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

240-185459-1

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 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: 240-185459-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

Appreviation	These commonly used appreviations may or may not be present in this report.
n	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

Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

Job ID: 240-185459-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-185459-1

Receipt

The samples were received on 5/17/2023~8:00 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 0.1° C and 0.6° C

GC/MS VOA

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

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Method Summary

Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

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

Job ID: 240-185459-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-185459-1	TRIP BLANK_128	Water	05/15/23 00:00	05/17/23 08:00
240-185459-2	MW-107S_051523	Water	05/15/23 09:55	05/17/23 08:00
240-185459-3	MW-105S_051523	Water	05/15/23 11:50	05/17/23 08:00
240-185459-4	MW-102S_051523	Water	05/15/23 12:45	05/17/23 08:00
240-185459-5	MW-102 051523	Water	05/15/23 13:35	05/17/23 08:00

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Detection Summary

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_128

Lab Sample ID: 240-185459-1

No Detections.

Client Sample ID: MW-107S_051523

Lab Sample ID: 240-185459-2

No Detections.

Client Sample ID: MW-105S_051523

Lab Sample ID: 240-185459-3

No Detections.

Client Sample ID: MW-102S_051523

Lab Sample ID: 240-185459-4

No Detections.

Client Sample ID: MW-102_051523

Lab Sample ID: 240-185459-5

RL

1.0

MDL Unit

0.45 ug/L

Dil Fac D Method

8260D

Result Qualifier

2.8

11

Prep Type

Total/NA

Job ID: 240-185459-1

12

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15

Client: ARCADIS US Inc

Analyte

Vinyl chloride

Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

Date Received: 05/17/23 08:00

Client Sample ID: TRIP BLANK_128

Lab Sample ID: 240-185459-1 Date Collected: 05/15/23 00:00

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			05/25/23 00:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/23 00:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 00:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/23 00:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 00:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/23 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128			_		05/25/23 00:33	1
Dibromofluoromethane (Surr)	103		77 - 124					05/25/23 00:33	1
Toluene-d8 (Surr)	99		80 - 120					05/25/23 00:33	1
4-Bromofluorobenzene	99		76 - 120					05/25/23 00:33	1

Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-107S_051523

Date Collected: 05/15/23 09:55 Date Received: 05/17/23 08:00 Lab Sample ID: 240-185459-2

Matrix: Water

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			05/22/23 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		75 - 133			-		05/22/23 13:05	1

Method: SW846 8260D - Volati	lie Organic Comp	ounas by G	IC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/25/23 00:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/23 00:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 00:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/23 00:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 00:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/23 00:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 128			-		05/25/23 00:56	1
Dibromofluoromethane (Surr)	104		77 - 124					05/25/23 00:56	1
Toluene-d8 (Surr)	99		80 - 120					05/25/23 00:56	1
4-Bromofluorobenzene	100		76 - 120					05/25/23 00:56	1

Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

Date Received: 05/17/23 08:00

1,2-Dichloroethane-d4 (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

4-Bromofluorobenzene

Client Sample ID: MW-105S_051523

Date Collected: 05/15/23 11:50

103

102

99

99

Lab Sample ID: 240-185459-3

05/25/23 01:19

05/25/23 01:19 05/25/23 01:19

05/25/23 01:19

Matrix: Water

Method: SW846 8260D SIM -	Volatile Organic C	ompounds	(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			05/22/23 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		75 - 133			_		05/22/23 13:26	1
- Method: SW846 8260D - Vola	atile Organic Comp	ounds by G	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			05/25/23 01:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/23 01:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/23 01:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:19	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/23 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 128

77 - 124

80 - 120

76 - 120

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Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

Date Received: 05/17/23 08:00

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

4-Bromofluorobenzene

Client Sample ID: MW-102S_051523

Date Collected: 05/15/23 12:45

104

99

101

Matrix: Water

05/25/23 01:42 05/25/23 01:42

05/25/23 01:42

Lab Sample ID: 240-185459-4

Method: SW846 8260D SIM -	Volatile Organic C	ompounds	(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			05/22/23 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		75 - 133			-		05/22/23 13:48	1
- Method: SW846 8260D - Vola	tile Organic Comp	ounds by 0	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			05/25/23 01:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/23 01:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/23 01:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/23 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 128			-		05/25/23 01:42	1

77 - 124

80 - 120

76 - 120

Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-102_051523

Lab Sample ID: 240-185459-5 Date Collected: 05/15/23 13:35

Matrix: Water

05/26/23 03:36

Date	Received:	05/17/23	08:00

4-Bromofluorobenzene

Wethod: SW846 8260D SIW - V	Diatile Organic C	ompounas	(GC/NIS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/22/23 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		75 - 133					05/22/23 14:10	1
– Method: SW846 8260D - Volatil	e Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/23 03:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 03:36	1

Tetrachloroethene	1.0 U	1.0	0.44 ug/L		05/26/23 03:36	1
trans-1,2-Dichloroethene	1.0 U	1.0	0.51 ug/L		05/26/23 03:36	1
Trichloroethene	1.0 U	1.0	0.44 ug/L		05/26/23 03:36	1
Vinyl chloride	2.8	1.0	0.45 ug/L		05/26/23 03:36	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	70 - 128			05/26/23 03:36	1
Dibromofluoromethane (Surr)	103	77 - 124			05/26/23 03:36	1
Toluene-d8 (Surr)	100	80 - 120			05/26/23 03:36	1

76 - 120

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)
240-185459-1	TRIP BLANK_128	101	103	99	99
240-185459-2	MW-107S_051523	104	104	99	100
240-185459-3	MW-105S_051523	103	102	99	99
240-185459-4	MW-102S_051523	103	104	99	101
240-185459-5	MW-102_051523	108	103	100	97
LCS 460-911114/3	Lab Control Sample	94	97	100	102
LCS 460-911483/3	Lab Control Sample	101	95	103	96
LCSD 460-911114/4	Lab Control Sample Dup	94	97	100	105
LCSD 460-911483/4	Lab Control Sample Dup	98	95	110	97
MB 460-911114/8	Method Blank	99	103	99	104
MB 460-911483/7	Method Blank	106	102	99	98

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

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(75-133)	
240-185459-2	MW-107S_051523	97	
240-185459-3	MW-105S_051523	96	
240-185459-4	MW-102S_051523	100	
240-185459-5	MW-102_051523	96	
240-185460-B-4 MS	Matrix Spike	99	
240-185460-M-4 MSD	Matrix Spike Duplicate	100	
LCS 460-910628/5	Lab Control Sample	102	
MB 460-910628/8	Method Blank	98	

BFB = 4-Bromofluorobenzene

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Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 460-911114/8

Matrix: Water

Analysis Batch: 911114

Client Sample ID:	Method Blank	
Prep 1	Гуре: Total/NA	

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 05/24/23 18:29 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/24/23 18:29 1.0 U 05/24/23 18:29 Tetrachloroethene 1.0 0.44 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/24/23 18:29 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/24/23 18:29 Vinyl chloride 1.0 U 1.0 05/24/23 18:29 0.45 ug/L

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 128		05/24/23 18:29	1
Dibromofluoromethane (Surr)	103		77 - 124		05/24/23 18:29	1
Toluene-d8 (Surr)	99		80 - 120		05/24/23 18:29	1
4-Bromofluorobenzene	104		76 - 120		05/24/23 18:29	1

Lab Sample ID: LCS 460-911114/3

Matrix: Water

Analysis Batch: 911114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 107 68 - 133 1,1-Dichloroethene 20.0 21.4 ug/L 20.0 cis-1,2-Dichloroethene 20.6 ug/L 103 78 - 121 Tetrachloroethene 20.0 20.9 ug/L 104 70 - 127 74 - 126 trans-1,2-Dichloroethene 20.0 20.5 ug/L 102 Trichloroethene 20.0 21.0 105 ug/L 71 - 121 Vinyl chloride 20.0 21.8 ug/L 109 55 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 128
Dibromofluoromethane (Surr)	97		77 - 124
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene	102		76 - 120

Lab Sample ID: LCSD 460-911114/4

Matrix: Water

Analysis Batch: 911114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	21.8		ug/L		109	68 - 133	2	30
cis-1,2-Dichloroethene	20.0	21.5		ug/L		107	78 - 121	4	30
Tetrachloroethene	20.0	22.6		ug/L		113	70 - 127	8	30
trans-1,2-Dichloroethene	20.0	21.1		ug/L		106	74 - 126	3	30
Trichloroethene	20.0	23.9		ug/L		120	71 - 121	13	30
Vinyl chloride	20.0	22.8		ug/L		114	55 - 144	5	30

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 128
Dibromofluoromethane (Surr)	97		77 - 124
Toluene-d8 (Surr)	100		80 - 120

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Job ID: 240-185459-1

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

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

Lab Sample ID: LCSD 460-911114/4

Matrix: Water

Analysis Batch: 911114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 105 76 - 120

Lab Sample ID: MB 460-911483/7

Matrix: Water

Analysis Batch: 911483

Client Sample ID: Method Blank

Prep Type: Total/NA

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/23 00:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 00:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 00:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 00:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 00:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 00:57	1

мв мв

Surrogate	%Recovery 0	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	70 - 128		05/26/23 00:57	1
Dibromofluoromethane (Surr)	102	77 - 124		05/26/23 00:57	1
Toluene-d8 (Surr)	99	80 - 120		05/26/23 00:57	1
4-Bromofluorobenzene	98	76 - 120		05/26/23 00:57	1

Lab Sample ID: LCS 460-911483/3

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 911483

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

LCS LCS %Rec Spike Result Qualifier Added Unit %Rec Limits 20.0 96 19.2 68 - 133 ug/L 20.0 19.3 ug/L 96 78 - 121 20.0 70 - 127 19.7 ug/L 99 20.0 18.8 ug/L 94 74 - 126 20.0 21.6 108 71 - 121 ug/L 20.0 20.1 ug/L 101 55 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 128
Dibromofluoromethane (Surr)	95		77 - 124
Toluene-d8 (Surr)	103		80 - 120
4-Bromofluorobenzene	96		76 - 120

Lab Sample ID: LCSD 460-911483/4

Matrix: Water

Analysis Batch: 911483

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	20.5		ug/L		102	68 - 133	7	30
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	78 - 121	5	30
Tetrachloroethene	20.0	22.0		ug/L		110	70 - 127	11	30
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	74 - 126	6	30
Trichloroethene	20.0	21.8		ug/L		109	71 - 121	1	30

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Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: LCSD 460-911 Matrix: Water Analysis Batch: 911483	1483/4					Clie	ent Sam	iple ID: I	Lab Contro Prep 1	ol Sample Type: Tot	
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Vinyl chloride			20.0	21.3		ug/L		107	55 - 144	6	30
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

	LUSD	LUSD			
Surrogate	%Recovery	Qualifier	Limits		
1,2-Dichloroethane-d4 (Surr)	98		70 - 128		
Dibromofluoromethane (Surr)	95		77 - 124		
Toluene-d8 (Surr)	110		80 - 120		
4-Bromofluorobenzene	97		76 - 120		

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

Lab Sample ID: MB 460-910628/8

4-Bromofluorobenzene

Matrix: Water								Prep Type: 1	Γotal/NA
Analysis Batch: 910628									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/22/23 08:23	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Lab Sample ID: LCS 460-910628/5	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 910628	

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane		5.00	4.59		ug/L		92	57 - 124	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	102		75 - 133

Lab Sample ID: 240-185460-B-4 MS	Client Sample ID: Matrix Spike
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 910628										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	5.00	4.31		ug/L		86	57 - 124	

1,4-Dioxane	2.0	U	5.00	4.31	ug/L	86	57 - 124	
	MS	MS						
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene	99		75 - 133					

Lab Sample ID: 240-185460-M-4	MSD			Client Sample ID: Matrix	Spike Duplicate
Matrix: Water				Pre	p Type: Total/NA
Analysis Batch: 910628					
	Sample Sample	Spike	MSD MSD	%Rec	RPD

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 1,4-Dioxane 2.0 U 5.00 4.71 ug/L

Eurofins Cleveland

Client Sample ID: Method Blank

05/22/23 08:23

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-185460-M-4 MSD

Matrix: Water

Analysis Batch: 910628

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene 100 75 - 133 **Client Sample ID: Matrix Spike Duplicate**

Prep Type: Total/NA

QC Association Summary

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

Job ID: 240-185459-1

GC/MS VOA

Analysis Batch: 910628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185459-2	MW-107S_051523	Total/NA	Water	8260D SIM	
240-185459-3	MW-105S_051523	Total/NA	Water	8260D SIM	
240-185459-4	MW-102S_051523	Total/NA	Water	8260D SIM	
240-185459-5	MW-102_051523	Total/NA	Water	8260D SIM	
MB 460-910628/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-910628/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-185460-B-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-185460-M-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 911114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185459-1	TRIP BLANK_128	Total/NA	Water	8260D	
240-185459-2	MW-107S_051523	Total/NA	Water	8260D	
240-185459-3	MW-105S_051523	Total/NA	Water	8260D	
240-185459-4	MW-102S_051523	Total/NA	Water	8260D	
MB 460-911114/8	Method Blank	Total/NA	Water	8260D	
LCS 460-911114/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-911114/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 911483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185459-5	MW-102_051523	Total/NA	Water	8260D	
MB 460-911483/7	Method Blank	Total/NA	Water	8260D	
LCS 460-911483/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-911483/4	Lab Control Sample Dup	Total/NA	Water	8260D	

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Job ID: 240-185459-1

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

Lab Sample ID: 240-185459-1 Client Sample ID: TRIP BLANK_128 Date Collected: 05/15/23 00:00

Matrix: Water

Date Received: 05/17/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	911114	SZD	EET EDI	05/25/23 00:33

Client Sample ID: MW-107S_051523 Lab Sample ID: 240-185459-2

Date Collected: 05/15/23 09:55 **Matrix: Water**

Date Received: 05/17/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	911114	SZD	EET EDI	05/25/23 00:56
Total/NA	Analysis	8260D SIM		1	910628	SZD	EET EDI	05/22/23 13:05

Lab Sample ID: 240-185459-3 Client Sample ID: MW-105S_051523

Date Collected: 05/15/23 11:50 Matrix: Water

Date Received: 05/17/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	911114	SZD	EET EDI	05/25/23 01:19
Total/NA	Analysis	8260D SIM		1	910628	SZD	EET EDI	05/22/23 13:26

Client Sample ID: MW-102S_051523 Lab Sample ID: 240-185459-4

Date Collected: 05/15/23 12:45 **Matrix: Water**

Date Received: 05/17/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			911114	SZD	EET EDI	05/25/23 01:42
Total/NA	Analysis	8260D SIM		1	910628	SZD	EET EDI	05/22/23 13:48

Lab Sample ID: 240-185459-5 Client Sample ID: MW-102_051523

Date Collected: 05/15/23 13:35 **Matrix: Water**

Date Received: 05/17/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	911483	SZD	EET EDI	05/26/23 03:36
Total/NA	Analysis	8260D SIM		1	910628	SZD	EET EDI	05/22/23 14:10

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

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

Job ID: 240-185459-1

Laboratory: Eurofins Edison

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

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

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Client Contact	Regulatory program:	MQ _	NPDES	RCRA	Ö	Other						
Company Name: Arcadis						-						TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey		Site Contact: Christina Weaver	ristina Weaver			Lab Cu	Lab Contact: Mike DelMonico	like Del	Monico		COC No:
Circles and Circles No. 1 (1937)	Telephone: 248-994-2240		Telephone: 248-994-2240	194-2240			Teleph	Telephone: 330-497-9396	497-93	96		
C.I.y/Octate/Cap: 1001, 1011, 405/1	Email: kristoffer.hinskev@arcadis.com		Analysis Turnaround Time	naround Time					K	Analyses		For lab use only
Phone: 248-994-2240						2000		H				fine ace on to
Project Name: Ford LTP Off-Site	Sampler Name:		TAT if different from below	below 3 weeks 2 weeks	To the second							Walk-in client
Project Number: 30167538.402.04	Method of Shipment/Carrier:			1 week	_	-		81		{	WIS	Sunding Series
PO # 30167538.402.04	Shipping/Tracking No:		- [l day			S60B	E 85e0		8260E	S 8092	Job/SDG No:
		Matrix	Containers &	Containers & Preservatives		_	8 30			əpin	8 əu	
Sample Identification	Sample Date Sample Time 🔁 Advens	hilo?	HOBN HCI HZO3 HZO4	Na Ne. HOEN Unpres	Filtered S	1'1-DCE	O-S, f-aio	Trans-1,2 PCE 8260	TCE 8260	Vinyl Chlo	exolQ-4,1	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 128			-		Z	×	×	××	×	×		1 Trip Blank
c MW-1075_051523	8-15-23 0955 6		٥		5	×	×	×	×	×	×	3 VOAs for 8260B 3 VOAs for 8260B SIM
	5-15-23 1150 6		ڡ		5	*	×	×	*	×	×	
_	9 2-12-23 1245 6		و		7	+	×	×	*	×	×	-
MW - 102 - 051523	9 5661 82-51-5		٥		ک ح	×	×	×	×	×	×	3
26								—				
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						1	240-1	240-185459 Chain of Custody	Chain	of Cus	stody	
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Possible Hazard Identification Non-Hazard Flammable Skir	Skin Irritant Poison B Unknown	Ę	Sample Disposal (At	ee may be	e assessed if sam Disposal By Lab	if samp By Lab	es are	retained Archi	Archive For	han I m	onth) Months	
Special Instructions/OC Requirements & Comments: Sample Address: CAPTIOL AND ROSATE ROW Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.												
Relinquished by:	cadis	Date/Time: 5-15-23 / 1	1500 Rec	Received by: COLD	2	5	STORAG	W	Comp	A	Company Accodis	Date/Time: 5-15-23 / 15-10
Relinduspet 6).	TS T	Date/Time: 5/15/23/	D825	Received by:	Har					Company:	4	Date/Time: 5/16/72/082
Relinquished by:	Company:	4	27 Res	Received in Laboratory by:	touy by:	#			511	Company	TAIL	
		679	0	1111/25	7 W.W.)]) 2	3

TestAmerica

Chain of Custody Record

MICHIGAN 190

Login #: 185459

		Eurofins - Canton	Campio Itocolpt inte		
Cooler D	escription	IR Gun#	Observed	Corrected	Coolant
	rcle)	(Circle)	Temp °C	Temp °C	(Circle)
EG Client	Box Other	10 CUNA 20	0-1	0.1	(Wet ice Blue ice Dry ice
	BOX Omer	IR GUN #: 22	2 /		Water None Wet ice Blue ice Dry ice
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EC Client	Box Other				Water None

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

Eurofins Cleveland

180 S. Van Buren Avenue Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

💸 eurofins | Environment Testing

Comparison of the control of the c	Client Information (Sub Contract Lab)				Ö	DelMonico, Michael	chael						240-168235.1	
Comparison Performent Testing Northeast, Controller Environment Testing Northeast, Controller Environmen	Client Contact: Shipping/Receiving	Phone:			E-Ma Mich	ii: nael.DelMc	nico@e	t.eurofins	moo:sr	State o Michie	f Origin: Jan		Page: Page 1 of 1	
Appendix Control Con	Company: Eurofins Environment Testing Northeast,					Accreditatio	ns Require	d (See note					Job #: 240-185459-1	
Sample Date	Address: 777 New Durham Road,	Due Date Request 5/30/2023	;pe					Ana	lysis R	equest	þa		Preservation Code	i
December 1722-549-3673/Fax)	City. Edison	TAT Requested (d.	ays):											
Province	State, Zip: NJ, 08817											 traggajan		
Final:	Phone: 732-549-3900(Tel) 732-549-3679(Fax)	# Od				8.10						 ENGELINE		
Project Name: Project Name	Emait:	#OM				(o)						 9 JI	_	
Sample Identification - Client ID (Lab ID) Sample Date Time G-graph MW-107S_051523 (240-185459-4) Sample Date MW-102_051523 (240-185459-5) Sylfs23 Fastern MW-102_051523 (240-185459-5) Sylfs23 Fastern MW-102_051523 (240-185459-5) Sylfs23 Fastern F	Project Name: Ford LTP - Off Site	Project #: 24015353				40 88 ,) ni s tn		
Sample Date Sample C=comp. Sample C=comp. Sample Type Sample C=comp. Sample	Site:	SSOW#:				() ası							Other:	
Sample Date Sample Date Type (P-comp. Eastern) Sample Date (P-comp. Eastern) Type (P-comp. Eastern) <t< td=""><td></td><td></td><td></td><td></td><td>Matrix</td><td>NJE</td><td></td><td></td><td></td><td></td><td></td><td>18q</td><td></td><td></td></t<>					Matrix	NJE						18q		
Sample Identification - Client ID (Lab ID) Sample Date Time Time Increases Cu-Comp. Increases Increases <t< td=""><td></td><td></td><td></td><td>Sample Type</td><td>(Winwater, Sweefid, Oinwaste/oll,</td><td>Marroc</td><td></td><td></td><td></td><td></td><td></td><td> lmuM l</td><td></td><td></td></t<>				Sample Type	(Winwater, Sweefid, Oinwaste/oll,	Marroc						 lmuM l		
TRIP BLANK_128 (240-185459-1) 5/15/23 Eastern Water X X X X X X X X X X X X X X X X X X X		Sample Date	Sample Time	(C=comp, G=grab)	ST=Thsue, A=Air))µe/4						a)oT	Special Ins	structions/Note:
TRIP BLANK_128 (240-185459-1) \$/15/23 Eastern (1.50) Water (1.50) X<			X	Presend	tion Code:	XX						X		
MWV-107S051523 (240-185459-2) 5/15/23 Eastlem (Hi-50) Water X	<u>.</u>	5/15/23	Eastern		Water	×						+		
MW-102S_051523 (240-185459-3) 5/15/23 11:50 Eastern Eastern Water X<		5/15/23	09:55 Eastem		Water	×	<u> </u>					9		
t) 5/15/23		5/15/23	11:50 Eastem		Water	×						9		
5/15/23 13:35 Water X X X	MW-102S_051523 (240-185459-4)	5/15/23	12:45 Eastern		Water	×						9		
	MW-102_051523 (240-185459-5)	5/15/23	13:35 Eastern		Water	×						9		
				!								eta en la		

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification

Unconfirmed		Return To Client Disposal By Lab	ab Archive For Months	S
Deliverable Requested: I, III, IV Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date:	Time: Method of	Method of Shipment:	
(Relinoplished by	Company Company	Lake the Color of the Color	Date Time: De 1070 Company	11
Vol. Relinquished by: 88	DaterTime: Company	Becaived by:	Date/Time:	
Neinquished by:	Date/Time: Company	Received by:	Date/Time: Company	
Custody Seals Intact: Custody Seal No.		Coler Temperature(s) °C and Other Remarks:	1 50 / 50 C	
	*	-) きょしつ	

Page 25 of 26

Job Number: 240-185459-1

Login Number: 185459

List Source: Eurofins Edison

List Creation: 05/18/23 12:54 PM

Creator: Armbruster, Chris

Containers requiring zero headspace have no headspace or bubble is

List Number: 2

Client: ARCADIS US Inc

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

True

True

True

N/A

Eurofins Cleveland

<6mm (1/4").

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

DATA VERIFICATION REPORT



May 31, 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: 185459-1 Sample date: 2023-05-15

Report received by CADENA: 2023-05-31

Initial Data Verification completed by CADENA: 2023-05-31

Number of Samples:5 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, LCS/LCD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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: 185459-1

		Sample Name:	TRIP BLA	ANK_128	3		MW-10	7S_0515	23		MW-10	5S_0515	23		MW-102	2S_0515	23		MW-102	2_05152	3	
		Lab Sample ID:	2401854	1591			240185	4592			240185	4593			2401854	1594			2401854	ł595		
		Sample Date:	5/15/20	23			5/15/20)23			5/15/20	23			5/15/20	23			5/15/20	23		
				Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																						
OSW-8260	<u>OD</u>																					
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		ND	1.0	ug/l		2.8	1.0	ug/l	
OSW-8260	<u>DDSIM</u>																					
	1,4-Dioxane	123-91-1					ND	2.0	ug/l													



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-185459-1

CADENA Verification Report: 2023-05-31

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49945R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-185459-1 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:

Cample ID	Lab ID	Matrix	Sample	Doront Comple	Analysis		
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	VOC	VOC SIM	
TRIP BLANK_128	240-185459-1	Water	05/15/23		Х		
MW-107S_051523	240-185459-2	Water	05/15/23		Х	X	
MW-105S_051523	240-185459-3	Water	05/15/23		Х	Х	
MW-102S_051523	240-185459-4	Water	05/15/23		Х	X	
MW-102_051523	240-185459-5	Water	05/15/23		Х	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep		Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Χ		X	
2. Requested analyses and sample results		Χ		X	
Master tracking list		Χ		Х	
4. Methods of analysis		Χ		Х	
5. Reporting limits		Χ		Х	
6. Sample collection date		Χ		Х	
7. Laboratory sample received date		Χ		Х	
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
MW-107S_051523 MW-105S_051523 MW-102S_051523 MW-102_051523	Initial Calibration Verification %D	1,4-Dioxane	+28.1%

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
	RRF <0.05	Non-detect	R
	KKF <0.05	Detect	J
Initial and Continuing Calibration	RRF <0.01 ¹	Non-detect	R
Campianon	KKF <0.01	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J
	0/ DOD > 000/	Non-detect	R
	%RSD > 90%	Detect	J
	0/ D > 000/ /in initi-it)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
O - o tio - cio - o O - lib - o - ti - o	0/ D > 000/ (d in iti : it)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/0.000///	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

Rep		Not		
No	Yes	No	Yes	Required
C/MS)				
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х	Х		
	Х		Х	
	Х		Х	
Х				Х
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		X	
	Х		Х	
	No C/MS)	X X X X X X X X X X X X X	Reported Acce No Yes No C/MS) X X X X X X X X X X X X X	No Yes No Yes

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE:

DATE: June 16, 2023

Curuliland

PEER REVIEW: Andrew Korycinski

DATE: June 21, 2023

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record



TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 **Client Contact** Regulatory program: DW NPDES RCRA □ Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs 1 of 1 Analysis Turnaround Time Analyses Email: kristoffer.hinskey@arcadis.com For lab use only Phone: 248-994-2240 TAT if different from below Walk-in client Project Name: Ford LTP Off-Site JEE FOSTIN 3 weeks ✓ 2 weeks 10 day Lab sampling Project Number: 30167538.402.04 I week 1,4-Dioxane 8260B SIM =C/Grab=G mple (Y / N) Frans-1,2-DCE 8260B 2 days PO # 30167538.402.04 Shipping/Tracking No: 1 day Job/SDG No: 1,1-DCE 8260B Chloride 8 Matrix Containers & Preservatives TCE 8260B Sample Specific Notes / HN03 NaOH Solid HC Special Instructions: Sample Identification Sample Date | Sample Time TRIP BLANK 128 G X X X X X 1 Trip Blank MW-1075_051523 5-15-23 0955 3 VOAs for 8260B 6 6 6 X 3 VOAs for 8260B SIM Page 572 MW - 102 5_ 051523 Page 572 MW - 102 _ 051523 5-15-23 1150 6 6 6 ıl. 5-15-23 1245 6 X H X X X u 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 Disposal By Lab Return to Client Archive For Special Instructions/QC Requirements & Comments: Sample Address: CAPITOL AND ROSATI KOW Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 ROW Level IV Reporting requested. Relinquished by Accadis Ar cadis 5-15-23 STORAGE NOVI COLD Relinquished by Company Date Time: \$2008, TestArmenca Laboratories, Inc. All rights reserved estArmenca & Design ** are trademarks of TredArmenca Laboratories, Inc. \$200,000 pt. \$200,

Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_128

Lab Sample ID: 240-185459-1 Date Collected: 05/15/23 00:00 **Matrix: Water**

Date Received: 05/17/23 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			05/25/23 00:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/23 00:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 00:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/23 00:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 00:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/23 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128					05/25/23 00:33	1
Dibromofluoromethane (Surr)	103		77 - 124					05/25/23 00:33	1
Toluene-d8 (Surr)	99		80 - 120					05/25/23 00:33	1
4-Bromofluorobenzene	99		76 - 120					05/25/23 00:33	1

Client Sample ID: MW-107S_051523

Date Collected: 05/15/23 09:55

Date Received: 05/17/23 08:00

Lab Sample ID: 240-185459-2 **Matrix: Water**

Method: SW846 8260D SIM -	 Volatile Orga 	inic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	g/ n1	2.0	0.86	ug/L			05/22/23 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		75 - 133			-		05/22/23 13:05	1

Method: SW846 8260D - Vo	latile Organic	atile 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			05/25/23 00:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/23 00:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 00:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/23 00:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 00:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/23 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 128		05/25/23 00:56	1
Dibromofluoromethane (Surr)	104		77 - 124		05/25/23 00:56	1
Toluene-d8 (Surr)	99		80 - 120		05/25/23 00:56	1
4-Bromofluorobenzene	100		76 - 120		05/25/23 00:56	1

Client Sample ID: MW-105S_051523 Lab Sample ID: 240-185459-3

Date Collected: 05/15/23 11:50 Date Received: 05/17/23 08:00

Method: SW846 8260D SIM -	Volatile Orga	anic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	d ni	2.0	0.86	ug/L			05/22/23 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		75 - 133			_		05/22/23 13:26	1

Eurofins Cleveland

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Matrix: Water

Client: ARCADIS US Inc Job ID: 240-185459-1

Project/Site: Ford LTP - Off Site

Date Collected: 05/15/23 11:50 Matrix: Water Date Received: 05/17/23 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			05/25/23 01:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/23 01:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/23 01:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:19	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/23 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 128					05/25/23 01:19	1
Dibromofluoromethane (Surr)	102		77 - 124					05/25/23 01:19	1
Toluene-d8 (Surr)	99		80 - 120					05/25/23 01:19	1
4-Bromofluorobenzene	99		76 - 120					05/25/23 01:19	1

Date Collected: 05/15/23 12:45 Date Received: 05/17/23 08:00

Method: SW846 8260D SIN	I - Volatile Orga	nic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	g nn	2.0	0.86	ug/L			05/22/23 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		75 - 133			-		05/22/23 13:48	1

Method: SW846 8260D - '	Volatile Organic	olatile 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			05/25/23 01:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/23 01:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/23 01:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/23 01:42	1

Surrogate	%Recovery Qualific	er Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	70 - 128		05/25/23 01:42	1
Dibromofluoromethane (Surr)	104	77 - 124	0	05/25/23 01:42	1
Toluene-d8 (Surr)	99	80 - 120	0	05/25/23 01:42	1
4-Bromofluorobenzene	101	76 - 120	0	05/25/23 01:42	1

Date Collected: 05/15/23 13:35 Date Received: 05/17/23 08:00

Method: SW846 8260D SIM	/I - Volatile Orga	- Volatile Organic Compounds (GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	g/ ni	2.0	0.86	ug/L			05/22/23 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		75 - 133			-		05/22/23 14:10	1

Matrix: Water

Matrix: Water

Client: ARCADIS US Inc Job ID: 240-185459-1
Project/Site: Ford LTP - Off Site

Date Collected: 05/15/23 13:35 Matrix: Water Date Received: 05/17/23 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			05/26/23 03:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 03:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 03:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 03:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 03:36	1
Vinyl chloride	2.8		1.0	0.45	ug/L			05/26/23 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 128					05/26/23 03:36	1
Dibromofluoromethane (Surr)	103		77 - 124					05/26/23 03:36	1
Toluene-d8 (Surr)	100		80 - 120					05/26/23 03:36	1
4-Bromofluorobenzene	97		76 - 120					05/26/23 03:36	1