PREPARED FOR

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

Generated 12/1/2023 5:38:29 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-195750-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated 12/1/2023 5:38:29 AM

Authorized for release by 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: 240-195750-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	17
Certification Summary	18
Chain of Custody	19

10

12

13

Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-195750-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	ion These commonly used abbreviations may or may not be present in this report.					
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis					
%R	Percent Recovery					
CFL	Contains Free Liquid					
CFU	Colony Forming Unit					
CNF	Contains No Free Liquid					
DER	Duplicate Error Ratio (normalized absolute difference)					

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Cleveland

Page 4 of 20

4

А

Ę

_

7

10

12

13

Case Narrative

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

Job ID: 240-195750-1

Job ID: 240-195750-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-195750-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/18/2023~8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.7° C

GC/MS VOA

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

9

E

6

7

8

9

. .

12

13

Method Summary

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

Job ID: 240-195750-1

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

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

3

4

J

7

10

13

Sample Summary

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

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 240-195750-1
 TRIP BLANK_89
 Water
 11/16/23 00:00
 11/18/23 08:00

 240-195750-2
 MW-167S_111623
 Water
 11/16/23 13:00
 11/18/23 08:00

Job ID: 240-195750-1

2

Λ

5

6

8

46

11

Detection Summary

Client: ARCADIS US Inc Job ID: 240-195750-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_89 Lab Sample ID: 240-195750-1

No Detections.

No Detections.

5

4

5

7

8

4.0

11

4.0

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195750-1

Project/Site: Ford LTP - Off Site

Date Received: 11/18/23 08:00

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-195750-1 Date Collected: 11/16/23 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			11/26/23 19:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/26/23 19:07	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/23 19:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/23 19:07	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/26/23 19:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/26/23 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		11/26/23 19:07	1
4-Bromofluorobenzene (Surr)	82		56 ₋ 136					11/26/23 19:07	1
Toluene-d8 (Surr)	104		78 - 122					11/26/23 19:07	1
Dibromofluoromethane (Surr)	103		73 - 120					11/26/23 19:07	1

Eurofins Cleveland

Page 9 of 20

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195750-1

Project/Site: Ford LTP - Off Site

Date Received: 11/18/23 08:00

Client Sample ID: MW-167S_111623

Lab Sample ID: 240-195750-2 Date Collected: 11/16/23 13:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/28/23 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 120			_		11/28/23 21:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/26/23 22:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/26/23 22:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/23 22:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/23 22:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/26/23 22:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/27/23 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137					11/26/23 22:53	1
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					11/27/23 22:17	1

Surrogate	%Recovery Quaimer	Limits	Prepared	Anaryzea	DII Fac
1,2-Dichloroethane-d4 (Surr)	115	62 - 137		11/26/23 22:53	1
1,2-Dichloroethane-d4 (Surr)	110	62 - 137		11/27/23 22:17	1
4-Bromofluorobenzene (Surr)	82	56 ₋ 136		11/26/23 22:53	1
4-Bromofluorobenzene (Surr)	81	56 ₋ 136		11/27/23 22:17	1
Toluene-d8 (Surr)	103	78 - 122		11/26/23 22:53	1
Toluene-d8 (Surr)	103	78 - 122		11/27/23 22:17	1
Dibromofluoromethane (Surr)	104	73 - 120		11/26/23 22:53	1
Dibromofluoromethane (Surr)	101	73 - 120		11/27/23 22:17	1
					

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-195750-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-195660-B-33 MS	Matrix Spike	106	97	109	105
240-195660-B-33 MSD	Matrix Spike Duplicate	107	99	107	105
240-195749-C-2 MS	Matrix Spike	102	98	109	99
240-195749-C-2 MSD	Matrix Spike Duplicate	101	97	108	99
240-195750-1	TRIP BLANK_89	112	82	104	103
240-195750-2	MW-167S_111623	115	82	103	104
240-195750-2	MW-167S_111623	110	81	103	101
LCS 240-595705/5	Lab Control Sample	106	97	106	105
LCS 240-595841/5	Lab Control Sample	103	97	108	99
MB 240-595705/8	Method Blank	111	86	104	102
MB 240-595841/8	Method Blank	107	84	101	98

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-195750-2	MW-167S_111623	101	
240-195835-H-3 MS	Matrix Spike	100	
240-195835-N-3 MSD	Matrix Spike Duplicate	106	
LCS 240-595988/4	Lab Control Sample	104	
MB 240-595988/6	Method Blank	98	

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

Eurofins Cleveland

Client: ARCADIS US Inc Job ID: 240-195750-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-595705/8

Matrix: Water

Analysis Batch: 595705

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

	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			11/26/23 17:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/26/23 17:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/23 17:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/23 17:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/26/23 17:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/26/23 17:26	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 11/26/23 17:26 111 4-Bromofluorobenzene (Surr) 86 56 - 136 11/26/23 17:26 Toluene-d8 (Surr) 104 78 - 122 11/26/23 17:26 Dibromofluoromethane (Surr) 102 73 - 120 11/26/23 17:26

Lab Sample ID: LCS 240-595705/5

Matrix: Water

Analysis Batch: 595705

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	26.1		ug/L		105	63 - 134	
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	77 - 123	
Tetrachloroethene	25.0	26.8		ug/L		107	76 - 123	
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	75 - 124	
Trichloroethene	25.0	24.9		ug/L		100	70 - 122	
Vinyl chloride	12.5	11.0		ug/L		88	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 106 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 97 Toluene-d8 (Surr) 106 78 - 122 73 - 120 Dibromofluoromethane (Surr) 105

Lab Sample ID: 240-195660-B-33 MS

Matrix: Water

Analysis Batch: 595705

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20	U	500	506		ug/L		101	56 - 135	
cis-1,2-Dichloroethene	20	U	500	470		ug/L		94	66 - 128	
Tetrachloroethene	20	U	500	498		ug/L		100	62 - 131	
trans-1,2-Dichloroethene	20	U	500	467		ug/L		93	56 - 136	
Trichloroethene	32		500	501		ug/L		94	61 - 124	
Vinyl chloride	20	U	250	236		ug/L		94	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	97		56 ₋ 136
Toluene-d8 (Surr)	109		78 ₋ 122

Eurofins Cleveland

12/1/2023

Page 12 of 20

Job ID: 240-195750-1

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

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

Lab Sample ID: 240-195660-B-33 MS

Matrix: Water

Analysis Batch: 595705

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

%Recovery Qualifier Surrogate Limits Dibromofluoromethane (Surr) 105 73 - 120

Lab Sample ID: 240-195660-B-33 MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water** Prep Type: Total/NA

250

Vinyl chloride

Analysis Batch: 595705

, , , , , , , , , , , , , , , , , , , ,	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20	U	500	511		ug/L		102	56 - 135	1	26
cis-1,2-Dichloroethene	20	U	500	471		ug/L		94	66 - 128	0	14
Tetrachloroethene	20	U	500	507		ug/L		101	62 - 131	2	20
trans-1,2-Dichloroethene	20	U	500	476		ug/L		95	56 - 136	2	15
Trichloroethene	32		500	508		ug/L		95	61 - 124	1	15

225

ug/L

20 U MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	107		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

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

43 - 157

Analysis Batch: 595841

Matrix: Water

Lab Sample ID: MB 240-595841/8

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/27/23 18:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/27/23 18:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/27/23 18:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/27/23 18:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/27/23 18:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/27/23 18:31	1

MB MB

Surrogate	%Recovery	Qualifier Lin	nits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107	62	- 137		11/27/23 18:31	1
4-Bromofluorobenzene (Surr)	84	56	- 136		11/27/23 18:31	1
Toluene-d8 (Surr)	101	78	- 122		11/27/23 18:31	1
Dibromofluoromethane (Surr)	98	73	- 120		11/27/23 18:31	1

Lab Sample ID: LCS 240-595841/5 **Client Sample ID: Lab Control Sample Matrix: Water**

Analysis Batch: 595841

sı	oike	LCS	LCS				%Rec
Analyte Ad	ded	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	25.0	24.4		ug/L		97	63 - 134
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	77 - 123
Tetrachloroethene	25.0	27.1		ug/L		109	76 - 123
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	75 - 124
Trichloroethene	25.0	23.4		ug/L		94	70 - 122

Eurofins Cleveland

12/1/2023

Page 13 of 20

Prep Type: Total/NA

Client: ARCADIS US Inc Job ID: 240-195750-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCS 240-595841/5

Analysis Batch: 595841

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Vinyl chloride 12.5 10.5 84 60 - 144 ug/L

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 103 62 - 137 56 - 136 4-Bromofluorobenzene (Surr) 97 Toluene-d8 (Surr) 78 - 122 108 Dibromofluoromethane (Surr) 73 - 120 99

Lab Sample ID: 240-195749-C-2 MS

Analysis Batch: 595841

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

Sample Sample Spike MS MS %Rec Result Qualifier babbA Result Qualifier %Rec Limits Analyte Unit 1,1-Dichloroethene 20 U 500 473 ug/L 95 56 - 135 49 500 ug/L cis-1,2-Dichloroethene 496 89 66 - 128 Tetrachloroethene 20 U 500 494 99 62 - 131 ug/L trans-1,2-Dichloroethene 500 447 20 U ug/L 89 56 - 136 500 435 87 Trichloroethene 20 U ug/L 61 - 124Vinyl chloride 690 250 900 ug/L 43 - 157

MS MS Qualifier %Recovery Limits Surrogate 62 - 137 1,2-Dichloroethane-d4 (Surr) 102 56 - 136 4-Bromofluorobenzene (Surr) 98 78 - 122 Toluene-d8 (Surr) 109 Dibromofluoromethane (Surr) 99 73 - 120

Lab Sample ID: 240-195749-C-2 MSD

Matrix: Water

Analysis Batch: 595841

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

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20	U	500	470		ug/L		94	56 - 135	1	26
cis-1,2-Dichloroethene	49		500	482		ug/L		87	66 - 128	3	14
Tetrachloroethene	20	U	500	479		ug/L		96	62 - 131	3	20
trans-1,2-Dichloroethene	20	U	500	445		ug/L		89	56 - 136	0	15
Trichloroethene	20	U	500	431		ug/L		86	61 - 124	1	15
Vinyl chloride	690		250	893		ug/L		80	43 - 157	1	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Eurofins Cleveland

10

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-195750-1

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

Lab Sample ID: MB 240-595988/6 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 595988

	IVID	MID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/28/23 19:09	1

MΒ

MD MD

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 66 - 120 1,2-Dichloroethane-d4 (Surr) 98 11/28/23 19:09

Lab Sample ID: LCS 240-595988/4 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 595988

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	9.51		ug/L		95	80 - 122	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1 2-Dichloroethane-d4 (Surr)	104	66 - 120

Client Sample ID: Matrix Spike Lab Sample ID: 240-195835-H-3 MS **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 595988

Sample Sample Spike MS MS %Rec Result Qualifier Added Qualifier Analyte Result Unit %Rec Limits

1,4-Dioxane 2.0 U 10.0 10.5 105 51 - 153 ug/L MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 100 66 - 120

Lab Sample ID: 240-195835-N-3 MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 595988

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit

1,4-Dioxane 2.0 U 10.0 10.2 102 51 - 153 ug/L MSD MSD

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 106 66 - 120

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-195750-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 595705

Lab Sample ID 240-195750-1	Client Sample ID TRIP BLANK_89	Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batc
240-195750-2	MW-167S_111623	Total/NA	Water	8260D	
MB 240-595705/8	Method Blank	Total/NA	Water	8260D	
LCS 240-595705/5	Lab Control Sample	Total/NA	Water	8260D	
240-195660-B-33 MS	Matrix Spike	Total/NA	Water	8260D	
240-195660-B-33 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 595841

Lab Sample ID 240-195750-2	Client Sample ID MW-167S_111623	Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batch
MB 240-595841/8	Method Blank	Total/NA	Water	8260D	
LCS 240-595841/5	Lab Control Sample	Total/NA	Water	8260D	
240-195749-C-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-195749-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 595988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195750-2	MW-167S_111623	Total/NA	Water	8260D SIM	
MB 240-595988/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-595988/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-195835-H-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-195835-N-3 MSD	Matrix Snike Dunlicate	Total/NA	Water	8260D SIM	

Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-195750-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-195750-1 Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/18/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	595705	CDG	EET CLE	11/26/23 19:07

Client Sample ID: MW-167S_111623 Lab Sample ID: 240-195750-2

Date Collected: 11/16/23 13:00 Matrix: Water

Date Received: 11/18/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	595705	CDG	EET CLE	11/26/23 22:53
Total/NA	Analysis	8260D		1	595841	CDG	EET CLE	11/27/23 22:17
Total/NA	Analysis	8260D SIM		1	595988	CS	EET CLE	11/28/23 21:56

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-195750-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date		
California	State	2927	02-27-24		
Georgia	State	4062	02-27-24		
Illinois	NELAP	200004	07-31-24		
lowa	State	421	06-01-25		
Kentucky (UST)	State	112225	02-28-24		
Kentucky (WW)	State	KY98016	12-31-23		
Michigan	State	9135	02-27-24		
Minnesota	NELAP	039-999-348	12-31-23		
Minnesota (Petrofund)	State	3506	08-01-23 *		
New Jersey	NELAP	OH001	07-01-24		
New York	NELAP	10975	04-02-24		
Ohio	State	8303	02-27-24		
Ohio VAP	State	ORELAP 4062	02-27-24		
Oregon	NELAP	4062	02-27-24		
Pennsylvania	NELAP	68-00340	08-31-24		
Texas	NELAP	T104704517-22-19	08-31-24		
Virginia	NELAP	460175	09-14-24		
West Virginia DEP	State	210	12-31-23		

Eurofins Cleveland

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

	Chain of Custody Record TestAmerica Laboratory location: Brighton 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	Chain of Custody Record 48 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-276	5.6/4.7	TestAmerica
Client Contact	Regulatory program: DW	NPDES RCRA Other		
Company Name: Arcadis		announce of the second		Test America I aboratorias Inc
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver Lat	Lab Contact: Mike DelMonico	COC No:
City/State/Zin: Novi MI 48377	Telephone: 248-994-2240	Telephone: 248-994-2293 Tel	Telephone: 330-497-9396	
1 (COL (111) (100) (drz (1	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Anslvces	1 of 1 COCs
Phone: 248-994-2240				FOLIAD USC OTILY
Project Name: Ford LTP Off-Site	NO(an Shorbel	TAT if different from below 3 weeks		Walk-in client
Project Number: 30146655.402.04	Method of Shipment/Carrier:	1 week		Lab sampling
PO # 30146655.402.04	Shipping/Tracking No:	(Y / I Grab=	8560B	Job/SDG No:
	Matrix	309Z8	B B uide B	
Sample Identification	Sample Date Sample Time Air Aducous	H2SO4 H1O3 HC1 NaOH NaOH NaOH Other: Composit Composit	Trans-1,2 PCE 8260 TCE 8260 Vinyl Chlo	Sample Specific Notes / Special Instructions:
TRIP BLANK_89	-	7 N N N N N N N N N N N N N N N N N N N	×	1 Trip Blank
MW-1675-111623	11/6/23 1300 6	× 3×	X	3 VOAs for 8260B
				MIO GOOD DI SCOA O
		240-19	240-195750 Chair	
Possible Hazard Identification		Comply Directal (A. f. consult		
V Non-Hazard f Flammable Ski	Skin Irritant Poison B Unknown	Sample Disposal (A fee fray be assessed it samples are retained longer than I month) Return to Client Disposal By Lab	are retained longer than 1 month) Archive For [Months	ZVULV
Special Instructions/QC Requirements & Comments: Sample Address: 1260 Sturk Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	2001 Sturk denaco.com. Cadena #E203631			95
Moran Schender	Company: Date/Time:	670c Nov (014 Story)	Company:	Date/Time:
Relinquished by:	Cacles 14/17/23	Received by:	Company	45
Relinquished by:	Company: Date/Time:	Recei	Configure:	Time: 74 00 00
	_			0,43

	1
Eurofins - Cleveland Sample Receipt Form/Narrative Login #: 45 750 Barberton Facility	2
	2
one it was a second of the sec	
Cooler Received on 11-18-23 Opened on 11-18-25	A
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other	-
Receipt After-hours: Drop-off Date/Time Storage Location	5
Eurofins Cooler # FC Foam Box Client Cooler Box Other	9
Packing material used: Bubble Wrap Foam Plastic Bag None Other	
COOLANT: Wellie Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt	
IR GUN # (CPt 1, 1 °C) Observed Cooler Temp. 3. (0 °C Corrected Cooler Temp. 4.7 °C	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity (es) No	8
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA Tests that are not checked for pH by	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (b) Receiving:	9
-Were tamper/custody seals intact and uncompromised? Yes No NA	
3. Shippers' packing slip attached to the cooler(s)?	
4. Did custody papers accompany the sample(s)?	
5. Were the custody papers relinquished & signed in the appropriate place? Yes No	
6. Was/were the person(s) who collected the samples clearly identified on the COC? Ves No	
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	
9. For each sample, does the COC specify preservatives (Y)N), # of containers (Y)N), and sample type of grab/comp(Y)N)?	13
10. Were correct bottle(s) used for the test(s) indicated? Yes No	
11. Sufficient quantity received to perform indicated analyses? No	14
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.	
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719	
14. Were VOAs on the COC?	

18. CHAIN OF CUSTO	ODY & SAMPLE DISCREPANCIES	additional next page	Samples processed by:
19. SAMPLE CONDIT	TION		
Sample(s)	were received a	fter the recommended holdi	
Sample(s)		were received	in a broken container.
Sample(s)	were received awere rec	were received	in a broken container.

15. Were air bubbles >6 mm in any VOA vials? Larger than this.
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 62225

Contacted PM _____ Date _____ by ____ via Verbal Voice Mail Other

17. Was a LL Hg or Me Hg trip blank present?

DATA VERIFICATION REPORT



December 01, 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: 195750-1 Sample date: 2023-11-16

Report received by CADENA: 2023-12-01

Initial Data Verification completed by CADENA: 2023-12-01

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

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

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 195750-1

		Sample Name:	TRIP BLA	ANK_89			MW-167	7S_1116	23	
		Lab Sample ID:	2401957	7501			2401957	7502		
		Sample Date:	11/16/2	023			11/16/2	023		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-826	<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 # 240-195750-1

CADENA Verification Report: 2023-12-01

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52170R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-195750-1 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	Darront Sample		Ana	lysis
Sample ID	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_89	240-195750-1	Water	11/16/2023		Х	
MW-167S_111623	240-195750-2	Water	11/16/2023		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed		Reported		mance otable	Not Required	
	No	Yes	No	Yes	Required	
Sample receipt condition		Х		Х		
Requested analyses and sample results		X		Х		
Master tracking list		X		Х		
4. Methods of analysis		X		Х		
5. Reporting limits		X		Х		
6. Sample collection date		Х		Х		
7. Laboratory sample received date		Х		Х		
8. Sample preservation verification (as applicable)		Х		Х		
Sample preparation/extraction/analysis dates		Х		Х		
10. Fully executed Chain-of-Custody (COC) form		Х		Х		
Narrative summary of Quality Assurance or sample problems provided		Х		Х		
12. Data Package Completeness and Compliance		Х		Х		

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- · Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM		oorted	Acceptable		Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
System performance and column resolution		X		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD					Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:

DATE: December 15, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 18, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

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



Client Contact Regulatory program: f 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: 248-994-2293 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses For lab use only Phone: 248-994-2240 Sampler Name: Walk-in client Project Name: Ford LTP Off-Site Molan Schende | Method of Shipment/Carrier: 3 weeks ✓ 2 weeks Lab sampling Project Number: 30146655.402.04 1 week 1,4-Dioxane 8260B SIM 2 days Trans-1,2-DCE 8260B 8260B PO # 30146655.402.04 Shipping/Tracking No: 1 day Job/SDG No: Matrix /inyl Chloride Containers & Preservatives PCE 8260B H2SO4 Sample Specific Notes / HN03 НС Special Instructions: Sample Identification Sample Date Sample Time TRIP BLANK_89 NGX Х X Χ Χ X 1 Trip Blank MW-1675_111623 11/6/23 1300 6 X × x X 3 VOAs for 8260B X X 3 VOAs for 8260B SIM Page 388 으 240-195750 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Flammable Skin Irritant Unknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Sample Address: 1260 Beatong 1200 Stork
Submit all results through Cadena at itomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by: Num Schenden Arcadis 11/17/23 6700 Relinquished by: Relinquished by:

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195750-1

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-195750-1 Date Collected: 11/16/23 00:00 **Matrix: Water**

Date Received: 11/18/23 08:00

Project/Site: Ford LTP - Off Site

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/26/23 19:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/26/23 19:07	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/23 19:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/23 19:07	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/26/23 19:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/26/23 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					11/26/23 19:07	1
4-Bromofluorobenzene (Surr)	82		56 - 136					11/26/23 19:07	1
Toluene-d8 (Surr)	104		78 - 122					11/26/23 19:07	1
Dibromofluoromethane (Surr)	103		73 - 120					11/26/23 19:07	1

Client Sample ID: MW-167S_111623

Date Collected: 11/16/23 13:00

Date Received: 11/18/23 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/28/23 21:56	1
Surrogate 1,2-Dichloroethane-d4 (Surr)	%Recovery	Qualifier	Limits 66 - 120			-	Prepared	Analyzed 11/28/23 21:56	Dil Fac

	Dil Fac
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed D	Jii i uo
1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 11/26/23 22:53	1
cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/26/23 22:53	1
Tetrachloroethene 1.0 U 1.0 0.44 ug/L 11/26/23 22:53	1
trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/26/23 22:53	1
Trichloroethene 1.0 U 1.0 0.44 ug/L 11/26/23 22:53	1
Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/27/23 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137		11/26/23 22:53	1
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		11/27/23 22:17	1
4-Bromofluorobenzene (Surr)	82		56 ₋ 136		11/26/23 22:53	1
4-Bromofluorobenzene (Surr)	81		56 - 136		11/27/23 22:17	1
Toluene-d8 (Surr)	103		78 - 122		11/26/23 22:53	1
Toluene-d8 (Surr)	103		78 - 122		11/27/23 22:17	1
Dibromofluoromethane (Surr)	104		73 - 120		11/26/23 22:53	1
Dibromofluoromethane (Surr)	101		73 - 120		11/27/23 22:17	1

Lab Sample ID: 240-195750-2

Matrix: Water