

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/31/2024 7:46:44 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-205006-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





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Job Notes

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Authorization

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

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Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	_
U	Indicates the analyte was analyzed for but not detected.	5
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	7
%R	Percent Recovery	
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	9
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"	13
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	

Glossary

nListed under the "D" column to designate that the result is reported on a dry weight basis%RPercent RecoveryCFLContains Free LiquidCFUColony Forming UnitCNFContains No Free LiquidDERDuplicate Error Ratio (normalized absolute difference)Dil FacDilution FactorDLDetection Limit (DoD/DOE)DL, RA, RE, INIndicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sampleDLCDecision Level Concentration (Radiochemistry)EDLEstimated Detection Limit (DoD/DOE)LODLimit of Detection (DoD/DOE)LOQLimit of Quantitation (DoD/DOE)	
CFLContains Free LiquidCFUColony Forming UnitCFUContains No Free LiquidCNFContains No Free LiquidDERDuplicate Error Ratio (normalized absolute difference)Dil FacDilution FactorDLDetection Limit (DoD/DOE)DL, RA, RE, INIndicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sampleDLCDecision Level Concentration (Radiochemistry)EDLEstimated Detection Limit (Dioxin)LODLimit of Detection (DoD/DOE)	
CFUColony Forming UnitCNFContains No Free LiquidDERDuplicate Error Ratio (normalized absolute difference)Dil FacDilution FactorDLDetection Limit (DoD/DOE)DL, RA, RE, INIndicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sampleDLCDecision Level Concentration (Radiochemistry)EDLEstimated Detection Limit (Dioxin)LODLimit of Detection (DoD/DOE)	
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DL, RA, RE, INIndicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sampleDLCDecision Level Concentration (Radiochemistry)EDLEstimated Detection Limit (Dioxin)LODLimit of Detection (DoD/DOE)	
DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE)	
EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE)	
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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Job Narrative 240-205006-1

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 5/22/2024 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 3.5°C and 3.7°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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Client: Arcadis U.S., Inc. Project/Site: Ford LTP

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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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-205006-1	TRIP BLANK_103	Water	05/17/24 00:00	05/22/24 08:00
240-205006-2	MW-72_051724	Water	05/17/24 10:46	05/22/24 08:00
240-205006-3	MW-72S_051724	Water	05/17/24 11:58	05/22/24 08:00

Detection Summary

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

Job ID: 240-205006-1

Client Sample ID: TRIP BLANK_103	Lab Sample ID: 240-205006-1
No Detections.	

Client Sample ID: MW-7	2_051724					Lab	Sample ID	: 240-205006-2	4
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type	5
Vinyl chloride	0.61	J	1.0	0.45	ug/L	1	8260D	Total/NA	6
Client Sample ID: MW-7	2S_051724					Lab	Sample ID	: 240-205006-3	
No Detections.									7
_									8
									9
									13

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

Client Sample ID: TRIP BLANK_103

Date Collected: 05/17/24 00:00 Date Received: 05/22/24 08:00

	le 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			05/29/24 18:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/29/24 18:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/29/24 18:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/29/24 18:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/29/24 18:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/29/24 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			-		05/29/24 18:50	1
4-Bromofluorobenzene (Surr)	92		56 - 136					05/29/24 18:50	1
Toluene-d8 (Surr)	91		78 - 122					05/29/24 18:50	1
Dibromofluoromethane (Surr)	102		73 - 120					05/29/24 18:50	1

Matrix: Water

Job ID: 240-205006-1

Lab Sample ID: 240-205006-1

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Client Sample ID: MW-72_051724

Date Collected: 05/17/24 10:46 Date Received: 05/22/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/30/24 07:17	1
Surrogate	%Recovery	Qualifier	Limits			-	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		68 - 127					05/30/24 07:17	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			05/26/24 04:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/24 04:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 04:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/24 04:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 04:46	1
Vinyl chloride	0.61	J	1.0	0.45	ug/L			05/26/24 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		05/26/24 04:46	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136					05/26/24 04:46	1
Toluene-d8 (Surr)	93		78 - 122					05/26/24 04:46	1
Dibromofluoromethane (Surr)	104		73 - 120					05/26/24 04:46	1

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Job ID: 240-205006-1

Lab Sample ID: 240-205006-2 Matrix: Water

5 6

Client Sample ID: MW-72S_051724

Date Collected: 05/17/24 11:58 Date Received: 05/22/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/30/24 02:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 127			-		05/30/24 02:35	1
Method: SW846 8260D - Volati	le 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			05/26/24 05:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/24 05:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 05:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/24 05:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 05:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/24 05:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		05/26/24 05:09	1
4-Bromofluorobenzene (Surr)	91		56 - 136					05/26/24 05:09	1
Toluene-d8 (Surr)	95		78 - 122					05/26/24 05:09	1
Dibromofluoromethane (Surr)	107		73 - 120					05/26/24 05:09	1

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Job ID: 240-205006-1

Lab Sample ID: 240-205006-3 Matrix: Water

Method: 8260D - Volatile Organic Compounds b Matrix: Water

						Prep Type: Total/NA	
				Percent Sur	rogate Recovery (Acce	otance Limits)	
		DCA	BFB	TOL	DBFM		÷
ab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
40-204762-F-4 MS	Matrix Spike	96	98	94	96		2
40-204762-F-4 MSD	Matrix Spike Duplicate	98	101	95	103		
40-205006-1	TRIP BLANK_103	100	92	91	102		
40-205006-2	MW-72_051724	108	89	93	104		
40-205006-2 MS	MW-72_MS_051724	97	102	97	95		1
40-205006-2 MSD	MW-72_MSD_051724	101	101	96	100		
40-205006-3	MW-72S_051724	108	91	95	107		
CS 240-614436/4	Lab Control Sample	101	107	102	98		
CS 240-614711/5	Lab Control Sample	97	102	100	100		
IB 240-614436/7	Method Blank	105	94	97	102		
IB 240-614711/8	Method Blank	107	94	94	104		
Surrogate Legend							
DCA = 1,2-Dichloroetha	ne-d4 (Surr)						
BFB = 4-Bromofluorober	nzene (Surr)						
TOL = Toluene-d8 (Surr)							5
DBFM = Dibromofluoron	nethane (Surr)						

Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-205006-2	MW-72_051724	90	
240-205006-2 MS	MW-72_MS_051724	91	
240-205006-2 MSD	MW-72_MSD_051724	89	
240-205006-3	MW-72S_051724	92	
LCS 240-614706/4	Lab Control Sample	88	
MB 240-614706/6	Method Blank	88	

Surrogate Legend

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

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

Matrix: Water Analysis Batch: 614436

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/24 00:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/24 00:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 00:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/24 00:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 00:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/24 00:09	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		05/26/24 00:09	1
4-Bromofluorobenzene (Surr)	94		56 - 136		05/26/24 00:09	1
Toluene-d8 (Surr)	97		78 - 122		05/26/24 00:09	1
Dibromofluoromethane (Surr)	102		73 - 120		05/26/24 00:09	1

Lab Sample ID: LCS 240-614436/4 Matrix: Water Analysis Batch: 614436

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	25.1		ug/L		100	63 - 134	
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	77 - 123	
Tetrachloroethene	25.0	23.7		ug/L		95	76 - 123	
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	75 - 124	
Trichloroethene	25.0	23.7		ug/L		95	70 - 122	
Vinyl chloride	12.5	11.6		ug/L		93	60 - 144	

	LCS LCS	
Surrogate	%Recovery Qua	lifier Limits
1,2-Dichloroethane-d4 (Surr)	101	62 - 137
4-Bromofluorobenzene (Surr)	107	56 - 136
Toluene-d8 (Surr)	102	78 - 122
Dibromofluoromethane (Surr)	98	73 - 120

102

97

Lab Sample ID: 240-205006-2 MS Matrix: Water Analysis Batch: 614436

4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	25.0	22.1		ug/L		89	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	24.2		ug/L		97	66 - 128
Tetrachloroethene	1.0	U	25.0	21.5		ug/L		86	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	21.5		ug/L		86	56 - 136
Trichloroethene	1.0	U	25.0	21.1		ug/L		84	61 - 124
Vinyl chloride	0.61	J	12.5	11.5		ug/L		87	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	97		62 - 137						

Furofins	Cleveland
Luionna	Cicvelanu

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: MW-72_MS_051724

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

56 - 136

78 - 122

5/31/2024

trans-1,2-Dichloroethene

Trichloroethene

. Valatil 00/110 0 ~ . . 10

Lab Sample ID: 240-205006-2 MS	S								Clie	ent Samp	ole ID: MW-7	2_MS_0	051724
Matrix: Water											Prep	Type: To	otal/NA
Analysis Batch: 614436													
	MS	мs											
Surrogate	%Recovery	Quali	ifier	Limits									
Dibromofluoromethane (Surr)	95			73 - 120									
Lab Sample ID: 240-205006-2 MS	SD								Clien	t Sample	e ID: MW-72		
Matrix: Water											Prep	Туре: То	otal/NA
Analysis Batch: 614436	0	0	.1.	0-11-1							0/ D		
A b	Sample			Spike		MSD		1114	-	0 / D	%Rec		RPD
Analyte	Result 1.0		tier	Added	Result	Qual	lifier	Unit			Limits	RPD	Limit
1,1-Dichloroethene				25.0	23.6			ug/L		95	56 - 135	7	26
cis-1,2-Dichloroethene	1.0			25.0	24.8			ug/L		99	66 - 128	2	14
Tetrachloroethene	1.0			25.0	21.6			ug/L		87	62 - 131	1	20
trans-1,2-Dichloroethene	1.0			25.0	22.8			ug/L		91	56 - 136	6	15
Trichloroethene	1.0			25.0	21.8			ug/L		87	61 - 124	3	15
Vinyl chloride	0.61	J		12.5	11.6			ug/L		88	43 - 157	1	24
	MSD	MSD											
Surrogate	%Recovery	Quali	ifier	Limits									
1,2-Dichloroethane-d4 (Surr)	101			62 - 137									
4-Bromofluorobenzene (Surr)	101			56 - 136									
1 ,													
Toluene-d8 (Surr)	96			78 - 122									
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8	100			78 - 122 73 - 120						Client	Sample ID: Pren		
Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711	100	мр	MB							Client		Method Type: To	
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711	100 8	MB		73 - 120		MDI	Unit		D		Prep	Туре: То	otal/NA
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte	100 8	sult	Qualifier	73 - 120 			Unit ua/l		_ D	Client Prepared	Prep Analy	Type: To	Dil Fac
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene	100 8	sult 1.0	Qualifier U	73 - 120 		0.49	ug/L		_ <u>D</u>		Prep Analy 05/29/24	Type: To zed 13:05	Dil Fac
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	100 8	sult 1.0 1.0	Qualifier U U	73 - 120 		0.49 0.46	ug/L ug/L		<u>D</u>		Analy: 05/29/24 05/29/24	zed 13:05 13:05	Dil Fac
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	100 8	sult 1.0 1.0 1.0	Qualifier U U U	73 - 120 		0.49 0.46 0.44	ug/L ug/L ug/L		<u> </u>		Analy 05/29/24 05/29/24 05/29/24	zed 13:05 13:05 13:05	Dil Fac
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene	100 8	sult 1.0 1.0 1.0 1.0	Qualifier U U U U	73 - 120 		0.49 0.46 0.44 0.51	ug/L ug/L ug/L ug/L		<u> </u>		Analy 05/29/24 05/29/24 05/29/24 05/29/24	zed 13:05 13:05 13:05 13:05	Dil Fac
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene	100 8	sult 1.0 1.0 1.0 1.0 1.0	Qualifier U U U U U U	73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		_ <u>D</u>		Analy: 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24	zed 13:05 13:05 13:05 13:05 13:05 13:05	Dil Fac 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene	100 8	sult 1.0 1.0 1.0 1.0	Qualifier U U U U U U	73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L		_ <u>D</u>		Analy 05/29/24 05/29/24 05/29/24 05/29/24	zed 13:05 13:05 13:05 13:05 13:05 13:05	Dil Fac
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene	100 8	sult 1.0 1.0 1.0 1.0 1.0 1.0 MB	Qualifier U U U U U U U U MB	73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		<u>D</u>		Analy: 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24	zed 13:05 13:05 13:05 13:05 13:05 13:05	Dil Fac 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate	100 8	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB very	Qualifier U U U U U U U U	73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		<u> </u>		Analy: 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24	zed 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05	Dil Fac 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr)	100 8 Re	esult 1.0 1.0 1.0 1.0 1.0 1.0 1.0 MB Very 107	Qualifier U U U U U U U U MB	73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		<u> </u>	Prepared	Analy: 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24	Zed 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05	Dil Fac 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	100 8 Re	 sult 1.0 94 	Qualifier U U U U U U U U MB	73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		_ <u>D</u>	Prepared	Analy 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24	Zed 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05	Dil Fac 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene trans-1,2-Dichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	100 8 Re	sult 1.0 1.0 1.0 1.0 1.0 1.0 MB very 107 94 94	Qualifier U U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		_ <u>D</u>	Prepared	Analy 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24	Zed 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene trans-1,2-Dichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	100 8 Re	 sult 1.0 94 	Qualifier U U U U U U U U MB	73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		<u> </u>	Prepared	Analy 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24	Zed 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05	Dil Fac 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene trans-1,2-Dichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr)	100 8 %Recov	sult 1.0 1.0 1.0 1.0 1.0 1.0 MB very 107 94 94	Qualifier U U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L			Prepared	Analy 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24 05/29/24	Zed 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	100 8 %Recov	sult 1.0 1.0 1.0 1.0 1.0 1.0 MB very 107 94 94	Qualifier U U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L			Prepared	Analy 05/29/24	zed 13:05 000000000000000000000000000000000000	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-614711	100 8 %Recov	sult 1.0 1.0 1.0 1.0 1.0 1.0 MB very 107 94 94	Qualifier U U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L			Prepared	Analy 05/29/24	Zed 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-6147110 Matrix: Water	100 8 %Recov	sult 1.0 1.0 1.0 1.0 1.0 1.0 MB very 107 94 94	Qualifier U U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L			Prepared	Analy 05/29/24	zed 13:05 000000000000000000000000000000000000	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-614711/ Matrix: Water Analysis Batch: 614711 Analyte	100 8 %Recov	sult 1.0 1.0 1.0 1.0 1.0 1.0 MB very 107 94 94	Qualifier U U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	LCS Result	0.49 0.46 0.44 0.51 0.44 0.45	ug/L ug/L ug/L ug/L ug/L	Unit		Prepared Prepared nt Samp	Analy 05/29/24 0	zed 13:05 000000000000000000000000000000000000	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-6147110 Matrix: Water	100 8 %Recov	sult 1.0 1.0 1.0 1.0 1.0 1.0 MB very 107 94 94	Qualifier U U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	LCS	0.49 0.46 0.44 0.51 0.44 0.45	ug/L ug/L ug/L ug/L ug/L	Unit ug/L	Clie	Prepared Prepared	Analy: 05/29/24	zed 13:05 000000000000000000000000000000000000	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-614711/8 Matrix: Water Analysis Batch: 614711 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-614711/ Matrix: Water Analysis Batch: 614711 Analyte	100 8 %Recov	sult 1.0 1.0 1.0 1.0 1.0 1.0 MB very 107 94 94	Qualifier U U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	LCS Result	0.49 0.46 0.44 0.51 0.44 0.45	ug/L ug/L ug/L ug/L ug/L		Clie	Prepared Prepared nt Samp	Analy 05/29/24 0	zed 13:05 000000000000000000000000000000000000	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1

23.8

24.2

ug/L

ug/L

95

97

75 - 124

70 - 122

25.0

25.0

10

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

Lab Sample ID: LCS 240-614711/5 **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Analysis Batch: 614711 Spike LCS LCS %Rec Analyte Added **Result Qualifier** Unit %Rec Limits D Vinyl chloride 12.5 11.7 93 60 - 144 ug/L LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 97 62 - 137 56 - 136 4-Bromofluorobenzene (Surr) 102 Toluene-d8 (Surr) 78 - 122 100 Dibromofluoromethane (Surr) 73 - 120 100

Lab Sample ID: 240-204762-F-4 MS Matrix: Water

Analysis Batch: 614711

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	100	U	2500	2280		ug/L		91	56 - 135
cis-1,2-Dichloroethene	94	J	2500	2550		ug/L		98	66 - 128
Tetrachloroethene	100	U	2500	2300		ug/L		92	62 - 131
trans-1,2-Dichloroethene	190		2500	2370		ug/L		87	56 - 136
Trichloroethene	2800		2500	4720		ug/L		76	61 - 124
Vinyl chloride	100	U	1250	1100		ug/L		88	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-204762-F-4 MSD Matrix: Water

Analysis Batch: 614711 MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 100 U 2500 2310 ug/L 92 56 - 135 26 1 2500 cis-1,2-Dichloroethene 94 J 2560 ug/L 99 66 - 128 0 14 Tetrachloroethene 100 U 2500 62 - 131 2310 ug/L 92 0 20 trans-1.2-Dichloroethene 2500 2380 87 190 ug/L 56 - 136 0 15 Trichloroethene 2800 2500 4810 ug/L 79 61 - 124 2 15 Vinyl chloride 1250 1120 90 43 - 157 2 100 U ug/L 24 MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

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

10

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

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

Analysis Batch: 614706 MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 1.4-Dioxane 2.0 U 2.0 0.86 ugl. D Prepared Analyzed 1.4-Dioxane 2.0 U 2.0 0.86 ugl. D Prepared Analyzed 1.2-Dictificretefame-d4 (Surr) 88 68.127 Client Sample ID: Lab Control 1 D 05/29/24 23.04 Lab Sample ID: LCS 240-614706/4 ELS LCS Client Sample ID: Lab Control 1 Prepared Analyzed 1.4-Dioxane Added Result Qualifier Unit D %Rec 1.4-Dioxane LCS LCS Surrogate Keccovery Qualifier Unit D %Rec Surrogate Kecovery Qualifier Limits Prepared Kec 1.2-Dichloroethane-d4 (Surr) 88 68 - 127 Client Sample ID: MW-72_MS Prep Type: T Analyte Result Qualifier Limits	D: Method Blar		Sherr O										Lab Sample ID: MB 240-6147
MB MB Result Qualifier RL MDL Unit D Prepared Analyzed 1.4-Dioxane 2.0 U 2.0 0.86 ug/L D Prepared Analyzed 1.4-Dioxane 2.0 Qualifier Limits 0.86 ug/L D Prepared Analyzed 1.2-Dichloroethane-d4 (Surr) 88 68.127 Client Sample ID: LCS 240-614706/4 Client Sample ID: Lab Control 1 Matrix: Water Analysis Added Result Qualifier Unit D %Rec Analysis Batch: 614706 Spike LCS LCS LCS Spike LCS LS Spike LCS LS Spike MS MS YRec Limits 75.121 Spike MS MS YRec Limits 75.121 Spike MS MS YRec Limits YRec YRec Limits YRec YRec Limits YRec YRec YRec Limits YRec YRec <t< th=""><th>p Type: Total/N</th><th>Prep</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Matrix: Water</th></t<>	p Type: Total/N	Prep											Matrix: Water
AnalyteResultQualifierRLMDLUnitDPreparedAnalyzed14-Dioxane2.0U2.00.86ug/LDMBMBSurrogate%RecoveryQualifierLimitsPreparedAnalyzed05/29/24 23:041.2-Dichloroethane-d4 (Surr)8868.127Client Sample ID: LCS 240-614706/4Matrix: WaterSpikeLCSLCSLCSVRecWRecAnalyseAddedResultQualifierUnitD%Rec%Rec1.4-Dioxane10.09.87UnitD%RecUnitsPrepared1.2-Dichloroethane-d4 (Surr)8868.127Client Sample ID: Lab Control 1Prepared%RecSurrogateKRecoveryQualifierLimitsQualifierUnitD%Rec1.2-Dichloroethane-d4 (Surr)8868.127Client Sample ID: MW-72_MS_ Prep Type: TPrep Type: TAnalysis Batch: 614706SampleSampleSpikeMSMS%RecMatrix: WaterResultQualifierLimits 68.127LimitsD%Rec1.4-Dioxane2.0010.010.6UnitD%RecPrep Type: TAnalyteResultQualifierLimits 68.127Prep Type: TPrep Type: TPrep Type: TLab Sample ID: 240-205006-2 MSD 1.2-Dichloroethane-d4 (Surr)%MSMSMSDMSDPrep Type: TLab Sample ID: 240-205006-2 MSD Matrix: WaterMSMS <th></th> <th>Analysis Batch: 614706</th>													Analysis Batch: 614706
M.4.Dioxane 2.0 U 2.0 0.86 ug/L 05/29/24 23:04 MB MB MB MB MB MB Constraints Prepared Analyzed 1.2-DickNorechane-d4 (Surr) 88 68 - 127 Client Sample ID: LCS 240-614706/4 Analyzed O5/29/24 23:04 Lab Sample ID: LCS 240-614706/4 Sample Sample ID: LCS 240-614706/4 Client Sample ID: Lab Control 1 Prep Type: T Analysis Batch: 614706 Added Result Qualifier Unit D %Rec Value Analysis Batch: 614706 XiRecovery Qualifier Limits Client Sample ID: MW-72_MS Prep Type: T Surrogate XiRecovery Qualifier Limits E Prep Type: T Analysis Batch: 614706 Sample Sample Spike MS MS MS Analysis Batch: 614706 Result Qualifier Added Result Qualifier MS MS J.2-DickNorechane-d4 (Surr) 91 97 91 10.0 10.0 0.0 0.0													
MB MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed 1.2-Dichloroethane-d4 (Surr) 88 68 - 127 Client Sample ID: LCS 240-614706/4 Client Sample ID: Lab Control I Matrix: Water Analyte Added Result Qualifier Unit D %Rec Analyte Added Result Qualifier Unit D %Rec %Rec 14-Dioxane //4-Dioxane %Recovery Qualifier Limits 12-Dichloroethane-d4 (Surr) 88 68 - 127 Client Sample ID: MW-72_MS_			repared	D Pi								R	-
Surrogate %Recovery Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 88 68.127 Client Sample ID: LCS 240-614706/4 Client Sample ID: Lab Control 1 Matrix: Water Analysis Batch: 614706 Spike LCS LCS </td <td>/24 23:04</td> <td>05/29/24</td> <td></td> <td></td> <td></td> <td>ug/L</td> <td>0.86</td> <td></td> <td>2.0</td> <td>U</td> <td>2.0</td> <td></td> <td>1,4-Dioxane</td>	/24 23:04	05/29/24				ug/L	0.86		2.0	U	2.0		1,4-Dioxane
1.2-Dichloroethane-d4 (Surr) 88 68.127 05/29/24 23:04 Lab Sample ID: LCS 240-614706/4 Matrix: Water Analysis Batch: 614706 Client Sample ID: Lab Control 4 Prep Type: T Analyte Added Result Qualifier Unit D %Rec Limits 1.4-Dioxane LCS										МВ	ΜВ		
1.2-Dichloroethane-d4 (Surr) 88 68.127 05/28/24 23.04 Lab Sample ID: LCS 240-614706/4 Matrix: Water Analysis Batch: 614706 Client Sample ID: Lab Control 4 Prop Type: T Analyte Added Result Qualifier Unit D %Rec Limits 1.4-Dioxane 10.0 9.87 Unit D %Rec Limits 1.2-Dichloroethane-d4 (Surr) %Recovery Qualifier Limits Client Sample ID: MW-72_MS_Prop Type: T Analyte Keeut Qualifier Limits Client Sample ID: MW-72_MS_Prop Type: T Analyte Result Qualifier Added Result Qualifier Unit D %Rec MW-72_MS_Prop Type: T Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1.4-Dioxane %Recovery Qualifier Limits Client Sample ID: MW-72_MSD Prop Type: T Surrogate %Recovery Qualifier Limits Client Sample ID: MW-72_MSD Prop Type: T 1.4-Dioxane %Recovery Qualifier Limits KSB NS MSD	alyzed Dil Fa	Analyz	repared	Pi					Limits	Qualifier	very	%Reco	Surrogate
Matrix: Water Prep Type: T Analysis Batch: 614706 Spike LCS LCS LCS Marc 1.4-Dioxane 10.0 9.87 ug/L 99 75.121 LCS LCS Surrogate %Recovery Qualifier Limits 100 99 75.121 LCS LCS Surrogate %Recovery Qualifier Limits 100 100 99 75.121 Lab Sample ID: 240-205006-2 MS Matrix: Water Result Qualifier Added Result Qualifier NWV-72_MS_ Analyte Result Qualifier Added Result Qualifier Unit D %Rec Analyte Result Qualifier Limits 100 10.0 </td <td>/24 23:04</td> <td>05/29/24</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>68 - 127</td> <td></td> <td>88</td> <td></td> <td>1,2-Dichloroethane-d4 (Surr)</td>	/24 23:04	05/29/24							68 - 127		88		1,2-Dichloroethane-d4 (Surr)
Matrix: Water Prep Type: T Analysis Batch: 614706 Spike LCS LCS LCS Marc 1.4-Dioxane 10.0 9.87 ug/L 0 %Rec Limits 1.4-Dioxane Marc LCS	Control Samp	UD: Lah C	Sample	Client								06/4	l ah Sample ID: I CS 240-6147
Analysis Batch: 614706 Spike LCS LCS LCS LCS LCS LCS Limits MRec 1.4-Dioxane LCS LCS LCS Unit D %Rec Limits			Sample	Cheff									-
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Surrogate %Recovery Qualifier Limits									Limits				Surrogate

1,2-Dichloroethane-d4 (Surr) 68 - 127 89

Job ID: 240-205006-1

8260D

Water

GC/MS VOA

240-204762-F-4 MSD

Matrix Spike Duplicate

Analysis Batch: 614436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
40-205006-2	MW-72_051724	Total/NA	Water	8260D	
40-205006-3	MW-72S_051724	Total/NA	Water	8260D	
IB 240-614436/7	Method Blank	Total/NA	Water	8260D	
CS 240-614436/4	Lab Control Sample	Total/NA	Water	8260D	
40-205006-2 MS	MW-72_MS_051724	Total/NA	Water	8260D	
40-205006-2 MSD	MW-72_MSD_051724	Total/NA	Water	8260D	
alysis Batch: 61470	6				
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
40-205006-2	MW-72_051724	Total/NA	Water	8260D SIM	
40-205006-3	MW-72S_051724	Total/NA	Water	8260D SIM	
B 240-614706/6	Method Blank	Total/NA	Water	8260D SIM	
CS 240-614706/4	Lab Control Sample	Total/NA	Water	8260D SIM	
0-205006-2 MS	MW-72_MS_051724	Total/NA	Water	8260D SIM	
0-205006-2 MSD	MW-72_MSD_051724	Total/NA	Water	8260D SIM	
alysis Batch: 61471	1				
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
40-205006-1	TRIP BLANK_103	Total/NA	Water	8260D	
B 240-614711/8	Method Blank	Total/NA	Water	8260D	
CS 240-614711/5	Lab Control Sample	Total/NA	Water	8260D	
40-204762-F-4 MS	Matrix Spike	Total/NA	Water	8260D	

Total/NA

Client: Arcadis I Project/Site: Fo	,							Job	ID: 240-205006-1
Client Samp								Lab Sample ID	: 240-205006-1 Matrix: Water
Date Received:		-							
	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	614711	SAM	EET CLE	05/29/24 18:50	
Client Samp	le ID: MW-72	2_051724						Lab Sample ID	: 240-205006-2
Date Collected	: 05/17/24 10:4	6							Matrix: Water
Date Received:	05/22/24 08:0	D							
	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	614436	SAM	EET CLE	05/26/24 04:46	
Total/NA	Analysis	8260D SIM		1	614706	MDH	EET CLE	05/30/24 07:17	
Client Samp	le ID: MW-72	2S_051724						Lab Sample ID	: 240-205006-3
Date Collected	: 05/17/24 11:5	8							Matrix: Water
Date Received:	05/22/24 08:0	D							
	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	614436	SAM	EET CLE	05/26/24 05:09	
Total/NA	Analysis	8260D SIM		1	614706	MDH	EET CLE	05/30/24 02:35	

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

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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
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
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

Eurofins Cleveland



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

Client Contact Company Name: Arcadis	Regula	tory program:	:	٢	DW	,	٢	NPD	ES		⊢ R	CRA	٢	- Oth	er											TestAmerica Laboratorics, Inc
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinsl	key			Site	Con	act: (Chri	istina V	Veaver				Lab	Conta	ct: Mi	ke De	Monic	:0					COC No:
	Telephone: 248	-994-2240					Tele	phor	ie: 24	8-99	94-2240			_		Telep	ohone	330-4	97-93	96						<u> </u>
City/State/Zip: Novi, MI, 48377	Emails Index (Anal	veie T		around	Time								nalys						1 of 1 COCs
Phone: 248-994-2240	Email: Kristofi	er.hinskey@ar	cadis.	.com				Alida	y313 1	urb	around	Tune		1	<u> </u>	<u> </u>	-	1		l l l l l l l l l l l l l l l l l l l	l	T	r		<u> </u>	For lab use only
Project Name: Ford LTP	Sampler Name	XW	12	mb	e ls	6.					elow 3 week 2 week		7												Walk-in client	
Project Number: 30206169.0401.03		Method of Shipment/Carrier:											1		W				Lab sampling							
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Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid	Other:	H2SO4	HN03	HCI	HOFN	ZaAd NaOH	Other:	Kiltered Samula (V / M)	Composite=0	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:
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Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco. .evel IV Reporting requested.				_	1	Ro	N				Current			D	, 200											
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19 SAMPLE CONDITION Sample(s) were received after the recommended holding time had expired. Sample(s) were received after the recommended holding time had expired. Sample(s) were received with bubble >6 mm in diameter (Notify PM) 20 SAMPLE PRESERVATION were further preserved in the laboratory Sample(s) Preserved. Preserved. Preservative(s) added/Lot number(s) VOA Sample Preservation Date/Time VOAs Frozen

WT NO 100-141774 Cooler Receipt Form

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	tiple Cooler Form	Sample Receipt Mu	Eurofins & Cleveland Sample Receipt Multiple Cooler Form	onthings the state			

Login #

DATA VERIFICATION REPORT



May 31, 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: 205006-1 Sample date: 2024-05-17 Report received by CADENA: 2024-05-31 Initial Data Verification completed by CADENA: 2024-05-31 Number of Samples:3 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, MS/MSD Recovery, MS/MSD 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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 205006-1

		Sample Name:	TRIP BLA		3			_051724			MW-728	-	4	
		Lab Sample ID:	2402050	0061			240205	0062			240205	0063		
		Sample Date:	5/17/20	24			5/17/20	24			5/17/20	24		
				Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
<u>OSW-8260</u>	<u>)D</u>													
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		0.61	1.0	ug/l	J	ND	1.0	ug/l	
<u>OSW-8260</u>	DSIM													
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-205006-1 CADENA Verification Report: 2024-05-31

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54332R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-205006-1 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	ample ID Lab ID Matrix		Sample	Parent Sample	Ana	ysis
Sample ID		Matrix	Collection Date		VOC	VOC SIM
TRIP BLANK_103	240-205006-1	Water	05/17/2024		Х	
MW-72_051724	240-205006-2	Water	05/17/2024		Х	Х
MW-72S_051724	240-205006-3	Water	05/17/2024		Х	Х

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	orted		mance otable	Not Required
		No	Yes	No	Yes	Required
1.	Sample receipt condition		Х		Х	
2.	Requested analyses and sample results		Х		Х	
3.	Master tracking list		Х		Х	
4.	Methods of analysis		Х		X	
5.	Reporting limits		Х		Х	
6.	Sample collection date		Х		Х	
7.	Laboratory sample received date		Х		X	
8.	Sample preservation verification (as applicable)		Х		Х	
9.	Sample preparation/extraction/analysis dates		Х		Х	
10.	Fully executed Chain-of-Custody (COC) form		Х		Х	
11.	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 HCI

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.

DATA REVIEW

6. Compound Identification

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

All identified compounds met the specified criteria.

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 REVIEW

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		1			1	
System performance and column resolution		Х		Х		
Initial calibration %RSDs		Х		Х		
Continuing calibration RRFs		Х		Х		
Continuing calibration %Ds		Х		Х		
Instrument tune and performance check		Х		Х		
Ion abundance criteria for each instrument used		Х		Х		
Field Duplicate RPD	Х				Х	
Internal standard		Х		Х		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		Х		Х		
B. Quantitation Reports		Х		Х		
C. RT of sample compounds within the established RT windows		Х		Х		
D. Transcription/calculation errors present		Х		Х		
E. Reporting limits adjusted to reflect sample dilutions		Х		Х		

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY:	Bindu Sree M B
SIGNATURE:	BASK_MB
DATE:	June 27, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 30, 2024

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

Client Contact	Regular	tory program:	:	∏ DW			PDES	1	F R	CRA	٢	Othe	r								
Company Name: Arcadis	Client Project	ent Project Manager: Kris Hinskey Site			Site Co	ontact:	Christ	tina V	Veaver			Ī	Lab C	ontact	Mike	DelMor	ico			estAmerica Laboratories, Inc. OC No:	
ddress: 28550 Cabot Drive, Suite 500																					
City/State/Zip: Novi, MI, 48377	Telephone: 248	3-994-2240				Teleph	Telephone: 248-994-2240 T				Telephone: 330-497-9396				1 of 1 COCs						
	Email: kristoff	ler.hinskey@ar	cadis.com	1		Ar	alysis	Turna	round	Time		Π		Analyses				yses	F	For lab use only	
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Sample Identification	Sample Date	Sample Time	<u> </u>	N N	0	= =		Z S	i z i i	0	-	0	-	ö	F	ă _	¥ 5	-		_	
TRIP BLANK_ 103		-	1				1				N	G	X	x	X	x []	x x				1 Trìp Blank
nw - 72 - 051724	051724	10:46	6				6				N	G	x	×	x	K,	xa	x			3 VOAs for 8260D 3 VOAs for 8260D SIM
MW-72-MS-051724	057724	10:46	6				6				N	6	×	x	x	x,		×			1 Run MS/MSD
MW-72-MSD-051724	OST724	10:46	6				6					0	x	2	×	x	XA	x			Run MS/MSC
MW-725-051724		11:58	6				6		1		N	6	×	x	x	XI		X			
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Client Sample ID: TRIP BLANK_103

Date Collected: 05/17/24 00:00

Date Received: 05/22/24 08:00

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			05/29/24 18:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/29/24 18:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/29/24 18:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/29/24 18:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/29/24 18:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/29/24 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			-		05/29/24 18:50	1
4-Bromofluorobenzene (Surr)	92		56 - 136					05/29/24 18:50	1
Toluene-d8 (Surr)	91		78 - 122					05/29/24 18:50	1
Dibromofluoromethane (Surr)	102		73 - 120					05/29/24 18:50	1

Client Sample ID: MW-72_051724

Date Collected: 05/17/24 10:46

Date Received: 05/22/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/30/24 07:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		68 - 127			-		05/30/24 07:17	1
Method: SW846 8260D - Volat Analyte	• •	OUND DUND DUND DUND DUND DUND DUND DUND	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.1-Dichloroethene	<u></u>		1.0				Flepaleu	05/26/24 04:46	
cis-1,2-Dichloroethene	1.0		1.0		ug/L			05/26/24 04:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 04:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/24 04:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 04:46	1
Vinyl chloride	0.61	J	1.0	0.45	ug/L			05/26/24 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
						-			

canoguto	,,	quantities			 /	2
1,2-Dichloroethane-d4 (Surr)	108		62 - 137	-	05/26/24 04:46	1
4-Bromofluorobenzene (Surr)	89		56 - 136		05/26/24 04:46	1
Toluene-d8 (Surr)	93		78 - 122		05/26/24 04:46	1
Dibromofluoromethane (Surr)	104		73 - 120		05/26/24 04:46	1

Client Sample ID: MW-72S_051724

Date Collected: 05/17/24 11:58

Date Received: 05/22/24 08:00

Method: SW846 8260D S	IM - Volatile 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			05/30/24 02:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 127			-		05/30/24 02:35	1

Matrix: Water

Lab Sample ID: 240-205006-1 Matrix: Water

Lab Sample ID: 240-205006-2

Lab Sample ID: 240-205006-3

ofins	Cleveland	

Matrix: Water

Client Sample ID: MW-72S_051724

Date Collected: 05/17/24 11:58

Date Received: 05/22/24 08:00

Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/24 05:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/24 05:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 05:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/24 05:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 05:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/24 05:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137					05/26/24 05:09	1
4-Bromofluorobenzene (Surr)	91		56 - 136					05/26/24 05:09	1
Toluene-d8 (Surr)	95		78 - 122					05/26/24 05:09	1
Dibromofluoromethane (Surr)	107		73 - 120					05/26/24 05:09	1

Matrix: Water

Lab Sample ID: 240-205006-3