ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/21/2023 8:22:31 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-195003-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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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 <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-195003-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-195003-1

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

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Case Narrative

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

Job ID: 240-195003-1

Job ID: 240-195003-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-195003-1

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 11/8/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C

GC/MS VOA

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

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

Job ID: 240-195003-1

Sample Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-195003-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-195003-1	TRIP BLANK_38	Water	11/06/23 00:00	11/08/23 08:00
240-195003-2	MW-151S_110623	Water	11/06/23 11:00	11/08/23 08:00

1

4

9

10

12

13

12

Detection Summary

Client: ARCADIS US Inc Job ID: 240-195003-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_38 Lab Sample ID: 240-195003-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	1.2	1.0	0.45 ug/L		8260D	Total/NA

5

7

0

11

40

4 1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195003-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_38

Date Collected: 11/06/23 00:00 Date Received: 11/08/23 08:00 Lab Sample ID: 240-195003-1

Matrix: Water

Method: SW846 8260D - Vo Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/13/23 14:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/13/23 14:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/13/23 14:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/13/23 14:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/13/23 14:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/13/23 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					11/13/23 14:58	1
4-Bromofluorobenzene (Surr)	80		56 ₋ 136					11/13/23 14:58	1
Toluene-d8 (Surr)	100		78 - 122					11/13/23 14:58	1
Dibromofluoromethane (Surr)	95		73 - 120					11/13/23 14:58	1

11/21/2023

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195003-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-151S_110623

101

96

Lab Sample ID: 240-195003-2 Date Collected: 11/06/23 11:00

Matrix: Water

Date Received: 11/08/23 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/16/23 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		66 - 120					11/16/23 04:40	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			11/13/23 19:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/13/23 19:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/13/23 19:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/13/23 19:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/13/23 19:59	1
Vinyl chloride	1.2		1.0	0.45	ug/L			11/13/23 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137					11/13/23 19:59	1
4-Bromofluorobenzene (Surr)	81		56 ₋ 136					11/13/23 19:59	1

78 - 122

73 - 120

11/21/2023

11/13/23 19:59

11/13/23 19:59

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-195003-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	rcent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-195003-1	TRIP BLANK_38	102	80	100	95
240-195003-2	MW-151S_110623	103	81	101	96
240-195026-C-7 MS	Matrix Spike	96	92	103	97
240-195026-E-7 MSD	Matrix Spike Duplicate	96	92	103	96
LCS 240-594404/4	Lab Control Sample	97	93	103	98
MB 240-594404/6	Method Blank	102	82	100	97
Currente Legend					

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)	
240-194828-J-3 MS	Matrix Spike	96	
240-194828-P-3 MSD	Matrix Spike Duplicate	97	
240-195003-2	MW-151S_110623	89	
LCS 240-594782/13	Lab Control Sample	85	
MB 240-594782/15	Method Blank	94	

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

Client: ARCADIS US Inc Job ID: 240-195003-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-594404/6

Matrix: Water

Analysis Batch: 594404

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

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 11/13/23 14:33 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/13/23 14:33 1.0 U 0.44 ug/L Tetrachloroethene 1.0 11/13/23 14:33 0.51 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 11/13/23 14:33 Trichloroethene 1.0 U 1.0 0.44 ug/L 11/13/23 14:33 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/13/23 14:33

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 102 1,2-Dichloroethane-d4 (Surr) 11/13/23 14:33 4-Bromofluorobenzene (Surr) 82 56 - 136 11/13/23 14:33 100 78 - 122 Toluene-d8 (Surr) 11/13/23 14:33 Dibromofluoromethane (Surr) 97 73 - 120 11/13/23 14:33

Lab Sample ID: LCS 240-594404/4

Matrix: Water

Analysis Batch: 594404

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 1,1-Dichloroethene 25.0 25.0 100 63 - 134 ug/L 25.0 cis-1,2-Dichloroethene 22.4 90 ug/L 77 - 123 Tetrachloroethene 25.0 26.5 106 76 - 123 ug/L 75 - 124 trans-1.2-Dichloroethene 25.0 23.4 ug/L 94 Trichloroethene 25.0 24.0 ug/L 96 70 - 122 Vinyl chloride 12.5 11.0 ug/L 88 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 97 62 - 137 4-Bromofluorobenzene (Surr) 93 56 - 136 Toluene-d8 (Surr) 78 - 122 103 73 - 120 Dibromofluoromethane (Surr) 98

Lab Sample ID: 240-195026-C-7 MS

Matrix: Water

Analysis Batch: 594404

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 F1	25.0	22.1		ug/L		88	56 - 135	
cis-1,2-Dichloroethene	1.0	U F1	25.0	19.5		ug/L		78	66 - 128	
Tetrachloroethene	1.0	U F1	25.0	23.3		ug/L		93	62 - 131	
trans-1,2-Dichloroethene	1.0	U F1	25.0	20.0		ug/L		80	56 - 136	
Trichloroethene	1.0	U F1	25.0	20.3		ug/L		81	61 - 124	
Vinyl chloride	1.0	U F1	12.5	10.1		ug/L		81	43 - 157	

	MS	MS			
Surrogate	%Recovery	Qualifier	Limits		
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		
4-Bromofluorobenzene (Surr)	92		56 - 136		
Toluene-d8 (Surr)	103		78 - 122		

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Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-195003-1

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

Lab Sample ID: 240-195026-C-7 MS

Matrix: Water

Analysis Batch: 594404

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

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

Lab Sample ID: 240-195026-E-7 MSD

Matrix: Water

Analysis Batch: 594404

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Limits RPD Limit **Analyte** Result Qualifier Unit %Rec 1.0 UF1 1,1-Dichloroethene 25.0 25.3 ug/L 101 56 - 135 13 26 cis-1,2-Dichloroethene 1.0 UF1 25.0 21.8 ug/L 87 66 - 128 14 11 Tetrachloroethene 1.0 UF1 25.0 25.8 ug/L 103 62 - 13110 20 trans-1.2-Dichloroethene 1.0 U F1 25.0 22.4 90 15 ug/L 56 - 13611 Trichloroethene 1.0 UF1 25.0 22.9 ug/L 92 61 - 124 12 15 Vinyl chloride 1.0 UF1 12.5 11.0 ug/L 43 - 157 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

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

Lab Sample ID: MB 240-594782/15

Matrix: Water

Analysis Batch: 594782

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB **Analyte** Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 11/16/23 01:05 1,4-Dioxane 2.0 U 2.0 0.86 ug/L

Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 94 66 - 120 11/16/23 01:05

Lab Sample ID: LCS 240-594782/13

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 594782**

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 8.87 ug/L 89 80 - 122

LCS LCS

MB MB

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 85

Lab Sample ID: 240-194828-J-3 MS

Matrix: Water

Analysis Batch: 594782

Analysis Daton. 004702	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	10.4		ug/L		104	51 - 153	

Eurofins Cleveland

Prep Type: Total/NA

Client Sample ID: Matrix Spike

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QC Sample Results

Client: ARCADIS US Inc Job ID: 240-195003-1

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)	96		66 - 120								
Lab Sample ID: 240-1946 Matrix: Water Analysis Batch: 594782	328-P-3 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
1,4-Dioxane	2.0	U	10.0	10.8		ug/L		108	51 - 153	4	16
,											
,	MSD	MSD									
Surrogate	MSD %Recovery		Limits								

QC Association Summary

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

Job ID: 240-195003-1

GC/MS VOA

Analysis Batch: 594404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195003-1	TRIP BLANK_38	Total/NA	Water	8260D	
240-195003-2	MW-151S_110623	Total/NA	Water	8260D	
MB 240-594404/6	Method Blank	Total/NA	Water	8260D	
LCS 240-594404/4	Lab Control Sample	Total/NA	Water	8260D	
240-195026-C-7 MS	Matrix Spike	Total/NA	Water	8260D	
240-195026-E-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 594782

Lab Sample ID 240-195003-2	Client Sample ID MW-151S_110623	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-594782/15	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-594782/13	Lab Control Sample	Total/NA	Water	8260D SIM	
240-194828-J-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-194828-P-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

4

5

0

8

9

11

12

13

112

Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-195003-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-195003-1 Client Sample ID: TRIP BLANK_38

Date Collected: 11/06/23 00:00 **Matrix: Water**

Date Received: 11/08/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	594404	TJL2	EET CLE	11/13/23 14:58

Client Sample ID: MW-151S_110623 Lab Sample ID: 240-195003-2

Date Collected: 11/06/23 11:00 Date Received: 11/08/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	594404	TJL2	EET CLE	11/13/23 19:59
Total/NA	Analysis	8260D SIM		1	594782	CS	EET CLE	11/16/23 04:40

Laboratory References:

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

Matrix: Water

Eurofins Cleveland

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-195003-1

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
lowa	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

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

Cheat Project Manager. Kets Hinsky Single Manager. Kets Hinsky Sumple Date Sumpl		Regulatory program: DW	NPDES RCRA Other	
	oany Name: Arcadis			
Telephone: 248-994-2240 Telephone: 248-9	ess: 28550 Cabot Drive, Suite 500	CHECK TOJECE WANTAGET N. 13 THISACY		
Nample Date: Namp	State/Zin: Novi. MI 48377	Telephone: 248-994-2240		
10 day 3 weeks 10 day 10	SAL ONE SSA	Email: kristoffer.hinskey@arcadis.com		For lab use only
10 day 1 10 10 10 10 10 10 10	740-774-740	Sampler Name:	TAT if different from below	Walk-in client
	ct Name: Ford LTP Oif-Site	fort 1	_ >	[ab sampline
	ct Number: 30167538.402.04	Method of Shipment/Carrier:	Week N Adave	
	30167538.402.04	Shipping/Tracking No:	SeoD Crab	
		Matrix	DD	SS and
	Sample Identification	Sample Time Air Sediment Sediment	HCI AGOH Cando Cando Cando Conpost Filtered 5 Conpost	Sample Specific Notes Special Instructions:
	TRIP BLANK_ 38	1	× × × × × D N	1 Trip Blank
W6/23 (1000 C N N N N N N N N N N N N N N N N N				
Sample Disposal (A fee may be assessed if samp	1901 - 6151	(6/33 / 100	X X X X X Q Q	
Sample Disposal (A fee may be assessed if samp				
Sample Disposal (A fee may be assessed if samp				
			240-195003 Chain of Ct	stody
nt Poison B Unknown	Possible Hazard Identification Non-Hazard Flammable Skin Irritant	I Poison B Unknown	Sample Disposal (Afee may be assessed if samples are retained longer than I month) Return to Client Noneseal By Lab Archive For Mon	month) Months
	quished by I large		1610 Nous Company	Date Time Mal
Company Accelled Back 1010 Received by: Coll Shoot Date Timpe 11/1/23 1/010 Received by:	quished by: Jammer	Date/Time	20 Received of 1	1880
Company of Cooks Date Time State Received by: Cold Specy Company Cooks Date Time State State Specy Company Cooks Date Time State State Specy Company Cooks Date Time State State Specy Company Cooks Date Time State Specy Company Cooks Specy Specy Company Cooks Specy Specy Specy Company Cooks Specy Spe	Relinquished by QALL	Date Type:	1400 Received in Laboratory by Company	Time:

					160	7/3
Eurofins – Cleveland Sa Barberton Facility	mple Receipt Forn	n/Narrative	1	Login#	: 1150	000
Client A (Cadi	-	Site Name			Cooler un	packed by:
	3 70	11	8 77	- k		
Cooler Received on \\-	IDC FAC OV	Opened on 1	5 33		KAChe	THE THI UCT
		int Client Drop Off			ther	
Receipt After-hours: Drop Eurofins Cooler #		Client Cooler I	Storage Loc Other	-		
Packing material used			_			
- /	Wet Ice Blue Ice	Dry Ice Water				
Cooler temperature upo		21, 100	See Multiple C	ooler Form	1	
IR GUN# 22		C) Observed Coole				er Temps 1 °C
			1			
Were tamper/custody s			s Quantity	Yes		Tests that are not
-Were the seals on th			0.4.11.10		No NA	checked for pH by
-Were tamper/custod	-		g/MeHg)?	Yes		Receiving:
-Were tamper/custod	•	-			No NA	VOAs
3. Shippers' packing slip a				Yes		Oil and Grease
 Did custody papers according. Were the custody paper 		-	mlaco?	Ves		TOC
 Were the custody paper Was/were the person(s) 				(Yes)		<u></u>
 Was/were the person(s) Did all bottles arrive in 		•	ed on the COC?	Kes)		
8. Could all bottle labels (•	,	7.7	Ves	t.	
9. For each sample, does t	he COC specify pres	ervatives (YN), # of	containers (YN).			grab/comp(YN)?
10. Were correct bottle(s) u			,,	(Ves)		
11. Sufficient quantity rece				Yes		
12. Are these work share sa	-			Yes		
If yes, Questions 13-17	have been checked	at the originating labo	ratory.			
13. Were all preserved sam	ple(s) at the correct p	H upon receipt?		Yes	No (NA)p	H Strip Lot# HC316719
Were VOAs on the CO				Yes		
15. Were air bubbles >6 m				-	No NA	
16. Was a VOA trip blank	-	-		Yes	No	
17. Was a LL Hg or Me H	g trip blank present?			Yes	No	
Contacted PM	Date	by	via Ve	rbal Voi	ice Mail Oth	er
Concerning						
				- 141		
18. CHAIN OF CUSTOD	Y & SAMPLE DIS	CREPANCIES [additional next p	age	Samples proc	cessed by:
				L		
19. SAMPLE CONDITIO)N					
Sample(s)		were received after	the recommended	d holding	time had ex	pired.
Sample(s)			were re		a broken co	
Sample(s)				mm in o	diameter. (No	otify PM)
20. SAMPLE PRESERVA	ATION					
Sample(s)			11/6	ere furth	er preserved	in the laboratory.
Sample(s) Time preserved:	Preservative(s) a	added/Lot number(s):		161111	p	
VOA Sample Preservation						

DATA VERIFICATION REPORT



November 21, 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: 195003-1 Sample date: 2023-11-06

Report received by CADENA: 2023-11-21

Initial Data Verification completed by CADENA: 2023-11-21

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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 $48108\ 517\text{-}819\text{-}0356$

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: 195003-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401950 11/6/20	0031			MW-153 2401950 11/6/20	0032	23	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>					_					
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		1.2	1.0	ug/l	
OSW-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-195003-1

CADENA Verification Report: 2023-11-21

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52128R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-195003-1 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	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_38	240-195003-1	Water	11/06/2023		Х	
MW-151S_110623	240-195003-2	Water	11/06/2023		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Reported		Performance Acceptable		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	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.

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	oorted		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		X		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: December 15, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 19, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190 Test

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

Chain of Custody Record

MICHIGAN 190

Client Contact	Regulat	ory program		⊨ DW		T NP	DES	f	RCRA		Oth	er [
Company Name: Arcadis	Client Project Manager: Kris Hinskey				Site Contact: Christina Weaver						Lab Contact: Mike DelMonico						TestAmerica Laborator ICOC No:	ies, Inc.					
Address: 28550 Cabot Drive, Suite 500	T-1-1-249	004 2240																	110.				
City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240								Telephone: 330-497-9396						1 of 1 CO	Cs						
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.com			Ans	lysis T	urnar	ound Time							A	nalys	es				For lab use only	
	Sampler Name	:	2			TATird	efferent tr	rom belo	w	-												Walk-in client	
Project Name: Ford LTP Off-Site		Kent 16	woo			10 d		2 2	weeks														
Project Number: 30167538.402.04	Method of Ship					10 0	ay	F 15	week	2	ပ္							SIM				Lab sampling	
PO # 30167538.402.04	Shipping/Track	ing No:							days day	(X)	Grab		8	8260D			009	S DO				Job/SDG No:	
				Matrix		- 6			_	Sample (Y / N)	9/3	8260D	8260D				e 82	8260D				300/32/3 110:	
				Materix		Co	ntainer	s & Pre	eservatives		He	826	CE	2-D	G09	8260D	lorid	ane					
Sample Identification	Sample Date	Sample Time	Air Aqurous	Sediment	Other:	H2SO4 HNO3	HC	NaOH	Unpres Other:	Filtered	Сетро	1.1-DCE	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 82	Vinyl Chloride 8260D	1,4-Dioxane				Sample Specific Not Special Instruction	
TRIP BLANK_ 38			1				1			N	G	Х	Х	X	Х	Х	X					1 Trip Blank	
	1 /	. 13 =	1				1,			١.											+	3 VOAs for 8260D	
mw-1515_110623	11/6/23	1100	10				4		\perp	N	6	x	λ	X	X	X	Y	X.				3 VOAs for 8260D	
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Possible Hazard Identification						Samp	ole Disp	posal (A fee may				les are	retai	ned lo	nger t	han I	month)				
Non-Hazard Flammable Skin Ir Special Instructions/QC Requirements & Comments:	ritant Poise	n B	Unknow	1			Return	n to Cli	ient 🕝	Dispos	sal By	y Lab		A	rchive	For [Мо	onths				
Sample Address: 12091 13 rewort																							
Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.	ico.com. Cadena #	E203631																					
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195003-1

Client Sample ID: TRIP BLANK_38

Lab Sample ID: 240-195003-1

Date Collected: 11/06/23 00:00 **Matrix: Water** Date Received: 11/08/23 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			11/13/23 14:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/13/23 14:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/13/23 14:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/13/23 14:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/13/23 14:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/13/23 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					11/13/23 14:58	1
4-Bromofluorobenzene (Surr)	80		56 - 136					11/13/23 14:58	1
Toluene-d8 (Surr)	100		78 - 122					11/13/23 14:58	1
Dibromofluoromethane (Surr)	95		73 - 120					11/13/23 14:58	

Client Sample ID: MW-151S_110623 Lab Sample ID: 240-195003-2

Date Collected: 11/06/23 11:00 Date Received: 11/08/23 08:00

Project/Site: Ford LTP - Off Site

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/16/23 04:40	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	89		66 - 120			-		11/16/23 04:40	1	

Method: SW846 8260D - Vo	Diatile Organic	Compounds	by GC/IVIS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/13/23 19:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/13/23 19:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/13/23 19:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/13/23 19:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/13/23 19:59	1
Vinyl chloride	1.2		1.0	0.45	ug/L			11/13/23 19:59	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	62 - 137		11/13/23 19:59	1
4-Bromofluorobenzene (Surr)	81	56 - 136		11/13/23 19:59	1
Toluene-d8 (Surr)	101	78 - 122		11/13/23 19:59	1
Dibromofluoromethane (Surr)	96	73 - 120		11/13/23 19:59	1

Matrix: Water