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

240-204296-1

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: 240-204296-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-204296-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description

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.

Glossary

C.000	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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: 240-204296-1 Eurofins Cleveland

Job Narrative 240-204296-1

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 samples are impacted: TRIP BLANK_42 (240-204296-1) and MW-119S_050924 (240-204296-2).

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 U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204296-1

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: 240-204296-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204296-1	TRIP BLANK_42	Water	05/09/24 00:00	05/11/24 08:00
240-204296-2	MW-119S_050924	Water	05/09/24 08:56	05/11/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc. Job ID: 240-204296-1

Project/Site: Ford LTP

Lab Sample ID: 240-204296-1 Client Sample ID: TRIP BLANK_42

No Detections.

Client Sample ID: MW-119S_050924 Lab Sample ID: 240-204296-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Trichloroethene	0.47 J	1.0	0.44 ug/L	1	8260D	Total/NA

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204296-1

Project/Site: Ford LTP

Date Received: 05/11/24 08:00

Client Sample ID: TRIP BLANK_42

Lab Sample ID: 240-204296-1 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 12:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 12:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 12:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 12:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 12:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 12:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					05/18/24 12:17	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					05/18/24 12:17	1
Toluene-d8 (Surr)	94		78 - 122					05/18/24 12:17	1
Dibromofluoromethane (Surr)	108		73 - 120					05/18/24 12:17	1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204296-1

Project/Site: Ford LTP

Client Sample ID: MW-119S_050924

Lab Sample ID: 240-204296-2 Date Collected: 05/09/24 08:56

Matrix: Water

Date Received: 05/11/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/24 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 127			_		05/15/24 12:03	

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 15:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 15:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/20/24 19:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 15:46	1
Trichloroethene	0.47	J	1.0	0.44	ug/L			05/20/24 19:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 15:46	1

Surrogate	%Recovery Qualifier	Limits	Prepared Anal	yzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115	62 - 137	05/18/2	4 15:46	1
1,2-Dichloroethane-d4 (Surr)	114	62 - 137	05/20/2	4 19:20	1
4-Bromofluorobenzene (Surr)	91	56 - 136	05/18/2	4 15:46	1
4-Bromofluorobenzene (Surr)	89	56 - 136	05/20/2	4 19:20	1
Toluene-d8 (Surr)	94	78 - 122	05/18/2	4 15:46	1
Toluene-d8 (Surr)	99	78 - 122	05/20/2	4 19:20	1
Dibromofluoromethane (Surr)	106	73 - 120	05/18/2	4 15:46	1
Dibromofluoromethane (Surr)	104	73 - 120	05/20/2	4 19:20	1

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-204296-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rogate Recovery	(Acceptance Limits)
		DCA	BFB	TOL	DBFM	
_ab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-204161-B-3 MS	Matrix Spike	110	102	97	103	
40-204161-B-3 MSD	Matrix Spike Duplicate	107	104	96	101	
40-204296-1	TRIP BLANK_42	117	96	94	108	
240-204296-2	MW-119S_050924	115	91	94	106	
240-204296-2	MW-119S_050924	114	89	99	104	
.CS 240-613533/5	Lab Control Sample	109	104	101	101	
CS 240-613621/5	Lab Control Sample	111	108	102	102	
CSD 240-613621/6	Lab Control Sample Dup	110	106	101	104	
MB 240-613533/10	Method Blank	115	95	95	105	
MB 240-613621/11	Method Blank	118	92	95	110	

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)	
240-204203-C-1 MS	Matrix Spike	109	
240-204203-C-1 MSD	Matrix Spike Duplicate	111	
240-204296-2	MW-119S_050924	102	
LCS 240-613063/4	Lab Control Sample	103	
MB 240-613063/6	Method Blank	108	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

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Client: Arcadis U.S., Inc. Job ID: 240-204296-1

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

Lab Sample ID: MB 240-613533/10

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 613533

Client Sample ID: Method Blank

Prep Type: Total/NA

l		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
I	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
I	trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 10:42	1
I	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
ı										

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

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

Analysis Batch: 613533

Lab Sample ID: 240-204161-B-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	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

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Client: Arcadis U.S., Inc. Job ID: 240-204296-1

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

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 613533

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 103 73 - 120

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

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

Matrix: Water

Analysis Batch: 613533

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

Sample Sample MSD MSD %Rec RPD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U 25.0 24.0 ug/L 96 56 - 135 26 cis-1,2-Dichloroethene 2.5 25.0 25.1 91 66 - 128 ug/L 7 14 Tetrachloroethene 1.0 U 25.0 22.4 ug/L 90 62 - 131 20 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 15 Vinyl chloride 1.0 U 25.0 24.9 ug/L 100 43 - 157 24

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

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 613621

Matrix: Water

Lab Sample ID: MB 240-613621/11

	MB	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			05/20/24 13:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/20/24 13:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/20/24 13:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/20/24 13:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/20/24 13:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/20/24 13:15	1

MB MB

Surrogate	%Recovery	Qualifier Limi	's	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118	62 -	37		05/20/24 13:15	1
4-Bromofluorobenzene (Surr)	92	56 -	36		05/20/24 13:15	1
Toluene-d8 (Surr)	95	78 -	22		05/20/24 13:15	1
Dibromofluoromethane (Surr)	110	73 -	20		05/20/24 13:15	1

Lab Sample ID: LCS 240-613621/5

Matrix: Water

Analysis Batch: 613621

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	24.6		ug/L		98	63 - 134	
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	77 - 123	
Tetrachloroethene	25.0	26.9		ug/L		108	76 - 123	
trans-1,2-Dichloroethene	25.0	26.1		ug/L		105	75 - 124	
Trichloroethene	25.0	25.8		ug/L		103	70 - 122	

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Client: Arcadis U.S., Inc. Job ID: 240-204296-1

Project/Site: Ford LTP

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

Lab Sample ID: LCS 240-613621/5	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 613621

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Vinyl chloride	25.0	25.7		ug/L		103	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		62 _ 137
4-Bromofluorobenzene (Surr)	108		56 ₋ 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: LCSD 240-613621/6 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 613621

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	25.0	25.7		ug/L		103	63 - 134	5	35
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	77 - 123	3	35
Tetrachloroethene	25.0	25.8		ug/L		103	76 - 123	4	35
trans-1,2-Dichloroethene	25.0	25.4		ug/L		101	75 - 124	3	35
Trichloroethene	25.0	25.9		ug/L		104	70 - 122	1	35
Vinyl chloride	25.0	26.5		ua/l		106	60 144	3	35

	LCSD	LCSD		
Surrogate	%Recovery	Qualifier	Limits	
1,2-Dichloroethane-d4 (Surr)	110		62 - 137	
4-Bromofluorobenzene (Surr)	106		56 - 136	
Toluene-d8 (Surr)	101		78 - 122	
Dibromofluoromethane (Surr)	104		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

Lab Sample ID: LCS 240-613063/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 613063

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

1,4-Dioxane			10.0	9.17	ug/L	92	75 - 121
	LCS	LCS					
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	103		68 - 127	•			

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204296-1

Project/Site: Ford LTP

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

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

Analysis Batch: 613063

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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)	109		68 - 127

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

Analysis Batch: 613063

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	1.1	J	10.0	10.4		ug/L		93	20 - 180	0	20

1,4-Dioxane	1.1	J	10.0	10.4	ug/L	93	20 - 180	
	MSD	MSD						
Curromata	0/ Dagguerre	O 11:61	1 : :4					
Surrogate	%Recovery	Qualifier	Limits					
1,2-Dichloroethane-d4 (Surr)	70 Recovery	Quaimer	68 ₋ 127					

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204296-1

GC/MS VOA

Analysis Batch: 613063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204296-2	MW-119S_050924	Total/NA	Water	8260D SIM	
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 Batc
240-204296-1	TRIP BLANK_42	Total/NA	Water	8260D	<u> </u>
240-204296-2	MW-119S_050924	Total/NA	Water	8260D	
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	

Analysis Batch: 613621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204296-2	MW-119S_050924	Total/NA	Water	8260D	<u> </u>
MB 240-613621/11	Method Blank	Total/NA	Water	8260D	
LCS 240-613621/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 240-613621/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204296-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_42

Lab Sample ID: 240-204296-1 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 12:17

Client Sample ID: MW-119S_050924 Lab Sample ID: 240-204296-2

Date Collected: 05/09/24 08:56 Matrix: Water

Date Received: 05/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	613533	MDH	EET CLE	05/18/24 15:46
Total/NA	Analysis	8260D		1	613621	MDH	EET CLE	05/20/24 19:20
Total/NA	Analysis	8260D SIM		1	613063	MDH	EET CLE	05/15/24 12:03

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204296-1

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

TestAmerica

The Leader IN ENVIRONMENTAL TESTING

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

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Cadena #E	Client Project Manager: Kris Telephone: 248-994-2240 Email: kristoffer.hinskey@ard Sampler Name: Rebelcca Company/Carrier: Shipping/Tracking No: Sample Date Sample Time	Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.co Sampler Name: Rebecca Coshi Method of Shipment/Carrier: Shipping/Tracking No: Sample Date Sample Time = 519124 D850 Poison B John Poison B John Cadena #E203728 Company: Accadis D	Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Email: kristoffer.hinskey/@arcadis.com Sampler Name: Rebecca Costigat Method of Shipment/Carrier: Shipping/Tracking No: Sample Date Sample Time 1 519124 D850 6 Poison B Joknown 34 Boston Post Company: Arcadis Date Time Company: Arcadis Date Time Date Time Date Time Total Strip Date Time Date Ti	Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Email: kristoffer.hinskey/@arcadis.com Sampler Name: Rebecca Cosfigan Method of Shipment/Carrier: Shipping/Tracking No: Sample Date Sample Time	Client Project 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Date Date	Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.com Sampler Name: Rubbleca Costigan Method of Shipment/Carrier: Shipping/Tracking No: Tat if different from below 1 week 2 days Sample Date Sample Time Tat if different from below To day Tat if different from below 1 week 2 days To containers & Proserva Tat if different from below To day Tat if different from below To day The week Tat if different from below To day The week Tat if different from below To day The week Tat if different from below To week The week Tat if different from below To week The week Tat if different from below To week The week Tat if different from below To week The week Tat if different from below To week The week Tat if different from below To week The week Tat if different from below To week The week T	Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Email: kristoffer.hinskey/garcadis.com Sampler Name: Rubleca Costigan Method of 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	VOA Sample Preservation Date/Time VOAs Frozen.
	Sample(s) Preseryative(s) added/Lot number(s)
	20 SAMPLE PRESERVATION were further preserved in the laboratory
_1	19 SAMPLE CONDITION Note: I received after the recommended holding time had expired. Sample(s)
<u> </u>	
	18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES [I] additional next page Samples processed by
L	Concerning
	Contacted PM Date by, via Verbal Voice Mail Offier
	13 Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? 15 Were ar bubbles >6 mm in any VOA vials? 16 Was a VOA trip blank present? Trip Blank Lot # (N) -4 -4 (Y) No 17 Was a LL Hg or Me Hg trip blank present?
	11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? 13. 17 Leas have the comparison between the contractions of t
	Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (YM), # of containers (YM), and said the concept bottle(s) used for the test(s) indicated?
	Was/were the person(s) who collected the samples clearly identified on the COC? Was/were the person(s) who collected the samples clearly identified on the COC? Tes No Did all betties arrows in good condition (Tabroken)?
	Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Shippers' packing slip attached to the cooler(s)? Oil and Grease
	If Yes Quantity Yes No dated? (LLHgMcHg)? Yes You
	IR GUIN# (CF QO °C) Observed Cooler Temp 3.6 °C Corrected Cooler Temp 3.6 °C
	nal used. This Wise Foam Plasto Bag NT. Wet Ico Blue Ico Dry Ico Water
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5/11/2024

240-204296

Login Container Summary Report

Temperature readings			
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_42	240-204296-A-1	Voa Vial 40ml - Hydrochloric Acıd	
MW-119S_050924	240-204296-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-119S 050924	240-204296-B 2	Voa Vial 40ml - Hydrochloric Acid	
MW-119S_050924	240-204296-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-119S_050924	240-204296-D-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-119S_050924	240-204296-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-119S_050924	240-204296-F-2	Voa Vial 40ml - Hydrochloric Acıd	

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: 204296-1 Sample date: 2024-05-09

Report received by CADENA: 2024-05-21

Initial Data Verification completed by CADENA: 2024-05-21

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.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, LCS/LCD 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: 204296-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402042 5/9/2024	961			MW-119 2402042 5/9/2024	4		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		0.47	1.0	ug/l	J
	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 # 240-204296-1

CADENA Verification Report: 2024-05-21

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54687R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204296-1 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_42	240-204296-1	Water	05/09/2024		X			
MW-119S_050924	240-204296-2	Water	05/09/2024		X	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		Х		Х	
6. Sample collection date		Х		X	
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_42 MW-119S_050924	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		
	RRF <0.05	Non-detect	R		
	RRF <0.05	Detect	J		
Initial and Continuing	RRF <0.01 ¹	Non-detect	R		
Calibration	RRF <0.01	Detect	J		
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action		
	RRF >0.05 01 RRF >0.01	Detect	No Action		

Initial/Continuing	Criteria	Sample Result	Qualification
	0/ DCD - 200/ or a correlation 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
	0/D 000/ (; ; ; ; ; ;)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
	0/D 000/ / 1	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D 000// // // // // // // // // // // //	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.

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

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

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	
	X		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: July 1, 2024

PEER REVIEW: Andrew Korycinski

DATE: July 1, 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	Regula	tory program:			bw	Г	NPI	DES		RO	'RA		Othe	r														
Company Name: Areadis														ŀ											FestAmerica	a Laborat	ories, In	
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinskey	,		Site	e Con	tact: C	Christi	ina W	eaver				Lab (Contac	t: Mil	ke Del	Monic	0				K	COC No:		. 10	4 (
	Telephone: 248	3-994-2240				Tel	Telephone: 248-994-2240				Telep	hone:	330-4	97-939	6					F				٦,,				
City/State/Zip: Novi, MI, 48377	Email: kristoff	fer.hinskey@ar	cadis.co	m		-	Analysis Turnaround Time							A	nalys	ses	_			F	1 of For lab use on		OCs	1				
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Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid Other:	H2SO4	HNO3	IICI	NaOH	Inpres	Other:	Filtered Sample (Y / N)	Composite=C/Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					•	Specific N		
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204296-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_42

Lab Sample ID: 240-204296-1 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 12:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 12:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 12:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 12:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 12:17	1
Vinyl chloride	1.0	LO 🗡	1.0	0.45	ug/L			05/18/24 12:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137			_		05/18/24 12:17	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					05/18/24 12:17	1
Toluene-d8 (Surr)	94		78 - 122					05/18/24 12:17	1
Dibromofluoromethane (Surr)	108		73 - 120					05/18/24 12:17	1

Client Sample ID: MW-119S_050924

Date Collected: 05/09/24 08:56

Date Received: 05/11/24 08:00

Method: SW846 8260D SIM - Vo	latile Organic C	ompounds (G	C/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 12:03	1

Surrogate	%Recovery Qualif	ier Limits	Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	102	68 - 127		05/15/24 12:03	1

Method: SW846 8260D - Vol	atile Organic Compounds by GC/MS
Amalasta	D

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 15:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 15:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/20/24 19:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 15:46	1
Trichloroethene	0.47	J	1.0	0.44	ug/L			05/20/24 19:20	1
Vinyl chloride	1.0	p/N1	1.0	0.45	ug/L			05/18/24 15:46	1

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115	62 - 137		05/18/24 15:46	1
1,2-Dichloroethane-d4 (Surr)	114	62 - 137		05/20/24 19:20	1
4-Bromofluorobenzene (Surr)	91	56 - 136		05/18/24 15:46	1
4-Bromofluorobenzene (Surr)	89	56 - 136		05/20/24 19:20	1
Toluene-d8 (Surr)	94	78 - 122		05/18/24 15:46	1
Toluene-d8 (Surr)	99	78 - 122		05/20/24 19:20	1
Dibromofluoromethane (Surr)	106	73 - 120		05/18/24 15:46	1
Dibromofluoromethane (Surr)	104	73 - 120		05/20/24 19:20	1

Lab Sample ID: 240-204296-2

Matrix: Water