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Suite 500 Novi, Michigan 48377

ANALYTICAL REPORT

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PREPARED FOR

Attn: Kristoffer Hinskey

ARCADIS US Inc 28550 Cabot Drive

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-185004-1

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

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

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-185004-1

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	14
Lab Chronicle	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	21

4

6

8

10

12

Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-185004-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

 Qualifier
 Qualifier Description

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

Glossary

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

LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)
MCL EPA recommended "Maximum Co

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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Page 4 of 21

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Case Narrative

Client: ARCADIS US Inc

Job ID: 240-185004-1

Project/Site: Ford LTP - Off Site

Job ID: 240-185004-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-185004-1

Receipt

The samples were received on 5/9/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0°C, 2.8°C, 3.3°C and 4.3°C

GC/MS VOA

Method 8260D: Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (LCS 460-908833/3) and (LCSD 460-908833/4). The result has been reported and qualified.

Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: MW-127S_050223 (240-185004-2). This sample did not contain any target analytes; therefore, re-analysis was not performed.

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

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Method Summary

Client: ARCADIS US Inc Job ID: 240-185004-1 Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-185004-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-185004-1	TRIP BLANK_102	Water	05/02/23 00:00	05/09/23 10:30
240-185004-2	MW-127S_050223	Water	05/02/23 10:30	05/09/23 10:30

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-185004-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_102 Lab Sample ID: 240-185004-1

No Detections.

Client Sample ID: MW-127S_050223 Lab Sample ID: 240-185004-2

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185004-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_102

Lab Sample ID: 240-185004-1 Date Collected: 05/02/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/12/23 23:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 23:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 23:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 23:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 23:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 128			_		05/12/23 23:00	1
Dibromofluoromethane (Surr)	99		77 - 124					05/12/23 23:00	1
Toluene-d8 (Surr)	98		80 - 120					05/12/23 23:00	1
4-Bromofluorobenzene	120		76 - 120					05/12/23 23:00	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185004-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-127S_050223

Date Collected: 05/02/23 10:30 Date Received: 05/09/23 10:30 Lab Sample ID: 240-185004-2

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			05/13/23 06:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	113		75 - 133					05/13/23 06:38	1
Method: SW846 8260D - Vo Analyte		ounds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL			<u>D</u> .	Prepared		Dil Fac
Analyte		Qualifier			Unit ug/L	<u>D</u> .	Prepared	Analyzed 05/13/23 00:54	Dil Fac
Analyte 1,1-Dichloroethene	Result	Qualifier U	RL	0.49		<u> </u>	Prepared		Dil Fac
	Result 1.0	Qualifier U U		0.49 0.46	ug/L	<u> </u>	Prepared	05/13/23 00:54	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u> .	Prepared	05/13/23 00:54 05/13/23 00:54	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	<u>D</u> .	Prepared	05/13/23 00:54 05/13/23 00:54 05/13/23 00:54	Dil Fac 1 1 1 1 1 1 1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107	70 - 128		05/13/23 00:54	1
Dibromofluoromethane (Surr)	96	77 - 124		05/13/23 00:54	1
Toluene-d8 (Surr)	100	80 - 120		05/13/23 00:54	1
4-Bromofluorobenzene	122 S1+	76 - 120		05/13/23 00:54	1
	1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr)	1,2-Dichloroethane-d4 (Surr) 107 Dibromofluoromethane (Surr) 96 Toluene-d8 (Surr) 100	1,2-Dichloroethane-d4 (Surr) 107 70 - 128 Dibromofluoromethane (Surr) 96 77 - 124 Toluene-d8 (Surr) 100 80 - 120	1,2-Dichloroethane-d4 (Surr) 107 70 - 128 Dibromofluoromethane (Surr) 96 77 - 124 Toluene-d8 (Surr) 100 80 - 120	1,2-Dichloroethane-d4 (Surr) 107 70 - 128 05/13/23 00:54 Dibromofluoromethane (Surr) 96 77 - 124 05/13/23 00:54 Toluene-d8 (Surr) 100 80 - 120 05/13/23 00:54

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Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-185004-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)
240-185004-1	TRIP BLANK_102	108	99	98	120
240-185004-2	MW-127S_050223	107	96	100	122 S1+
LCS 460-908833/3	Lab Control Sample	103	91	99	121 S1+
LCSD 460-908833/4	Lab Control Sample Dup	101	92	100	122 S1+
MB 460-908833/7	Method Blank	106	95	100	119

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

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(75-133)	
240-185004-2	MW-127S_050223	113	
LCS 460-908909/4	Lab Control Sample	114	
LCSD 460-908909/5	Lab Control Sample Dup	115	
MB 460-908909/8	Method Blank	111	

Surrogate Legend

BFB = 4-Bromofluorobenzene

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Client: ARCADIS US Inc Job ID: 240-185004-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 460-908833/7

Matrix: Water Analysis Batch: 908833 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			05/12/23 20:21	1
	cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 20:21	1
	Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 20:21	1
	trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 20:21	1
	Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 20:21	1
	Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 20:21	1
ı										

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 128		05/12/23 20:21	1
Dibromofluoromethane (Surr)	95		77 - 124		05/12/23 20:21	1
Toluene-d8 (Surr)	100		80 - 120		05/12/23 20:21	1
4-Bromofluorobenzene	119		76 - 120		05/12/23 20:21	1

Lab Sample ID: LCS 460-908833/3

Matrix: Water

Analysis Batch: 908833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits 1,1-Dichloroethene 20.0 19.7 98 68 - 133 ug/L 20.0 97 78 - 121 cis-1,2-Dichloroethene 19.4 ug/L Tetrachloroethene 20.0 20.5 103 70 - 127 ug/L trans-1,2-Dichloroethene 20.0 19.7 ug/L 98 74 - 126 Trichloroethene 20.0 19.6 ug/L 98 71 - 121 Vinyl chloride 20.0 18.3 ug/L 55 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 128
Dibromofluoromethane (Surr)	91		77 - 124
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene	121	S1+	76 - 120

Lab Sample ID: LCSD 460-908833/4

Matrix: Water

Analysis Batch: 908833

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	20.4		ug/L		102	68 - 133	3	30
cis-1,2-Dichloroethene	20.0	20.1		ug/L		100	78 - 121	3	30
Tetrachloroethene	20.0	21.6		ug/L		108	70 - 127	5	30
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	74 - 126	4	30
Trichloroethene	20.0	20.1		ug/L		100	71 - 121	2	30
Vinyl chloride	20.0	19.0		ug/L		95	55 - 144	4	30

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 128
Dibromofluoromethane (Surr)	92		77 - 124
Toluene-d8 (Surr)	100		80 - 120

Eurofins Cleveland

Page 12 of 21

Job ID: 240-185004-1

Project/Site: Ford LTP - Off Site

Client: ARCADIS US Inc

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

Lab Sample ID: LCSD 460-908833/4

Lab Sample ID: MB 460-908909/8

Matrix: Water

Matrix: Water

Analysis Batch: 908833

Analysis Batch: 908909

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 122 S1+ 76 - 120

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

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 05/12/23 23:03

MB MB

Surrogate %Recovery Qualifier Limits Analyzed Dil Fac Prepared 4-Bromofluorobenzene 111 75 - 133 05/12/23 23:03

Lab Sample ID: LCS 460-908909/4 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 908909

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec 1,4-Dioxane 5.00 5.56 111 57 - 124 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 75 - 133 114

Lab Sample ID: LCSD 460-908909/5

Matrix: Water

Analysis Batch: 908909

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 1,4-Dioxane 5.00 4.92 57 - 124 30 ug/L

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 115 75 - 133

Eurofins Cleveland

5/18/2023

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-185004-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 908833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
240-185004-1	TRIP BLANK_102	Total/NA	Water	8260D	
240-185004-2	MW-127S_050223	Total/NA	Water	8260D	
MB 460-908833/7	Method Blank	Total/NA	Water	8260D	
LCS 460-908833/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-908833/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 908909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185004-2	MW-127S_050223	Total/NA	Water	8260D SIM	
MB 460-908909/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-908909/4	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 460-908909/5	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-185004-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_102

Lab Sample ID: 240-185004-1 Date Collected: 05/02/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908833	SZD	EET EDI	05/12/23 23:00

Client Sample ID: MW-127S_050223 Lab Sample ID: 240-185004-2

Date Collected: 05/02/23 10:30 Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908833	SZD	EET EDI	05/13/23 00:54
Total/NA	Analysis	8260D SIM		1	908909	KLB	EET EDI	05/13/23 06:38

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-185004-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

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Post Part	Client Contact	Regulatory program: DW	NPDES RCRA Other		
	Company Name: Arcadis				TestAmerica Laboratories, Inc.
	Address: 28550 Cabot Drive. Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
	CIV/State/Zip: Novi. MI 48377	Telcphone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	4 36 4
Name Figure 17 17 18 18 18 18 18 18	Phys. 24, 694, 7340	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	luo
FRIP BLANK_103 Stample Identification Stample Date Stample	roject Name: Ford LTP Off-Site roject Number: 30167538,402.04	arrier:	ceks cek		Walk-in client Lab sampling
Sample Identification Sample Identification TRIP BLANK_\(\circless{10}\) Scanning in the continuous of the conti	O # 30167538.402.04	Shipping/Trucking No:	le (Y / I	85608	Job/SDG No:
TRIP BLANK_103 WWW1x75_050-33 Salab Hazard Mentiterlies Probable Hazard Mentiterlies Proba	Sample Identification	Air Aqueous Sediment E	HCI Composite—C C Composite—C C Composite—C C C C C C C C C C C C C C C C C C C	.CE 8560B .ce 8560B .ce 8560B .ce 8560B	Sample Speeffic Notes / Special Instructions:
Skin fritant Poison B	TRIP BLAN	-	υ 2	× × × × ×	1 Trip Blank
Skin Irritant Poison B Unknown Received by Cold Stangles are retained to the major be assessed if samples are retained to the major be assessed if samples are retained to the major be assessed if samples are retained to the major be assessed if samples are retained to the major be assessed if samples are retained to the major and the characteristic of the major and the samples are retained to the sa	MW-1x75 05022	1030	2	* * * * * * * * * * * * * * * * * * *	3 VOAs for 8260B
Date/Time: Date/Time: Date					
Date/Time: Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/					
Date/Time: Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/				2000 2000 2000 2000 2000 2000 2000 200	
Date/Time: Date/Time: Date/Time: Date Date				2401 63004 Chain of Custody	
Date/Time: Received by: Cold Stort age Date/Time: S/7/23/1500 Received by: Cold Stort age S/6/23/1500 Received in aboratory by: S/6/23/1500 Received in abo			Sample Disposal (A fee may be assessed if sar	nples are retained longer than 1 month)	
Church Company Collis 15/23/1500 Received by Cold Storage Date/Time; 1650 Received by Cold Storage S/8/23/1650 Received by Cold S/8/23/1650 Receiv	► Non-Hazard Flammable 5ki pecial Instructions/OC Requirements & Comments: iample Address: ングリスピー 色々くしか Lubmit all results through Cadena at fromalia@cad- evel IV Reporting requested.		Return to Client	b Archive For Months	
Company Company Date/Time Received by Hell Company S/R/R2 / 1050 Received by Hell Company Company S/R/R2 / 1050 Received by Am Hell Hell Received in Jahoratory by: 1 Hell Company Description Company Descrip	clinquaping by the constraints	Date/Time: 5/7/23/	Received by: 601d	0	Date/Time: 23/1500
Company: Date fring: Necessard in aboratory by: A Con	celinquished by	N Date		Company:	2
	celinquished by:		1050 Receised in Jaboratory by:	Company:	

<u>TestAmerica</u>

Chain of Custody Record

MICHIGAN 190

Function Conton Samula Descint Franchis	15004
Eurofins - Canton Sample Receipt Form/Narrative Barberton Facility	Login # : 185000
Client A(Cadis Site Name	Cooler unpacked by:
Cooler Received on 05-09-23 Opened on 05-	-09-23 Leal- M. dmitt
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off	Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time	Storage Location
	Box Other
	None Other
1. Cooler temperature upon receipt	See Multiple Cooler Form
IR GUN# (CF + U1) °C) Observed Coole	er Temp°C Corrected Cooler Temp°C
 Were tamper/custody seals on the outside of the cooler(s)? If Yee -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLH -Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate was/were the person(s) who collected the samples clearly identify. Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the CO-9. For each sample, does the COC specify preservatives (Y/N), # of 10. Were correct bottle(s) used for the test(s) indicated? Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating label. Were all preserved sample(s) at the correct pH upon receipt? Were all preserved sample(s) at the correct pH upon receipt? Were air bubbles >6 mm in any VOA vials? Larger to Larger t	Tests that are not checked for pH by Receiving: Yes No NA Yes No NA Yes No NA Yes No NA Yes No NO Yes No NA PH Strip Lot# HC208070 Yes No NA
17. Was a LL Hg or Me Hg trip blank present?	Yes No
Contacted PM Date by	via Verbal Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	additional next page Samples processed by:
19. SAMPLE CONDITION	
Sample(s) were received after	r the recommended holding time had expired.
Sample(s)	
Sample(s)were receiv	ed with bubble >6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s)	were further preserved in the laboratory.
Sample(s) Time preserved:Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login#: 185004

		Eurofins - Canto	on Sample Receipt M	luitiple Cooler Form	
	Description	IR Gun #	Observed	Corrected	Coolant
	ircle)	(Circle)	Temp °C	Temp °C	(Circle) Wet ice Blue Ice Dry ice
(EC) Client	Box Other	IR GUN #:	2.7	1 7.8	Water None
EC Client	Box Other	IR GUN #:	3.2	3.3	Water None
(EC) Client	Box Other	IR GUN #:	1.9	2.0	Wet ice Blue ice Dry ice Water None
(EC) Client	Box Other	IR GUN #:	4.2	4.3	Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR GUN #:			Wet ice Blue Ice Dry Ice Water None
EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry ice
EC Client	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet ice Blue ice Dry ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice
EC Client	Sox Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Sive Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Sox Other	IR GUN #:			Water None Wet ice Blue Ice Dry ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	A-10	IR GUN #:			Water None Wet Ice Slue Ice Dry Ice
EC Client		IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet ice Blue ice Dry ice
EC Client	Box Other	IR GUN #:			Water None Wet ice Blue ice Dry ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client		IR GUN #:			Water None Wet ice Blue ice Dry ice
EC Client	Box Other	IR GUN #:			Wet ice Sive Ice Dry ice
	Box Other	IR GUN #:			Water None Wet ice Blue ice Dry ice
EC Client		IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other				Water None
EC Client	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
				☐ See Terr	perature Excursion Form

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

Eurofins Cleveland 180 S. Van Buren Avenue

Chain of Custody Record

eurofins Environment Testing COC No: Camier Tracking No(s): Lab PM: Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772

Client Information (Sub Contract Lab)				Del	DelMonico, Michael	fichael				24	240-167888.1	
Client Contact: Shipping/Receiving	Phone:			E-Mail: Miche	hael.DelM	lonico@e	E-Mail: Michael.DelMonico@et.eurofinsus.com		State of Origin: Michigan	Page: Page	Page: Page 1 of 1	
Company: Eurofins Environment Testing Northeast,					Accreditat	ions Requir	Accreditations Required (See note):			Job #: 240-	Job #: 240-185004-1	
Address: 777 New Durham Road,	Due Date Requested: 5/22/2023	÷					Analy	Analysis Requested	uested	P. A	Preservation Codes:	des: M - Hexane
City. Edison State, Zip.	TAT Requested (days):	3ys):									B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4	N - None O - AsNaO2 P - Na2O4S Q - Na2SO3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:				100	(js				ட்ப்	F - MeOH G - Amchlor	K - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate
Email:	;# OM				(ON	поц Г			-		I - Ice J - DI Water	U - Acetone V - MCAA
Project Name. Ford LTP - Off Site	Project #: 24015353				10 88	S) \$30				-	K - EDTA L - EDA	v - pri 4-5 Y - Trizma Z - other (specify)
Site:	SSOW#:				N) OS						Other:	
		Sample	Sample Type (C=comp,	Waterx (Wewster, Sesolid, Oewaste/oil, BT=Tissue,	beneillig ble M/SM mobil	60D/5030C (M				red Number		
Nample Identification - Client ID (Lab ID)	Sample Date		G=grab) Preserval	Preservation Code:	×					īΧ	Special In	Special Instructions/Note:
PRIP BLANK_102 (240-185004-1)	5/2/23	Eastern		Water	E	×				-		
MW-127S_050223 (240-185004-2)	5/2/23	10:30 Eastern		Water		×				9		
21												

Possible Hazard Identification		Sa	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	samples are retained longer than 1	1 month)
Unconfirmed			Return To Client Disposal By Lab	Lab Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Sp	Requi		
Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Reinrouighed by:	SIP SEGINE	Company	Received by:	12 Feeles 13/11/13 1030 CETA	Company
Jewinqu≽rled by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ablinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
SCustody Seals Intact: Custody Seal No.: ΛC	3		Cooler Temperature(s) °C and Other Remarks: 1.4/1.4°, 2.2/1.10	4/1.40, 2.2/2.1	58IT 2
			10 11 12 13	5 6 7 8	3 4

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-185004-1

List Source: Eurofins Edison
List Number: 2
List Source: Eurofins Edison
List Creation: 05/11/23 01:12 PM

Creator: Armbruster, Chris

Creator: Armbruster, Chris		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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DATA VERIFICATION REPORT



May 23, 2023

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 off-site

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

Laboratory submittal: 185004-1 Sample date: 2023-05-02

Report received by CADENA: 2023-05-23

Initial Data Verification completed by CADENA: 2023-05-23

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 sample -002 and LCS/LCSD surrogate recovery outliers did not result in qualification of client sample data.

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.

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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 185004-1

	Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_102 2401850041 5/2/2023				MW-127S_050223 2401850042 5/2/2023				
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-82601</u>		75 25 4	ND	1.0	ua/l		ND	1.0	ua/l	
	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-8260I	<u>DSIM</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 # 240-185004-1

CADENA Verification Report: 2023-05-23

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49921R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-185004-1 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		Ana	lysis
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	voc	VOC SIM
TRIP BLANK_102	240-185004-1	Water	05/02/23		Х	
MW-127S_050223	240-185004-2	Water	05/02/23		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep		Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Χ		X	
2. Requested analyses and sample results		Χ		X	
Master tracking list		Χ		X	
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	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		Reported		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	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD					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		Х		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: Hrishikesh Upadhyaya

SIGNATURE:

DATE: June 12, 2023

Curuliland

PEER REVIEW: Andrew Korycinski

DATE: June 21, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

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 Regulatory program: DW NPDES RCRA Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses For lab use only Phone: 248-994-2240 TAT if different from below Walk-in client Project Name: Ford LTP Off-Site Seth Turner 3 weeks ≥ 2 weeks Lab sampling Project Number: 30167538.402.04 1 week 1,4-Dioxane 8260B SIM rans-1,2-DCE 8260B 2 days /inyl Chloride 8260B PO # 30167538.402.04 Shipping/Tracking No: □ I day Job/SDG No: Matrix **ICE 8260B** Sample Specific Notes / H2SO4 HNO3 NaOH Special Instructions: Air Sample Identification Sample Date Sample Time € TRIP BLANK_102 NIG X X X 1 Trip Blank 3 6 3 VOAs for 8260B 1030 · MW-1275_050223 3 VOAs for 8260B SIM Page 471 of 475 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ✓ Non-Hazard Flammable Skin Irritant Poison B Disposal By Lab Unknown Return to Client Archive For Special Instructions/QC Requirements & Comments: Sample Address: 34424 Baacon Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203631 Level IV Reporting requested. Date/Time: 5/4/23/1500 Company:
Arcoulis WOVI COLL STOTAGE Relinquished b Company: 1050

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185004-1

Client Sample ID: TRIP BLANK_102

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-185004-1

Date Collected: 05/02/23 00:00 **Matrix: Water** Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/12/23 23:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 23:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 23:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 23:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 23:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 128					05/12/23 23:00	1
Dibromofluoromethane (Surr)	99		77 - 124					05/12/23 23:00	1
Toluene-d8 (Surr)	98		80 - 120					05/12/23 23:00	1
4-Bromofluorobenzene	120		76 - 120					05/12/23 23:00	

Client Sample ID: MW-127S_050223 Lab Sample ID: 240-185004-2

Date Collected: 05/02/23 10:30 Date Received: 05/09/23 10:30

Method: SW846 8260D S	IM - Volatile Orga	anic Comp	ounds (GC/N	1S)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/13/23 06:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	113		75 - 133			-		05/13/23 06:38	1

Method: SW846 8260D - Vo	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.1-Dichloroethene	1.0		1.0		ug/L	<u>-</u>	Тторитои	05/13/23 00:54	1
cis-1,2-Dichloroethene	1.0		1.0	0.46	Ū			05/13/23 00:54	1
Tetrachloroethene	1.0	U	1.0	0.44	Ū			05/13/23 00:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/23 00:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 00:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/23 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 128			•	<u>-</u>	05/13/23 00:54	1

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Page 8 of 475

Matrix: Water