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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/20/2024 12:13:44 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-214803-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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Authorization

Generated 11/20/2024 12:13:44 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-214803-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-214803-1

Project/Site: Ford LTP

Qualifiers

GC/MS	VOA
Qualifier	

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Qualifier Description

Glossary

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)
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)

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: 240-214803-1 Eurofins Cleveland

Job Narrative 240-214803-1

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 11/13/2024 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 1.4°C and 1.6°C.

GC/MS VOA

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

Eurofins Cleveland

Job ID: 240-214803-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214803-1

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

Protocol References:

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

Laboratory References:

EET 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: 240-214803-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-214803-1	TRIP BLANK_61	Water	11/11/24 00:00	11/13/24 08:00
240-214803-2	MW-55_111124	Water	11/11/24 10:55	11/13/24 08:00
240-214803-3	MW-55D_111124	Water	11/11/24 12:00	11/13/24 08:00
240-214803-4	MW-122_111124	Water	11/11/24 13:20	11/13/24 08:00
240-214803-5	MW-53_111124	Water	11/11/24 14:45	11/13/24 08:00

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Detection Summary

Client: Arcadis US Inc. Job ID: 240-214803-1

Client Sample ID: TRIP BLANK_61 Lab Sample ID: 240-214803-1

No Detections.

Project/Site: Ford LTP

Client Sample ID: MW-55_111124 Lab Sample ID: 240-214803-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
1,4-Dioxane	1.2 J	2.0	0.86 ug/L	1	8260D SIM	Total/NA

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
1,4-Dioxane	1.7 J	2.0	0.86 ug/L		8260D SIM	Total/NA

Client Sample ID: MW-122_111124 Lab Sample ID: 240-214803-4

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Vinyl chloride	2.9	1.0	0.45 ug/L	1 8260D	Total/NA

Client Sample ID: MW-53_111124 Lab Sample ID: 240-214803-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.92	J	2.0	0.86	ug/L	1	_	8260D SIM	Total/NA

11/20/2024

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Client: Arcadis US Inc. Job ID: 240-214803-1

Project/Site: Ford LTP

Date Received: 11/13/24 08:00

Dibromofluoromethane (Surr)

Client Sample ID: TRIP BLANK_61

Lab Sample ID: 240-214803-1 Date Collected: 11/11/24 00:00

Matrix: Water

11/18/24 22:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 11/18/24 22:09 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/18/24 22:09 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 11/18/24 22:09 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/18/24 22:09 Trichloroethene 1.0 U 1.0 0.44 ug/L 11/18/24 22:09 Vinyl chloride 0.45 ug/L 1.0 U 1.0 11/18/24 22:09 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 120 62 - 137 11/18/24 22:09 4-Bromofluorobenzene (Surr) 86 11/18/24 22:09 56 - 136 96 78 - 122 11/18/24 22:09 Toluene-d8 (Surr)

73 - 120

Client: Arcadis US Inc. Job ID: 240-214803-1

Project/Site: Ford LTP

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-55_111124

Date Collected: 11/11/24 10:55 Date Received: 11/13/24 08:00 Lab Sample ID: 240-214803-2

Prepared

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.2	J	2.0	0.86	ug/L			11/18/24 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			-		11/18/24 16:26	1
Method: SW846 8260D - Volat Analyte	•	ounds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL			<u>D</u> _	Prepared	·	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49	ug/L	<u>D</u> .	Prepared	11/18/24 22:29	Dil Fac
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U	1.0 1.0	0.49 0.46	ug/L ug/L	<u> </u>	Prepared	11/18/24 22:29 11/18/24 22:29	Dil Fac 1
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49 0.46	ug/L	<u> </u>	Prepared	11/18/24 22:29	Dil Fac 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u> -	Prepared	11/18/24 22:29 11/18/24 22:29	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	<u>D</u> .	Prepared	11/18/24 22:29 11/18/24 22:29 11/18/24 22:29	Dil Fac 1 1 1 1 1 1

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

114

75

89

102

3

6

8

9

11

12

Dil Fac

Analyzed

11/18/24 22:29

11/18/24 22:29

11/18/24 22:29

11/18/24 22:29

Client: Arcadis US Inc. Job ID: 240-214803-1

Project/Site: Ford LTP

Tetrachloroethene

Dibromofluoromethane (Surr)

Client Sample ID: MW-55D_111124

Lab Sample ID: 240-214803-3 Date Collected: 11/11/24 12:00

Matrix: Water

11/18/24 22:49

11/18/24 22:49

Method: SW846 8260D SIM - 1	Volatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7	J	2.0	0.86	ug/L			11/18/24 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127					11/18/24 16:49	1
- Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	C/MS						
Method. 511040 0200D - Volat						_		A I	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result 1.0		RL	MDL 0.49		D	Prepared	11/18/24 22:49	Dil Fac

trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		11/18/24 22:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		11/18/24 22:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		11/18/24 22:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137				11/18/24 22:49	1
4-Bromofluorobenzene (Surr)	80		56 ₋ 136				11/18/24 22:49	1
Toluene-d8 (Surr)	92		78 - 122				11/18/24 22:49	1

73 - 120

1.0

0.44 ug/L

1.0 U

Client: Arcadis US Inc. Job ID: 240-214803-1

Project/Site: Ford LTP

Date Received: 11/13/24 08:00

Client Sample ID: MW-122_111124

Lab Sample ID: 240-214803-4 Date Collected: 11/11/24 13:20

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			11/18/24 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		11/18/24 17:13	1
Method: SW846 8260D - Volati	ile 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			11/18/24 23:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/24 23:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 23:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/24 23:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 23:09	1
Vinyl chloride	2.9		1.0	0.45	ug/L			11/18/24 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		62 - 137			_		11/18/24 23:09	1
4-Bromofluorobenzene (Surr)	81		56 - 136					11/18/24 23:09	1
Toluene-d8 (Surr)	96		78 - 122					11/18/24 23:09	1
Dibromofluoromethane (Surr)	110		73 - 120					11/18/24 23:09	1

11/20/2024

Client: Arcadis US Inc. Job ID: 240-214803-1

Project/Site: Ford LTP

Client Sample ID: MW-53_111124

120

77

92

106

Lab Sample ID: 240-214803-5 Date Collected: 11/11/24 14:45

Matrix: Water

11/18/24 23:29

11/18/24 23:29

11/18/24 23:29

11/18/24 23:29

Date Received: 11/13/24 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.92	J	2.0	0.86	ug/L			11/18/24 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		11/18/24 17:36	1
- Method: SW846 8260D - Volat	tile 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			11/18/24 23:29	1
1,1-Dichloroethene cis-1,2-Dichloroethene	1.0 1.0		1.0 1.0	0.49 0.46	J			11/18/24 23:29 11/18/24 23:29	1 1
*		U		0.46	J				1 1 1
cis-1,2-Dichloroethene	1.0	U U	1.0	0.46	ug/L ug/L			11/18/24 23:29	1 1 1 1
cis-1,2-Dichloroethene Tetrachloroethene	1.0 1.0	U U	1.0 1.0	0.46 0.44 0.51	ug/L ug/L			11/18/24 23:29 11/18/24 23:29	1 1 1 1
cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene	1.0 1.0 1.0	U U U	1.0 1.0 1.0	0.46 0.44 0.51	ug/L ug/L ug/L ug/L			11/18/24 23:29 11/18/24 23:29 11/18/24 23:29	1 1 1 1 1 1

62 - 137

56 - 136

78 - 122

73 - 120

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Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-214803-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recove		
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-214800-B-2 MS	Matrix Spike	107	94	94	97	
240-214800-E-2 MSD	Matrix Spike Duplicate	106	91	91	94	
240-214803-1	TRIP BLANK_61	120	86	96	107	
240-214803-2	MW-55_111124	114	75	89	102	
240-214803-3	MW-55D_111124	117	80	92	103	
240-214803-4	MW-122_111124	124	81	96	110	
240-214803-5	MW-53_111124	120	77	92	106	
LCS 240-635744/4	Lab Control Sample	106	88	94	99	
MB 240-635744/7	Method Blank	116	89	97	104	

Surrogate Legend

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)	
240-214803-2	MW-55_111124	103	
240-214803-3	MW-55D_111124	103	
240-214803-4	MW-122_111124	104	
240-214803-5	MW-53_111124	108	
240-214803-5 MS	MW-53_111124	104	
240-214803-5 MSD	MW-53_111124	105	
LCS 240-635649/5	Lab Control Sample	105	
MB 240-635649/7	Method Blank	103	

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

Client: Arcadis US Inc. Job ID: 240-214803-1

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

Lab Sample ID: MB 240-635744/7

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 635744

Client Sa	mple ID:	Meth	od Blank
	Prep '	Type:	Total/NA

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/18/24 20:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/24 20:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 20:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/24 20:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 20:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/24 20:49	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 11/18/24 20:49 116 4-Bromofluorobenzene (Surr) 89 56 - 136 11/18/24 20:49 11/18/24 20:49 Toluene-d8 (Surr) 97 78 - 122 Dibromofluoromethane (Surr) 104 73 - 120 11/18/24 20:49

Lab Sample ID: LCS 240-635744/4

Matrix: Water

Analysis Batch: 635744

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	25.0	29.8		ug/L		119	63 - 134	
	cis-1,2-Dichloroethene	25.0	27.6		ug/L		110	77 - 123	
	Tetrachloroethene	25.0	26.3		ug/L		105	76 - 123	
	trans-1,2-Dichloroethene	25.0	29.4		ug/L		118	75 - 124	
	Trichloroethene	25.0	25.6		ug/L		102	70 - 122	
	Vinyl chloride	12.5	9.80		ug/L		78	60 - 144	
Н									

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 106 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 88 Toluene-d8 (Surr) 94 78 - 122 73 - 120 Dibromofluoromethane (Surr) 99

Analysis Batch: 635744

Lab Sample ID: 240-214800-B-2 MS Client Sample ID: Matrix Spike **Matrix: Water** 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	25.0	25.8		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	24.5		ug/L		98	66 - 128	
Tetrachloroethene	1.0	U	25.0	23.7		ug/L		95	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	25.6		ug/L		102	56 - 136	
Trichloroethene	1.0	U	25.0	22.7		ug/L		91	61 - 124	
Vinyl chloride	1.0	U	12.5	9.28		ug/L		74	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	94		78 - 122

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Job ID: 240-214803-1

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

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

Lab Sample ID: 240-214800-B-2 MS **Matrix: Water**

Analysis Batch: 635744

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Lab Sample ID: 240-214800-E-2 MSD

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 97 73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 635744

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	26.0		ug/L		104	56 - 135	1	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.7		ug/L		99	66 - 128	1	14
Tetrachloroethene	1.0	U	25.0	22.4		ug/L		90	62 - 131	6	20
trans-1,2-Dichloroethene	1.0	U	25.0	25.3		ug/L		101	56 - 136	1	15
Trichloroethene	1.0	U	25.0	22.4		ug/L		89	61 - 124	1	15
Vinyl chloride	1.0	U	12.5	9.60		ug/L		77	43 - 157	3	24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	91		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

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

Lab Sample ID: MB 240-635649/7

Matrix: Water

Analysis Batch: 635649

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/18/24 11:21 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 103 68 - 127 11/18/24 11:21

Lab Sample ID: LCS 240-635649/5

Matrix: Water			Prep Type: Total/NA
Analysis Batch: 635649			
	Spike	LCS LCS	%Rec

Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 8.34 ug/L 75 - 121

LCS LCS %Recovery Qualifier

Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 105

Lab Sample ID: 240-214803-5 MS Client Sample ID: MW-53 111124

Matrix: Water

Analysis Batch: 635649

Analysis Batom 600040									
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	0.92	J	10.0	9.85		ua/L		89	20 - 180

Eurofins Cleveland

Prep Type: Total/NA

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-214803-1

> MSD MSD Result Qualifier

> > 8.91

Unit

ug/L

Project/Site: Ford LTP Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		68 - 127

_				
Lab Sample	ID:	240-21	4803-5	MSD

Matrix: Water

Analysis Batch: 635649

	Sample	Sample	Spike
Analyte	Result	Qualifier	Added
1,4-Dioxane	0.92	J	10.0
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		68 - 127

Client Sample ID: MW-53_111124

Prep Type: Total/NA

RPD Limits RPD Limit %Rec

80 20 - 180 20 10

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214803-1

GC/MS VOA

Analysis Batch: 635649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214803-2	MW-55_111124	Total/NA	Water	8260D SIM	
240-214803-3	MW-55D_111124	Total/NA	Water	8260D SIM	
240-214803-4	MW-122_111124	Total/NA	Water	8260D SIM	
240-214803-5	MW-53_111124	Total/NA	Water	8260D SIM	
MB 240-635649/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-635649/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-214803-5 MS	MW-53_111124	Total/NA	Water	8260D SIM	
240-214803-5 MSD	MW-53_111124	Total/NA	Water	8260D SIM	

Analysis Batch: 635744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
240-214803-1	TRIP BLANK_61	Total/NA	Water	8260D	<u> </u>
240-214803-2	MW-55_111124	Total/NA	Water	8260D	
240-214803-3	MW-55D_111124	Total/NA	Water	8260D	
240-214803-4	MW-122_111124	Total/NA	Water	8260D	
240-214803-5	MW-53_111124	Total/NA	Water	8260D	
MB 240-635744/7	Method Blank	Total/NA	Water	8260D	
LCS 240-635744/4	Lab Control Sample	Total/NA	Water	8260D	
240-214800-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-214800-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Job ID: 240-214803-1

Client: Arcadis US Inc.

Project/Site: Ford LTP

Lab Sample ID: 240-214803-1

Matrix: Water

Date Received: 11/13/24 08:00 Ratch Dilution Batch

	Datcii	Datcii		Dilution	Daten			Frepareu
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	635744	LEE	EET CLE	11/18/24 22:09

Client Sample ID: MW-55_111124 Lab Sample ID: 240-214803-2

Date Collected: 11/11/24 10:55 **Matrix: Water**

Date Received: 11/13/24 08:00

Date Collected: 11/11/24 00:00

Client Sample ID: TRIP BLANK_61

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	635744	LEE	EET CLE	11/18/24 22:29
Total/NA	Analysis	8260D SIM		1	635649	R5XG	EET CLE	11/18/24 16:26

Lab Sample ID: 240-214803-3 Client Sample ID: MW-55D_111124

Date Collected: 11/11/24 12:00 **Matrix: Water**

Date Received: 11/13/24 08:00

Batch Batch Dilution Batch Prepared Factor Prep Type Туре Method Run **Number Analyst** or Analyzed Lab 11/18/24 22:49 8260D Total/NA Analysis 635744 LEE EET CLE 11/18/24 16:49 Total/NA Analysis 8260D SIM 635649 R5XG EET CLE 1

Client Sample ID: MW-122_111124 Lab Sample ID: 240-214803-4

Date Collected: 11/11/24 13:20 **Matrix: Water**

Date Received: 11/13/24 08:00

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	635744	LEE	EET CLE	11/18/24 23:09
Total/NA	Analysis	8260D SIM		1	635649	R5XG	EET CLE	11/18/24 17:13

Client Sample ID: MW-53_111124 Lab Sample ID: 240-214803-5

Date Collected: 11/11/24 14:45 **Matrix: Water**

Date Received: 11/13/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			635744	LEE	EET CLE	11/18/24 23:29
Total/NA	Analysis	8260D SIM		1	635649	R5XG	EET CLE	11/18/24 17:36

Laboratory References:

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

Eurofins Cleveland

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Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214803-1

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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Eurofins Cleveland



Chain of Custody Record

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<u>TestAmerica</u>

ompany Name: Arcadis			:		DW			NPD	ES		K	CRA		Othe	r												
															- 1											America La	boratories,
Idress: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinsk	æy			Site (Cont	act: C	hris	tina V	Veaver				Lab (Contac	ct: Mil	ke Del	Monic	0				COC	No:	
MICSS. 20000 Cattot Di IVE, Suite 500	Telephone: 248	-994-2240			-		Teler	hone	c: 248	-994	I-2240	_				Telen	hone:	330-4	97-93	96					_		
ty/State/Zip: Novi, MI, 48377																,										1 of 1	COCs
one: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	com				Lasty	315 I 1		round	Time	-		_	_		_	A	nalys	es				For I	b use only	
oac. 243-774-2240	Sampler Name		_				TAT	if diffe	rent fro	m bel	low	T	-1												Walk	in client	-
oject Name: Ford LTP	Garrett						Ī		- [3	week																BRIDE
oject Number: 30206169,0401,03	Method of Ship	ment/Carrier					10	day			week week										5				Lab:	ampling	
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		i		M	atrix			Cont	niners	& P	reserva	tives	- B	Ŷ	260[E 82	SCE		_	ge	e 82				100		
			П	٦.			П	\neg		Т	Т	T	78	it e	1,1-DCE 8260D	cis-1,2-DCE	1.2.1	PCE 8260D	8260D	ջ	xau						
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Sample Identification	Sample Date	Sample Time	į	y Ag	Sol	ĕ	E	É	DH (2	ž	ਣ	F	ပိ	=	cis	Tre	PC	TCE	>	1.4						
TRIP BLANK_ 61				1					1				N	G	Х	Х	Х	Х	Х	Х					1	Trip Blar	nk
NW-55_111124	11/11/24	1055	П	6	П		П		6	\top	T	Т	N	(A	×	×	×	X	×	×	¥				3	VOAs for	3260D
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Possible Hazard Identification							Sa	mple	Dispo	osal	(A fe	may be	: auseus	ed if	sample	5.2	24	10-21	4803	CO	nth	_			—		
Non-Hazard l'ammable gir	n Irritant Poiso	n B	Jnkı	nown					eturn				Dispos									nths					

nd Sample Receipt Form/Narrative
Client Arrano Cooler unpacked by
Received on 1111312H
UPS FAS Waypoint Client Drop Off E
Eurofins Cooler # C Foam Box Client Cooler Box Other
Foam Plastic Bag Dry Ice Water
pt TO () Observed Cooler Temp Of Corrected Cooler Temp
TK GOTA W. T. T. (Ct. 15 t. 7 c) Coset sen Content Temb
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity (25) No -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No Tests that are not checked for pH by
-Were tamper/custody seals intact and uncompromised?
Were the custody papers relinquished & signed in the appropriate place? (Yes) No
For each sample, does the COC specify preservatives (Q/N), # of containers (Q/N), as
11 Sufficient quantity received to perform indicated analyses? (Es) No
If yes, Questions 13-17 have been checked at the originating laboratory Yes, No. (NA)
Were VOAs on the COC? Were air hubbles >6 mm in any VOA vials? I arger than this The Coc NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 05214 Yes No 17 Was a LL Hg or Me Hg trip blank present? Yes No
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
PLE CONDITION were received after the recon
Sample(s) were received with bubble >6 mm in diameter (Notify PM)
20. SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory
VOA Sample Preservation - Date/Time VOAs Frozen.

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Total Comment Comment	☐ See Ten					
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Coolant (Circle)	IR Gun # Observed Corrected (Circle) Temp °C Temp °C	Observed Temp °C	IR Gun # (Circle)	Cooler Description (Circle)	Cooler Do	

WI-NC-899 Cooler Receipt Form Page 2 Multiple Coolers

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11/20/2024

DATA VERIFICATION REPORT



November 20, 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: 214803-1 Sample date: 2024-11-11

Report received by CADENA: 2024-11-20

Initial Data Verification completed by CADENA: 2024-11-20

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.

There were no significant QC anomalies or exceptions to report.

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI $48108\ 517\text{-}819\text{-}0356$

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: 214803-1

		Sample Name: Lab Sample ID:	240214	8031			MW-55_ 240214	8032			MW-55[240214	8033	24		MW-122 240214	8034	4		MW-53_ 240214	8035		
		Sample Date:	11/11/2				11/11/2				11/11/2				11/11/2				11/11/2			
				Report		Valid		Report		Valid		Report		Valid		Report		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	חח																					
0311-0200		75.05.4	ND	1.0	/1		ND	1.0	/1		ND	1.0	/1		ND	1.0	/1		ND	1.0	/1	
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	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		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		2.9	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>DDSIM</u>																					
	1,4-Dioxane	123-91-1					1.2	2.0	ug/l	J	1.7	2.0	ug/l	J	ND	2.0	ug/l		0.92	2.0	ug/l	J