PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 11/27/2024 11:48:26 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-215290-1

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

Laboratory Job ID: 240-215290-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-215290-1

Project/Site: Ford LTP

Qualifiers

GC/MS	VOA
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Qualifier

*+	LCS and/or LCSD is outside acceptance limits, high biased.

F2 MS/MSD RPD exceeds control limits

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
*	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DI RA RE IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-215290-1 Eurofins Cleveland

Job Narrative 240-215290-1

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 11/20/2024 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 1.5°C and 1.9°C.

GC/MS VOA

Method 8260D: The laboratory control sample (LCS) for analytical batch 240-636481 recovered outside control limits for the following analytes: cis-1,2-Dichloroethene and Trichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 240-636481 recovered outside control limits for the following analytes: Trichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215290-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215290-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-215290-1	TRIP BLANK_107	Water	11/18/24 00:00	11/20/24 08:00
240-215290-2	MW-49_111824	Water	11/18/24 10:40	11/20/24 08:00
240-215290-3	MW-220S_111824	Water	11/18/24 09:20	11/20/24 08:00
240-215290-4	MW-69_111824	Water	11/18/24 12:45	11/20/24 08:00
240-215290-5	MW-64_111824	Water	11/18/24 14:05	11/20/24 08:00

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Detection Summary

Client: Arcadis US Inc. Job ID: 240-215290-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_107 Lab Sample ID: 240-215290-1

No Detections.

Lab Sample ID: 240-215290-2 Client Sample ID: MW-49_111824

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	15		2.0	0.86	ug/L	 1	_	8260D SIM	Total/NA
cis-1,2-Dichloroethene	52000		2500	1200	ug/L	2500		8260D	Total/NA
Vinyl chloride	12000		2500	1100	ug/L	2500		8260D	Total/NA

Lab Sample ID: 240-215290-3 Client Sample ID: MW-220S_111824

No Detections.

Client Sample ID: MW-69_111824 Lab Sample ID: 240-215290-4

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
1,4-Dioxane	8.0	2.0	0.86 ug/L	1	8260D SIM	Total/NA

Client Sample ID: MW-64_111824 Lab Sample ID: 240-215290-5

Analyte	Result Qualit	ifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2	1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	4.5	1.0	0.45	ug/L	1		8260D	Total/NA

Client: Arcadis US Inc. Job ID: 240-215290-1

Project/Site: Ford LTP

Date Received: 11/20/24 08:00

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-215290-1 Date Collected: 11/18/24 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 19:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 19:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 19:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 19:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 19:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137			-		11/23/24 19:38	1
4-Bromofluorobenzene (Surr)	78		56 ₋ 136					11/23/24 19:38	1
Toluene-d8 (Surr)	91		78 - 122					11/23/24 19:38	1
Dibromofluoromethane (Surr)	105		73 - 120					11/23/24 19:38	1

Client: Arcadis US Inc. Job ID: 240-215290-1

Project/Site: Ford LTP

Date Received: 11/20/24 08:00

Client Sample ID: MW-49_111824

Lab Sample ID: 240-215290-2 Date Collected: 11/18/24 10:40

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	15		2.0	0.86	ug/L			11/25/24 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		68 - 127			-		11/25/24 14:12	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2500	U	2500	1200	ug/L			11/23/24 23:58	2500
cis-1,2-Dichloroethene	52000		2500	1200	ug/L			11/23/24 23:58	2500
Tetrachloroethene	2500	U	2500	1100	ug/L			11/23/24 23:58	2500
trans-1,2-Dichloroethene	2500	U	2500	1300	ug/L			11/23/24 23:58	2500
Trichloroethene	2500	U	2500	1100	ug/L			11/23/24 23:58	2500
Vinyl chloride	12000		2500	1100	ug/L			11/23/24 23:58	2500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132		62 - 137			-		11/23/24 23:58	2500
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					11/23/24 23:58	2500
Toluene-d8 (Surr)	99		78 - 122					11/23/24 23:58	2500
Dibromofluoromethane (Surr)	116		73 - 120					11/23/24 23:58	2500

Client: Arcadis US Inc.

Job ID: 240-215290-1

Project/Site: Ford LTP

Date Collected: 11/18/24 09:20 Matrix: Water

Date Received: 11/20/24 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			11/25/24 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127					11/25/24 14:36	1
Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	C/MS						
	•	ounds by G Qualifier	GC/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier		MDL 0.49		<u>D</u> .	Prepared	Analyzed 11/23/24 21:31	Dil Fac
Method: SW846 8260D - Volate Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0	Qualifier	RL		ug/L	<u>D</u> .	Prepared		Dil Fac
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0	Qualifier U U *+		0.49	ug/L ug/L	<u> </u>	Prepared	11/23/24 21:31	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene	Result 1.0 1.0	Qualifier U U *+ U	1.0 1.0	0.49 0.46	ug/L ug/L ug/L	<u>D</u> .	Prepared	11/23/24 21:31 11/23/24 21:31	Dil Fac 1 1 1 1

Vinyl chloride	1.0 U	1.0	0.45 ug/L		11/23/24 21:31	1
Surrogate	%Recovery Qu	ualifier Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	62 - 137			11/23/24 21:31	1
4-Bromofluorobenzene (Surr)	95	56 - 136			11/23/24 21:31	1
Toluene-d8 (Surr)	101	78 - 122			11/23/24 21:31	1
Dibromofluoromethane (Surr)	97	73 - 120			11/23/24 21:31	1

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Client: Arcadis US Inc. Job ID: 240-215290-1

Project/Site: Ford LTP

Client Sample ID: MW-69_111824

Lab Sample ID: 240-215290-4 Date Collected: 11/18/24 12:45 Matrix: Water

Date Received: 11/20/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.0		2.0	0.86	ug/L			11/25/24 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		68 - 127			-		11/25/24 14:59	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 21:55	1
cis-1,2-Dichloroethene	1.0	U *+	1.0	0.46	ug/L			11/23/24 21:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 21:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 21:55	1
Trichloroethene	1.0	U *+	1.0	0.44	ug/L			11/23/24 21:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 21:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137			-		11/23/24 21:55	1
4-Bromofluorobenzene (Surr)	91		56 - 136					11/23/24 21:55	1
Toluene-d8 (Surr)	95		78 - 122					11/23/24 21:55	1
Dibromofluoromethane (Surr)	98		73 - 120					11/23/24 21:55	1

Client: Arcadis US Inc. Job ID: 240-215290-1

Project/Site: Ford LTP

Client Sample ID: MW-64_111824

Date Received: 11/20/24 08:00

Lab Sample ID: 240-215290-5 Date Collected: 11/18/24 14:05

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/25/24 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			-		11/25/24 15:23	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			11/23/24 22:19	1
cis-1,2-Dichloroethene	1.2		1.0	0.46	ug/L			11/24/24 14:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 22:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 22:19	1
Trichloroethene	1.0	U *+	1.0	0.44	ug/L			11/23/24 22:19	1
Vinyl chloride	4.5		1.0	0.45	ug/L			11/23/24 22:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			_		11/23/24 22:19	1
1,2-Dichloroethane-d4 (Surr)	95		62 - 137					11/24/24 14:10	1
4-Bromofluorobenzene (Surr)	87		56 - 136					11/23/24 22:19	1
4-Bromofluorobenzene (Surr)	97		56 - 136					11/24/24 14:10	1
Toluene-d8 (Surr)	99		78 - 122					11/23/24 22:19	1
Toluene-d8 (Surr)	100		78 - 122					11/24/24 14:10	1
Dibromofluoromethane (Surr)	100		73 - 120					11/23/24 22:19	1
Dibromofluoromethane (Surr)	97		73 - 120					11/24/24 14:10	1

Client: Arcadis US Inc.

Job ID: 240-215290-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

		DCA	BFB	TOL	DBFM	(Acceptance Limits)
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-215140-C-4 MS	Matrix Spike	80	90	97	93	
240-215140-C-4 MSD	Matrix Spike Duplicate	80	92	98	93	
240-215290-1	TRIP BLANK 107	119	78	91	105	
240-215290-2	MW-49_111824	132	86	99	116	
240-215290-2 MS	MW-49_111824	115	95	97	101	
240-215290-2 MSD	MW-49_111824	109	89	92	99	
240-215290-3	MW-220S_111824	96	95	101	97	
240-215290-4	MW-69_111824	96	91	95	98	
240-215290-5	MW-64_111824	98	87	99	100	
240-215290-5	MW-64_111824	95	97	100	97	
240-215294-B-2 MS	Matrix Spike	94	88	93	99	
240-215294-B-2 MSD	Matrix Spike Duplicate	93	103	99	97	
LCS 240-636481/5	Lab Control Sample	100	104	108	105	
_CS 240-636483/4	Lab Control Sample	111	97	98	103	
LCS 240-636495/5	Lab Control Sample	91	91	95	98	
MB 240-636481/9	Method Blank	95	93	99	97	
MB 240-636483/7	Method Blank	120	87	98	106	
MB 240-636495/9	Method Blank	93	84	93	95	

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-215290-2	MW-49_111824	114	
240-215290-3	MW-220S_111824	111	
240-215290-4	MW-69_111824	109	
240-215290-5	MW-64_111824	103	
240-215294-E-2 MS	Matrix Spike	107	
240-215294-E-2 MSD	Matrix Spike Duplicate	95	
LCS 240-636646/6	Lab Control Sample	102	
MB 240-636646/8	Method Blank	97	

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

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Client: Arcadis US Inc. Job ID: 240-215290-1

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

Lab Sample ID: MB 240-636481/9

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 636481

Client San	nple ID:	Method	Blank
	Pren '	Type: To	tal/NA

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 11/23/24 18:45 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/23/24 18:45 1.0 U 0.44 ug/L 11/23/24 18:45 Tetrachloroethene 1.0 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/23/24 18:45 Trichloroethene 1.0 U 1.0 0.44 ug/L 11/23/24 18:45 Vinyl chloride 1.0 U 1.0 11/23/24 18:45 0.45 ug/L

MB MB

Surrogate	%Recovery	Qualifier Lim	its	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	62 -	137		11/23/24 18:45	1
4-Bromofluorobenzene (Surr)	93	56 -	136		11/23/24 18:45	1
Toluene-d8 (Surr)	99	78 -	122		11/23/24 18:45	1
Dibromofluoromethane (Surr)	97	73 -	120		11/23/24 18:45	1

Lab Sample ID: LCS 240-636481/5

Matrix: Water

Analysis Batch: 636481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 20.0 116 63 - 134 1,1-Dichloroethene 23.1 ug/L 20.0 cis-1,2-Dichloroethene 24.8 *+ ug/L 124 77 - 123 Tetrachloroethene 20.0 23.4 ug/L 117 76 - 123 75 - 124 trans-1,2-Dichloroethene 20.0 23.1 ug/L 116 Trichloroethene 20.0 24.6 *+ 123 70 - 122 ug/L Vinyl chloride 20.0 25.7 ug/L 128 60 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	104		56 ₋ 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

Lab Sample ID: 240-215294-B-2 MS

Matrix: Water

Analysis Batch: 636481

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	17.6		ug/L		88	56 - 135	
cis-1,2-Dichloroethene	1.0	U F2 *+	20.0	18.8		ug/L		94	66 - 128	
Tetrachloroethene	1.0	U	20.0	18.3		ug/L		91	62 - 131	
trans-1,2-Dichloroethene	1.0	U F2	20.0	17.5		ug/L		88	56 - 136	
Trichloroethene	1.0	U F2 *+	20.0	18.8		ug/L		94	61 - 124	
Vinyl chloride	1.0	U F2	20.0	19.5		ug/L		98	43 - 157	

MS MS

Surrogate	%Recovery Qualifie	er Limits
1,2-Dichloroethane-d4 (Surr)	94	62 - 137
4-Bromofluorobenzene (Surr)	88	56 - 136
Toluene-d8 (Surr)	93	78 - 122

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Job ID: 240-215290-1

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

Lab Sample ID: 240-215294-B-2 MS

Matrix: Water

Client: Arcadis US Inc.

Project/Site: Ford LTP

Analysis Batch: 636481

Dibromofluoromethane (Surr)

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

MS MS Surrogate

%Recovery Qualifier Limits 99 73 - 120

Lab Sample ID: 240-215294-B-2 MSD

Matrix: Water

Analysis Batch: 636481

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

MSD MSD %Rec RPD Sample Sample Spike RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Limit 1,1-Dichloroethene 1.0 U 20.0 21.6 ug/L 108 56 - 135 20 26 cis-1,2-Dichloroethene 1.0 U F2 *+ 20.0 23.2 F2 116 66 - 128 ug/L 21 14 Tetrachloroethene 1.0 U 20.0 21.2 ug/L 106 62 _ 131 15 20 trans-1,2-Dichloroethene 1.0 UF2 20.0 21.3 F2 ug/L 107 56 - 136 19 15 Trichloroethene 1.0 U F2 *+ 20.0 22.8 F2 ug/L 114 61 - 124 19 15 Vinyl chloride 1.0 U F2 20.0 25.6 F2 ug/L 128 43 - 157 27 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: MB 240-636483/7 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 636483

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1.0 U 1.0 1,1-Dichloroethene 0.49 ug/L 11/23/24 16:51 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/23/24 16:51 1.0 U Tetrachloroethene 0.44 ug/L 11/23/24 16:51 1.0 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/23/24 16:51 Trichloroethene 1.0 U 1.0 11/23/24 16:51 0.44 ug/L Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/23/24 16:51

MB MB

Surrogate	%Recovery Qua	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120	62 - 137		11/23/24 16:51	1
4-Bromofluorobenzene (Surr)	87	56 ₋ 136		11/23/24 16:51	1
Toluene-d8 (Surr)	98	78 - 122		11/23/24 16:51	1
Dibromofluoromethane (Surr)	106	73 - 120		11/23/24 16:51	1

Lab Sample ID: LCS 240-636483/4 **Client Sample ID: Lab Control Sample Matrix: Water**

Analysis Batch: 636483

Spil	ke LCS	LCS		%Rec
Analyte Adde	ed Result	Qualifier Unit	D %Rec	Limits
1,1-Dichloroethene 25	.0 25.4	ug/L	102	63 - 134
cis-1,2-Dichloroethene 25	.0 24.9	ug/L	100	77 - 123
Tetrachloroethene 25	.0 25.3	ug/L	101	76 - 123
trans-1,2-Dichloroethene 25	.0 25.6	ug/L	102	75 - 124
Trichloroethene 25	.0 23.5	ug/L	94	70 - 122

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Prep Type: Total/NA

Client: Arcadis US Inc. Job ID: 240-215290-1

Project/Site: Ford LTP

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

Lab Sample ID: LCS 240-636483/4

Matrix: Water

Analysis Batch: 636483

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Vinyl chloride	12.5	13.6		ug/L		109	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

Lab Sample ID: 240-215290-2 MS

Matrix: Water

Analysis Batch: 636483

IS					Client Sample ID: MW-49_111824 Prep Type: Total/NA	1
Sampl	e Sample	Spike	MS	MS	%Rec	

									,	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	2500	U	62500	63500		ug/L		102	56 - 135	
cis-1,2-Dichloroethene	52000		62500	111000		ug/L		94	66 - 128	
Tetrachloroethene	2500	U	62500	61600		ug/L		99	62 _ 131	
trans-1,2-Dichloroethene	2500	U	62500	65500		ug/L		105	56 - 136	
Trichloroethene	2500	U	62500	57000		ug/L		91	61 - 124	
Vinyl chloride	12000		31300	45700		ug/L		109	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Analysis Batch: 636483

Lab Sample ID: 240-215290-2 MSD	Client Sample ID: MW-49_111824
Matrix: Water	Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	2500	U	62500	61900		ug/L		99	56 - 135	3	26
cis-1,2-Dichloroethene	52000		62500	110000		ug/L		94	66 - 128	0	14
Tetrachloroethene	2500	U	62500	60500		ug/L		97	62 - 131	2	20
trans-1,2-Dichloroethene	2500	U	62500	62800		ug/L		100	56 - 136	4	15
Trichloroethene	2500	U	62500	54900		ug/L		88	61 - 124	4	15
Vinyl chloride	12000		31300	43800		ug/L		103	43 - 157	4	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		62 - 137
4-Bromofluorobenzene (Surr)	89		56 ₋ 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Eurofins Cleveland

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client: Arcadis US Inc. Job ID: 240-215290-1

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

Lab Sample ID: MB 240-636495/9

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 636495

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

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 11/24/24 11:48 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/24/24 11:48 1.0 U 1.0 0.44 ug/L 11/24/24 11:48 Tetrachloroethene trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/24/24 11:48 Trichloroethene 1.0 U 1.0 0.44 ug/L 11/24/24 11:48 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/24/24 11:48

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137		11/24/24 11:48	1
4-Bromofluorobenzene (Surr)	84		56 - 136		11/24/24 11:48	1
Toluene-d8 (Surr)	93		78 - 122		11/24/24 11:48	1
Dibromofluoromethane (Surr)	95		73 - 120		11/24/24 11:48	1

Lab Sample ID: LCS 240-636495/5

Matrix: Water

Analysis Batch: 636495

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	20.1		ug/L		101	63 - 134	
cis-1,2-Dichloroethene	20.0	20.9		ug/L		105	77 - 123	
Tetrachloroethene	20.0	20.6		ug/L		103	76 - 123	
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	75 - 124	
Trichloroethene	20.0	21.5		ug/L		108	70 - 122	
Vinyl chloride	20.0	19.2		ug/L		96	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	91		56 ₋ 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: 240-215140-C-4 MS

Matrix: Water

Analysis Batch: 636495

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	79		100	147		ug/L		67	56 - 135	
cis-1,2-Dichloroethene	18		100	108		ug/L		90	66 - 128	
Tetrachloroethene	2.4	J	100	87.0		ug/L		85	62 - 131	
trans-1,2-Dichloroethene	5.0	U	100	81.6		ug/L		82	56 - 136	
Trichloroethene	5.2		100	93.0		ug/L		88	61 - 124	
Vinyl chloride	5.0	U	100	101		ug/L		101	43 - 157	
•						•				

MS MS

Surrogate	%Recovery Qualif	ier Limits
1,2-Dichloroethane-d4 (Surr)	80	62 - 137
4-Bromofluorobenzene (Surr)	90	56 - 136
Toluene-d8 (Surr)	97	78 - 122

Eurofins Cleveland

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Job ID: 240-215290-1

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

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

Lab Sample ID: 240-215140-C-4 MS

Matrix: Water

Analysis Batch: 636495

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

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 93 73 - 120

Lab Sample ID: 240-215140-C-4 MSD

Matrix: Water

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 636495

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	79		100	156		ug/L		77	56 - 135	6	26
cis-1,2-Dichloroethene	18		100	115		ug/L		98	66 - 128	6	14
Tetrachloroethene	2.4	J	100	97.8		ug/L		95	62 - 131	12	20
trans-1,2-Dichloroethene	5.0	U	100	89.7		ug/L		90	56 - 136	9	15
Trichloroethene	5.2		100	102		ug/L		97	61 - 124	9	15
Vinyl chloride	5.0	U	100	101		ug/L		101	43 - 157	0	24

MSD MSD

мв мв

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

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

Lab Sample ID: MB 240-636646/8

Matrix: Water

Analysis Batch: 636646

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/25/24 13:26	1
	МВ	MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 97 68 - 127 11/25/24 13:26

Lab Sample ID: LCS 240-636646/6	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 636646	

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 8.93 ug/L 89 75 - 121

LCS LCS

2.0 U

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 102

Lab Sample ID: 240-215294-E-2 MS

1,4-Dioxane

Matrix: Water									Prep Type: Total/NA
Analysis Batch: 636646									
	Sample	Sample	Spike	MS	MS				%Rec
Analyta	Dogult	Qualifier	Addad	Dogult	Qualifier	Hoit	n	9/ Boo	Limita

7.45

ug/L

Client Sample ID: Matrix Spike

20 - 180

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11/27/2024

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-215290-1

Project/Site: Ford LTP

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		68 - 127

Lab Sample	ID: 240-2	15294-F-2	MSD
Lab Jailipie	1D. 240-2	13234-L-2	MIOL

Matrix: Water

Analysis Batch: 636646

Client Sample ID: Ma	atrix Spike Duplicate
	Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit %Rec 1,4-Dioxane 2.0 U 10.0 8.72 87 20 - 180 16 20 ug/L

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 95 68 - 127

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215290-1

GC/MS VOA

Analysis Batch: 636481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215290-3	MW-220S_111824	Total/NA	Water	8260D	
240-215290-4	MW-69_111824	Total/NA	Water	8260D	
240-215290-5	MW-64_111824	Total/NA	Water	8260D	
MB 240-636481/9	Method Blank	Total/NA	Water	8260D	
LCS 240-636481/5	Lab Control Sample	Total/NA	Water	8260D	
240-215294-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-215294-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 636483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215290-1	TRIP BLANK_107	Total/NA	Water	8260D	
240-215290-2	MW-49_111824	Total/NA	Water	8260D	
MB 240-636483/7	Method Blank	Total/NA	Water	8260D	
LCS 240-636483/4	Lab Control Sample	Total/NA	Water	8260D	
240-215290-2 MS	MW-49_111824	Total/NA	Water	8260D	
240-215290-2 MSD	MW-49_111824	Total/NA	Water	8260D	

Analysis Batch: 636495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215290-5	MW-64_111824	Total/NA	Water	8260D	
MB 240-636495/9	Method Blank	Total/NA	Water	8260D	
LCS 240-636495/5	Lab Control Sample	Total/NA	Water	8260D	
240-215140-C-4 MS	Matrix Spike	Total/NA	Water	8260D	
240-215140-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 636646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215290-2	MW-49_111824	Total/NA	Water	8260D SIM	
240-215290-3	MW-220S_111824	Total/NA	Water	8260D SIM	
240-215290-4	MW-69_111824	Total/NA	Water	8260D SIM	
240-215290-5	MW-64_111824	Total/NA	Water	8260D SIM	
MB 240-636646/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-636646/6	Lab Control Sample	Total/NA	Water	8260D SIM	
240-215294-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-215294-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Job ID: 240-215290-1

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

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-215290-1 Date Collected: 11/18/24 00:00

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 11/23/24 19:38 Total/NA Analysis 8260D 636483 CS EET CLE

Client Sample ID: MW-49 111824 Lab Sample ID: 240-215290-2

Date Collected: 11/18/24 10:40 **Matrix: Water**

Date Received: 11/20/24 08:00

Date Received: 11/20/24 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Factor Number Analyst or Analyzed Туре Run Lab 8260D 2500 CS EET CLE 11/23/24 23:58 Total/NA 636483 Analysis 8260D SIM 636646 R5XG EET CLE Total/NA Analysis 1 11/25/24 14:12

Client Sample ID: MW-220S 111824 Lab Sample ID: 240-215290-3

Date Collected: 11/18/24 09:20 **Matrix: Water**

Date Received: 11/20/24 08:00

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor **Number Analyst** or Analyzed Lab CS 11/23/24 21:31 8260D Total/NA Analysis 636481 EET CLE 11/25/24 14:36 Total/NA Analysis 8260D SIM 636646 R5XG EET CLE 1

Client Sample ID: MW-69 111824 Lab Sample ID: 240-215290-4

Date Collected: 11/18/24 12:45 **Matrix: Water**

Date Received: 11/20/24 08:00

Batch Batch Dilution Batch Prepared Method or Analyzed Factor **Prep Type** Type Run Number Analyst Lab 11/23/24 21:55 Total/NA 8260D 636481 CS Analysis EET CLE Total/NA 8260D SIM 636646 R5XG EET CLE 11/25/24 14:59 Analysis 1

Client Sample ID: MW-64 111824 Lab Sample ID: 240-215290-5

Date Collected: 11/18/24 14:05 **Matrix: Water**

Date Received: 11/20/24 08:00

		Batch	Batch		Dilution	Batch			Prepared
Pre	р Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Tota	al/NA	Analysis	8260D		1	636481	CS	EET CLE	11/23/24 22:19
Tota	al/NA	Analysis	8260D		1	636495	НМВ	EET CLE	11/24/24 14:10
Tota	al/NA	Analysis	8260D SIM		1	636646	R5XG	EET CLE	11/25/24 15:23

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215290-1

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
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 Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
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	08-31-25
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	12-31-24

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Chain of Custody Record

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

TestAmeri	ca
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Client Contact Company Name: Arcadis	Regulat	ory program:		□ DW	Г	NP1	DES		□ R	CRA	1	Othe	r										Т	stAmeri	ica Lab	oratori	es Inc
Company Name. Ar caus	Client Project N	Aanager: Kris	Hinskey		Si	te Con	tact:	Chri	istina V	'eaver				Lab C	ontac	t: Mil	e Del	Monic	0					C No:	ta Lat	OLATOLE	es, me.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-	-994-2240			Т.	elenho	ne: 24	18-99	4-2240		-		-	Telen	hone:	330-4	7-939	96		_			+				
City/State/Zip: Novi, M1, 48377														СССР		330-4								1 of		COC	s
Phone: 248-994-2240	Email: kristoffe	er.hinskey@arc	cadis.con	1		Ana	lysis i	I urn:	around	1 ime					_		A	nalys	es			$\overline{}$	For	lab use	only		
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Sample Identification	Sample Date	Sample Time	Air Aquenus	Sediment	Other:	HNO3	HC	NaOH	ZnAc/ NaOH Unnres	Other	Filter	Com	1.1-D	cis-1,2-DCE 8260D	Trans	PCE	TCE	Vinyl	1,4-D				\perp	Spec	ial Inst	ructions:	:
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Submit all results through Cadena at jtomalia@cadenaco.c Level IV Reporting requested.	om. Cadena #E	203728																									
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VOA Sample Preservation - Date/Time VOAs Frozen.
Sample(s) were further preserved in the laboratory Time preserved: Preservative(s) added/Lot number(s)
20. SAMPLE PRESERVATION
were received with bu
Sample(s)were received after the recommended holding time had expired. Sample(s) were received in a broken container
PLE CONDITION
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by
Concerning
Contacted PM Date by via Verbal Voice Mail Other
Was a LL Hg or Me Hg trip blank present? Yes
15 Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #
Were VOAs on the COC?
laboratory
Are these work share samples and all listed on the COC?
10 Were correct bottle(s) used for the test(s) indicated? 11 Sufficient quantity received to perform indicated analyses? Yes No.
For each sample, does the COC specify preservatives (MN), # of contamers (MN), a
7 Did all bottles arrive in good condition (Unbroken)? 7 Could all bottle labels (ID/Date/Time) be reconciled with the COC? 7 Over Yes No
Was/were the person(s) who collected the samples clearly identified on the COC?
5 Were the custody papers relinquished & signed in the appropriate place? Yes No
Yes Yes
(a)
Yes No NA
er/custody seals on the outside of the cooler(s)? If Yes Quantity Xe3 No
IR GUN# / (CF + O / °C) Observed Cooler Temp °C Corrected Cooler Temp °C
Blue Ice Dry Ice Water
Packing material used. Bubble Wrap Foam Plastic Bag None Other
Drop-off Date/Time
p UPS FAS Waypount
Received on 1-20-29 Opened on 1-20-29
Client Cooler unpacked by:
Eurofins — Cleycland Sample Receipt Form/Narrative Login # :

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Login #:

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		Multiple Cooler Form	nd Sample Receipt I	Eurofins - Clevela			

W1-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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MICHIGAN 190 T

Chain of Custody Record

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

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Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240					Celenh	one: 2	18.00	94-2240				_	Telepl	one: 3	30-49	7 0 3 0								
City/State/Zip: Novi, M1, 48377															reiepi	oue	,50-47								of 1	COCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.c	om		-	Al	шуна		around	Time		H				\neg	A	alys	es				For lab us	only	
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Euroffins—Cleveland Sample Receipt Form/Narrative Login#:
Cooler Received on 1-0-39 Onened on 11-20-39
aypoint Chent Drop Off E
Receipt After-hours Drop-off Date/Time Storage Location Eurofins Cooler # Foam Box Client Cooler Box Other
Foam Plastic Bag Dry Ice Water
°C) Observe
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No NA -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes NO Receiving:
Yes (No NA
Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC?
For each sample, does the COC specify preservatives (MN), # of containers (MN), a Were correct bottle(s) used for the test(s) indicated?
12. Are these work share samples and all listed on the COC? 15. The company of t
Yes Yes
15 Were aur bubbles >6 mm in any VOA vials? Larger than this. 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #
Contacted PM Date by via Verbal Voice Mail Other
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
19 SAMPLE CONDITION were received after the recommended holding time had expired. were received in a broken container
were received with bu
20 SAMPLE PRESERVATION
Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s)were further preserved in the laboratory
VOA Sample Preservation - Date/Time VOAs Frozen.

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	Eurofins - Cleveland Sample Receipt Multiple Cooler Form	Coolant (Circle)	Corrected Temp °C	Observed Temp °C	IR Gun # (Circle)	ription e)	oler Desc (Circle	Co

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

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DATA VERIFICATION REPORT



November 27, 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: 30206169.0401.04_WA-03

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

Laboratory submittal: 215290-1 Sample date: 2024-11-18

Report received by CADENA: 2024-11-27

Initial Data Verification completed by CADENA: 2024-11-27

Number of Samples:5 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 LCS recoveries were outliers biased high for the following analytes: CIS-1,2-DICHLOROETHENE and TRICHLOROETHENE. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

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, 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.

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: 215290-1

		•			_				_				MW-69_111824				MW-64_111824					
		Lab Sample ID:	•			2402152902				2402152903				2402152904				2402152905				
		Sample Date: 11/18/2024				11/18/2024				11/18/2024				11/18/2024				11/18/2024				
			Report \			Valid	lid Report			Valid	ilid Report			Valid Repo		Report	t Valid			Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																						
OSW-8260	<u>)D</u>																					
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	2500	ug/l		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		52000	2500	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		1.2	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	2500	ug/l		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	2500	ug/l		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	2500	ug/l		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		12000	2500	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		4.5	1.0	ug/l	
OSW-8260	<u>DDSIM</u>																					
	1,4-Dioxane	123-91-1					15	2.0	ug/l		ND	2.0	ug/l		8.0	2.0	ug/l		ND	2.0	ug/l	