PREPARED FOR

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

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JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-190178-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

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Job Notes

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Authorization

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Authorized for release by
Ann Maddux, Project Management Assistant I
ann.maddux@et.eurofinsus.com
Designee for
Michael DelMonico, Project Manager I
Michael.DelMonico@et.eurofinsus.com
(330)497-9396

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-190178-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-190178-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

E Result exceeded calibration range.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or n	ay not be present in this report.
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Example 2 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: 240-190178-1

Job ID: 240-190178-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-190178-1

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

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 584681 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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: 240-190178-1

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

Sample Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-190178-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-190178-1	TRIP BLANK_65	Water	08/11/23 00:00	08/15/23 10:00
240-190178-2	MW-130S_081123	Water	08/11/23 09:05	08/15/23 10:00

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-190178-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_65 Lab Sample ID: 240-190178-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	2.2	1.0	0.45 ug/L	1	8260D	Total/NA

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-190178-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_65

Date Collected: 08/11/23 00:00 Date Received: 08/15/23 10:00 Lab Sample ID: 240-190178-1

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			08/22/23 16:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 16:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 16:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					08/22/23 16:27	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					08/22/23 16:27	1
Toluene-d8 (Surr)	100		78 - 122					08/22/23 16:27	1
Dibromofluoromethane (Surr)	97		73 - 120					08/22/23 16:27	1

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-190178-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-130S_081123

94

94

Date Collected: 08/11/23 09:05

Date Received: 08/15/23 10:00

Dibromofluoromethane (Surr)

Dibromofluoromethane (Surr)

Lab Sam	ple ID	: 240-19	90178-2
-as can			JU U _

08/22/23 16:52

08/23/23 13:56

Matrix: Water

Method: SW846 8260D SIM	_		•	•		_	_		
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 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 120			•		08/23/23 13:54	1
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 16:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 16:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 16:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:52	1
Vinyl chloride	2.2		1.0	0.45	ug/L			08/23/23 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137					08/22/23 16:52	1
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					08/23/23 13:56	1
4-Bromofluorobenzene (Surr)	95		56 ₋ 136					08/22/23 16:52	1
4-Bromofluorobenzene (Surr)	94		56 - 136					08/23/23 13:56	1
Toluene-d8 (Surr)	99		78 - 122					08/22/23 16:52	1
Toluene-d8 (Surr)	94		78 - 122					08/23/23 13:56	1

73 - 120

73 - 120

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-190178-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-190178-1	TRIP BLANK_65	96	96	100	97
240-190178-2	MW-130S_081123	95	95	99	94
240-190178-2	MW-130S_081123	96	94	94	94
240-190178-2 MS	MW-130S_081123	94	99	101	98
240-190178-2 MSD	MW-130S_081123	94	101	100	101
240-190299-D-14 MS	Matrix Spike	79	95	101	91
240-190299-H-14 MSD	Matrix Spike Duplicate	88	100	99	92
LCS 240-584681/4	Lab Control Sample	94	101	102	97
LCS 240-584869/4	Lab Control Sample	86	96	98	89
MB 240-584681/7	Method Blank	96	96	100	97
MB 240-584869/7	Method Blank	95	96	98	92

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

		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	
240-190178-2	MW-130S_081123	105	
LCS 240-584837/5	Lab Control Sample	102	
MB 240-584837/7	Method Blank	103	

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

Client: ARCADIS US Inc Job ID: 240-190178-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-584681/7

Matrix: Water

Analysis Batch: 584681

Client Sample ID: Method Blank **Prep 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 08/22/23 11:25 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/22/23 11:25 1.0 U Tetrachloroethene 1.0 0.44 ug/L 08/22/23 11:25 0.51 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 08/22/23 11:25 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/22/23 11:25 Vinyl chloride 1.0 0.45 ug/L 08/22/23 11:25 1.0 U

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 96 1,2-Dichloroethane-d4 (Surr) 62 - 137 08/22/23 11:25 4-Bromofluorobenzene (Surr) 96 56 - 136 08/22/23 11:25 100 78 - 122 08/22/23 11:25 Toluene-d8 (Surr) Dibromofluoromethane (Surr) 97 73 - 120 08/22/23 11:25

Lab Sample ID: LCS 240-584681/4

Matrix: Water

Analysis Batch: 584681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 25.0 93 63 - 134 1,1-Dichloroethene 23.3 ug/L cis-1,2-Dichloroethene 25.0 99 24.7 ug/L 77 - 123 Tetrachloroethene 24.5 76 - 123 25.0 ug/L 98 trans-1.2-Dichloroethene 25.0 23.8 ug/L 95 75 - 124 Trichloroethene 25.0 23.0 92 70 - 122 ug/L Vinyl chloride 12.5 8.34 ug/L 67 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 62 - 137 4-Bromofluorobenzene (Surr) 101 56 - 136 Toluene-d8 (Surr) 102 78 - 122 73 - 120 Dibromofluoromethane (Surr) 97

Lab Sample ID: 240-190178-2 MS

Matrix: Water

Analysis Batch: 584681

Client Sample ID: MW-130S_081123 Prep Type: Total/NA

Analysis Baton: 004001	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	24.2		ug/L		97	66 - 128	
Tetrachloroethene	1.0	U	25.0	25.7		ug/L		103	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	56 - 136	
Trichloroethene	1.0	U	25.0	23.5		ug/L		94	61 - 124	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	99		56 ₋ 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

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Client: ARCADIS US Inc Job ID: 240-190178-1 Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-190178-2 MSD

Matrix: Water

Analysis Batch: 584681

Client Sample	ID: MW-130S_	081123
	Prep Type: T	otal/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	26.1		ug/L		104	56 - 135	9	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.7		ug/L		99	66 - 128	2	14
Tetrachloroethene	1.0	U	25.0	26.9		ug/L		108	62 - 131	5	20
trans-1,2-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	56 - 136	4	15
Trichloroethene	1.0	U	25.0	24.0		ug/L		96	61 - 124	2	15

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 584869

Matrix: Water

Lab Sample ID: MB 240-584869/7

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/23/23 13:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/23/23 13:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/23/23 13:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/23/23 13:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/23/23 13:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/23/23 13:09	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	62 - 137		08/23/23 13:09	1
4-Bromofluorobenzene (Surr)	96	56 - 136		08/23/23 13:09	1
Toluene-d8 (Surr)	98	78 - 122		08/23/23 13:09	1
Dibromofluoromethane (Surr)	92	73 - 120		08/23/23 13:09	1

Lab Sample ID: LCS 240-584869/4

Matrix: Water

Analysis Batch: 584869

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

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	26.5		ug/L		106	63 - 134	
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	77 - 123	
Tetrachloroethene	25.0	25.4		ug/L		102	76 - 123	
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	75 - 124	
Trichloroethene	25.0	25.6		ug/L		102	70 - 122	
Vinyl chloride	12.5	12.1		ug/L		97	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		62 - 137
4-Bromofluorobenzene (Surr)	96		56 ₋ 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	89		73 - 120

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Client: ARCADIS US Inc Job ID: 240-190178-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-190299-D-14 MS

Matrix: Water

Analysis Batch: 584869

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

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier %Rec Limits Analyte Unit 1,1-Dichloroethene 1.0 U 25.0 24.3 ug/L 97 56 - 135 cis-1,2-Dichloroethene 7.7 25.0 31.3 ug/L 94 66 - 128 Tetrachloroethene 1.0 U 25.0 27.6 ug/L 110 62 - 131 26.7 trans-1,2-Dichloroethene 1.0 25.0 ug/L 107 56 - 136 Trichloroethene 46 25.0 72.6 E ug/L 106 61 - 124Vinyl chloride 12.5 88 43 - 157 1.0 U 11.0 ug/L

MS MS Surrogate %Recovery Qualifier Limits 62 - 137 1,2-Dichloroethane-d4 (Surr) 79 4-Bromofluorobenzene (Surr) 95 56 - 136 101 Toluene-d8 (Surr) 78 - 122 Dibromofluoromethane (Surr) 91 73 - 120

Lab Sample ID: 240-190299-H-14 MSD

Matrix: Water

Analysis Batch: 584869

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

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit 1.0 U 25.0 56 - 135 1,1-Dichloroethene 27.7 ug/L 111 13 26 cis-1.2-Dichloroethene 7.7 25.0 33.6 104 66 - 128ug/L 7 14 Tetrachloroethene 25.0 29.5 118 20 1.0 ug/L 62 - 131trans-1.2-Dichloroethene 10 U 25.0 26.5 ug/L 106 56 - 136 15 Trichloroethene 25.0 75.3 E 117 15 46 ug/L 61 - 124 ug/L Vinyl chloride 1.0 U 12.5 12.0 96 43 - 157 24

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 88 62 - 137 4-Bromofluorobenzene (Surr) 100 56 - 136 Toluene-d8 (Surr) 99 78 - 122 92 73 - 120 Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-584837/7

Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 584837** MR MR

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

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

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-190178-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: LCS 240-584837/5

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

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

10

Matrix: Water
Analysis Batch: 584837

 Analyte
 Added 1,4-Dioxane
 Result 10.0
 Qualifier 10.0
 Unit 10.0</t

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

Lab Sample ID: 240-190171-F-5 MS Client Sample ID: Matrix Spike

Matrix: Water Prep Type: Total/NA
Analysis Batch: 584837

Sample Sample Spike MS MS %Rec

AnalyteResult
1,4-DioxaneQualifier
UAdded
UResult
10.0Qualifier
10.0Unit
ug/LD
ug/L%Rec
ug/LLimits
107

Surrogate

NS MS

Recovery Qualifier Limits

1,2-Dichloroethane-d4 (Surr)

115 66 - 120

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

Client Sample ID: Matrix Spike Duplicate

Matrix: Water Prep Type: Total/NA Analysis Batch: 584837

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 1

8/28/2023

QC Association Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-190178-1

GC/MS VOA

Analysis Batch: 584681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190178-1	TRIP BLANK_65	Total/NA	Water	8260D	
240-190178-2	MW-130S_081123	Total/NA	Water	8260D	
MB 240-584681/7	Method Blank	Total/NA	Water	8260D	
LCS 240-584681/4	Lab Control Sample	Total/NA	Water	8260D	
240-190178-2 MS	MW-130S_081123	Total/NA	Water	8260D	
240-190178-2 MSD	MW-130S_081123	Total/NA	Water	8260D	

Analysis Batch: 584837

Lab Sample ID 240-190178-2	Client Sample ID MW-130S_081123	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	

Analysis Batch: 584869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190178-2	MW-130S_081123	Total/NA	Water	8260D	
MB 240-584869/7	Method Blank	Total/NA	Water	8260D	
LCS 240-584869/4	Lab Control Sample	Total/NA	Water	8260D	
240-190299-D-14 MS	Matrix Spike	Total/NA	Water	8260D	
240-190299-H-14 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-190178-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_65

Lab Sample ID: 240-190178-1 Date Collected: 08/11/23 00:00 **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
L	Total/NA	Analysis	8260D		1	584681	LEE	EET CLE	08/22/23 16:27

Lab Sample ID: 240-190178-2 **Client Sample ID: MW-130S_081123**

Date Collected: 08/11/23 09:05 **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	584681	LEE	EET CLE	08/22/23 16:52
Total/NA	Analysis	8260D		1	584869	LEE	EET CLE	08/23/23 13:56
Total/NA	Analysis	8260D SIM		1	584837	MRL	EET CLE	08/23/23 13:54

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-190178-1 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

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

TestA	Test America I sharatary laration - Brichton 10448 Citation Drive. Suite 2007 Brichton, M. 48416, 7940, 220, 2722	uhton 10448 Citation	Drive Suite 200 / Bri	nbton MI 48116	7 840 998 9	ç			_		- m
Client Contact	Regulatory program:	MQ	NPDES	RCRA	Other	20	And the state of t			To Yo	
Company Name: Arcadis	200 - 100 -								·	TestAmerica Laboratories, In	
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	key	Site Contact: Christina Weaver	a Weaver	=	Lab Contact: Mike DelMonico	ike DelMon	03		COC No:	
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240		Telephone: 248-994-2240	240		Telephone: 330-497-9396	-497-9396				77
	Email: kristoffer.hinskey@arcadis.com	S.com	Analysis Turnaround Time	md Time	L		Analyses	ses		for lab we cont.	_
Phone: 248-994-2240					L		_			ror and use only	
Project Name: Ford LTP Off-Site	Sampler Name:	18050	ant from b	stow 3 weeks						Walk-in client	
Project Number: 30167538.402.04	Method of Shipment/Carrier:	· VI	10 day	9	D=	۵		Mi		Lab sampling	
PO # 30167538.402.04	Shipping/Tracking No:		z days 1 day	**************************************				S Q092		Job/SDG No:	
		Matrix	Containers & Preservati	ves	-	DCI	a(:8 əu			
Sample Identification	Sample Date Sample Time	Aqueous Sediment Solid Other:	NªOH NªOH HCI HCI HXOO	Unpres Other:	Composit	Cis-1,2-D(Trans-1,2 PCE 826(TCE 8260	.exoid-4,1		Sample Specific Notes / Special Instructions:	
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Possible Hazard Identification Non-Hazard Flammable Skin Irritar	Poison B	Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client V Disposal By Lab Archive For Mo	fee may be asses	e assessed if sample Disposal By Lab	s are retained	ained longer than	month)			
Special Instructions/QC Requirements & Comments: Sample Address: $34600 \text{ Becco} < 5$ Submit all results through Cade* at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	St. dena #E203631							CHIDAL			
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(\$2008 TestAmerica Laboratories, Inc. All rights reserved. TestAmerica & Design " are trademarks of TestAmerica Laboratories Inc.		,									7

TestAmerica

Chain of Custody Record

	Login #:
Barberton Facility	Cooler unpacked by:
Client Site Name Cooler Received on 8-15-23 Opened on 8-15-23	Cooler unpacked by.
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Cou	
Receipt After-hours: Drop-off Date/TimeStorage Lo	cation
Eurofins Cooler # Foam Box Client Cooler Box Other	
	her
COOLANT: Wet Ice Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt See Multiple (
IR GUN #(CF°C) Observed Cooler Temp	C Corrected Cooler Temp°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	Yes No
-Were the seals on the outside of the cooler(s) signed & dated?	No No NIA Tests that are not
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes No Receiving:
-Were tamper/custody seals intact and uncompromised?	Yes No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes No VOAs
4. Did custody papers accompany the sample(s)?	Yes No Oil and Grease
5. Were the custody papers relinquished & signed in the appropriate place?	Yes No TOC
6. Was/were the person(s) who collected the samples clearly identified on the COC?	
7. Did all bottles arrive in good condition (Unbroken)?	Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Ves No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N)	
10. Were correct bottle(s) used for the test(s) indicated?	Mes No
11. Sufficient quantity received to perform indicated analyses?	Yes No
12. Are these work share samples and all listed on the COC?	Yes (No)
If yes, Questions 13-17 have been checked at the originating laboratory.	res (NO)
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA pH Strip Lot# HC312502
14. Were VOAs on the COC?	Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this.	Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No
17. Was a LL Hg or Me Hg trip blank present?	Yes No
Contacted PM Date by via Ve	erbal Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	page Samples processed by:
	Sumpted processes sy.
19. SAMPLE CONDITION	
Sample(s) were received after the recommende	d holding time had expired.
• \/	eceived in a broken container.
Sample(s)were received with bubble >6	5 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION	,
Farmer 1. ()	
Sample(s)w	ere further preserved in the laboratory.
Time preserved:Preservative(s) added/Lot number(s):	

VOA Sample Preservation - Date/Time VOAs Frozen:

		45	
# :	#:	Login	

Cooler Description (Circle) Circle)					Eurofins - Canto	on Sample Receipt M	lultiple Cooler Form	_ t
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							Temp °C	
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See Temperature Excursion Form	EC	Client	Box	Other	IR GUN #:		· ·	Wel ice Blue ice Dry ice
	AGOGAN STEERS					,	☐ See Tempe	erature Excursion Form

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

2

3

4

5

6

8

46

11

12

14

240-190178 Waybill

eurofins



UG23 LB :AFE3707

ORIGIN ID:DEDA (8) SHIPPING DEPARTMENT EUROFINS MICHIGAN S 10448 CITATION DRIV SUITE 200 SUITE 200 UNITED STATES US 164

6 10:30 A 1616 08.15

EUROFINS CLEVELAND 180,S. VAN BUREN AVE.

BARBERTON OH 44203



2 of 2 MPS# 6189 7343 1616 Metr# 6189 7343 1605

64 CAKA

TUE - 15 AUG 10:30A PRIORITY OVERNIGHT

> 44203 oH-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: 190178-1 Sample date: 2023-08-11

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.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 190178-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401903 8/11/20	_ 1781			MW-130 2401903 8/11/20	_ 1782	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		2.2	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 # 240-190178-1

CADENA Verification Report: 2023-08-28

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51158R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-190178-1 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	lysis
Sample ID	Lab ID	IVIALITIX	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_65	240-190178-1	Water	08/11/2023		X	
MW-130S_081123	240-190178-2	Water	08/11/2023		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfor Accep	mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Χ		X	
2. Requested analyses and sample results		Χ		X	
Master tracking list		Χ		X	
4. Methods of analysis		Χ		X	
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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_65	CCV %D	Vinyl chloride	-27.5%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
	KKF <0.05	Detect	J
	RRF <0.01 ¹	Non-detect	R
	KKF <0.01	Detect	J
	RRF >0.05 or RRF >0.01 ¹	No Action	
	KKF >0.03 01 KKF >0.01	Detect	NO ACTION

Initial/Continuing	Criteria	Sample Result	Qualification
	%RSD > 20% or a correlation coefficient < 0.99	Non-detect	UJ
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J
	0/ DCD > 000/	Non-detect	R
	%RSD > 90%	Detect	J
	0/ D > 200/ /increase/decrease in consistinity)	Non-detect	UJ
Canting since Calibration	%D >20% (increase/decrease in sensitivity)	Detect	J
Continuing Calibration	0/ D > 000/ (increase/decrease in consitiuity)	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	oorted		Performance Acceptable		
	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	X			
Instrument tune and performance check		Х		Х		
Ion abundance criteria for each instrument used		Х		Х		
Field Duplicate RPD	X				Х	
Internal standard		Х		Х		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		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: September 15, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 20, 2023

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN

Chain of Custody Record

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TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: NPDES **RCRA** Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of 1 COCs Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses For lab use only Phone: 248-994-2240 Sampler Name: TAT if different from below Walk-in client Project Name: Ford LTP Off-Site 3 weeks 2 weeks Project Number: 30167538.402.04 Lab sampling Method of Shipment/Carrier: 1 week SIM Composite=C / Grab=G 2 days Trans-1,2-DCE 8260D /inyl Chloride 8260D PO # 30167538.402.04 Shipping/Tracking No: l day Job/SDG No: 1,1-DCE 8260D Matrix Containers & Preservatives TCE 8260D H2SO4 Sample Specific Notes / Solid Other: HN03 NaOH НСІ Special Instructions: Sample Identification Sample Date Sample Time TRIP BLANK_ 65 G Х Х Х 1 Trip Blank MW-1305_081123 0905 3 VOAs for 8260D (人) GNX 3 VOAs for 8260D SIM Page 631 of 634 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Beccon St Sample Address: 34600 Submit all results through Cade at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by Relinquished by: 15:30 Relinquished by: Received in Laboratory by;

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-190178-1

Client Sample ID: TRIP BLANK_65

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-190178-1

Date Collected: 08/11/23 00:00 **Matrix: Water** Date Received: 08/15/23 10:00

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 16:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 16:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 16:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:27	1
Vinyl chloride	1.0	A NI	1.0	0.45	ug/L			08/22/23 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137			-		08/22/23 16:27	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					08/22/23 16:27	1
Toluene-d8 (Surr)	100		78 - 122					08/22/23 16:27	1
Dibromofluoromethane (Surr)	97		73 - 120					08/22/23 16:27	1

Client Sample ID: MW-130S_081123 Lab Sample ID: 240-190178-2

Date Collected: 08/11/23 09:05

Date Received: 08/15/23 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			08/23/23 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 120					08/23/23 13:54	1

Method. 5W646 6260D - Volatile Organic Compounds 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 16:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 16:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 16:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:52	1
Vinyl chloride	2.2		1.0	0.45	ug/L			08/23/23 13:56	1

Surrogate	%Recovery Qu	ualifier Limits	Prepared A	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	62 - 137		22/23 16:52	1
1,2-Dichloroethane-d4 (Surr)	96	62 - 137	08/	23/23 13:56	1
4-Bromofluorobenzene (Surr)	95	56 - 136	08/	22/23 16:52	1
4-Bromofluorobenzene (Surr)	94	56 ₋ 136	08/.	23/23 13:56	1
Toluene-d8 (Surr)	99	78 - 122	08/	22/23 16:52	1
Toluene-d8 (Surr)	94	78 - 122	08/	23/23 13:56	1
Dibromofluoromethane (Surr)	94	73 - 120	08/	22/23 16:52	1
Dibromofluoromethane (Surr)	94	73 - 120	08/	23/23 13:56	1

Matrix: Water