PREPARED FOR

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

Generated 3/15/2024 7:08:58 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200735-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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

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

Authorization

Generated 3/15/2024 7:08:58 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

A

_

1

9

10

11

12

Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200735-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

4

6

8

10

11

10

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200735-1

Project/Site: Ford LTP - Off Site

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

5

6

Q

10

12

13

Case Narrative

Client: Arcadis U.S., Inc. Project: Ford LTP - Off Site

Job ID: 240-200735-1 Eurofins Cleveland

Job Narrative 240-200735-1

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 3/8/2024 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 2.3°C and 3.3°C.

GC/MS VOA

Method 8260D_SIM: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-103S_030624 (240-200735-2).

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

Eurofins Cleveland

Job ID: 240-200735-1

Page 5 of 20 3/15/2024

Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200735-1

Project/Site: Ford LTP - Off Site

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

2

7

8

10

11

13

Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-200735-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200735-1	TRIP BLANK_11	Water	03/06/24 00:00	03/08/24 08:00
240-200735-2	MW-103S_030624	Water	03/06/24 12:30	03/08/24 08:00

1

4

5

8

9

4 4

13

Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200735-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_11

No Detections.

Lab Sample ID: 240-200735-1

No Detections.

3

4

5

7

8

10

13

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200735-1

Project/Site: Ford LTP - Off Site

Date Received: 03/08/24 08:00

Client Sample ID: TRIP BLANK_11

Lab Sample ID: 240-200735-1 Date Collected: 03/06/24 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			03/13/24 20:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/13/24 20:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/13/24 20:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/13/24 20:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/13/24 20:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/13/24 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		03/13/24 20:59	1
4-Bromofluorobenzene (Surr)	90		56 ₋ 136					03/13/24 20:59	1
Toluene-d8 (Surr)	97		78 - 122					03/13/24 20:59	1
Dibromofluoromethane (Surr)	97		73 - 120					03/13/24 20:59	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200735-1

Project/Site: Ford LTP - Off Site

Dibromofluoromethane (Surr)

Client Sample ID: MW-103S_030624

Date Collected: 03/06/24 12:30 Date Received: 03/08/24 08:00 Lab Sample ID: 240-200735-2

03/14/24 02:48

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			03/12/24 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		68 - 127					03/12/24 17:43	1
- Method: SW846 8260D - Vola	tile Organic Comp	ounds by G	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L		03/14/24 02:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		03/14/24 02:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		03/14/24 02:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		03/14/24 02:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		03/14/24 02:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137				03/14/24 02:48	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136				03/14/24 02:48	1
Toluene-d8 (Surr)	95		78 - 122				03/14/24 02:48	1

73 - 120

97

3

5

7

0

10

12

13

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-200735-1

Project/Site: Ford LTP - Off Site

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)
240-200735-1	TRIP BLANK_11	102	90	97	97
240-200735-2	MW-103S_030624	103	89	95	97
240-200747-C-2 MS	Matrix Spike	100	108	102	97
240-200747-C-2 MSD	Matrix Spike Duplicate	99	106	100	96
LCS 240-606002/5	Lab Control Sample	96	106	102	97
MB 240-606002/7	Method Blank	101	92	98	95
0					

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)	
240-200645-A-2 MS	Matrix Spike	102	
240-200645-E-2 MSD	Matrix Spike Duplicate	111	
240-200735-2	MW-103S_030624	111	
LCS 240-605738/4	Lab Control Sample	107	
MB 240-605738/6	Method Blank	106	

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

Eurofins Cleveland

3

6

8

9

11

13

Job ID: 240-200735-1

Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-606002/7

Matrix: Water

Analysis Batch: 606002

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			03/13/24 20:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/13/24 20:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/13/24 20:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/13/24 20:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/13/24 20:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/13/24 20:09	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		03/13/24 20:09	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136		03/13/24 20:09	1
Toluene-d8 (Surr)	98		78 - 122		03/13/24 20:09	1
Dibromofluoromethane (Surr)	95		73 - 120		03/13/24 20:09	1

Lab Sample ID: LCS 240-606002/5

Matrix: Water

Analysis Batch: 606002

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	21.4		ug/L		85	63 - 134
cis-1,2-Dichloroethene	25.0	24.6		ug/L		99	77 - 123
Tetrachloroethene	25.0	23.5		ug/L		94	76 - 123
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	75 - 124
Trichloroethene	25.0	23.8		ug/L		95	70 - 122
Vinyl chloride	12.5	13.8		ug/L		110	60 - 144

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 _ 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-200747-C-2 MS

Matrix: Water

Analysis Batch: 606002

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

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	25.0	22.9		ug/L		92	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	24.4		ug/L		98	66 - 128
Tetrachloroethene	1.0	U	25.0	23.9		ug/L		95	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	24.1		ug/L		96	56 - 136
Trichloroethene	1.0	U	25.0	23.4		ug/L		94	61 - 124
Vinyl chloride	1.0	U	12.5	11.9		ug/L		95	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	102		78 - 122

Eurofins Cleveland

Page 12 of 20

Client: Arcadis U.S., Inc.

Job ID: 240-200735-1 Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-200747-C-2 MS

Matrix: Water

Analysis Batch: 606002

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

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

Lab Sample ID: 240-200747-C-2 MSD

Matrix: Water

Analysis Batch: 606002

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

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U 25.0 23.0 ug/L 92 56 - 135 0 26 cis-1,2-Dichloroethene 10 U 25.0 99 66 - 128 24 6 ug/L 14 1 Tetrachloroethene 1.0 U 25.0 23.5 ug/L 94 62 - 131 20 15 trans-1.2-Dichloroethene 1.0 U 25.0 24.6 ug/L 98 56 - 136 Trichloroethene 1.0 U 25.0 23.6 ug/L 94 61 - 124 15 Vinyl chloride 1.0 U 12.5 13.6 ug/L 109 43 - 157 24 13

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 99 62 - 137 4-Bromofluorobenzene (Surr) 106 56 - 136 Toluene-d8 (Surr) 100 78 - 122 Dibromofluoromethane (Surr) 96 73 - 120

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

MR MR

Lab Sample ID: MB 240-605738/6

Matrix: Water

Analysis Batch: 605738

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/12/24 10:58 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 106 68 - 127 03/12/24 10:58

Lab Sample ID: LCS 240-605738/4

Analyte

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 605738 Spike LCS LCS %Rec

Result

Qualifier

Unit

ug/L

D

1,4-Dioxane 10.0 7.85 LCS LCS %Recovery Qualifier Surrogate Limits

107

Lab Sample ID: 240-200645-A-2 MS

Matrix: Water

Analysis Batch: 605738

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: Matrix Spike

%Rec

79

Limits

75 - 121

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 7.72 77 20 - 180 ug/L

Added

68 - 127

Eurofins Cleveland

QC Sample Results

Client: Arcadis U.S., Inc.

Job ID: 240-200735-1

Project/Site: Ford LTP - Off Site

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

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

Lab Salliple ID. 240-200645-E-2 WSL	Lab Sampl	D: 240-200645-E-2	MSD
-------------------------------------	-----------	-------------------	-----

Matrix: Water

Analysis Batch: 605738

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

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier D %Rec Limits RPD Limit Unit 85 20 1,4-Dioxane 2.0 U 10.0 8.48 20 - 180 9 ug/L

MSD MSD

Surrogate%RecoveryQualifierLimits1,2-Dichloroethane-d4 (Surr)11168 - 127

1

--

6

7

8

4.0

11

14

1/

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200735-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 605738

Lab Sample ID 240-200735-2	Client Sample ID MW-103S 030624	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-605738/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605738/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200645-A-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200645-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 606002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200735-1	TRIP BLANK_11	Total/NA	Water	8260D	
240-200735-2	MW-103S_030624	Total/NA	Water	8260D	
MB 240-606002/7	Method Blank	Total/NA	Water	8260D	
LCS 240-606002/5	Lab Control Sample	Total/NA	Water	8260D	
240-200747-C-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-200747-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

1

_

6

0

9

10

11

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200735-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_11

Lab Sample ID: 240-200735-1 Date Collected: 03/06/24 00:00

Matrix: Water

Date Received: 03/08/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	606002	CDG	EET CLE	03/13/24 20:59

Client Sample ID: MW-103S_030624 Lab Sample ID: 240-200735-2

Date Collected: 03/06/24 12:30 Matrix: Water

Date Received: 03/08/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	606002	CDG	EET CLE	03/14/24 02:48
Total/NA	Analysis	8260D SIM		1	605738	MDH	EET CLE	03/12/24 17:43

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. Job ID: 240-200735-1 Project/Site: Ford LTP - Off Site

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	02-27-24 *
Illinois	NELAP	200004	07-31-24
Iowa	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	04-01-24
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

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Chain	of	Custody	Record
-------	----	---------	--------

	TestAmeri	C
4115	THE LEADER IN ENVIRONMENTAL	TEST

MICHIGAN Test	America Labora	tory location:	Brigh	ton		hain B Citation							B116 /	7810-	-229-2	763					1	11.	5	ī		STAME!	
Client Contact	-	tory program:			DW			NPDE			RC			Othe							<u> </u>	1/1	>			THE PARTY OF THE P	1237110
ompany Name: Arcadis	Client Project I	Manager: Kris	H lack				Site	osta	et. C	Christ	in a W	0W 0F			-	ah C	ontact	MIL	Dali	4 onle						stAmerica Laborato	ories, Inc
ddress: 28550 Cabot Drive, Selte 500	Telephone: 248			-7						8-994-		Caver									, 					- 146	
ity/State/Zip: Novi, MI, 48377										игпаг		Om.				гегері	one: 3	30-4							上		OC3
hone: 248-994-2240	Em all: kristoff	er.hin skey@ar	cadls.c	om								Time			T		T			nalys						lab use only	
roject Name: Ford LTP Off-Ske	Sampler Name	./\	471	<u>(</u>							weeks		-													Ik-in client	
roject Number: 301 67538,402,04	Method of Ship	<u> </u>	70	i Q			10) day		F 1	weeks week		ے	c							SIM				Lab	sampling	
O # 301 6753& 402.04	Shipping/Track	ing No:								☐ 2 ☐ I			(X/N	Grab		8260D	82 60D			G09 2	8 009				ĵop	/SDG Na	
	+	1		M:	itrix			Conta	ılın cr s	s & Pro	eserval	ives	1 6	/ D=3	32600	3E 82	-DOE	٥	٥	wide 8	ne 82						
Sample I dentification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H2504	HNO3	нсп	NaOH	Noon Unpres	Other:	Filtered Sample (Y/N)	Composite=C/Gmb=G	1,1-DCE 8260D	as-1,2-DCE	Trans-1,2-DCE	PCE 82 60D	TCE 82600	Vinyl Chloride 82 60D	1,4-Dioxane 8260D					Sample Specific No Special Instruction	
TRIPBLANK TOPBION-11				1					1				N	G	Х	X	X	X	Х	Х						1 Trip Blank	l
MW-1035_050674	3/6/24	1730		6				- 14	0				N	6	X	X	X.	X.	X	X	X					3 VOAs for 82600 3 VOAs for 82600	
	-			_				4															_	_	\perp		
			H					+	+		-		H	-		+	-		-		-	\dashv	+		+		
			\vdash						 	1/188/8	11011 000		Н	+		+	+					\rightarrow	-	+	+		
			\vdash	-	+												+	+		-					+		
			\vdash		-	240-20	0073	5 CH	Milli Dain							+	+								+		
					T			-	1	010	usto	dy		· • • • • • • • • • • • • • • • • • • •	_		+							+	+		
													TI		1												
Possible Hazard Identification Non-Hazard Flammable Skin Irrit.	ant Poiso	n B	Unkn	own			Sa			posal (may be	assess Dispos			s are		hive		281		nths					
pecial Instructions/QC Requirements & Comments: ample Address: ubmit all results through Cadena at jtomalia@cadenaco	o.com. Cadena i	E2Øᡦ1		_2	514	31 #	#		D)	ii+C	1 C	5	/		3	54	47	20	l	Ca	LP.	ite)\	St	<u> </u>	35h124	
evel IV Reporting requested. elinquished by: Alaum P. Harm	Company:	US		3(711	4 11	XX	7	R	Nece V	ed by:	(6	d	St	00	Ga	Ž)		Comp	iny:	di				Date	e/Time /G/14 HC	$\hat{\mathcal{O}}$
elinquished by: Sumu Cryn	Company	ais		217		1	53	30	R	R ecei vi	od by-	H	2	_		- · µ	_		Comp:	EL	4				Date 3	1530	
elin qui shed by:	Company	7		3/2/	34	` KO	0		R	Receiv	ether	aborato	ory by		2				Comp	- Y	TN	C			3	18/24 8	1.00

C2005, Testam erica Laboratories, Inc. All rights resewed. Testam erica & Design ^{est} áretradem arks of Testam erica Laboratories, Inc.

'n Cooler temperature upon receipt IR GUN# . G Ó (C) Observed Cooler Temp See Multiple Cooler Form °C Corrected Cooler Temp

Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity

66 Z Tests that are not checked for pH by ကိ

Shippers' packing slip attached to the cooler(s)? -Were tamper/custody seals intact and uncompromised?

Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?

Yes No

Receiving

Z

-Were the seals on the outside of the cooler(s) signed & dated?

 $\omega + \omega$ Did custody papers accompany the sample(s)?

Were the custody papers relinquished & signed in the appropriate place?

7 Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the COC?

K K K

* * & B

Oil and Grease TOC

VOAs

Were correct bottle(s) used for the test(s) indicated? For each sample, does the COC specify preservatives (YN), # of containers (YN), and

and sample type of grab/comp(X)N)?

(Ex) No

Yes (6)

Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC?

14 Were all preserved sample(s) at the correct pH upon receipt? If yes, Questions 13-17 have been checked at the originating laboratory

Were air bubbles >6 mm in any VOA vials? Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # [930]4

15

Was a LL Hg or Me Hg trip blank present?

Concerning Contacted PM ্ব

via Verbal Voice Mail Other

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by

Sample(s) VOA Sample Preservation - Date/Time VOAs Frozen. Time preserved Sample(s) 20 SAMPLE PRESERVATION Sample(s) Sample(s) 19 SAMPLE CONDITION Preservative(s) added/Lot number(s) were received after the recommended holding time had expired. were received with bubble >6 mm in diameter (Notify PM) were received in a broken container were further preserved in the laboratory

W1-NC-099

No (S)

pH Strip Lo# HC316719

45329089

S S

		* C68.	Box Other	ਨ Ω
Weller Marker Bryker			- OH	25
******		× Cox C:	ı	1
		M GAM St	- 1	2
Walter Heart		R GHI &:	- {	C L
Walker 1		× com e:	- C	2
Walks she to the		W Gest 4:	Per Offer.	C C E
talida est este est por		*GEX 9:	tex Other	2C CI
******		3	V OH	SC COM
1941 kg			¥ 0	8
1997 FT		× cm ?:	1	1
		x cm f:	1	- 1
WAY HOLD DIE		RGM ft	ì	H
		# GOM 0:	Tex Office	2 CH
25 C C C C C C C C C C C C C C C C C C C		W course	Fox Oil	8 01
Well for			T. OH	2
## 100 m		*0±7	1	1
		# GPR 4:	1	ł
The state of the s		IX GPH #:	- O	8
Welles Shelles Fight		* CAN 4:	Sex Other	S CO
******		N 6431 4.	THE CHIEF	8 01
Medice.			- OF	T CE
第170		ROZZ #:	THE VENT	5
		X 64% ft	1	
		# 03% f:	- 1	2
42,546		M GEN EL	Per Other	EC CHA
641 FM			NA OFFI	CO COM
Wester		2000	* O#*	701
*******		# 04% #:	1	0
		M CAN 4:	Ì	
34		R CON #:	OF COME	ਨ Q¥
23 HW	,	# GEN 6:	Pox Other	K Charl
Walte Bue to Mice		N CRN 4	Jox Other	FC Clent 1
\$2.54			fox Offer	C Clear
## C*		P. CRN C.	lox Offer	R CAN
WHICH		IR CUIN #:	HUE X	1
10		M CUN .	l	
Soft Total		IX GUN #	tox Other	SC CHAN IS
X.V.	2,3	IN GUN 9	ox Officer	lo clent lox
Trans		IN GUN #;	X O∰e/	Clent lox
	رد در		Ŋ	7
	(Circle) Temp °C Temp °C	IR Gun #	ription	Cooler Description
Coolani	Odillipie Ivereilov III	Eurolina - Califoli		

DATA VERIFICATION REPORT



March 15, 2024

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04

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

Laboratory submittal: 200735-1 Sample date: 2024-03-06

Report received by CADENA: 2024-03-15

Initial Data Verification completed by CADENA: 2024-03-15

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, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200735-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402007 3/6/2024	351			MW-103 2402007 3/6/2024	352	4	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-8260D										
	Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
,	1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	achloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
trans	s-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
Trich	nloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
Viny	l chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260DSIM	_									
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 # 240-200735-1

CADENA Verification Report: 2024-03-15

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53387R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200735-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample 10	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_11	240-200735-1	Water	03/06/2024		Х	
MW-103S_030624	240-200735-2	Water	03/06/2024		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		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
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 (preserved)7 days from collection to analysis (unpreserved)	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: March 25, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 3, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

Test.	America Labora	tory location: tory program:			10448			e, Su		00 /		ton, MI		/810		2763						7/1	5	THE	LEADER IN ENVIRONMENTAL TES	STINC
Company Name: Arcadis		p. og. a			• • •		1								-										TestAmerica Laboratories,	Inc
Address: 28550 Cabot Drive, Suite 500	Client Project	danager: Kris	H Inske	ey			Site	Conta	act: C	Chris	rtina '	W eav er				Lab C	ontac	t: MI	e D el	M onk	0				COC NŒ	
Table 535. 2000 Cable Diffe, Saite 500	Telephone: 248	-994-2240					Tele	on of	e: 24	8-99	4-224	0				Telep	h on e:	330-4	97-93	96						
City/State/Zip: Novi, MI, 48377	Em alle leutet aff	er.hin skey@ar					,	Valv	rsis T	Mir	rone	d Time			_	_			Á	nalys	205				1 of 1 COCs	
Phone: 248 -994- 2240	Em an: Kriston	er min skey@ar	caus.c	COM											_										or lab use dilly	
Project Name: Ford LTP Off-Site	Sampler Name		,				TAT	il dille	rent fro		low 3 weel														Walk-in client	
	410	MC Di	YV	<u> </u>			10	day	,		2 week														Lab sampling	
Project Number: 301 67538.402.04	Method of Ship	ment/Carrier:									l wed 2 days		E	S S			9				SIM					
PO # 30167538.402.04	Shipping/Traci	Ing No:									day		3	Grab		99	82 60D			82 60D	99				Job/SDG Na	
			1	M:	erix			Court	ala er	4.6	reserv	atives	- 1 함	C	8260D	82	30			98	e 82					
Sample I dentification	Sample Date	Sample Time	Air	Aquions		Other:	нгзом			_	Т	Unptes	Filtered Sample (Y/N)	Composite=C/Grab=G	1,1-DCE 82	ds-1,2-DCE 82600	Trans-1,2-DCE	PCE 82 60D	TCE 8260D	Vinyl Chloride	1,4-Dioxane 8260D				Sample Specific Notes / Special Instructions:	
TRIPBIANK TOPBIONIN_II				1					1				N	I G	Х	Х	Х	Х	Х	Х					1 Trip Blank	U
MW-1035_050674	3/6/24	1130		(\cap	1			11	1	X	~	~	~	X	X	Y					~
11W-1032-05061A	مالعالم	100	\vdash	9	-			-1	0	+	+	-	11/	4	^	X	X	Х	_	^	\sim		_		3 VOAs for 8260D SIM	1
										\dashv			1													
							\vdash	_	_	4	+	-	+	-								\rightarrow	_	\vdash		
							Ц																			
					T				 	110011	11011															
	_			_	+										ll .							\vdash		\vdash		
						240-2										1						\vdash				_
					+	240-2	00/3	o CI	hain	of (Cust	ody														
								1	1				_	_	-											
			\vdash				\vdash	+	\dashv	\dashv	+	+	T	1		\Box				-			+-+	\Box		_
		ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Щ					Ь.														
Possible Hazard I dentification Non-Hazard Flammable Skin Irrita	int Poiso	mB :	Unkn	OWII			Sa				(A.fe Tient	e may b	e asse: Dispo			les are		rchive		han 1		onths				
Special Instructions/QC Requirements & Comments:							,	_		,								~ I	`	•			\ <	<u></u>		
Fample Address: Submit all results through Cadena at jtomalia@cadenaco	.com, Cadena f	E203631			1	511	4		CO.	1	<u>Ot</u>				-	34	4	2	t		rp	ito	1 3	54	35h124	
evel IV Reporting requested.	1																				·				30129	
Relinquished by: alaim Pitory	Company:	15		3(7/1	7 11	400)	R	Necei	ON	i Ca	bc	5	HO	9	r.		Comp	-10	W	 5		(3/6/14 HOO	
Relinquished by: Sumu Cryp	Company	dis		SIN	nd.	1	53	30	R	ecer	ved b		12	-					Comp	和	4				Date/Tiple: 153C	
definquished by:	Company	7		3/2/	ZU	180			R	ecel	Vedla	rlabor:	tory t	y:	2				Comp	23 EY:	TN	r-C -			318124 8'00	

Q2005, Testium erica Laboratories, Inc. will rights reserved. Testium erica 3. Design $^{\rm int}$ are trademarks of Testium erica Laboratories, Inc.

MICHIGAN

TestAmerica

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200735-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_11 Lab Sample ID: 240-200735-1

Date Collected: 03/06/24 00:00 **Matrix: Water** Date Received: 03/08/24 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			03/13/24 20:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/13/24 20:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/13/24 20:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/13/24 20:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/13/24 20:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/13/24 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					03/13/24 20:59	1
4-Bromofluorobenzene (Surr)	90		56 ₋ 136					03/13/24 20:59	1
Toluene-d8 (Surr)	97		78 - 122					03/13/24 20:59	1
Dibromofluoromethane (Surr)	97		73 - 120					03/13/24 20:59	1

Client Sample ID: MW-103S_030624 Lab Sample ID: 240-200735-2

Date Collected: 03/06/24 12:30 Date Received: 03/08/24 08:00

Method: SW846 8260D SIN	I - Volatile Orga	anic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/12/24 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		68 - 127			-		03/12/24 17:43	1

Method: SW846 8260D - Vo	platile Organic	Compoun	ds by 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			03/14/24 02:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/24 02:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/24 02:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/24 02:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/24 02:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/24 02:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.0 Diablaraathana d1 (Curr)	102		60 107			-		02/44/24 02:49	- 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		03/14/24 02:48	1	
4-Bromofluorobenzene (Surr)	89		56 - 136		03/14/24 02:48	1	
Toluene-d8 (Surr)	95		78 - 122		03/14/24 02:48	1	
Dibromofluoromethane (Surr)	97		73 - 120		03/14/24 02:48	1	

Matrix: Water