PREPARED FOR

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

Generated 5/18/2023 12:27:53 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-184624-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 5/18/2023 12:27:53 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: 240-184624-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-184624-1

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.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
051	

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 US Inc

Job ID: 240-184624-1

Project/Site: Ford LTP - Off Site

Job ID: 240-184624-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-184624-1

Receipt

The samples were received on 5/4/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 1.6°C

GC/MS VOA

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

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Method Summary

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

Job ID: 240-184624-1

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 Purge and Trap

Protocol References:

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

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Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-184624-1	TRIP BLANK_150	Water	05/01/23 00:00	05/04/23 08:00
240-184624-2	MW-104S_050123	Water	05/01/23 15:00	05/04/23 08:00

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Job ID: 240-184624-1

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-184624-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_150 Lab Sample ID: 240-184624-1

No Detections.

Client Sample ID: MW-104S_050123 Lab Sample ID: 240-184624-2

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184624-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_150

Lab Sample ID: 240-184624-1 Date Collected: 05/01/23 00:00

Matrix: Water

Date Received: 05/04/23 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			05/11/23 22:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 22:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 22:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 22:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 22:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 128			_		05/11/23 22:48	1
Dibromofluoromethane (Surr)	97		77 - 124					05/11/23 22:48	1
Toluene-d8 (Surr)	102		80 - 120					05/11/23 22:48	1
4-Bromofluorobenzene	117		76 - 120					05/11/23 22:48	1

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184624-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-104S_050123

Date Collected: 05/01/23 15:00 Date Received: 05/04/23 08:00 Lab Sample ID: 240-184624-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/07/23 05:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		 75 - 133			_		05/07/23 05:13	1

Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/12/23 02:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 02:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 02:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 02:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 02:35	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 02:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 128			-		05/12/23 02:35	1
Dibromofluoromethane (Surr)	97		77 - 124					05/12/23 02:35	1
Toluene-d8 (Surr)	100		80 - 120					05/12/23 02:35	1
4-Bromofluorobenzene	120		76 - 120					05/12/23 02:35	1

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Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-184624-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)
240-184624-1	TRIP BLANK_150	108	97	102	117
240-184624-2	MW-104S_050123	109	97	100	120
LCS 460-908577/2	Lab Control Sample	101	91	100	118
LCSD 460-908577/4	Lab Control Sample Dup	100	91	99	119
MB 460-908577/8	Method Blank	110	99	101	117
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)	
240-184624-2	MW-104S_050123	105	
LCS 460-907549/4	Lab Control Sample	107	
LCSD 460-907549/5	Lab Control Sample Dup	108	
MB 460-907549/8	Method Blank	105	

Surrogate Legend

BFB = 4-Bromofluorobenzene

Eurofins Cleveland

Client: ARCADIS US Inc Job ID: 240-184624-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 460-908577/8

Matrix: Water

Analysis Batch: 908577

Client San	iple ID:	Method	Blank
	Pron	Type: To	tal/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			05/11/23 20:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 20:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 20:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 20:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 20:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 20:32	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 110 70 - 128 05/11/23 20:32 Dibromofluoromethane (Surr) 99 77 - 124 05/11/23 20:32 Toluene-d8 (Surr) 101 80 - 120 05/11/23 20:32 4-Bromofluorobenzene 117 76 - 120 05/11/23 20:32

Lab Sample ID: LCS 460-908577/2

Matrix: Water

Analysis Batch: 908577

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Opike	LUU	LUJ				/BIXEC	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.8		ug/L		99	68 - 133	
cis-1,2-Dichloroethene	20.0	19.7		ug/L		99	78 - 121	
Tetrachloroethene	20.0	20.9		ug/L		105	70 - 127	
trans-1,2-Dichloroethene	20.0	20.1		ug/L		101	74 - 126	
Trichloroethene	20.0	19.7		ug/L		99	71 - 121	
Vinyl chloride	20.0	19.0		ug/L		95	55 - 144	

	203	203	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 128
Dibromofluoromethane (Surr)	91		77 - 124
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene	118		76 - 120

Lab Sample ID: LCSD 460-908577/4

Matrix: Water

Analysis Batch: 908577

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

Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
20.0	20.0		ug/L		100	68 - 133	1	30
20.0	20.5		ug/L		102	78 - 121	4	30
20.0	21.4		ug/L		107	70 - 127	2	30
20.0	20.2		ug/L		101	74 - 126	0	30
20.0	20.1		ug/L		100	71 - 121	2	30
20.0	20.0		ug/L		100	55 - 144	5	30
	Added 20.0 20.0 20.0 20.0 20.0 20.0	Added Result 20.0 20.0 20.0 20.5 20.0 21.4 20.0 20.2 20.0 20.1	Added Result Qualifier 20.0 20.0 20.0 20.0 20.5 20.5 20.0 21.4 20.0 20.0 20.2 20.1	Added Result Qualifier Unit 20.0 20.0 ug/L 20.0 20.5 ug/L 20.0 21.4 ug/L 20.0 20.2 ug/L 20.0 20.1 ug/L	Added Result Qualifier Unit D 20.0 20.0 ug/L 20.0 20.5 ug/L 20.0 21.4 ug/L 20.0 20.2 ug/L 20.0 20.1 ug/L	Added Result Qualifier Unit D %Rec 20.0 20.0 ug/L 100 20.0 20.5 ug/L 102 20.0 21.4 ug/L 107 20.0 20.2 ug/L 101 20.0 20.1 ug/L 100	Added Result Qualifier Unit D %Rec Limits 20.0 20.0 ug/L 100 68 - 133 20.0 20.5 ug/L 102 78 - 121 20.0 21.4 ug/L 107 70 - 127 20.0 20.2 ug/L 101 74 - 126 20.0 20.1 ug/L 100 71 - 121	Added Result Qualifier Unit D %Rec Limits RPD 20.0 20.0 ug/L 100 68 - 133 1 20.0 20.5 ug/L 102 78 - 121 4 20.0 21.4 ug/L 107 70 - 127 2 20.0 20.2 ug/L 101 74 - 126 0 20.0 20.1 ug/L 100 71 - 121 2

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
Dibromofluoromethane (Surr)	91		77 - 124
Toluene-d8 (Surr)	99		80 - 120

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Job ID: 240-184624-1

Project/Site: Ford LTP - Off Site

Client: ARCADIS US Inc

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

Lab Sample ID: LCSD 460-908577/4 **Matrix: Water**

Analysis Batch: 908577

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 119 76 - 120 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Lab Sample ID: MB 460-907549/8 **Matrix: Water**

Analysis Batch: 907549

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 05/07/23 00:11

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 4-Bromofluorobenzene 105 75 - 133 05/07/23 00:11

Lab Sample ID: LCS 460-907549/4 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 907549

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec 1,4-Dioxane 5.00 4.09 82 57 - 124 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 107 75 - 133

Lab Sample ID: LCSD 460-907549/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 907549

Spike LCSD LCSD %Rec RPD Analyte Added Qualifier Unit %Rec Limits RPD Limit Result 1,4-Dioxane 5.00 4.20 57 - 124 30 ug/L

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 108 75 - 133

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-184624-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 907549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
240-184624-2	MW-104S_050123	Total/NA	Water	8260D SIM
MB 460-907549/8	Method Blank	Total/NA	Water	8260D SIM
LCS 460-907549/4	Lab Control Sample	Total/NA	Water	8260D SIM
LCSD 460-907549/5	Lab Control Sample Dup	Total/NA	Water	8260D SIM

Analysis Batch: 908577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184624-1	TRIP BLANK_150	Total/NA	Water	8260D	
240-184624-2	MW-104S_050123	Total/NA	Water	8260D	
MB 460-908577/8	Method Blank	Total/NA	Water	8260D	
LCS 460-908577/2	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-908577/4	Lab Control Sample Dup	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-184624-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_150

Lab Sample ID: 240-184624-1 Date Collected: 05/01/23 00:00

Matrix: Water

Date Received: 05/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908577	SZD	EET EDI	05/11/23 22:48

Client Sample ID: MW-104S_050123 Lab Sample ID: 240-184624-2

Date Collected: 05/01/23 15:00 Matrix: Water

Date Received: 05/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908577	SZD	EET EDI	05/12/23 02:35
Total/NA	Analysis	8260D SIM		1	907549	KLB	EET EDI	05/07/23 05:13

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: 240-184624-1

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

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L'A		Chain of Custody Record 0448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	9-2763	TestAmerico
Client Contact Common Name: Arcadis	Regulatory program: DW	☐ NPDES ☐ RCRA ☐ Other		
vive Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
CinyState Zin Nati MI 48177	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Phone: 248-994-2240 Project Name: Ford LTP Off-Site Project Number: 441.67538 462 46	Sampler Name: KEUT KASPER			Walk-in client Lab sampling
PO#30167£38.402.04	Shipping/Tracking No:	le (Y / N)	80928 80928	Job/SDG No:
Sample Identification	Sample Date Sample Tine Air Solid	Composite Camp Mittered Samp Machel M	cis-1,2-DCE 87 Trans-1,2-DCE 82 TCE 8260B TCE 8260B Vinyl Chloride	Sample Specific Notes / Special Instructions:
J TRIP BLANK_ 150	5/1/23 1	× 0 ×	× × × × × × × × × × × × × × × × × × ×	1 Trip Blank
" MW-1045_050123	2/1/2 15:00 6	× × × × × × × × × × × × × × × × × × ×	X	3 VOAs for 8260B 3 VOAs for 8260B SIM
Page 17 of 21	2240-	240-184624 Chain of Custody	M N	HIGAN
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poisun B Special Instructions OC Requirements & Comments: Sample Address: 34400 STRANDELST Submit all results through Cadena at joomalia@cadenaco.com. Cadena #E203631	ant F Paisun B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Client	mples are retained longer than 1 month) b Archive For Munths	
Relinguished by Retinquished by Retinquished by Retinquished by Retinquished by	Date Time Date Time 5/3	Received Received	Company: Company: Company: Company:	Date Time 1813 Salas 123 + 5 5 5 5 5 5 5 5 5 5
2003: Leschymera "Spandone Inc. Aligne resolva.	23	45 19:401) June 18:40 1	12 00 000	U443 00

Eurofins - Canton Sample Receipt Form/Narrative Login #: 184624
Barberton Facility
Client Accadis Site Name Cooler unpacked by:
Cooler Received on 5 4 23 Opened on 5 4 23 RAChelle HA. det
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location
Eurofins Cooler # EC Foam Box Client Cooler Box Other
Packing material used Bubble Wrap Foam Plastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # 20 (CF + O °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No
-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)? Yes No NA Checked for pH by Receiving:
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? Yes No NA Receiving:
3. Shippers' packing slip attached to the cooler(s)? VOAs
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? (ES) No
7. Did all bottles arrive in good condition (Unbroken)?
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservative (YN), # of containers (N), and sample type of grab/comp(N)?
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? Yes No
12. Are these work share samples and all listed on the COC? Yes Vo 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# HC208070
14. Were VOAs on the COC?
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #es No
17. 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 additional next page Samples processed by:
19. SAMPLE CONDITION
Sample(s) were received after the recommended 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) were further preserved in the laboratory. Time preserved: Preservative(s) added/Lot number(s):
VOA Sample Preservation - Date/Time VOAs Frozen:

Login #: 184624

		Eurofins - Canto	on Sample Receipt Mu	Iltiple Cooler Form	
Cooler D	escription		Observed	Corrected	Coolant
	rcle)	(Circle)	Temp °C	Temp °C	(Circle)
EC Client	Box Othe		1-2	1.2	Wet loe Blue Ice Dry Ice
EC Client	Box Othe	IR CHA 4:	1.6	1-6	Wet ice Blue ice Dry ice Water None
EC Client	Box Othe	IR GUN #:			Wet Ice Slue Ice Dry Ice Water None
EC Client	Box Othe	IR GUN #:			Wet ice Sive ice Dry ice Water None
EC Client	Box Othe	IR GUN #:			Wet ice Blue ice Dry ice Water None
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				☐ See Temp	erature Excursion Form

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

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Eurofins Cleveland 180 S. Van Buren Avenue Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772	Chain	n of Custody Record	ly Record			💸 eurofins Environment Testing
Client Information (Sub Contract Lab)	Sampler:		Lab PM: DelMonico, Michael	Camer Tracking No(s)	king No(s):	COC No: 240-167561.1
1	Phone:		E-Mail: Michael.DelMonico@et.eurofinsus.com	State of Origin: Michigan	in:	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,			Accreditations Required (See note):			Job #: 240-184624-1
Address: 777 New Durham Road, ,	Due Date Requested: 5/17/2023			Analysis Requested		Ö
City: Edison	TAT Requested (days):)H Acetate
State, Zip: NJ, 08817						D - Nitric Acid Q - Na2SO3 E - NaHSO4 R - Na2S2O3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:					
Email:	#OM		(on		SJ	
Project Name: Ford LTP - Off Site	Project #: 24015353		10 80		enistr	K · EDTA L · EDA
Site:	SSOW#:		SD (A		100 30	Other:
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00 MW-1045_030123 (240-184624-2) 00 00 00 00 00 00 00 00 00 00 00 00 00	5/1/23 Eastem		Water		4	
If 21						
					800	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the 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 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 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 attention immediately.	ment Testing North Central, LLC plac d above for analysis/tests/matrix bein Central, LLC attention immediately.	es the ownership of me g analyzed, the samples If all requested accredit	thod, analyte & accreditation com must be shipped back to the Eu ations are current to date, return	pliance upon our subcontract laborato rofins Environment Testing North Centhe signed Chain of Custody attesting	ories. This sample shipm tral, LLC laboratory or oth to said compliance to Eu	ent is forwarded under chain-of-custody. If the ner instructions will be provided. Any changes to rofins Environment Testing North Central, LLC.
Possible Hazard Identification			Sample Dispos	fee may be	f samples are retai	ned longer than 1 month)
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	: 5	Special Instructions/Q	Special Instructions/QC Requirements:		Archive For Months
Frank Kit Relinquished by:	. Date:		Timo.	Method	Method of Shioment:	
Religioushed by	Defectine:	Johns	٦		Detections:	7000
Relinquishe	Date/Time:			Savishe	Date/Time:	3 (O) Company
CO Relinquished by:	Date/Time:	Company			Date/Time:	Company
					7000	Company
Custody Seals Intact: Custody Seal No.: \[\triangle \t			Cooler Temper	Cooler Temperature(s) °C and Other Remarks;	12.16	

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-184624-1

List Source: Eurofins Edison
List Number: 2
List Creation: 05/05/23 12:42 PM

Creator: Armbruster, Chris

Answer	Comment
N/A	
N/A	
N/A	
True	
N/A	
	N/A N/A N/A True True True True True True True True

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DATA VERIFICATION REPORT



May 18, 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: 184624-1 Sample date: 2023-05-01

Report received by CADENA: 2023-05-18

Initial Data Verification completed by CADENA: 2023-05-18

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: 184624-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401846 5/1/202	5241)		MW-104 2401846 5/1/202	_ 5242	23	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>		75 25 4	ND	1.0	/1		NID	1.0	/1	
	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 # 240-166490-1

CADENA Verification Report: 2022-05-26

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 45723R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-166490-1 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 Collection	ollection		lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_67	240-166490-1	Water	05/10/22		Х	
MW-104S_051022	240-166490-2	Water	05/10/22		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		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 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.

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 eptable	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		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: Cuindinlund

DATE: June 13, 2022

PEER REVIEW: Andrew Korycinski

DATE: June 14, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

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

Treight Manager Refer Hindary Officers: 38590 Closed Prive, Suite 5990 Telephone: 200-833-1479 Telephone: 200-833-1479	Client Contact	Regulat	ory program			DW	7	- NI	PDFS		-	RCR/	A	-	Othe	er 🗆											
Clear Project Project Manager Kerl Hinkely Size Central: Christian Waver And Contest: Clinic Histories CCC No.	Company Name: Arcadis		. , ,													.										TestAmerica	Laboratories, Inc
Total power 3.04-574-5745		Client Project	Manager: Kris	Hins	key			Site Co	ntact:	Chr	ristins	a Wea	ver				Lab (Conta	et: Mi	ke Del	Moni	co					
Possible Hizard Infentification Possible Hizard Infentification Sampler State Possible Hizard Infentification Possible Hizard Infent	Address: 28550 Cabot Drive, Suite 500	Telephone: 269	3_837_747R			_		Telenh	one: 2	148.0	0.1_23	270	_				Tolar	nhone	. 110	166 0	793						
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Sampler Name: Ford LTP Off-Side Letter and a start of the start of th	Db 249 007 2440	Email: Kristof	fer.Hinskey@a	rcad	s.com			An	alysis	Turi	narou	nd Tir	me	T			_			Α	naly	ses				For lab use onl	у
Possible Business Event LTP Off-site LEAC add is Tary 10 day 10 vectors 10 day 10	Phone: 248-994-2240	Sampler Name						TATir	hifferent	from I	helow			1												Walk-in client	
Proble Hazard Identification Non-Hazard Identif	Project Name: Ford LTP Off-Site	Sampler Name	cadia	t	111				atterent		3 we															Walk-III Cheik	
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal By Lab Archive For Months Submit all results through Cadena at Itomalia@cadenaco.com, Cadena #E203631 Every IV Reporting requested. Relinquished by: Leanage Tay Company: Company: Company: Company: Company: Arcadis Date/Time: OS/10/22/14-42 Received by: Arcadis Solio 22/14-42 Received by: Arcadis OS/10/22/14-42 Received by: Arcadis OS/10/22/14-42 Received by: Company: Company: Company: Company: Company: Company: Company: Company: OS/10/22/14-42 Received by: Company: Company: Company: Company: OS/10/22/14-42 Received by: OS/10/22/14-42	7																										
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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-166490-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_67

Lab Sample ID: 240-166490-1 Date Collected: 05/10/22 00:00 **Matrix: Water**

Date Received: 05/12/22 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			05/20/22 13:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/20/22 13:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/20/22 13:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/20/22 13:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/20/22 13:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/20/22 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					05/20/22 13:23	1
4-Bromofluorobenzene (Surr)	86		56 - 136					05/20/22 13:23	1
Toluene-d8 (Surr)	97		78 - 122					05/20/22 13:23	1
Dibromofluoromethane (Surr)	97		73 - 120					05/20/22 13:23	

Client Sample ID: MW-104S_051022

Lab Sample ID: 240-166490-2 Date Collected: 05/10/22 13:50 **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			05/17/22 04:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 120			-		05/17/22 04:55	1
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/20/22 16:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/20/22 16:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/20/22 16:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/20/22 16:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/20/22 16:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/20/22 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		05/20/22 16:43	1
4-Bromofluorobenzene (Surr)	85		56 - 136					05/20/22 16:43	1
Toluene-d8 (Surr)	96		78 - 122					05/20/22 16:43	1
Dibromofluoromethane (Surr)	97		73 - 120					05/20/22 16:43	1