PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204298-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

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Job Notes

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Authorization

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

Laboratory Job ID: 240-204298-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-204298-1

Project/Site: Ford LTP

Qualifiers
GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

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)

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 U.S., Inc. Project: Ford LTP

Job ID: 240-204298-1 Eurofins Cleveland

Job Narrative 240-204298-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/11/2024 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 3.6°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 240-613533 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TRIP BLANK 59 (240-204298-1).

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

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Job ID: 240-204298-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204298-1

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 U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204298-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204298-1	TRIP BLANK_59	Water	05/09/24 00:00	05/11/24 08:00
240-204298-2	MW-157S_050924	Water	05/09/24 15:58	05/11/24 08:00

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204298-1

Client Sample ID: TRIP BLANK_59

Lab Sample ID: 240-204298-1

No Detections.

Client Sample ID: MW-157S_050924 Lab Sample ID: 240-204298-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204298-1

Project/Site: Ford LTP

Date Received: 05/11/24 08:00

Client Sample ID: TRIP BLANK_59

Lab Sample ID: 240-204298-1 Date Collected: 05/09/24 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			05/18/24 12:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 12:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 12:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 12:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 12:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137			-		05/18/24 12:55	1
4-Bromofluorobenzene (Surr)	93		56 ₋ 136					05/18/24 12:55	1
Toluene-d8 (Surr)	93		78 - 122					05/18/24 12:55	1
Dibromofluoromethane (Surr)	107		73 - 120					05/18/24 12:55	1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204298-1

Project/Site: Ford LTP

Client Sample ID: MW-157S_050924

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Date Collected: 05/09/24 15:58
Date Received: 05/11/24 08:00

Matrix: Water

Lab Sample ID: 240-204298-2

Method: SW846 8260D SIM - V	olatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/24 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			_		05/15/24 12:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/15/24 13:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/24 13:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/24 13:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/24 13:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/24 13:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/15/24 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		62 - 137			_		05/15/24 13:05	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136					05/15/24 13:05	1
Toluene-d8 (Surr)	100		78 - 122					05/15/24 13:05	1
Dibromofluoromethane (Surr)	105		73 - 120					05/15/24 13:05	1

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-204298-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-204028-C-3 MS	Matrix Spike		108	105	104
240-204028-C-3 MSD	Matrix Spike Duplicate	108	107	103	102
240-204161-B-3 MS	Matrix Spike	110	102	97	103
240-204161-B-3 MSD	Matrix Spike Duplicate	107	104	96	101
240-204298-1	TRIP BLANK_59	118	93	93	107
240-204298-2	MW-157S_050924	120	89	100	105
LCS 240-613062/4	Lab Control Sample	109	107	102	102
LCS 240-613533/5	Lab Control Sample	109	104	101	101
MB 240-613062/6	Method Blank	116	90	100	103
MB 240-613533/10	Method Blank	115	95	95	105

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)	
240-204203-C-1 MS	Matrix Spike	109	
240-204203-C-1 MSD	Matrix Spike Duplicate	111	
240-204298-2	MW-157S_050924	103	
LCS 240-613063/4	Lab Control Sample	103	
MB 240-613063/6	Method Blank	108	
Surrogate Legend			

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Client: Arcadis U.S., Inc. Job ID: 240-204298-1

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

Lab Sample ID: MB 240-613062/6

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 613062

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/15/24 10:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/24 10:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/24 10:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/24 10:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/24 10:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/15/24 10:10	1

MB MB Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 05/15/24 10:10 116 4-Bromofluorobenzene (Surr) 90 56 - 136 05/15/24 10:10 Toluene-d8 (Surr) 100 78 - 122 05/15/24 10:10 Dibromofluoromethane (Surr) 103 73 - 120 05/15/24 10:10

Lab Sample ID: LCS 240-613062/4

Matrix: Water

Analysis Batch: 613062

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	26.7		ug/L		107	63 - 134	
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	77 - 123	
Tetrachloroethene	25.0	25.7		ug/L		103	76 - 123	
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	75 - 124	
Trichloroethene	25.0	25.3		ug/L		101	70 - 122	
Vinyl chloride	12.5	11.3		ug/L		90	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		62 _ 137
4-Bromofluorobenzene (Surr)	107		56 ₋ 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Analysis Batch: 613062

Lab Sample ID: 240-204028-C-3 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	0.70	J	25.0	25.2		ug/L		98	56 - 135		

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

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Client: Arcadis U.S., Inc. Job ID: 240-204298-1

Project/Site: Ford LTP

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

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

Matrix: Water

Analysis Batch: 613062

Lab Sample ID: 240-204028-C-3 MSD

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	0.70	J	25.0	26.1		ug/L		102	56 - 135	4	26

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		62 - 137
4-Bromofluorobenzene (Surr)	107		56 ₋ 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: MB 240-613533/10 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613533

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 10:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 10:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 10:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 10:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 10:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 10:42	1

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115	62 - 137		05/18/24 10:42	1
4-Bromofluorobenzene (Surr)	95	56 - 136		05/18/24 10:42	1
Toluene-d8 (Surr)	95	78 - 122		05/18/24 10:42	1
Dibromofluoromethane (Surr)	105	73 - 120		05/18/24 10:42	1

Lab Sample ID: LCS 240-613533/5

Matrix: Water

Analysis Batch: 613533

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	25.5		ug/L		102	63 - 134	
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	77 - 123	
Tetrachloroethene	25.0	25.8		ug/L		103	76 - 123	
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	75 - 124	
Trichloroethene	25.0	25.4		ug/L		102	70 - 122	
Vinyl chloride	25.0	26.5		ug/L		106	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			
4-Bromofluorobenzene (Surr)	104		56 ₋ 136			
Toluene-d8 (Surr)	101		78 - 122			
Dibromofluoromethane (Surr)	101		73 - 120			

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Client: Arcadis U.S., Inc. Job ID: 240-204298-1

Project/Site: Ford LTP

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

Lab	Sampl	e ID:	240-2041	161-B-3 MS
Lub	Cumpi	C ID.		OI-D-O INO

Mat

Analy

ab Sample ID: 240-204161-B-3 MS	Client Sample ID: Matrix Spike
atrix: Water	Prep Type: Total/NA
nalvsis Batch: 613533	

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	25.0	24.5		ug/L		98	56 - 135	
cis-1,2-Dichloroethene	2.5		25.0	26.8		ug/L		97	66 - 128	
Tetrachloroethene	1.0	U	25.0	23.5		ug/L		94	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	24.2		ug/L		97	56 - 136	
Trichloroethene	34		25.0	56.1		ug/L		90	61 - 124	
Vinyl chloride	1.0	U	25.0	24.6		ug/L		99	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

Lab Sample ID: 240-204161-B-3 MSD

Matrix: Water

Analysis Batch: 613533

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

ı	7											
		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	24.0		ug/L		96	56 - 135	2	26
	cis-1,2-Dichloroethene	2.5		25.0	25.1		ug/L		91	66 - 128	7	14
	Tetrachloroethene	1.0	U	25.0	22.4		ug/L		90	62 - 131	5	20
I	trans-1,2-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	56 - 136	6	15
	Trichloroethene	34		25.0	53.8		ug/L		80	61 - 124	4	15
	Vinyl chloride	1.0	U	25.0	24.9		ug/L		100	43 - 157	1	24

1,2-Dichloroethane-d4 (Surr)	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 _ 137
4-Bromofluorobenzene (Surr)	104		56 ₋ 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

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

Lab Sample ID: MB 240-613063/6	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 613063									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/24 10:06	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		05/15/24 10:06	1

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204298-1

Project/Site: Ford LTP

Lab Sample ID: LCS 240-613063/4

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

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

Prep Type: Total/NA

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Matrix: Water Analysis Batch: 613063

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits 1,4-Dioxane 10.0 9.17 ug/L 92 75 - 121

LCS LCS

Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 103

Lab Sample ID: 240-204203-C-1 MS Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 613063

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 1.1 J 10.0 10.5 ug/L 93 20 - 180

MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 109

Lab Sample ID: 240-204203-C-1 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613063

MSD MSD RPD Sample Sample Spike %Rec Result Qualifier Added Qualifier RPD Analyte Result Unit %Rec Limits Limit 1,4-Dioxane 1.1 J 10.0 10.4 ug/L 93 20 - 180 20

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 111 68 - 127

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QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204298-1

GC/MS VOA

Analysis Batch: 613062

Lab Sample ID 240-204298-2	Client Sample ID MW-157S_050924	Prep Type Total/NA	Matrix Water	Method Prep Batch 8260D
MB 240-613062/6	Method Blank	Total/NA	Water	8260D
LCS 240-613062/4	Lab Control Sample	Total/NA	Water	8260D
240-204028-C-3 MS	Matrix Spike	Total/NA	Water	8260D
240-204028-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D

Analysis Batch: 613063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204298-2	MW-157S_050924	Total/NA	Water	8260D SIM	- <u> </u>
MB 240-613063/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-613063/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-204203-C-1 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-204203-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 613533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204298-1	TRIP BLANK_59	Total/NA	Water	8260D	<u> </u>
MB 240-613533/10	Method Blank	Total/NA	Water	8260D	
LCS 240-613533/5	Lab Control Sample	Total/NA	Water	8260D	
240-204161-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-204161-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204298-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_59

Lab Sample ID: 240-204298-1 Date Collected: 05/09/24 00:00

Matrix: Water

Date Received: 05/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	613533	MDH	EET CLE	05/18/24 12:55

Client Sample ID: MW-157S_050924 Lab Sample ID: 240-204298-2

Date Collected: 05/09/24 15:58 Matrix: Water

Date Received: 05/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	613062	CDG	EET CLE	05/15/24 13:05
Total/NA	Analysis	8260D SIM		1	613063	MDH	EET CLE	05/15/24 12:50

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 U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204298-1

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				
Georgia	State	4062	02-27-25				
Illinois	NELAP	200004	07-31-24				
lowa	State	421	06-01-25				
Kentucky (WW)	State	KY98016	12-30-24				
Minnesota	NELAP	039-999-348	12-31-24				
New Jersey	NELAP	OH001	06-30-24				
New York	NELAP	10975	04-02-25				
Ohio VAP	State	ORELAP 4062	02-27-25				
Oregon	NELAP	4062	02-27-25				
Pennsylvania	NELAP	68-00340	08-31-24				
Texas	NELAP	T104704517-22-19	08-31-24				
USDA	US Federal Programs	P330-18-00281	01-05-27				
Virginia	NELAP	460175	09-14-24				
West Virginia DEP	State	210	12-31-24				

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Chain of Custody Record

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	TestAmerica Labora	itory location:	Brig	hton -	– 104	48 Citat	tion Dri	ive. S	Suite	200 /	Brigl	nton, MI	18116	/ 810	0-229-	2763							Ψ.	HE LEADER	IN ENVIRO	NMENT	AL TESTI	IG
Client Contact	Regulat	tory program:	:		_ D	W		NPI	DES		F 1	RCRA	-	Oth	er													
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ddress: 28550 Cabot Drive, Suite 500																										15	20	긱
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	VOA Sample Preservation Date/Time VOAs Frozen.
boratory	Sample(s)
	20 SAMPLE PRESERVATION
9	19 SAMPLE CONDITION Sample(s)
) 'Y'	18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES [additional next page Samples processed by
	Concerning
	Contacted PM Date by via Verbal Voice Mail Other
рН Stap Lo#НС439975	13 Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? 15 Were air bubbles >6 mm in any VOA vials? 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 17 Was a LL Hg or Mo Hg trip blank present? Yes No WA pH Strip L Yes No WA Yes No
	11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? Yes (No.) If yes, Questions 13-17 have been checked at the originating laboratory
	no COC? (X), # of containers (Y)(Y), and sa
	were the custody papers reiniquished or signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottles arrive in good condition (Unbroken)?
VOAs Oil and Grease TOC	Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? To the sample of t
Tests that are not checked for pH by Receiving	YES NO NA
	de of the cooler(s)? If Yes Quantity (Concected Cooler
60	perature upon receipt On 10 on 11 on 12 on 1900 Perature upon receipt
	And Hillie To Druge Water
	etgo-dero
ROYER	Received on S71-24 Opened on S-11-24 TAMMY
	Clent Arra XI Site Name Cooler unpacked by:
	Buroins Gleveland Sample Accelptinoum/Acceanve to the same of the
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5/11/2024

240-204298

Login Container Summary Report

MW-157S_050924 240-204298-F-2 Voa Vial 40ml - Hydrochloric Acid	MW-157S_050924 240-204298-E-2 Voa Vial 40ml - Hydrochloric Acid	MW-157S_050924 240-204298-D-2 Voa Vial 40ml - Hydrochloric Acid	MW-157S_050924 240-204298-C-2 Voa Vial 40ml - Hydrochloric Acid	MW-157S_050924 240-204298-B 2 Voa Vial 40ml - Hydrochloric Acid	MW-157S_050924 240-204298-A-2 Voa Vial 40ml - Hydrochloric Acıd	TRIP BLANK_59 240-204298-A-1 Voa Vial 40ml - Hydrochloric Acid	Chent Sample ID Lab ID Container Type pH Temp A	Temperature readings
c Acid	c Acid	c Acid	c Acid	c Acid	c Acid	c Acid	Container Preservation Preservation pH Temp Added Lot Number	

Page 1 of 1

DATA VERIFICATION REPORT



May 21, 2024

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

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.401.03

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

Laboratory submittal: 204298-1 Sample date: 2024-05-09

Report received by CADENA: 2024-05-20

Initial Data Verification completed by CADENA: 2024-05-20

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 CCV STANDARD response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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 http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description		
<	Less than the reported concentration.		
>	Greater than the reported concentration.		
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.		
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.		
EMPC Estimated Minimum Potential Contamination - Dioxin/Furan analyses only. 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. Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be			
J	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		
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: 204298-1

		Sample Name: TRIP BLAN Lab Sample ID: 24020429 Sample Date: 5/9/2024					2402042	MW-157S_050924 2402042982 5/9/2024			
				Report		Valid		Report		Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	
GC/MS VOC OSW-826	O D										
0011 020	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		
OSW-826	<u>ODSIM</u>										
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-204298-1

CADENA Verification Report: 2024-05-20

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54250R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204298-1 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	Analysis				
Sample 10	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM			
TRIP BLANK_59	240-204298-1	Water	05/09/2024		Х				
MW-157S_050924	240-204298-2	Water	05/09/2024		Х	X			

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compounds	Criteria
TRIP BLANK_59	Continuing Calibration Verification %D	Vinyl chloride	+20.7%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification		
	DDE 40.05	Non-detect	R		
Initial and Continuing Calibration RRF <0.05 Detect Non-detect Detect Non-detect Non-detect	J				
	DDE -0.041	Non-detect	R		
Calibration	KKF <0.01	Detect	J		
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Astion		
	KKF >0.00 01 KKF >0.01	Detect	No Action		

Initial/Continuing	Criteria	Sample Result	Qualification
	0/ DCD - 200/ or a paralation coefficient -0.00	Non-detect	UJ
Initial Calibration	%RSD > 20% or a correlation coefficient <0.99	Detect	J
Initial Calibration	0/ DOD 000/	Non-detect	R
	%RSD > 90%	Detect	J
	ND 000/ (1	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
	0/D 000/ / L : ::: ': ': ': \	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
		Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

DATA VALIDATION CHECKLIST FOR VOCs

Rep	orted			Not Required
No	Yes	No	Yes	- Required
C/MS)				
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х	Х		
	Х		Х	
	Х		Х	
X				Х
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	X		X	
	Х		Х	
	No C/MS)	X X X X X X X X X X X X X	Reported Acce No Yes No C/MS) X X X X X X X X X X X X X	No Yes No Yes

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BASHIME

DATE: June 10, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 12, 2024

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



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

Client Contact	Regulat	ory program:		_ D/	V	Γ.	NPDES	;	□ R	CRA	- C	ther											
Company Name: Arcadis	Client Project	Manager: Kris	Hinskey			Site (Contac	t: Chri	istina V	Veaver			La	b Conta	ct: Mi	ke Del	Monic			TestAmerica La	borator	1	
Address: 28550 Cabot Drive, Suite 500	Telephone: 248											\perp	Lab Contact: Mike DelMonico							15	120		
City/State/Zip: Novi. MI, 48377												Telephone: 330-497-9396						1 of 1	co	cs _			
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.cor	n		-	Analysi	s I urn	around	Lime	1 1	H	_		T	A	nalys	ses		For lab use only			
Project Name: Ford LTP	Sampler Name		_			TAT	if dillere		elow 3 week											Walk-in client		-	
Project Number: 30206169.0401.03		m Le				10	0 day	~	2 week	s								_		Lab sampling			
	Method of Ship	ment/Carrier:						Г	I week 2 days		2			8260D			0	SIA		1			
PO # US3410018772	Shipping/Truck	sing No:						Г	1 day		2	5 2	Sept	E 82			826	1280		Job/SDG No:			
				Matrix			Contail	ners & l	Preserv	itivo	Sam .	8260	20 H	20-3	9	8	oride	ane 8					
Sample Identification	Sample Date	Sample Time	Air	Sediment	Other:	H2SO4	HN03	NaOH	ZnAc NaOli	Other:	Hiered Sample (Y / N)	Composite C / Grab=G	rie-1 2-DCF 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8280D SIM		Sample Spec Special Ins			
TRIP BLANK_ 59			1			Ť	1					3 >			X	X	X			1 Trip Blar	nk		
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Possible Hazard Identification		D								e may be							ian 1						
Non-Hazard kammable cin Irrit pecial Instructions/QC Requirements & Comments:	ant Poiso		Jnknov				Re	turn to	Chent	,	Disposa	Ву	ID.		Archive	e eor I	_	Months					
ك ا Submit all results through Cadena at jtomalia@cadenac Level IV Reporting requested.			027	31																			
Relinquished by: Megan Lee Ylom Ul	Company:		Da O	te/Time: 9/09	124	17	30	Rece	eived by	Cold	97	tro	916			Comp	any:	dit		Date Time: OS (19/2)	+ r	130	
Relinquished by:	Company:		Da	te/Time:	,				ived by		11/		11/2	1		Com		- V V		Date Tint	F.A.		
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1 My Man	E	EEXA	2	5/10/	24			1		TA	MM	/ R	OY	FR		7	7,4	-TOC		Date time:	14 8	300	

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204298-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_59

Lab Sample ID: 240-204298-1 Date Collected: 05/09/24 00:00 **Matrix: Water**

Date Received: 05/11/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 12:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 12:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 12:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 12:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 12:55	1
Vinyl chloride	1.0	A NI	1.0	0.45	ug/L			05/18/24 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137			_		05/18/24 12:55	1
4-Bromofluorobenzene (Surr)	93		56 ₋ 136					05/18/24 12:55	1
Toluene-d8 (Surr)	93		78 - 122					05/18/24 12:55	1
Dibromofluoromethane (Surr)	107		73 - 120					05/18/24 12:55	1

Client Sample ID: MW-157S_050924 Lab Sample ID: 240-204298-2

Date Collected: 05/09/24 15:58 Date Received: 05/11/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) Result Qualifier MDL Unit Analyzed Dil Fac 1.4-Dioxane 2.0 U 2.0 0.86 ug/L 05/15/24 12:50

1,4-Dioxane	2.0	U	2.0	0.00	ug/L			03/13/24 12.30	'
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			_		05/15/24 12:50	1
- Method: SW846 8260D - Volati	le Organic Comp	ounds by G	GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/15/24 13:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/24 13:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/24 13:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/24 13:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/24 13:05	1
THORIOTOEUTETIC	1.0	-							

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120	62 - 137		05/15/24 13:05	1
4-Bromofluorobenzene (Surr)	89	56 - 136		05/15/24 13:05	1
Toluene-d8 (Surr)	100	78 - 122		05/15/24 13:05	1
Dibromofluoromethane (Surr)	105	73 - 120		05/15/24 13:05	1

Matrix: Water