

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 2/27/2025 7:15:04 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219186-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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

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

Authorization

Mouro

Generated 2/27/2025 7:15:04 AM

1

5 6 7

> 12 13

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)966-9783

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	17
Certification Summary	18
Chain of Custody	19

Client: Arcadis US Inc. Project/Site: Ford LTP

Qualifiers

Quaimers		3
GC/MS VOA		
Qualifier	Qualifier Description	
E	Result exceeded calibration range.	
F1	MS and/or MSD recovery exceeds control limits.	5
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¢.	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	0
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	9
DER	Duplicate Error Ratio (normalized absolute difference)	4.0

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)

NEGNegative / AbsentPOSPositive / 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

Job ID: 240-219186-1

Eurofins Cleveland

Job Narrative 240-219186-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 2/20/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

GC/MS VOA

Method 8260D: No MS/MSD reported with batch due to potential carry over

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 240-645935 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client: Arcadis US Inc. Project/Site: Ford LTP

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 US Inc. Project/Site: Ford LTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219186-1	TRIP BLANK_32	Water	02/18/25 00:00	02/20/25 08:00
240-219186-2	MW-94S_021825	Water	02/18/25 14:38	02/20/25 08:00

Detection	Summary
-----------	---------

Job ID: 240-219186-1

Lab Sample ID: 240-219186-1

Lab Sample ID: 240-219186-2

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_32

No Detections.

Client Sample ID: MW-94S_021825

No Detections.

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_32

Date Collected: 02/18/25 00:00 Date Received: 02/20/25 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			02/22/25 16:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/22/25 16:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 16:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/22/25 16:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 16:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/22/25 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	131		62 - 137					02/22/25 16:14	1
4-Bromofluorobenzene (Surr)	73		56 - 136					02/22/25 16:14	1
Toluene-d8 (Surr)	89		78 - 122					02/22/25 16:14	1
Dibromofluoromethane (Surr)	118		73 - 120					02/22/25 16:14	1

Job ID: 240-219186-1

Matrix: Water

Lab Sample ID: 240-219186-1

1 2 3 4 5 6 7 8 9 10 11

Eurofins Cleveland

Client Sample ID: MW-94S_021825

Date Collected: 02/18/25 14:38 Date Received: 02/20/25 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			02/24/25 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		02/24/25 14:54	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			02/25/25 14:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 14:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 14:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 14:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 14:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		62 - 137			-		02/25/25 14:30	1
4-Bromofluorobenzene (Surr)	76		56 - 136					02/25/25 14:30	1
Toluene-d8 (Surr)	89		78 - 122					02/25/25 14:30	1
Dibromofluoromethane (Surr)	120		73 - 120					02/25/25 14:30	1

2/27/2025

Job ID: 240-219186-1

Lab Sample ID: 240-219186-2 Matrix: Water

Lab Sample ID

240-219186-1

240-219186-2

240-219215-D-3 MS

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

Client Sample ID

TRIP BLANK_32

MW-94S_021825

Matrix Spike

Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) BFB TOL DBFM 5 (62-137) (56-136) (78-122) (73-120) 73 89 118 76 89 120 88 89 102 93 97 98 9 ype: Total/NA

				Percent Su	rogate Recover	y (Acceptance	Limits)
latrix: Water							Prep Ty
lethod: 8260D SIN	I - Volatile Organic Com	oounds (GC/	MS)				
DBFM = Dibromofluoror	methane (Surr)						
TOL = Toluene-d8 (Surr)						
BFB = 4-Bromofluorobe	nzene (Surr)						
DCA = 1,2-Dichloroetha	ne-d4 (Surr)						
Surrogate Legend							
MB 240-645935/12	Method Blank	124	77	95	113		
MB 240-645741/12	Method Blank	118	80	94	109		
LCS 240-645935/6	Lab Control Sample	101	98	103	98		
LCS 240-645741/6	Lab Control Sample	103	99	106	99		
240-219215-D-3 MSD	Matrix Spike Duplicate	104	93	97	98		

DCA

131

130

115

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-219186-2	MW-94S_021825	106	
240-219191-B-4 MS	Matrix Spike	101	
240-219191-B-4 MSD	Matrix Spike Duplicate	99	
LCS 240-645836/4	Lab Control Sample	99	
MB 240-645836/6	Method Blank	99	
Surrogate Legend			

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

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

Lab Sample ID: MB 240-645741/12

Matrix: Water Analysis Batch: 645741

	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			02/22/25 12:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/22/25 12:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 12:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/22/25 12:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 12:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/22/25 12:20	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137		02/22/25 12:20	1
4-Bromofluorobenzene (Surr)	80		56 - 136		02/22/25 12:20	1
Toluene-d8 (Surr)	94		78 - 122		02/22/25 12:20	1
Dibromofluoromethane (Surr)	109		73 - 120		02/22/25 12:20	1

Lab Sample ID: LCS 240-645741/6 Matrix: Water Analysis Batch: 645741

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	24.6		ug/L		98	63 - 134	
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	77 - 123	
Tetrachloroethene	25.0	26.5		ug/L		106	76 - 123	
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	75 - 124	
Trichloroethene	25.0	22.9		ug/L		92	70 - 122	
Vinyl chloride	25.0	23.2		ug/L		93	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: MB 240-645935/12 Matrix: Water

Analysis Batch: 645935

	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			02/25/25 12:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 12:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 12:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 12:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 12:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 12:10	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		62 - 137			-		02/25/25 12:10	1
4-Bromofluorobenzene (Surr)	77		56 - 136					02/25/25 12:10	1
Toluene-d8 (Surr)	95		78 - 122					02/25/25 12:10	1

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

02/22/23 12.20	1
Client Sample ID: Lab Control S	ample
Prep Type: To	otal/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

10

Eurofins Cleveland

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

98

Matrix: Water

Lab Sample ID: MB 240-645935/12

Job ID: 240-219186-1

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

Analysis Batch: 645935 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Dibromofluoromethane (Surr) 113 73 - 120 02/25/25 12:10 1 Lab Sample ID: LCS 240-645935/6 **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Analysis Batch: 645935 Spike LCS LCS %Rec Analyte Added **Result Qualifier** Unit D %Rec Limits 1,1-Dichloroethene 25.0 22.4 ug/L 90 63 - 134 cis-1,2-Dichloroethene 25.0 23.8 95 77 - 123 ug/L Tetrachloroethene 25.0 26.8 ug/L 107 76 - 123 trans-1,2-Dichloroethene 75 - 124 25.0 24.5 ug/L 98 Trichloroethene 25.0 22.7 ug/L 91 70 - 122 Vinyl chloride 25.0 26.2 ug/L 105 60 - 144 LCS LCS %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 101 62 - 137 4-Bromofluorobenzene (Surr) 98 56 - 136 Toluene-d8 (Surr) 103 78 - 122

Lab Sample ID: 240-219215-D-3 MS Matrix: Water Analysis Batch: 645935

Dibromofluoromethane (Surr)

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	25	U	625	536		ug/L		86	56 - 135
cis-1,2-Dichloroethene	25	U	625	619		ug/L		99	66 - 128
Tetrachloroethene	25	U	625	539		ug/L		86	62 - 131
trans-1,2-Dichloroethene	25	U	625	553		ug/L		89	56 - 136
Trichloroethene	25	U	625	623		ug/L		100	61 - 124
Vinyl chloride	1500	F1	625	1910	Е	ug/L		57	43 - 157

73 - 120

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			62 - 137
4-Bromofluorobenzene (Surr)	88		56 - 136
Toluene-d8 (Surr)	89		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: 240-219215-D-3 MSD Matrix: Water Analysis Batch: 645935

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	25	U	625	516		ug/L		82	56 - 135	4	26
cis-1,2-Dichloroethene	25	U	625	591		ug/L		95	66 - 128	5	14
Tetrachloroethene	25	U	625	569		ug/L		91	62 - 131	5	20
trans-1,2-Dichloroethene	25	U	625	566		ug/L		91	56 - 136	2	15
Trichloroethene	25	U	625	564		ug/L		90	61 _ 124	10	15

Eurofins Cleveland

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

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

10

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

Analysis Batch: 645935 Analysis Batch: 645935 Sample Sample Spike MSD MSD With D With Chamber Analysis Result Qualifier Added Result Qualifier Unit D With Chamber	Lab Sample ID: 240-219215- Matrix: Water	D-3 MSD						Clie	nt Sa	ample IE): Matrix Spi Prep Ty		
Sample Sample Sample MSD Wrec Main P MRec Analyse Result Qualifier 1000 F1 625 1050 E F1 ugit 17 43.157 14 MSD MSD MSD MSD MSD MSD 14 17 43.157 14 MSD MSD MSD MSD MSD 14 17 43.157 14 MSD MSD MSD MSD MSD 16 14 16 14 16 16 14 16	Analysis Batch: 645935												
Analyse Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Vinyl chlonde MSD		Sample	Sample	Spike	MSD	MSD					%Rec		RP
Viny chloride 1500 FI 625 1650 E FI ugit 17 43. 157 14 MSD	Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Surrogate %Recovery Qualifier Limits 1,2-Dechnorentame (Surr) 93 66. 136 Toluen-ed (Surr) 93 73. 120 Diaromoluzonametane (Surr) 98 73. 120 Analyte Result Qualifier Rt. MDL Unit D Prepared Analyzed D Analyte Result Qualifier Rt. MDL Unit D Prepared Analyzed D 1,2-Dichoroethane-44 (Surr) 99 68. 127 20. 0.86 UgL 90 75. 121 Lab Sample ID: LCS 240-645836/4 Kreecvery Qualifier Limits Prepared Analyzed D Analyte Added Result Qualifier Limits Qualifier Virkec 1,2-Dichoroethane-44 (Surr) 99 68. 127 20. 0.86 UgL 90 75. 121 Lab Sample ID: 240-219191-B-4 MS LCS LCS LCS LCS LCS Spike MS MS <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th>2</th>									-				2
Surrogate 5/Recovery Qualifier Limits 1,2-Dehknosethane-d4 (Surr) 104 62,137 1,2-Dehknosethane(Surr) 93 66,136 Toluen-24 (Surr) 97 78,122 Dibromdiuromethane (Surr) 98 73,120 Dibromdiuromethane (Surr) 98 73,120 Lab Sample ID: MB 240-645836/6 Cilent Sample ID: Method E Matrix: Water Prep Type: Tot Analysis Batch: 645836 MB MB Surrogate WB MB Surrogate %Recovery Qualifier 1,2-Dehknosethane-d4 (Surr) 99 02/24/25 12:56 02/24/25 12:56 1,2-Dehknosethane-d4 (Surr) 99 040 100 99 66,127 02/24/25 12:56 02/24/25 12:56 02/24/25 12:56 02/24/25 12:56 01 2.0 0.86 Surrogate %Recovery Qualifier 1,2-Dehknosethane-d4 (Surr) 99 66,127 02/24/25 12:56 Cilent Sample ID: Lab Control Sa Surrogate 5/Recovery 1,2-Dehknosethane-d4 (Surr) 99 68,127 100 Lab Sample ID: 240-219191-B-4 MS Surrogate 5/Recovery 1,2-Dehknosethan		MCD	MOD										
12-Debtoresthane-d4 (Surr) 104 62.137 45comodiuozobenzene (Surr) 93 56.136 Dibromofiluozomethane (Surr) 97 78.122 Dibromofiluozomethane (Surr) 98 73.120 Lab Sample ID: MB 240-645836/6 Matrix: Water Analysis Batch: 645836 Client Sample ID: Method E Prep Type: Tot Analysis Batch: 645836 Analyse Result Qualifier R. MDL Unit D Prepared Analyzed D 1.4-Dioxane 2.0 0 2.0 0.85 ug/L Prepared Analyzed D 1.4-Dioxane 2.0 0 0.85 ug/L Prepared Analyzed D 1.2-Debtoroethane-44 (Surr) %Recovery Qualifier Limits Prep Type: Tot Analysis Batch: 645836 Spike LGS LGS Client Sample ID: Lab Control Sa Surrogate LCS LGS Spike LGS LGS ViRec Limits 12-Debtorethane-44 (Surr) 99 68.127 D %Rec Trist 12-Debtorethane-44 (Surr) %Recovery Qualifier Limits D %Rec Trist 12-Debtorethane-44 (Surr) 12-Debtorethane-44 (Surr)	Surrogato			Limite									
4-Bronzoluzzohanzene (Surr) 93 55. 136 Toluen-ed (Surr) 97 78. 122 Dizonanduczonemethane (Surr) 98 73. 120 Tethod: 8260D SIM - Volatile Organic Compounds (GC/MS) Client Sample ID: Method E Lab Sample ID: MB 240-645836/6 Matrix: Water MB MB Client Sample ID: Method E Analysis Batch: 645836 MB MB Analysis Client Sample ID: Method E Surrogate 20 0 2.0 0.86 ug/L 0.97 epared Analyzed 0.0724/25 12:56 Lab Sample ID: LCS 240-645836/4 Surrogate %Recovery Qualifier Limits Prepared Analyzed 0.0724/25 12:56 Lab Sample ID: LCS 240-645836/4 Spike LCS LCS LCS LCS Dimits 0.0724/25 12:56 0.0724/25 12:56 0.0724/25 12:56 Lab Sample ID: LCS 240-645836/4 Spike LCS LCS LCS LCS LCS LCS LCS LCS Matrix: Water Analyte 65. 127 Added Result Qualifier Unit D %Rec Mete 1.2-Dichoroethane-d4 (Surr) 99 68. 127 LCS			quamer										
Toluen-d8 (Surr) 97 78-122 Ditromoluoromethane (Surr) 99 73-120 Tethod: 8260D SIM - Volatile Organic Compounds (GC/MS) Client Sample ID: MB 240-645836/6 Client Sample ID: Method E Analysis Batch: 645836 MB MB Prep Type: Total Analysis Batch: 645836 MB MB D Prepared Analyzed Client Sample ID: Method E 1.4-Dioxane 2.0 U 2.0 0.86 ug/L D Prepared Analyzed Client Sample ID: Method E surrogate %Recovery Qualifier Limits Prepared Analyzed Client Sample ID: Lab Control Sa Analyte KCS LCS LCS LCS Spike LCS LCS Sree													
Ditromatiuoramethane (Surr) 96 73. 120 Iethod: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-645836/6 Matrix: Water Analysis Batch: 645836 Client Sample ID: Method E Prep Type: Tot Analyzed MB MB Anatysis Batch: 645836 MB MB Surrogate %Recovery 1.2-Dichloroethane-d4 (Surr) 99 68. 127 Lab Sample ID: LCS 240-645836/4 Matrix: Water Limits Prepared Analyzed IC Analysis Batch: 645836 Spike LCS LCS LS Client Sample ID: Lab Control Sa Prep Type: Tot 02/24/25 12:56 Analysis Batch: 645836 Spike LCS LCS LCS LS Surrogate %Recovery %Recovery Qualiffer Limits D %Rec 02/24/25 12:56 Lab Sample ID: L40-545836/4 Matrix: Water LCS LCS LCS LS Analyse Sample Sample Spike 99 68. 127 Client Sample ID: Matrix S Prep Type: Tot Analysis Batch: 645836 Surrogate %Recovery %Recovery Qualiffer Limits 68. 127 Lab Sample ID: 240-219191-B-4 MIS Surrogate Sample Spike 81.127 MS MS MS MS Surrogate %Recovery %Recovery Qualiffer Limits 68. 127 Lab Sample ID: 240-219191-B-4 MIS Matrix: Water Limits Client Samp													
Idethod: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-645836/6 Matrix: Water Analysis Batch: 645836 Client Sample ID: Method E Prep Type: Tot Analysis Batch: 645836 MB MB Analyte Result Qualifier RL MIL Unit D Prepared Analyzed ID Analysis Batch: 645836 ME MB MB MB Analyzed ID Client Sample ID: Method E Prep Type: Tot Analysis Batch: 645836 Client Sample ID: LCS 240-645836/4 Matrix: Water Analysis Batch: 645836 Client Sample ID: Lab Control Sa Prep Type: Tot Analysis Batch: 645836 LCS LCS Surrogate Spike LCS LCS Client Sample ID: Lab Control Sa Prep Type: Tot Analysis Batch: 645836 Sample ID: Lab Control Sa Surrogate Spike Matrix: Water Analyse Batch: 645836 Sample Result Qualifier Limits D %Recovery Qualifier Limits Added Matrix: Water Analyse Batch: 645836 Sample Sample Spike MS MS Sime Sample Result Qualifier O Client Sample ID: Matrix S Prep Type: Tot Analysis Batch: 645836 Sample Result Qualiffer MS MS <td></td>													
Lab Sample ID: MB 240-645836/6 Client Sample ID: Method E Matrix: Water Analysis Batch: 645836 MB Analysis Batch: 645836 MB MB Analyte Result Qualifier RL MDL D Prepared Analyzed Client Sample ID: Method E 14-Dioxane 2.0 U 2.0 0.86 ug/L D Prepared Analyzed Client Sample ID: Method E surrogate %Recovery Qualifier Limits Prepared Analyzed Client Sample ID: Lab Control Sa Analyte Added Result Qualifier Limits Prep Type: Tot Analyte Client Sample ID: Lab Control Sa Prep Type: Tot Analyzed D Analyte Added Result Qualifier Unit D %Rec Mits 1.4-Dioxane Sizerogate Size CS Size CS Sizerogate %Rec Mits Prep Type: Tot Analyte LCS LCS LCS LCS LCS LCS LCS Prep Type: Tot Analyte SkRecovery Qualifier Limits Qualifier		atile Organic	Compour	ds (GC/MS)									
Matrix: Water Analysis Batch: 645836 MB MB Analyte Analyzed 1.4-Dioxane MB MB Surrogate 1.2-Dichloroethane-d4 (Surr) Limits Limits LCS LCS Surgate LCS LCS Surgate Surgate Surgate Surgate Surgate Surgate MS MS Surgate MS MS MS MS MS MS MS MS MS MS MS			, compound										
Analysis Batch: 645836 MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed D 1.4-Dioxane 2.0 U 2.0 0.86 ug/L D Prepared Analyzed D 1.2-Diohonethane-d4 (Surr) 99 68.127 Prepared Analyzed D 1.2-Diohonethane-d4 (Surr) 99 68.127 Cilent Sample ID: LCS 240-645836/4 Cilent Sample ID: Lab Control Sa Matrix: Vater Analyzed 10.0 9.65 WRec Limits Prep Type: Tot Analyzed 10.0 9.65 ug/L 96 75.121 Prep Type: Tot 1.4-Dioxane 10.0 9.65 ug/L 96 75.121 Prep Type: Tot Surrogate %Recovery Qualifier Limits Prep Type: Tot Prep Type: Tot 1.4-Dioxane 2.0 0 10.0 9.38 ug/L 96 75.121 Lab Sample ID: 240-219191-B-4 MS Sample Spike MS MS MS MS MS Prep Type: Tot Ana		ბ ახ/ხ								Client S			
MBMBAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedC1.4-Dioxane2.002.00.86ug/L02/24/25 12:560Surrogate%RecoveryQualifierLimitsEinitsPreparedAnalyzedC1.2-Dichloroethane-d4 (Surr)9968.127Client Sample ID: Lob Control Sa Prep Type: TotaLab Sample ID: LCS 240-645836/4 Matrix: Water Analysis Batch: 645836SpikeLCSLCSLCSVifeeLab Sample ID: LCS 240-645836/4 Matrix: Water Analysis Batch: 645836SpikeLCSLCSUnitD%RecLab Sample ID: LCS 240-645836/4 Matrix: Water Analysis Batch: 645836QualifierLimitsUnitD%RecLab Sample ID: 240-219191-B-4 MS Matrix: Water Analysis Batch: 645836SampleSpikeMSMSMSMSSikecLab Sample ID: 240-219191-B-4 MS Matrix: Water Analysis Batch: 645836SampleSpikeMSMSMSSikecUnitD%RecMajsis Batch: 645836SampleSampleSpikeMSMSMSMSSikecUnitsD%RecLab Sample ID: 240-219191-B-4 MS 1.2-Dichloroethane-d4 (Surr)QualifierLimitsLimitsD%RecUnitsD%RecLab Sample ID: 240-219191-B-4 MSD 1.2-Dichloroethane-d4 (Surr)MSMSMSMSMSVifeeUnitsDSurogate%RecoveryQ											i icp i j	10.10	
AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedC1.4-Dioxane2.0U2.00.86ug/LDPreparedAnalyzedCSurrogate%RecoveryQualifierLimits68-127PreparedAnalyzedD1.2-Dichlorochene-d4 (Surr)9968-127Client Sample ID: LCS 240-645836/4Client Sample ID: LCS 240-645836/4Client Sample ID: LCS CSV/RecoveryQualifierDAnalyzed10.09.65UnitD%RecV/Recovery <td>Analysis Datch. 040000</td> <td></td> <td>MB MB</td> <td></td>	Analysis Datch. 040000		MB MB										
1.4-Dioxane 2.0 U 2.0 0.86 uglL 02/24/25 12:56 Surrogate %Recovery Qualifier Limits Prepared Analyzed D 1.2-Dichloroethane-d4 (Surr) 99 68 - 127 Client Sample ID: Lab Control Sa Matrix: Water Analysis Batch: 645836 Spike LCS LCS LCS LCS LCS LCS Limits Prepared Analyzed D 1.4-Dioxane 10.0 9.65 96 75 - 121 96 75 - 121 100 Lab Sample ID: 240-219191-B-4 MS Kecovery Qualifier Limits 100 9.65 Viller Viller Prep Type: Tot Analysis Batch: 645836 Sample Sample Spike MS MS Servery Viller 96 75 - 121 100 Lab Sample ID: 240-219191-B-4 MS Client Sample ID: Matrix S Prep Type: Tot Natrix: Water Natrix: Water Natrix: Water Natrix: Water Natrix: Water NS MS Surogate ViRec Vint D %Rec Vints 1.2-Dichloroethane-d4 (Surr) 101 68 - 127 10.0 9.38 Unit D %Rec Viller Viller Surogate	Analyte	R		RI		MDI Unit		п	Р	ronarod	Analyzo	Ч	Dil Fa
MB MB MB Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 Client Sample ID: Lab Control Sa Lab Sample ID: LCS 240-645836/4 Client Sample ID: Lab Control Sa Prep Type: Total Matrix: Water Analyze Client Sample ID: Lab Control Sa Analyte Added Result Qualifier Unit D %Rec 1,4-Dioxane %Recovery Qualifier Limits - - - 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 - - - - Surrogate %Recovery Qualifier Limits - - - - 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 -										reparea			Diric
Surrogate %Recovery Qualifier Limits Prepared Analyzed L 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 Client Sample ID: LCS 240-645836/4 Client Sample ID: Lab Control Sa Matrix: Water Analyzed L Client Sample ID: Lab Control Sa Analyze Added Result Qualifier Unit D %Rec Analyze Added Result Qualifier Unit D %Rec Limits - 1,4-Dioxane LCS LCS LCS LCS Surrogate %Recovery Qualifier Unit D %Rec Limits - <			2.0 0	2.0		0.00 ug/L					02/2 1/20 11	2.00	
1,2-Dichloroethane-d4 (Surr) 99 68.127 02/2425 12:56 Lab Sample ID: LCS 240-645836/4 Client Sample ID: Lab Control Sa Matrix: Water Analyte Added Result Qualifier Unit D %Rec Limits Analyte Added Result Qualifier Unit D %Rec Limits 1,2-Dichloroethane-d4 (Surr) 99 68.127 Client Sample ID: Lab Control Sa Prep Type: Total Surrogate 2/2425 12:56 LCS LCS LCS Matrix: Qualifier Unit D %Rec Matrix: Prep Type: Total Lab Sample ID: 240-219191-B-4 MS Sample Sample Spike MS MS MRS Prep Type: Total Analyte Result Qualifier Added Result Qualifier Unit D %Rec Matrix: Water 2.0 0 10.0 9.38 Ug/L D %Rec Analyte Result Qualifier Limits Limits Ug/L 94 20.180 Prep Type: Total 1.4-Dioxane 2.0 U <td></td>													
Lab Sample ID: LCS 240-645836/4 Client Sample ID: Lab Control Sample Trype: Total Analysis Batch: 645836 Analysis Batch: 645836 Spike LCS LCS LCS Mark Qualifier Unit D %Rec Limits		%Reco	overy Qualifier	Limits					P	repared	Analyze	d	Dil Fa
Matrix: Water Analysis Batch: 645836 Prep Type: Total Analyte Spike LCS LCS Unit D %Rec Limits	1,2-Dichloroethane-d4 (Surr)		99	68 - 127							02/24/25 1	2:56	
Matrix: Water Analysis Batch: 645836 Prep Type: Total Analyte Spike LCS LCS Unit D %Rec Limits	l ab Sample ID: L CS 240 64	5926/4						~	lione	Sample		ntral C	omol
Analysis Batch: 645836 Spike LCS LCS LCS LCS LCS Limits		5050/4						U U	nem	Sample			
AnalyteAddedResultQualifierUnitD%Rec1.4-Dioxane10.09.65ug/L9675 · 121LCSLCSLCSSurrogate%RecoveryQualifierLimits1.2-Dichloroethane-d4 (Surr)9968 · 127Lab Sample ID: 240-219191-B-4 MSSampleSpikeMSMatrix: WaterResultQualifierAddedAnalyteResultQualifierAdded1.4-Dioxane2.0U10.098Sizrogate%RecoveryQualifierUnitD%RecoveryQualifierLab SampleSampleSurrogate%RecoveryQualifier10.09368 · 127Lab Sample ID: 240-219191-B-4 MSSampleSurrogate%RecoveryQualifier10.09368 · 127Lab Sample ID: 240-219191-B-4 MSDClient Sample ID: Matrix Spike DuplMatrix: Water10.11.2-Dichloroethane-d4 (Surr)10168 · 12768 · 127Lab Sample ID: 240-219191-B-4 MSDClient Sample ID: Matrix Spike DuplMatrix: Water%Recovery1.2-Dichloroethane-d4 (Surr)10168 · 12768 · 127Lab Sample ID: 240-219191-B-4 MSDKecMatrix: WaterYereAnalysis Batch: 645836SampleSample SampleSpikeMatrix: WaterResultAnalysis Batch: 645836SampleSampleSpike <td></td> <td>Prep Ty</td> <td>pe: 10</td> <td></td>											Prep Ty	pe: 10	
AnalyteAddedResultQualifierUnitD%RecLimits1.4-Dioxane10.09.65ug/L9675 - 121LCSLCSLCSSurrogate%RecoveryQualifierLimits1.2-Dichloroethane-d4 (Surr)9968 - 127Client Sample ID: Matrix SLab Sample ID: 240-219191-B-4 MSSampleSpikeMSMSMatrix: WaterResultQualifierAddedResultQualifierUnitD%RecAnalysis Batch: 645836SampleSampleSpikeMSMS%RecLimits	Analysis Batch. 645056			Spike	1.00	1.09					% Bee		
1.4-Dioxane 10.0 9.65 ug/L 96 75 - 121 1.4-Dioxane LCS LCS Surrogate %Recovery Qualifier Limits 1.2-Dichloroethane-d4 (Surr) 99 68 - 127 Lab Sample ID: 240-219191-B-4 MS Client Sample ID: Matrix S Matrix: Water Analysis Batch: 645836 Prep Type: Total Analyte Result Qualifier Added Result Qualifier Unit D %Rec 1.4-Dioxane 2.0 U 10.0 9.38 ug/L D %Rec Surrogate %Recovery Qualifier Limits 10.0 9.38 ug/L D %Rec 1.4-Dioxane 2.0 U 10.0 9.38 ug/L D %Rec Surrogate %Recovery Qualifier Limits 10.1 68 - 127 10.1 D %Rec Lab Sample ID: 240-219191-B-4 MSD Ketro Client Sample ID: Matrix Spike Dupl Prep Type: Total Analysis Batch: 645836 Sample Spike MSD MSD %Rec Ana	Analyta			-			Unit		•	% Baa			
LCS LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 Lab Sample ID: 240-219191-B-4 MS Client Sample ID: Matrix S Matrix: Water Sample Sample Analyte Result Qualifier Added 1,4-Dioxane 2.0 0 10.0 9.38 WS Surrogate %Recovery Qualifier Limits 10 1,2-Dichloroethane-d4 (Surr) 101 68 - 127 V 94 20 - 180 Surrogate %Recovery Qualifier Limits 10 9.38 Ug/L 94 20 - 180 Lab Sample ID: 240-219191-B-4 MSD Katrix: Water Client Sample ID: Matrix Spike Dupl Prep Type: Total Matrix: Water Analysis Batch: 645836 Sample Spike MSD %Rec Analysis Batch: 645836 Sample Spike MSD MSD %Rec Analysie Result Qualifier Added Result Qualifier Unit D %Rec						Quaimer							
Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 Lab Sample ID: 240-219191-B-4 MS Sample Sample Prep Type: Total Analytis Batch: 645836 Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 2.0 U 10.0 9.38 Ug/L 94 20 - 180 Surrogate %Recovery Qualifier Limits Limits Ug/L 94 20 - 180 Surrogate %Recovery Qualifier Limits Ug/L 94 20 - 180 Lab Sample ID: 240-219191-B-4 MSD MS Sample Spike MSD Prep Type: Total Matrix: Water Analysis Batch: 645836 Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec				10.0	0.00		ug/L			00	10-121		
1,2-Dichloroethane-d4 (Surr) 99 68 - 127 Lab Sample ID: 240-219191-B-4 MS Matrix: Water Client Sample ID: Matrix S Prep Type: Total Analysis Batch: 645836 Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 20 - 180 Surrogate %Recovery Qualifier Limits 68 - 127 20 - 180<		LCS	LCS										
Lab Sample ID: 240-219191-B-4 MS Client Sample ID: Matrix S Matrix: Water Analysis Batch: 645836 Prep Type: Total Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits	Surrogate	%Recovery	Qualifier	Limits									
Matrix: Water Prep Type: Total Analytis Batch: 645836 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 2.0 U 10.0 9.38 ug/L 94 20 - 180 MS MS MS MS Ug/L 94 20 - 180 MS MS MS 0 9.38 ug/L 94 20 - 180 Surrogate %Recovery Qualifier Limits Client Sample ID: Matrix Spike Dupl 1,2-Dichloroethane-d4 (Surr) 101 68 - 127 Client Sample ID: Matrix Spike Dupl Matrix: Water Sample Sample Spike MSD MSD Client Sample ID: Matrix Spike Dupl Analysis Batch: 645836 Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec	1,2-Dichloroethane-d4 (Surr)	99		68 - 127									
Matrix: Water Prep Type: Total Analytis Batch: 645836 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 2.0 U 10.0 9.38 ug/L 94 20 - 180 MS MS MS MS Ug/L 94 20 - 180 MS MS MS 0 9.38 ug/L 94 20 - 180 Surrogate %Recovery Qualifier Limits Client Sample ID: Matrix Spike Dupl 1,2-Dichloroethane-d4 (Surr) 101 68 - 127 Client Sample ID: Matrix Spike Dupl Matrix: Water Sample Sample Spike MSD MSD Client Sample ID: Matrix Spike Dupl Analysis Batch: 645836 Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec	Lab Sample ID: 240-219191-	B-4 MS								Client	Sample ID:	Matrix	Spik
Analysis Batch: 645836 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 2.0 U 10.0 9.38 Qualifier Unit D %Rec Limits Surrogate %Recovery Qualifier Limits Client Sample ID: Matrix Spike Dupl 1,2-Dichloroethane-d4 (Surr) 101 68 - 127 68 - 127 Client Sample ID: Matrix Spike Dupl Matrix: Water Sample Sample Spike MSD MSD %Rec Analysis Batch: 645836 Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD													-
SampleSampleSampleSpikeMSMS%RecAnalyteResultQualifierAddedResultQualifierUnitD%RecLimits1,4-Dioxane2.0U10.09.38ug/L9420 - 180MSMSMSSurrogate%RecoveryQualifierLimits1,2-Dichloroethane-d4 (Surr)10168 - 12768 - 127Client Sample ID: Matrix Spike DuplMatrix: WaterMatrix: WaterSampleSampleSpikeMSD%RecAnalysis Batch: 645836SampleSpikeMSD%RecMatrixAnalyteResultQualifierAddedResultQualifierUnitD%RecLabResultQualifierAddedResultQualifierUnitD%Rec	Analysis Batch: 645836												
AnalyteResultQualifierAddedResultQualifierUnitD%RecLimits1,4-Dioxane2.0U10.09.38ug/L9420.180MSMSMSQualifierLimits1,2-Dichloroethane-d4 (Surr)10168 - 12768 - 127Lab Sample ID: 240-219191-B-4 MSDClient Sample ID: Matrix Spike DuplMatrix: WaterPrep Type: TotaAnalysis Batch: 645836SampleSpikeMSD%RecAnalyteResultQualifierAddedResultQualifierUnitD%Rec	· ·····, · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MS	MS					%Rec		
1,4-Dioxane 2.0 U 10.0 9.38 ug/L 94 20 - 180 MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 101 68 - 127 Lab Sample ID: 240-219191-B-4 MSD Client Sample ID: Matrix Spike Dupl Matrix: Water Prep Type: Total Analysis Batch: 645836 Sample Analyte Result Qualifier Added Result Qualifier	Analyte		-	-	Result	Qualifier	Unit		D	%Rec			
Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 101 68 - 127 Lab Sample ID: 240-219191-B-4 MSD Client Sample ID: Matrix Spike Dupl Matrix: Water Prep Type: Tota Analysis Batch: 645836 Sample Spike MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec		2.0	U	10.0	9.38		ug/L				20 - 180		
Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 101 68 - 127 Lab Sample ID: 240-219191-B-4 MSD Client Sample ID: Matrix Spike Dupl Matrix: Water Prep Type: Tota Analysis Batch: 645836 Sample Spike MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec		MS	MS										
1,2-Dichloroethane-d4 (Surr) 101 68 - 127 Lab Sample ID: 240-219191-B-4 MSD Client Sample ID: Matrix Spike Dupl Matrix: Water Prep Type: Total Analysis Batch: 645836 Sample Sample Spike MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec	Surrogate			Limits									
Matrix: Water Prep Type: Total Analysis Batch: 645836 Sample Sample Spike MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec													
Analysis Batch: 645836 Sample Sample Spike MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec	Lab Sample ID: 240-219191-	B-4 MSD						Clie	nt Sa	ample IC): Matrix Spi	ke Dup	olicat
Sample Sample Spike MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD	Matrix: Water										Prep Ty	vpe: To	tal/N
Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD	Analysis Batch: 645836												
		Sample	Sample	Spike	MSD	MSD					%Rec		RP
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
1,4-Dioxane 2.0 U 10.0 9.72 ug/L 97 20 - 180 4	1,4-Dioxane	2.0	U	10.0	9.72		ug/L			97	20 - 180	4	2

Eurofins Cleveland

Prep Type: Total/NA

10

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

Lab Sample ID: 240-219191-B-4 MSD Client Sample ID: Matrix Spike Duplicate Matrix: Water Analysis Batch: 645836 MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 99 68 - 127

Eurofins Cleveland

GC/MS VOA

Analysis Batch: 645741

240-219215-D-3 MSD

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219186-1	TRIP BLANK_32	Total/NA	Water	8260D	
MB 240-645741/12	Method Blank	Total/NA	Water	8260D	
LCS 240-645741/6	Lab Control Sample	Total/NA	Water	8260D	
nalysis Batch: 64583	6				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219186-2	MW-94S_021825	Total/NA	Water	8260D SIM	
MB 240-645836/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-645836/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219191-B-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-219191-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
Analysis Batch: 64593	5				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219186-2	MW-94S_021825	Total/NA	Water	8260D	
MB 240-645935/12	Method Blank	Total/NA	Water	8260D	
LCS 240-645935/6	Lab Control Sample	Total/NA	Water	8260D	
240-219215-D-3 MS	Matrix Spike	Total/NA	Water	8260D	

Total/NA

Water

8260D

Matrix: Water

Matrix: Water

Lab Sample ID: 240-219186-1

Lab Sample ID: 240-219186-2

Client Sample ID: TRIP BLANK_32 Date Collected: 02/18/25 00:00

Duto	0011001001.02/10/20 00.00	·
Date	Received: 02/20/25 08:00	

	Batch	Batch		Dilution	Batch			Bronarad
Ргер Туре	Батсп Туре	Method	Run	Factor		Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645741	MS	EET CLE	02/22/25 16:14

Client Sample ID: MW-94S_021825 Date Collected: 02/18/25 14:38

Date Received: 02/20/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645935	MS	EET CLE	02/25/25 14:30
Total/NA	Analysis	8260D SIM		1	645836	R5XG	EET CLE	02/24/25 14:54

Laboratory References:

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

12 13

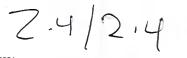
Accreditation/Certification Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory: Eurofins Cleveland

aboratory: Eurofins Cle	y this laboratory are listed. Not all accreditations/cer	ertifications are applicable to this repo	rt.	
		Identification Number		
Authority California	Program State		Expiration Date 02-28-25	
Connecticut	State	2927 PH-0806	12-31-26	
Georgia	State	4062	02-27-25	
Illinois	NELAP	200004	08-31-25	
lowa	State	421	06-01-25	
Kansas	NELAP	E-10336	01-31-26	
Kentucky (UST)	State	112225	02-27-25	
Kentucky (WW)	State	KY98016	12-31-25	
Minnesota	NELAP	039-999-348	12-31-25	
New Hampshire	NELAP	225024	09-30-25	
New Jersey	NELAP	OH001	07-03-25	
New York	NELAP	10975	04-02-25	
Ohio	State	8303	11-04-25	
Ohio VAP	State	ORELAP 4062	02-27-25	
Oregon	NELAP	4062	02-27-25	
Pennsylvania	NELAP	68-00340	08-31-25	
Texas	NELAP	T104704517-22-19	08-31-25	
USDA	US Federal Programs	P330-18-00281	01-05-27	
Virginia	NELAP	460175	09-14-25	
West Virginia DEP	State	210	12-31-25	
Wisconsin	State	399167560	08-31-25	

Eurofins Cleveland





14

 \mathcal{D}_{i}

TestAmerica Laboratory location: Farmington Hills - 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

Chain of Custody Record

Client Contact	Regulat	ory program:		∏ D₩		⊢ N	PDES	ſ	RCR	4	r 0	ther						_				TestAmerica Laboratories, Inc
ompany Name: Arcadis	Client Project N	lanager: Mega	n Meckle	y		Site Co	ontact:	Samant	tha Szp:	hichler			Lab	Contact	: Mik	e DelN	Ionico			_	_	COC No:
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248-	994-2240			_	Teleph		9 004-7	22.40		_	_	Teler	hone	330_40	30-497-9396						
ity/State/Zip: Novi, MI, 48377						Telephone: 248-994-2240 Telephone: 330- Analysis Ternaround Time					550-47							1 of 1 COCs				
Phone: 248-994-2240	Email: kristoffe	r.hinskey@arc	cadis.com								Г		_	An	alys	es	1		-	For lab use only		
	Sampler Name:					TAT of	different f										- 11					Walk-in client
Project Name: Ford LTP	Kel	ecca (ÓSh	gar	1	10	day	► 3 v ► 2 v														Lab sampling
Project Number: 30206169.0401.03	Method of Ship			0					week days		2	P I		8			0	SIM				
PO # US3460021848	Shipping/Track	Shipping/Tracking No:					F 10			ż	Grat	60D	826(3260	600				Job/SDG No:	
				Matrix		(Container	rs & Pre	servative	-	du	2601	E 82	DCE			ride	1e 82				
	Sample Date	Sample Time	Air Aqueous	Sediment Solid	Other:	H2504	HCI	NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite=C/Grab=G 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:
Sample Identification	Sample Date	Sample Time		3 0	0	= :		2 2	2 2 3	0									-		-	
TRIP BLANK_22532			1				1				N	G X	X	X	Х	Х	Х					1 Trip Blank
MW-945-021825	alight	1438	10				Ĺa				N	GX	Ŷ	\vee	\mathbf{v}	X	X	X	Τ			3 VOAs for 8260D
101W 140-04000	2/18/15	1900	6	_		\vdash	Q	_	++			4-	4-	7	~	2	1-	~		-		3 VOAs for 8260D SIM
									++			+	+				-		-	-		
									++							-	-		+			
					-	_				_												
				-										-		1:		**				
				-		\square			\downarrow							5	i.				5	CITCAN
		-														F.				1	VI	ICHIGAN
								-	++				-	+					-		\vdash	190
															240)-219	186	coc_				
																-						
i ali						\vdash			+		+	+-	+	\vdash			-	-	+		-	
RC 218/25																						
Possible Hazard Identification	rritant Poiso	B	Jnknown			San	nple Dis	posal (rn to Cli	A fee m	ay be a	ssesse	d if sam I By Lab	ples ar	e retain	ned los rchive	ger th	an l i	nonth) Month	he			
			/		_		Actu	in to en	iem -		rsposa	Dy Lau			Chive	101 /	-	wonn	13			
Submit all results through Cadena at jtomalia@caden	1080 Boston																					
Level IV Reporting requested.																						
Relinquished by:	Company: A	- dro	Date	Time 182	-		~	Receive	ed by:		0	110	~			Compa	iny:	1	1.2			Date/Time:
Thom Willing	A	adis .	_2	1812	5	40	N		<u></u>	lovi	Q	6-0	nn	gl	/	<u></u>		Arca	<u>m7</u>	_	_	2/18/25 1000
Relinquished by	Company:	1015	Date	19 1-	25	12 -	33	Keceive	ed by: A ed by:	21	P,	10	T	>		Compa	uny:	DE	TA			2/19/25 12:3
Relinquished by:	Company		Date	/Time:				Receive	ed in La	borato	ry by:					Comp	any:		11			Date/Time:
NA HAT	EE	TA	2	1191	XI	2:	yn		IES	32	MA	DA	C K L				۶.	RO				2 20 25 084

02006, TestAmence Laboratorias, Inc. A8 rights reserved, TestAmence & Dasign ¹⁰ are trademarks of TestAmence Laboratories, Inc.

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES I additional next page Samples processed by: 19 SAMPLE CONDITION	Batherion Fachary Site Name Cooler unpacked by: Cooler Experied on $2 DO 2.5$ $Dended n. 2 2O 2.5$ $DHOROS 1CO$ FedEr: 1* Get Exp UTS FAS Waybint Client Dool off Earofine Courrer Other $DHOROS 1CO$ Baching metrical used. Buble(Way Feam Box Client Dool off Earofine Courrer Other $DHOROS 1CO$ Packing metrical used. Buble(Way Feam Box Client Cooler Box Other $Other$ $Dhoros Other 1 Cooler tamperture upon Teclipt Dor Other Cooler Temp 2 H ecolor Tem 1 Hecolor Te$
--	---

2/20/2025

14

Temperature readings

MW-94S_021825	MW-948_021825	MW-94S_021825	MW-94S_021825	MW-94S_021825	MW-94S_021825	TRIP BLANK_32	Client Sample ID
240-219186-F-2	240-219186-E-2	240-219186-D-2	240-219186-C-2	240-219186-B-2	240-219186-A-2	240-219186-A-1	<u>Lab ID</u>
Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochlorıc Acıd	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochlorıc Acid	Voa Vial 40ml - Hydrochlorıc Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Container Type
							<u>Container</u> Preservation Preservation pH Temp Added Lot Number

DATA VERIFICATION REPORT



February 27, 2025

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

CADENA project ID: E203728 Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil Project number: 30251157.401.04 (vapor 301.04) 30206169.0401.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 219186-1 Sample date: 2025-02-18 Report received by CADENA: 2025-02-27 Initial Data Verification completed by CADENA: 2025-02-27 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

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

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: 219186-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 240219 2/18/20	1861 25			MW-948 240219 2/18/20	_ 1862 25	5	Valia
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC										
<u>OSW-826</u>	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-826</u>	DDSIM									
	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 # 240-219186-1 CADENA Verification Report: 2025-02-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58396R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219186-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
		Watrix	Collection Date		voc	VOC SIM
TRIP BLANK_32	240-219186-1	Water	02/18/2025		Х	
MW-94S_021825	240-219186-2	Water	02/18/2025		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfor Accep		Not
	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		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	
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	

DATA REVIEW

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Nequireu
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation		1		-	
System performance and column resolution		Х		X	
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		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: Febin J S

SIGNATURE:

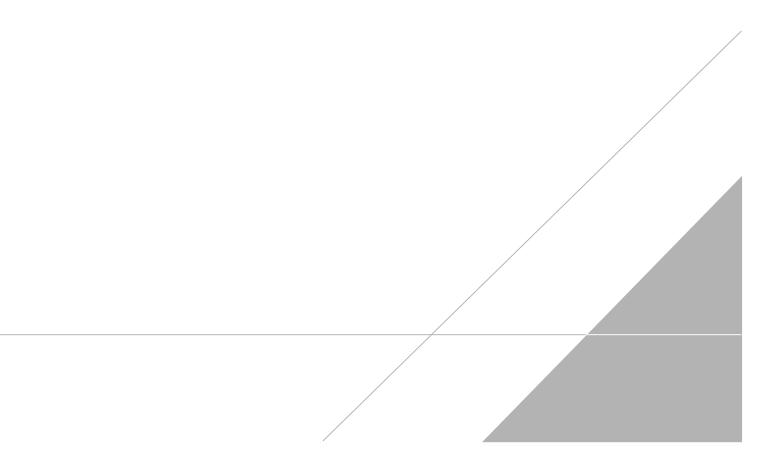
Parts

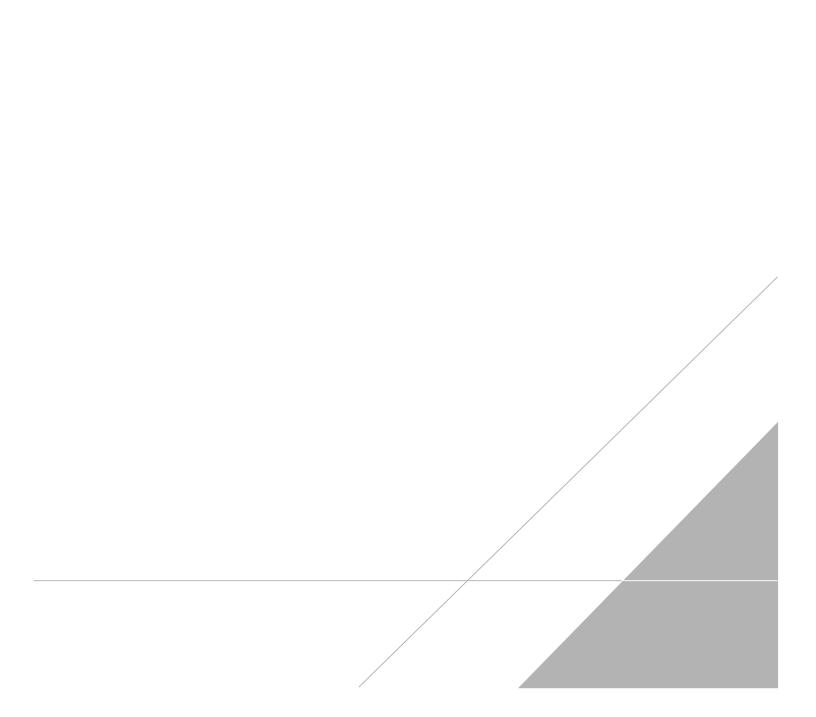
DATE: March 19, 2025

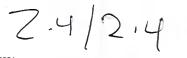
PEER REVIEW: Andrew Korycinski

DATE: March 26, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS









14

 \mathcal{D}_{i}

TestAmerica Laboratory location: Farmington Hills - 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

Chain of Custody Record

Client Contact	Regulat	ory program:		∏ D₩		⊢ N	PDES	ſ	RCR	4	r 0	ther						_				TestAmerica Laboratories, Inc
ompany Name: Arcadis	Client Project N	lanager: Mega	n Meckle	y		Site Co	ontact:	Samant	tha Szp:	hichler			Lab	Contact	: Mik	e DelN	Ionico			_	_	COC No:
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248-	994-2240			_	Teleph		9 004-7	22.40		_	_	Teler	hone	330_40	30-497-9396						
ity/State/Zip: Novi, MI, 48377						Telephone: 248-994-2240 Telephone: 330- Analysis Ternaround Time					550-47							1 of 1 COCs				
Phone: 248-994-2240	Email: kristoffe	r.hinskey@arc	cadis.com								Г		_	An	alys	es	1		-	For lab use only		
	Sampler Name:				_	TAT of	different f										- 11					Walk-in client
Project Name: Ford LTP	Kel	ecca (ÓSh	gar	1	10	day	► 3 v ► 2 v														Lab sampling
Project Number: 30206169.0401.03	Method of Ship			0					week days		2	P I		8			0	SIM				
PO # US3460021848	Shipping/Track	Shipping/Tracking No:					F 10			ž	Grat	60D	826(3260	600				Job/SDG No:	
				Matrix		(Container	rs & Pre	servative		du	2601	E 82	DCE			ride	1e 82				
	Sample Date	Sample Time	Air Aqueous	Sediment Solid	Other:	H2504	HCI	NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite=C/Grab=G 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:
Sample Identification	Sample Date	Sample Time		3 0	0	= :		2 2	2 2 3	0									-		-	
TRIP BLANK_22532			1				1				N	G X	X	X	Х	Х	Х					1 Trip Blank
MW-945-021825	alight	1438	10				Ĺa				N	GX	Ŷ	\vee	\mathbf{v}	X	X	X	Τ			3 VOAs for 8260D
101W 140-04000	2/18/15	1900	6	_		\vdash	Q	_	++			4-	4-	7	~	2	1-	~		-		3 VOAs for 8260D SIM
									++			+	+				-		-	-		
									++							-	-		+			
					-	_				_												
				-										-		1:		**				
				-		\square			\downarrow							5	i.				5	CITCAN
		-														F.				1	VI	ICHIGAN
									++	_			-	+					-		\vdash	190
															240)-219	186	coc_				
																-						
i ali						\vdash			+		+	+-	+	\vdash			-	-	+		-	
RC 218/25																						
Possible Hazard Identification	rritant Poiso	B	Jnknown			San	nple Dis	posal (rn to Cli	A fee m	ay be a	ssesse	d if sam I By Lab	ples ar	e retain	ned los rchive	ger th	an l i	nonth) Month	he			
			/		_		Actu	in to en	iem -		rsposa	Dy Lau			Chive	101 /	-	wonn	13			
Submit all results through Cadena at jtomalia@caden	1080 Boston																					
Level IV Reporting requested.																						
Relinquished by:	Company: A	- dro	Date	Time 182	-		~	Receive	ed by:		0	110	~			Compa	iny:	1	1.2			Date/Time:
Thom Willing	A	adis	_2	1812	5	40	N		<u></u>	lovi	Q	6-0	nn	gl	/	<u></u>		Arca	<u>m7</u>	_	_	2/18/25 1000
Relinquished by	Company:	1015	Date	19 1-	25	12 -	33	Keceive	ed by: A ed by:	21	P,	10	T	>		Compa	uny:	DE	TA			2/19/25 12:3
Relinquished by:	Company		Date	/Time:				Receive	ed in La	borato	ry by:					Comp	any:		11			Date/Time:
NA HAT	EE	TA	2	1191	XI	2:	yn		IES	32	MA	DA	C K L				۶.	RO				2 20 25 084

02006, TestAmence Laboratorias, Inc. A8 rights reserved, TestAmence & Dasign ¹⁰ are trademarks of TestAmence Laboratories, Inc. Client: Arcadis US Inc. Project/Site: Ford LTP

Qualifiers

Dil Fac

Quaimers		3
GC/MS VOA		
Qualifier	Qualifier Description	
E	Result exceeded calibration range.	
F1	MS and/or MSD recovery exceeds control limits.	5
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¢.	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	0
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	9
DER	Duplicate Error Ratio (normalized absolute difference)	4.0

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
DIC	Decision Level Concentration (Radiochemistry)

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)

Dilution Factor

MPNMost Probable NumberMQLMethod Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEGNegative / AbsentPOSPositive / Present

POSPositive / PresentPQLPractical 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

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_32

Date Collected: 02/18/25 00:00 Date Received: 02/20/25 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			02/22/25 16:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/22/25 16:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 16:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/22/25 16:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 16:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/22/25 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	131		62 - 137					02/22/25 16:14	1
4-Bromofluorobenzene (Surr)	73		56 - 136					02/22/25 16:14	1
Toluene-d8 (Surr)	89		78 - 122					02/22/25 16:14	1
Dibromofluoromethane (Surr)	118		73 - 120					02/22/25 16:14	1

Job ID: 240-219186-1

Matrix: Water

Lab Sample ID: 240-219186-1

1 2 3 4 5 6 7 8 9 10 11

Eurofins Cleveland

Client Sample ID: MW-94S_021825

Date Collected: 02/18/25 14:38 Date Received: 02/20/25 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			02/24/25 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		02/24/25 14:54	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			02/25/25 14:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 14:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 14:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 14:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 14:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		62 - 137			-		02/25/25 14:30	1
4-Bromofluorobenzene (Surr)	76		56 - 136					02/25/25 14:30	1
Toluene-d8 (Surr)	89		78 - 122					02/25/25 14:30	1
Dibromofluoromethane (Surr)	120		73 - 120					02/25/25 14:30	1

2/27/2025

Job ID: 240-219186-1

Lab Sample ID: 240-219186-2 Matrix: Water