PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 11/27/2023 9:36:42 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-195389-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 11/27/2023 9:36:42 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 2

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-195389-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-195389-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

4 MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

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

Listed under the D column to designate that the result is reported on a dry weight basis

R Percent Recovery

CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

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

Job ID: 240-195389-1

Job ID: 240-195389-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-195389-1

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 11/14/2023 10:00 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 3.2°C and 3.4°C

GC/MS VOA

Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): MW-127S 110923 (240-195389-2).

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

Method Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-195389-1

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 US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-195389-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-195389-1	TRIP BLANK_137	Water	11/09/23 00:00	11/14/23 10:00
240-195389-2	MW-127S_110923	Water	11/09/23 14:45	11/14/23 10:00

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-195389-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_137 Lab Sample ID: 240-195389-1

No Detections.

Lab Sample ID: 240-195389-2 Client Sample ID: MW-127S_110923

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	1.4	1.0	0.45 ug/L	1	8260D	Total/NA

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195389-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_137

Date Collected: 11/09/23 00:00 Date Received: 11/14/23 10:00 Lab Sample ID: 240-195389-1

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			11/18/23 16:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/23 16:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 16:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/23 16:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 16:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/23 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					11/18/23 16:28	1
4-Bromofluorobenzene (Surr)	113		56 - 136					11/18/23 16:28	1
Toluene-d8 (Surr)	115		78 - 122					11/18/23 16:28	1
Dibromofluoromethane (Surr)	114		73 - 120					11/18/23 16:28	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195389-1

Project/Site: Ford LTP - Off Site

Date Collected: 11/09/23 14:45

Date Received: 11/14/23 10:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/23 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 120					11/22/23 21:27	1
_ Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/18/23 22:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/23 22:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 22:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/23 22:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 22:05	1
Vinyl chloride	1.4		1.0	0.45	ug/L			11/18/23 22:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					11/18/23 22:05	1
4-Bromofluorobenzene (Surr)	108		56 ₋ 136					11/18/23 22:05	1
Toluene-d8 (Surr)	111		78 - 122					11/18/23 22:05	1
Dibromofluoromethane (Surr)	108		73 - 120					11/18/23 22:05	1

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Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-195389-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				ocine Gain	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-195156-C-52 MS	Matrix Spike	110	109	108	106
240-195156-C-52 MSD	Matrix Spike Duplicate	109	112	108	106
240-195389-1	TRIP BLANK_137	117	113	115	114
240-195389-2	MW-127S_110923	111	108	111	108
LCS 240-595129/5	Lab Control Sample	116	122	117	114
MB 240-595129/8	Method Blank	123	118	117	115

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	(66-120)	
240-195177-C-7 MS	Matrix Spike	98	
240-195177-D-7 MSD	Matrix Spike Duplicate	100	
240-195389-2	MW-127S_110923	98	
LCS 240-595638/4	Lab Control Sample	101	
MB 240-595638/5	Method Blank	101	

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

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Client: ARCADIS US Inc Job ID: 240-195389-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-595129/8

Matrix: Water

Analysis Batch: 595129

Client Sample	e ID:	Meth	od Blank	
P	rep	Type:	Total/NA	

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 11/18/23 14:52 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/18/23 14:52 1.0 U 0.44 ug/L Tetrachloroethene 1.0 11/18/23 14:52 trans-1,2-Dichloroethene 1.0 0.51 ug/L 1.0 U 11/18/23 14:52 Trichloroethene 1.0 U 1.0 0.44 ug/L 11/18/23 14:52 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/18/23 14:52

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 1,2-Dichloroethane-d4 (Surr) 123 11/18/23 14:52 4-Bromofluorobenzene (Surr) 118 56 - 136 11/18/23 14:52 78 - 122 Toluene-d8 (Surr) 117 11/18/23 14:52 Dibromofluoromethane (Surr) 115 73 - 120 11/18/23 14:52

Lab Sample ID: LCS 240-595129/5

Matrix: Water

Analysis Batch: 595129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec 1,1-Dichloroethene 25.0 97 63 - 134 24.4 ug/L 25.0 cis-1,2-Dichloroethene 23.5 ug/L 94 77 - 123 Tetrachloroethene 25.0 23.4 76 - 123 ug/L 94 75 - 124 trans-1.2-Dichloroethene 25.0 23.7 ug/L 95 Trichloroethene 25.0 22.9 ug/L 92 70 - 122 Vinyl chloride 12.5 10.8 ug/L 86 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 116 62 - 137 4-Bromofluorobenzene (Surr) 122 56 - 136 Toluene-d8 (Surr) 117 78 - 122 73 - 120 Dibromofluoromethane (Surr) 114

Lab Sample ID: 240-195156-C-52 MS

Matrix: Water

Analysis Batch: 595129

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	100	U	2500	2250		ug/L		90	56 - 135
cis-1,2-Dichloroethene	2400		2500	4550		ug/L		86	66 - 128
Tetrachloroethene	100	U	2500	2090		ug/L		83	62 - 131
trans-1,2-Dichloroethene	100	U	2500	2240		ug/L		90	56 - 136
Trichloroethene	440		2500	2480		ug/L		82	61 - 124
Vinyl chloride	50	J	1250	1060		ug/L		81	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		62 - 137
4-Bromofluorobenzene (Surr)	109		56 - 136
Toluene-d8 (Surr)	108		78 - 122

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Job ID: 240-195389-1

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

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

Lab Sample ID: 240-195156-C-52 MS

Matrix: Water

Analysis Batch: 595129

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 106 73 - 120

Lab Sample ID: 240-195156-C-52 MSD

Matrix: Water

Analysis Batch: 595129

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Limits RPD Limit **Analyte** Result Qualifier Unit %Rec 100 Ū 1,1-Dichloroethene 2500 2170 ug/L 87 56 - 135 4 26 cis-1,2-Dichloroethene ug/L 2400 2500 4500 84 66 - 128 14 1 Tetrachloroethene 100 U 2500 2010 ug/L 80 62 - 13120 trans-1.2-Dichloroethene 100 U 2500 2160 ug/L 87 56 - 136 15 Trichloroethene 440 2500 2390 ug/L 78 61 - 124 15 Vinyl chloride 50 J 1250 1050 ug/L 43 - 157 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		62 - 137
4-Bromofluorobenzene (Surr)	112		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	106		73 - 120

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

MB MB

2.0 U

Result Qualifier

Lab Sample ID: MB 240-595638/5

Matrix: Water

Analyte

Analyte

1,4-Dioxane

1,4-Dioxane

Analysis Batch: 595638

Client Sample ID: Method Blank Prep Type: Total/NA

Prepared Analyzed Dil Fac

11/22/23 15:25

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 101 66 - 120 11/22/23 15:25

RL

2.0

MDL Unit

0.86 ug/L

Lab Sample ID: LCS 240-595638/4

Matrix: Water

Analysis Batch: 595638

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

Client Sample ID: Matrix Spike

Spike LCS LCS %Rec Added Result Qualifier Limits Unit D %Rec 10.0 9.96 ug/L 100 80 - 122

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 101 66 - 120

Lab Sample ID: 240-195177-C-7 MS

Matrix: Water

Analysis Batch: 595638

7a., 6.0 _ a	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.4-Dioxane	280		20.0	309	4	ua/l	_	121	51 - 153	

Eurofins Cleveland

Prep Type: Total/NA

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-195389-1

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)	98		66 - 120								
Lab Sample ID: 240-195 ^o Matrix: Water Analysis Batch: 595638	177-D-7 MSD					Client	Samp	le ID: N	latrix Spil Prep Ty		
•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
			20.0	313	1	ug/L		144	51 - 153	2	16
1,4-Dioxane	280		20.0	313	4	ug/L			01-100	_	
1,4-Dioxane		MSD	20.0	313	4	ug/L			011100		
1,4-Dioxane Surrogate			20.0 Limits	313	4	ug/L			01-100		

11/27/2023

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QC Association Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-195389-1

GC/MS VOA

Analysis Batch: 595129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195389-1	TRIP BLANK_137	Total/NA	Water	8260D	
240-195389-2	MW-127S_110923	Total/NA	Water	8260D	
MB 240-595129/8	Method Blank	Total/NA	Water	8260D	
LCS 240-595129/5	Lab Control Sample	Total/NA	Water	8260D	
240-195156-C-52 MS	Matrix Spike	Total/NA	Water	8260D	
240-195156-C-52 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 595638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195389-2	MW-127S_110923	Total/NA	Water	8260D SIM	
MB 240-595638/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-595638/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-195177-C-7 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-195177-D-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-195389-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_137

Lab Sample ID: 240-195389-1 Date Collected: 11/09/23 00:00 **Matrix: Water**

Date Received: 11/14/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			595129	CDG	EET CLE	11/18/23 16:28

Client Sample ID: MW-127S_110923 Lab Sample ID: 240-195389-2

Date Collected: 11/09/23 14:45 **Matrix: Water**

Date Received: 11/14/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	595129	CDG	EET CLE	11/18/23 22:05
Total/NA	Analysis	8260D SIM		1	595638	CS	EET CLE	11/22/23 21:27

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-195389-1

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
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-23

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

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Ē	Chain of Custody Record TestAmerica Laboratory lecation: Brighton — 10448 Chalton Drive, Suite 200 / Brighton, MI 48116 / 810-229-2783	Chain of Custody Record 448 Chaison Drive, Suffe 200 / Brighton, MI 48116 / 810-2	29-2763	TestAmerica
Client Contact	Regulatory program: DW	☐ NPDES ☐ RCRA ☐ Other		
Company Name: Arcadis	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	1 ah Cratact: Mike Dal Monton	TestAmerica Laboratories, Inc.
Address: 28550 Cabol Drive, Suite 500	0.004.33.40	1-	T-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	coc int.
Clty/State/Zlp: Novi, MI, 48377		erepnone: 148-994-1440	l elepnone: 320-49 /-9290	1 of 1 COCs
Phone: 248-994-2240	Email: Kristoffer, hinskey@arcadts.com	Attenyors 1 of the Outro 1 little	Virginises	For lab use only
Project Name: Ford LTP Off-Site	Sampler Name:	AT if different from below 3 weeks 40 day, 19 2 weeks		Walk-in dient
Project Number: 30167538.402.04		1 week	(Lab samping
PO# 30167538.402.04	Shipping/Tracking No:	le (Y I	85e0D	Job/SDQ No:
	Natrix) Just	OD CE 83	
Sample Identification	Sample Date Sample Time After Sample Date	Combosi Lifened S Dubt.cs Dubt.cs NaOH HCJ HCJ HCJ	1,4-DCE 8260 Vinyl Chid	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 137	1	7 0	×××××	1 Trip Blank
525011-SL71-MW	N/09/12/14/15 (G	2 N	× × × × × × × × × × × × × × × × × × ×	3 VOAs for 8260D
				MIS COOZO IOLEGO O
		240-195389 Chain of Custody	Custody	
Possible Hazard Identification Non-Hazard Flammable Skin frritant	rritant Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained louger than 1 month) Return to Client P Disposal By Lab Archive For Mon	mples are retained longer than 1 month) ab	
Special Instructions/QC Requirements & Comments: Sampla Address: Submit all results through Cadens at jtomalis@cadenaco.com. Cadens Level IV Reporting requested.	aco com. Cadena #E203631 SM 4724	Beacon St		
Relinquished by allamin Polota	cdus		STAGE SATCACUS	Pare/Imp / 75 1530
Retinquighed by: Retinquighted by:	Company Company Company Company	Received by. Received by. Received in Laboratory by.	Company: FEAA	Date/Time
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\$0000 Transmiss Librations inc. All most read Laborators, inc. reduring a Computer of Computer of Computers of Comp				

W/4/27/92/023

VOA Sample Preservation - Date/Time VOAs Frozen:

	-			
L	ogin	#		

		n Sample Receipt Mul		Coolors
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 21	3.2	3.9	Wellice Blue Ice Dr
EC Client Box Other	IR GUN #:	320	3.2	Wellice Blue Ice Dr
	IR GUN #:	3.0	3, 1	Water None Wellce Blue Ice Dry
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EC Client Box Other	IR GUN F:	1		Wellice Blue lice Dy Water Mana
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BC Client Box Other	IR GUN 9:			Welte Blue Ice By Water Mane
EC Client Box Other	R GUN F:	1811	141	Wellto Blee too By
BC Client Box Other	IR GUN F:			Wellce the tee by
BC Client Best Other	R G9N #:			Wellce Nee Ice By Weley Mene
BC Client Box Other	IR GUN #:			Wet to the to try
BC Client Best Other	IR GUN #:			Wellice Blacker By
BC Client Box Other	IR GUN #:			Weller Nee Ing By
8C Client Sex Other	11 CON 6:		7:	Well to the to by
RC Client Bex Other	12 GUN #:		1	Molice Blooker By
BC Client Box Other	12 GON 9:			Wel ice . Shee ice - Bry
BC Client Beat Other	IR GUN #:		1	Wel ice the ice by
BC Client Box Other	IR GON #:			Wellce Neelce By
BC Client Box Other	IR GUN 6:		,	Weller Mone
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	R GWN 4:		44	Welst Mane By I
EC Client Sex Other	R GUN #:		1	West too Blue too Dry I
IC Client Box Other	R GUN #:		74	Water Mane
BC Client Box Other	IR GUN 6:			Water Name Wellice Stre Ice Dry I
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EC Client Box Officer	IR GUN #:			Wellce Steelce Dry to Water Mane
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EC CSent Sox Other	IR GUN #:		,	Wellice Sive Ice Dry Ice
		,	See Tempe	erature Excursion Form

PI-NC-099 Cooler Receipt Form Page 2 - Multiple Cooler.

DATA VERIFICATION REPORT



November 27, 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: 195389-1 Sample date: 2023-11-09

Report received by CADENA: 2023-11-27

Initial Data Verification completed by CADENA: 2023-11-27

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:

SRN - Sample Receipt Non-conformance(headspace) - Sample -002 results for GCMS VOC should be considered to be estimated and qualified with J if detected or UJ flags if non-detect due to sample receipt non-conformance that affects the integrity of the sample. See laboratory submittal sample receipt forms for details.

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.

Qualified Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 195389-1

Sample Name: MW-127S_110923 **Lab Sample ID:** 2401953892 **Sample Date:** 11/9/2023

			, _,					
				Report		Valid		
	Analyte	Cas No.	Result	Limit	Units	Qualifier		
GC/MS VOC								
OSW-8	3260D							
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	UJ		
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	UJ		
	Tetrachloroethene	127-18-4	ND	1.0	ug/l	UJ		
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	UJ		
	Trichloroethene	79-01-6	ND	1.0	ug/l	UJ		
	Vinyl chloride	75-01-4	1.4	1.0	ug/l	J		

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 195389-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401953 11/9/20	3891	,		MW-127 2401953 11/9/20	23		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-8260	OD.									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	UJ
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	UJ
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	UJ
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	UJ
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	UJ
	Vinyl chloride	75-01-4	ND	1.0	ug/l		1.4	1.0	ug/l	J
OSW-8260	<u>DDSIM</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 # 240-195389-1

CADENA Verification Report: 2023-11-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52150R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-195389-1 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	Parent Sample	VOC	VOC SIM
TRIP BLANK_137	240-195389-1	Water	11/09/2023		Х	
MW-127S_110923	240-195389-2	Water	11/09/2023		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х	Х		
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		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	

Note: The laboratory received VOC vials with significant headspace for sample MW-127S_110923.

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. Sample Receipt Condition

The laboratory received VOC vials with significant headspace for sample MW-127S_110923. In case of any deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
Bubbles in VOC vials > 6 mm	Non-detect	UJ
Dubbles III VOC Vials > 0 IIIIII	Detect	J

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.

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.

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: Dilip Kumar

SIGNATURE:

DATE: December 15, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 18, 2023

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

<u>TestAmerica</u>

Client Contact	Regular	lory program:	:	[DW			NPDE	ES	-	RC	'RA	Г	Othe	er						_					
Company Name: Arcadis	CH I D		44				Im. o																			TestAmerica Laboratories, Inc
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City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240					Telep	hone	: 248-	994-2	2240					Telep	hone:	330-4	97-93	96						1 of 1 COC#
	Email: kristoff	er.hinskey@ar	cadis.c	OM			-	VIII.	WITC	rinre		Time							A	nalys	es					For lab use only
Phone: 248-994-2240	Sampler Name			-0			TAT	if differ	rent fron	n below	,	1	1													Walk-in client
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TRIP BLANK_ 137				1					1				N	G	Х	Х	X	Χ	Х	Х			Ī			1 Trip Blank
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11/27/202



Chain of Custody Record

<u>TestAmerica</u>

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Address: 28550 Cabot Drive, Suite 500	Telephone: 248	994-2240					Tales	nhon	a: 2.49	004	4-2240				_	Tolon	hanai	330-4	7 01	D.e					
City/State/Zip: Novi, MI, 48377													_			retep	none.	330-4							of 1 COCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	com				Aminy	ysis 11	urea	round	1 me							A	nalys	68			For lab us	e only
Project Name: Ford LTP Off-Site	Sampler Name	CICU		5	1	10	TAT	if diffi	irent fre		low 3 week		-											Walk-in d	ient
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195389-1

Client Sample ID: TRIP BLANK_137

Lab Sample ID: 240-195389-1 Date Collected: 11/09/23 00:00 **Matrix: Water**

Date Received: 11/14/23 10:00

Project/Site: Ford LTP - Off Site

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/18/23 16:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/23 16:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 16:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/23 16:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 16:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/23 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		11/18/23 16:28	1
4-Bromofluorobenzene (Surr)	113		56 - 136					11/18/23 16:28	1
Toluene-d8 (Surr)	115		78 - 122					11/18/23 16:28	1
Dibromofluoromethane (Surr)	114		73 - 120					11/18/23 16:28	1

Client Sample ID: MW-127S_110923

Date Collected: 11/09/23 14:45

Date Received: 11/14/23 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/23 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 120			•		11/22/23 21:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	ų UJ	1.0	0.49	ug/L			11/18/23 22:05	1
cis-1,2-Dichloroethene	1.0	u	1.0	0.46	ug/L			11/18/23 22:05	1
Tetrachloroethene	1.0	ų	1.0	0.44	ug/L			11/18/23 22:05	1
trans-1,2-Dichloroethene	1.0	ψ	1.0	0.51	ug/L			11/18/23 22:05	1
Trichloroethene	1.0	մ ↓	1.0	0.44	ug/L			11/18/23 22:05	1
Vinyl chloride	1.4	J	1.0	0.45	ug/L			11/18/23 22:05	1

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111	62 - 137		11/18/23 22:05	1
4-Bromofluorobenzene (Surr)	108	56 ₋ 136		11/18/23 22:05	1
Toluene-d8 (Surr)	111	78 - 122		11/18/23 22:05	1
Dibromofluoromethane (Surr)	108	73 - 120		11/18/23 22:05	1

Lab Sample ID: 240-195389-2

Matrix: Water