1)	5/4/23	Eastern		Water		×					-	
MW-179S_050423 (240-184995-2)	5/4/23	09:45 Eastern		Water		×						9
21											3076	
											1000	
											3822	
											24.00	
											5.00	
											233	

leboratory boos not contently maintain acceptation in the State doorgan issue acover for analysis/restssmantain be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC. Possible Hazard Identification

Possible Hazard Identification		Sample Disposal (A fee may be	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed		Return To Client	Disposal By Lab Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Requi	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Reinquishes by:	313 915	Company NG Received by:	L, & FQ/6 DANGTON 123 1030 EFT FL.
Salpanished by:	Date/Time:	Company Received by:	Date/Time: Company
Aelinquished by:	Date/Time:	Company Received by:	Date/Time: Company
Custody Seals Intact: Custody Seal No.: 70	(2)	Cooler Temperature(s) °C and Other	Cooler Temperature(s) °C and Other Remarks: 4.1/4,1,6,2/5.2 °C 1299
		12 13 14 15	2 3 4 5 6 7 8 9

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-184995-1

List Source: Eurofins Edison
List Number: 2
List Creation: 05/11/23 12:17 PM

Creator: Armbruster, Chris

Creator: Armbruster, Chris		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

2

4

Q

11

4.0

14

DATA VERIFICATION REPORT



May 23, 2023

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

CADENA project ID: E203631

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

Project number: 30167538.402.04 off-site

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

Laboratory submittal: 184995-1 Sample date: 2023-05-04

Report received by CADENA: 2023-05-23

Initial Data Verification completed by CADENA: 2023-05-23

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, LCS/LCD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at 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 - Cleveland

Laboratory Submittal: 184995-1

		Sample Name:	TRIP BLA	ANK_146	5		MW-179	9S_0504	23	
		Lab Sample ID:	2401849	9951			2401849	9952		
		Sample Date:	5/4/202	3			5/4/202	.3		
				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>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 # 240-184995-1

CADENA Verification Report: 2023-05-23

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49913R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-184995-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Barant Sample	Parent Sample Analysis	
Sample ID	Labib	Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_146	240-184995-1	Water	05/04/23		X	
MW-179S_050423	240-184995-2	Water	05/04/23		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep		Not Required	
	No	Yes	No	Yes	Required	
Sample receipt condition		Χ		X		
2. Requested analyses and sample results		Χ		Х		
Master tracking list		Χ		X		
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 for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-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	
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		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: Hrishikesh Upadhyaya

SIGNATURE:

DATE: June 09, 2023

Curuliland

PEER REVIEW: Andrew Korycinski

DATE: June 11, 2023

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 Regulatory program: DW **NPDES** RCRA Other Client Contact Company Name: Arcadis TestAmerica Laboratories, Inc. Site Contact: Christina Weaver Client Project Manager: Kris Hinskey ab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, M1, 48377 1 of 1 COCs Analysis Turnaround Time Analyses Email: kristoffer.hinskey@arcadis.com For lab use only Phone: 248-994-2240 Sampler Name; Kent Kasper TAT if different from below Walk-in client Project Name: Ford LTP Off-Site 3 weeks Lab sampling Project Number: 30167538.402.04 1 week S mple (Y/N) 2 days Vinyl Chloride 8260B PO # 30167538.402.04 Shipping/Tracking No: I day Job/SDG No: Matrix Containers & Preservatives Sample Specific Notes / H2S04 Special Instructions: Sample Date | Sample Time Sample Identification NIGI X X TRIP BLANK 1 Trip Blank MW-1795-050423 3 VOAs for 8260B 3 VOAs for 8260B SIM Page 544 으 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Flammable Skin Irritant Non-Hazard Poison B Unknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments; Wedsworth Sample Address: 34870 Wods Worth
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by: 1619 1600 7/coch) Relinquished by Relinquished by CETA

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184995-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_146

Lab Sample ID: 240-184995-1 Date Collected: 05/04/23 00:00 **Matrix: Water**

Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/13/23 16:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/23 16:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 16:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/23 16:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 16:19	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/23 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 128			-		05/13/23 16:19	1
Dibromofluoromethane (Surr)	114		77 - 124					05/13/23 16:19	1
Toluene-d8 (Surr)	91		80 - 120					05/13/23 16:19	1
4-Bromofluorobenzene	105		76 - 120					05/13/23 16:19	1

Client Sample ID: MW-179S_050423 Lab Sample ID: 240-184995-2

Date Collected: 05/04/23 09:45 Date Received: 05/09/23 10:30

Method: SW846 8260D S	IM - Volatile Orga	anic Comp	ounds (GC/N	1S)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/17/23 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		75 - 133					05/17/23 11:36	1

Method: SW846 8260D - Vo	latile Organic	Compounds	by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/13/23 19:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/23 19:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 19:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/23 19:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 19:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/23 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 128		05/13/23 19:20	1
Dibromofluoromethane (Surr)	113		77 - 124		05/13/23 19:20	1
Toluene-d8 (Surr)	90		80 - 120		05/13/23 19:20	1
4-Bromofluorobenzene	104		76 - 120		05/13/23 19:20	1

Matrix: Water