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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/28/2023 2:43:38 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-190173-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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Authorization

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8/28/2023

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-190173-1

Table of Contents

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

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-190173-1

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.
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Eisted 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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Page 4 of 21 8/28/2023

Case Narrative

Client: ARCADIS US Inc

Job ID: 240-190173-1 Project/Site: Ford LTP - Off Site

Job ID: 240-190173-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-190173-1

Receipt

The samples were received on 8/15/2023 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 2.0°C and 2.2°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

Job ID: 240-190173-1

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: 240-190173-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-190173-1	TRIP BLANK_112	Water	08/14/23 00:00	08/15/23 10:00
240-190173-2	MW-167S_081523	Water	08/14/23 11:40	08/15/23 10:00

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-190173-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_112 Lab Sample ID: 240-190173-1

No Detections.

No Detections.

1

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12

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-190173-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_112

Date Collected: 08/14/23 00:00 Date Received: 08/15/23 10:00 Lab Sample ID: 240-190173-1

Matrix: Water

Method: SW846 8260D - Vo	latile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/22/23 20:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 20:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 20:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 20:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 20:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					08/22/23 20:20	1
4-Bromofluorobenzene (Surr)	90		56 ₋ 136					08/22/23 20:20	1
Toluene-d8 (Surr)	102		78 - 122					08/22/23 20:20	1
Dibromofluoromethane (Surr)	105		73 - 120					08/22/23 20:20	1

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-190173-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-167S_081523

Date Collected: 08/14/23 11:40 Date Received: 08/15/23 10:00

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-190173-2

Prepared

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			08/23/23 12:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 120					08/23/23 12:42	1
Method: SW846 8260D - Vo Analyte	_	Compoune Qualifier	ds by GC/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS						
		Qualifier	•			<u>D</u>	Prepared	Analyzed 08/23/23 01:21	Dil Fac
Analyte	Result	Qualifier U	RL	0.49	Unit ug/L ug/L	<u>D</u>	Prepared	·	Dil Fac
Analyte 1,1-Dichloroethene	1.0	Qualifier U U	1.0 —	0.49 0.46	ug/L	<u> </u>	Prepared	08/23/23 01:21	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u>	Prepared	08/23/23 01:21 08/23/23 01:21	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	RL 1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	<u> </u>	Prepared	08/23/23 01:21 08/23/23 01:21 08/23/23 01:21	Dil Fac 1 1 1 1 1 1 1 1

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

115

87

103

105

14

Dil Fac

Analyzed

08/23/23 01:21

08/23/23 01:21

08/23/23 01:21

08/23/23 01:21

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-190173-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				icent Sunt	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-190173-1	TRIP BLANK_112	113	90	102	105
240-190173-2	MW-167S_081523	115	87	103	105
240-190226-E-2 MS	Matrix Spike	106	98	108	103
240-190226-H-2 MSD	Matrix Spike Duplicate	104	100	107	104
LCS 240-584780/4	Lab Control Sample	105	99	106	105
MB 240-584780/7	Method Blank	110	89	103	102

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)	
240-190171-F-5 MS	Matrix Spike	115	
240-190171-F-5 MSD	Matrix Spike Duplicate	102	
240-190173-2	MW-167S_081523	102	
LCS 240-584837/5	Lab Control Sample	102	
MB 240-584837/7	Method Blank	103	
Surrogate Legend			

Client: ARCADIS US Inc Job ID: 240-190173-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-584780/7

Matrix: Water

Analysis Batch: 584780

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 0.49 ug/L 1,1-Dichloroethene 1.0 U 1.0 08/22/23 17:25 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/22/23 17:25 1.0 U 0.44 ug/L Tetrachloroethene 1.0 08/22/23 17:25 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 08/22/23 17:25 Trichloroethene 10 U 1.0 0.44 ug/L 08/22/23 17:25 Vinyl chloride 1.0 U 1.0 0.45 ug/L 08/22/23 17:25

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		08/22/23 17:25	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136		08/22/23 17:25	1
Toluene-d8 (Surr)	103		78 - 122		08/22/23 17:25	1
Dibromofluoromethane (Surr)	102		73 - 120		08/22/23 17:25	1

Lab Sample ID: LCS 240-584780/4

Matrix: Water

Analysis Batch: 584780

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS Spike %Rec Analyte Added Result Qualifier Limits Unit D %Rec 1,1-Dichloroethene 25.0 25.7 ug/L 103 63 - 134 25.0 cis-1,2-Dichloroethene 23.2 93 77 - 123 ug/L Tetrachloroethene 25.0 24.8 99 76 - 123 ug/L trans-1,2-Dichloroethene 75 - 124 25.0 24.0 ug/L 96 Trichloroethene 25.0 23.3 ug/L 93 70 - 122 Vinyl chloride 12.5 10.6 ug/L 85 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 105 62 - 137 4-Bromofluorobenzene (Surr) 99 56 - 136 78 - 122 Toluene-d8 (Surr) 106 73 - 120 Dibromofluoromethane (Surr) 105

Lab Sample ID: 240-190226-E-2 MS

Matrix: Water

Analysis Batch: 584780

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	25.0	25.8		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	22.7		ug/L		91	66 - 128	
Tetrachloroethene	1.0	U	25.0	24.1		ug/L		97	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	23.5		ug/L		94	56 - 136	
Trichloroethene	1.0	U	25.0	22.1		ug/L		88	61 - 124	
Vinyl chloride	1.0	U	12.5	11.2		ug/L		89	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	108		78 - 122

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Page 12 of 21

Client: ARCADIS US Inc Job ID: 240-190173-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-190226-E-2 MS

Matrix: Water

Analysis Batch: 584780

MS MS

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

Lab Sample ID: 240-190226-H-2 MSD

Matrix: Water

Analysis Batch: 584780

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 1.0 U 1,1-Dichloroethene 25.0 25.8 ug/L 103 56 - 135 0 26 cis-1,2-Dichloroethene 1.0 U 25.0 22.8 ug/L 91 66 - 128 O 14 Tetrachloroethene 1.0 U 25.0 23.9 ug/L 96 62 - 13120 56 - 136 trans-1.2-Dichloroethene 1.0 U 25.0 23.6 94 15 ug/L Trichloroethene 1.0 U 25.0 22.6 ug/L 90 61 - 124 2 15 Vinyl chloride 1.0 U 12.5 10.5 ug/L 43 - 157 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	107		78 - 122
Dibromofluoromethane (Surr)	104		73 - 120

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

Lab Sample ID: MB 240-584837/7

Matrix: Water

Analysis Batch: 584837

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

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 08/23/23 10:43

MB MB

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 103 66 - 120 08/23/23 10:43

Lab Sample ID: LCS 240-584837/5

Analysis Batch: 584837

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

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 9.93 ug/L 99 80 - 122

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 102 66 - 120

Lab Sample ID: 240-190171-F-5 MS

Matrix: Water

Analysis Batch: 584837

Analysis Buton: 004007	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	10.7		ug/L		107	51 - 153	

Eurofins Cleveland

Prep Type: Total/NA

Client Sample ID: Matrix Spike

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-190173-1

Project/Site: Ford LTP - Off Site

Surrogate

1,2-Dichloroethane-d4 (Surr)

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

%Recovery Qualifier

102

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	115		66 - 120								
Lab Sample ID: 240-190 Matrix: Water Analysis Batch: 584837	171-F-5 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	11.5		ug/L		115	51 - 153	8	16

Limits

66 - 120

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Page 14 of 21

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QC Association Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-190173-1

GC/MS VOA

Analysis Batch: 584780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190173-1	TRIP BLANK_112	Total/NA	Water	8260D	
240-190173-2	MW-167S_081523	Total/NA	Water	8260D	
MB 240-584780/7	Method Blank	Total/NA	Water	8260D	
LCS 240-584780/4	Lab Control Sample	Total/NA	Water	8260D	
240-190226-E-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-190226-H-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 584837

Lab Sample ID 240-190173-2	Client Sample ID MW-167S_081523	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-584837/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-584837/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-190171-F-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-190171-F-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-190173-1

Project/Site: Ford LTP - Off Site

Date Received: 08/15/23 10:00

Client Sample ID: TRIP BLANK_112

Lab Sample ID: 240-190173-1 Date Collected: 08/14/23 00:00

Matrix: Water

Batch Batch Dilution Batch Prepared Method **Prep Type Factor** Number Analyst or Analyzed Type Run Lab 08/22/23 20:20 Total/NA Analysis 8260D 584780 CDG EET CLE

Client Sample ID: MW-167S_081523 Lab Sample ID: 240-190173-2

Date Collected: 08/14/23 11:40 **Matrix: Water**

Date Received: 08/15/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	584780	CDG	EET CLE	08/23/23 01:21
Total/NA	Analysis	8260D SIM		1	584837	MRL	EET CLE	08/23/23 12:42

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: 240-190173-1 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	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

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

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Eurofins - Cleveland Sample Receipt Form/Narrative Barberton Facility	Login	#:	
Client Acade S Site Name		Cooler un	packed by:
	-15-23		
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Receipt After-hours: Drop-off Date/Time		Other /	
	Storage Location Box Other		
Packing material used: Rubble Wrap Foam Plastic Bag			
COOLANT: Wet Ice Blue Ice Dry Ice Water			
1. Cooler temperature upon receipt	See Multiple Cooler Fo	orm	
IR GUN #(CF		Corrected Cool	er Temp. °C
			or romp.
2. Were tamper/custody seals on the outside of the cooler(s)? If Ye	·	g No	Tests that are not
-Were the seals on the outside of the cooler(s) signed & dated?		No NA	checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle kits (LLH	• •	s (10)	Receiving:
-Were tamper/custody seals intact and uncompromised?		s No NA	VOAs
3. Shippers' packing slip attached to the cooler(s)?		D No	Oil and Grease
 Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate 	(P No P No	TOC
6. Was/were the person(s) who collected the samples clearly identifi	-	No l	
7. Did all bottles arrive in good condition (Unbroken)?		R No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the CO		No	
9. For each sample, does the COC specify preservatives (Y(N), # of			rab/comp(X/N)?
10. Were correct bottle(s) used for the test(s) indicated?	_	D No	
11. Sufficient quantity received to perform indicated analyses?	1,) No	•
12. Are these work share samples and all listed on the COC?	_	(M)	
If yes, Questions 13-17 have been checked at the originating labo			
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pl	H Strip Lot# HC312502
14. Were VOAs on the COC?		No T	
15. Were air bubbles >6 mm in any VOA vials? 🛑 悔 Larger th		(No NA	
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #		No	
7. Was a LL Hg or Me Hg trip blank present?	Yes	1	
Contacted PM Date by	vio Verbol V	oice Mail Oth	ar
Date by	via veibai v	Olce Man Out	Δ I
Concerning			
	4414		1.1
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES L	additional next page	Samples proc	essed by:
	•	L	
9. SAMPLE CONDITION			

18. CHAIN OF CUSTODY & SAMPLE D	ISCREPANCIES	additional next page	Samples processed by:

10 SAMPLE CONDITION			
19. SAMPLE CONDITION Sample(s)	were received a	after the recommended hold	ing time had expired.
19. SAMPLE CONDITION Sample(s) Sample(s)			
Sample(s)		were received	l in a broken container.
Sample(s)		were received	l in a broken container.
Sample(s)Sample(s)Sample(s)		were received with bubble >6 mm	l in a broken container.

≈ ₽		
Login	#	

	Eurofins - Cant	on Sample Receipt Mu	ultiple Cooler Form	
Cooler Description		Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
EC Client Box Oth		2.4	2.2	Wellee Blue Ice Dry Ice Water None
(EC) Client Box Oth	er IR GUN #:,2/_	2.2	2.0	Wellco Dive 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 #:			Wettige Blue Ice Dry Ice Water None
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EC Client Box Other	IR GUN #:		· ·	Wet ice Blue ice Dry ice Water None
	-		☐ See Tempe	rature Excursion Form
				ì

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

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ATTN: SAMPLE HEUER... EUROFINS CLEVELAND 180,S. VAN BUREN AVE. 10:30

1616 08.15

BARBERTON OH 44203



Fedex Express

2 of 2 MPS# 6189 7343 1616 Metr# 6189 7343 1606 TUE - 15 AUG 10:30A PRIORITY OVERNIGHT



44203 H-US CLE



DATA VERIFICATION REPORT



August 28, 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: 190173-1 Sample date: 2023-08-14

Report received by CADENA: 2023-08-28

Initial Data Verification completed by CADENA: 2023-08-28

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

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

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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: 190173-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_112 2401901731 8/14/2023				MW-167S_081523 2401901732 8/14/2023			
				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		ND	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 # 240-190173-1

CADENA Verification Report: 2023-08-28

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51155R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-190173-1 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	Barant Sample	Ana	ılysis	
Sample ID	Labib	IVIALITA	Collection Date	Parent Sample	VOC	VOC SIM	
TRIP BLANK_112	240-190173-1	Water	08/14/2023		Х		
MW-167S_081423	240-190173-2	Water	08/14/2023		Х	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed		Reported		Performance Acceptable		Not Required
		No	Yes	No	Yes	Required
1. Sample receipt condition			Х	X		
2. Requested analyses and san	ple results		Х		X	
Master tracking list			Х		Х	
4. Methods of analysis			Х		X	
5. Reporting limits			Х		X	
6. Sample collection date			Х		X	
7. Laboratory sample received	date		Х		X	
8. Sample preservation verificat	ion (as applicable)		Х		X	
9. Sample preparation/extractio	n/analysis dates		Х		X	
10. Fully executed Chain-of-Cust	ody (COC) form		Х		Х	
Narrative summary of Quality problems provided	Assurance or sample		Х		Х	
12. Data Package Completeness	and Compliance		Х		X	

1. Sample ID for MW-167S_081423 (240-190173-2) was wrongly entered in lab report. The same was corrected as per chain of custody (COC). Kindly find the details in table below.

Laboratory ID	Sample ID as per Lab report	Sample ID as per COC
240-190173-2	MW-167S_081523	MW-167S_081423

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 Performance Not Acceptable Required				
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation	<u>'</u>				'
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				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: Bindu Sree M B

SIGNATURE: BAShims

DATE: September 15, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 20, 2023

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

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TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 I TERRY TE NEWS AND WAR THE Regulatory program: 1 DW NPDES RCRA Other Company Name: Areadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of COCs Email: kristoffer.hinskey@arcadis.com **Analysis Turnaround Time** Analyses For lab use only Phone: 248-994-2240 TAT if different from below Sampler Name: Walk-in client Project Name: Ford LTP Off-Site 3 weeks JOE FOSTIK 10 day 2 weeks Project Number: 30167538.402.04 Lab sampling Method of Shipment/Carrier: 1 week 8260D SIM mple (Y/N) rans-1,2-DCE 8260D 2 days 8260D PO # 30167538,402,04 C/Grail Shipping/Tracking No: is-1,2-DCE 8260D 1 day Job/SDG No: /inyl Chloride Matrix Containers & Preservatives ,4-Dioxane PCE 8260D CE 8260D H2S04 HN03 NaOH Sample Specific Notes / Solid **Special Instructions:** Sample Identification Sample Time Sample Date TRIP BLANK_ 1/2 G Χ Х X Х 1 Trip Blank MW-1675_081423 6 6 8-14-23 1140 G 3 VOAs for 8260D 3 VOAs for 8260D SIM Page 352 of 355 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard Skin Irritant Flammable Poison B Unknown Return to Client | Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Sample Address: 12001 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by: Received by: Date/Time: FOSTILL Arcadis 8-14-23 STORAGE Arcadis Relinquished/by Relinquished by Date/Time: 8/14/23 1000

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-190173-1

Client Sample ID: TRIP BLANK_112

Lab Sample ID: 240-190173-1 Date Collected: 08/14/23 00:00 **Matrix: Water**

Date Received: 08/15/23 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			08/22/23 20:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 20:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 20:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 20:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 20:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					08/22/23 20:20	1
4-Bromofluorobenzene (Surr)	90		56 ₋ 136					08/22/23 20:20	1
Toluene-d8 (Surr)	102		78 - 122					08/22/23 20:20	1
Dibromofluoromethane (Surr)	105		73 - 120					08/22/23 20:20	1

Client Sample ID: MW-167S_081523 MW-167S_081423 Lab Sample ID: 240-190173-2

Date Collected: 08/14/23 11:40 Date Received: 08/15/23 10:00

Analyte	•	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86 ug/L			08/23/23 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 120				08/23/23 12:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/23/23 01:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/23/23 01:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/23/23 01:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/23/23 01:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/23/23 01:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/23/23 01:21	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115	62 - 137		08/23/23 01:21	1
4-Bromofluorobenzene (Surr)	87	56 ₋ 136		08/23/23 01:21	1
Toluene-d8 (Surr)	103	78 - 122		08/23/23 01:21	1
Dibromofluoromethane (Surr)	105	73 - 120		08/23/23 01:21	1

Matrix: Water