

Environment Testing America

ANALYTICAL REPORT

Eurofins Canton 180 S. Van Buren Avenue Barberton, OH 44203 Tel: (330)497-9396

Laboratory Job ID: 240-166713-1 Client Project/Site: Ford LTP - Off Site

For:

ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mode Del Your

Authorized for release by: 5/27/2022 11:09:01 AM

Michael DelMonico, Project Manager I (330)497-9396

Michael.DelMonico@et.eurofinsus.com

----- LINKS -----**Review your project** results through EOL **Have a Question?**

Visit us at: www.eurofinsus.com/Env This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-166713-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) **DER**

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)

Estimated Detection Limit (Dioxin) **EDL** 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 MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

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**

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

Too Numerous To Count **TNTC**

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

Job ID: 240-166713-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-166713-1

Comments

No additional comments.

Receipt

The samples were received on 5/17/2022 9:30 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 0.6° C and 2.1° C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) for analytical batch 527480 exceeded control criteria for one or multiple compounds. The samples associated with this CCV were non-detect for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required: TRIP BLANK 115 (240-166713-1) and MW-172S 051122 (240-166713-2).

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

VOA Prep

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

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Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Job ID: 240-166713-1

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

Protocol References:

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

Laboratory References:

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Sample Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Lab Sample ID **Client Sample ID** Matrix Collected Received 240-166713-1 TRIP BLANK_115 05/11/22 00:00 05/17/22 09:30 Water 240-166713-2 MW-172S_051122 Water 05/11/22 10:21 05/17/22 09:30

Job ID: 240-166713-1

Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_115 Lab Sample ID: 240-166713-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_115

Date Collected: 05/11/22 00:00 Date Received: 05/17/22 09:30 Lab Sample ID: 240-166713-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/23/22 19:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/23/22 19:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/23/22 19:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/23/22 19:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/23/22 19:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/23/22 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			-		05/23/22 19:04	1
4-Bromofluorobenzene (Surr)	109		56 - 136					05/23/22 19:04	1
Toluene-d8 (Surr)	92		78 - 122					05/23/22 19:04	1
Dibromofluoromethane (Surr)	119		73 - 120					05/23/22 19:04	1

Eurofins Canton

5/27/2022

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-172S_051122

Date Collected: 05/11/22 10:21 Date Received: 05/17/22 09:30

Dibromofluoromethane (Surr)

Lab Sample ID: 240-166713-2

05/23/22 19:28

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			05/21/22 04:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					05/21/22 04:42	1
Method: 8260D - Volatile O	rganic Compo	unds 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			05/23/22 19:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/23/22 19:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/23/22 19:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/23/22 19:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/23/22 19:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/23/22 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					05/23/22 19:28	1
4-Bromofluorobenzene (Surr)	109		56 ₋ 136					05/23/22 19:28	1
Toluene-d8 (Surr)	92		78 - 122					05/23/22 19:28	1

73 - 120

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-166713-1	TRIP BLANK_115	98	109	92	119
240-166713-2	MW-172S_051122	100	109	92	120
240-166727-C-2 MSD	Matrix Spike Duplicate	76	124	97	98
240-166727-F-2 MS	Matrix Spike	78	126	100	98
LCS 240-527480/5	Lab Control Sample	81	127	97	95
MB 240-527480/8	Method Blank	90	113	90	106
Surrogato Logand					

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-166713-2	MW-172S_051122	81	
240-166860-C-2 MS	Matrix Spike	85	
240-166860-C-2 MSD	Matrix Spike Duplicate	83	
LCS 240-527374/3	Lab Control Sample	85	
MB 240-527374/4	Method Blank	83	
Surrogate Legend			

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

Client: ARCADIS U.S., Inc. Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-527480/8

Matrix: Water

Analysis Batch: 527480

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

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 05/23/22 12:12 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/23/22 12:12 1.0 U 0.44 ug/L Tetrachloroethene 1.0 05/23/22 12:12 0.51 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 05/23/22 12:12 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/23/22 12:12 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/23/22 12:12

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 90 1,2-Dichloroethane-d4 (Surr) 05/23/22 12:12 4-Bromofluorobenzene (Surr) 113 56 - 136 05/23/22 12:12 78 - 122 Toluene-d8 (Surr) 90 05/23/22 12:12 Dibromofluoromethane (Surr) 106 73 - 120 05/23/22 12:12

Lab Sample ID: LCS 240-527480/5

Matrix: Water

Analysis Batch: 527480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits 20.0 20.5 102 63 - 134 1,1-Dichloroethene ug/L cis-1,2-Dichloroethene 20.0 20.6 ug/L 103 77 - 123 Tetrachloroethene 20.0 21.5 107 ug/L 76 - 123 trans-1.2-Dichloroethene 20.0 19.8 ug/L 99 75 - 124 Trichloroethene 20.0 20.6 103 70 - 122 ug/L Vinyl chloride 20.0 14.2 ug/L 71 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 81 62 - 137 4-Bromofluorobenzene (Surr) 127 56 - 136 Toluene-d8 (Surr) 97 78 - 122 73 - 120 Dibromofluoromethane (Surr) 95

Lab Sample ID: 240-166727-C-2 MSD

Matrix: Water

Analysis Batch: 527480

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	1.0	U	20.0	17.9		ug/L		89	56 - 135	4	26
cis-1,2-Dichloroethene	1.0	U	20.0	17.0		ug/L		85	66 - 128	5	14
Tetrachloroethene	1.0	U	20.0	17.3		ug/L		87	62 - 131	7	20
trans-1,2-Dichloroethene	1.0	U	20.0	17.7		ug/L		89	56 - 136	4	15
Trichloroethene	1.0	U	20.0	17.2		ug/L		86	61 - 124	8	15
Vinyl chloride	1.0	U	20.0	13.1		ug/L		66	43 - 157	3	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	76		62 - 137
4-Bromofluorobenzene (Surr)	124		56 - 136
Toluene-d8 (Surr)	97		78 - 122

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-166713-1

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

Lab Sample ID: 240-166727-C-2 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 527480

MSD MSD

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 98 73 - 120

Lab Sample ID: 240-166727-F-2 MS

Matrix: Water

Analysis Batch: 527480

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit %Rec 1.0 U 1,1-Dichloroethene 20.0 18.7 ug/L 93 56 - 135 cis-1,2-Dichloroethene 1.0 U 20.0 179 ug/L 89 66 - 128 Tetrachloroethene 1.0 U 20.0 18.5 ug/L 93 62 - 131

trans-1.2-Dichloroethene 1.0 U 20.0 18.5 92 56 - 136 ug/L Trichloroethene 1.0 U 20.0 18.7 ug/L 94 61 - 124 Vinyl chloride 1.0 U 20.0 13.6 ug/L 43 - 157

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		62 - 137
4-Bromofluorobenzene (Surr)	126		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

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

Lab Sample ID: MB 240-527374/4

Matrix: Water

Analysis Batch: 527374

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 2.0 05/20/22 19:13 1,4-Dioxane 2.0 U 0.86 ug/L

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 83 66 - 120 05/20/22 19:13

Lab Sample ID: LCS 240-527374/3

Matrix: Water

Analysis Batch: 527374

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 11.6 ug/L 116 80 - 122

LCS LCS

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

Lab Sample ID: 240-166860-C-2 MS

Matrix: Water

Analysis Batch: 527374

Analysis Batom 021014	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	5.7		10.0	15.9		ug/L		102	51 - 153	

Eurofins Canton

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-166713-1 Project/Site: Ford LTP - Off Site

MSD MSD

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

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

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

Lab Sample ID: 240-166860-C-2 MS	D
Matrix: Water	

Analy	vsis	Batch:	527374
,a.	, 0.0	Dato	02 . 0 . 4

Alialysis Datcii. 32/3/4			
	Sample	Sample	Spike
Analyte	Result	Qualifier	Added
1,4-Dioxane	5.7		10.0
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1.2-Dichloroethane-d4 (Surr)	83		66 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

%Rec RPD D %Rec Limits RPD Limit

Result Qualifier Unit 100 51 - 153 ug/L

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-166713-1

GC/MS VOA

Analysis Batch: 527374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166713-2	MW-172S_051122	Total/NA	Water	8260D SIM	
MB 240-527374/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-527374/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-166860-C-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-166860-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 527480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166713-1	TRIP BLANK_115	Total/NA	Water	8260D	
240-166713-2	MW-172S_051122	Total/NA	Water	8260D	
MB 240-527480/8	Method Blank	Total/NA	Water	8260D	
LCS 240-527480/5	Lab Control Sample	Total/NA	Water	8260D	
240-166727-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-166727-F-2 MS	Matrix Spike	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_115 Lab Sample ID: 240-166713-1

Date Collected: 05/11/22 00:00 Matrix: Water

Date Received: 05/17/22 09:30 Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	527480	05/23/22 19:04	LEE	TAL CAN

Date Collected: 05/11/22 10:21 Matrix: Water

Date Received: 05/17/22 09:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	527480	05/23/22 19:28	LEE	TAL CAN
Total/NA	Analysis	8260D SIM		1	527374	05/21/22 04:42	CS	TAL CAN

Laboratory References:

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22 *
Illinois	NELAP	200004	07-31-22
lowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	05-24-22
Oregon	NELAP	4062	05-24-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-22-16	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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

190	TestAmerica Laboratory location: Brighlon 1044	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	63	HESTAMENCE TO STAND
Client Contact	Regulatory program: DW	W NPDES RCRA Other	Silver and the silver	
Company Name: Arcadis	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	.ab Contact: Mike DelMonico	TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 269-832-7478	Telembrae: 248, 004, 2120	Telenhane: 13ft 066, 0781	
City/State/Zip: Novi, MI, 48377	The state of the s	- Ime	carpinone: 250 room 1850s	1 of 1 COCs
Phone: 248-994-2240	Email: Kristoffer-Hinskey (a arcadis.com	Aller Park & Writer County & Links	A STATE OF THE STA	ror lab use only
Project Name: Ford LTP Off-Site	Sampler Name:	TAT if different from below 3 weeks		Walk-in client
Project Number: 30080642.402.04	Method of Shipmen/Carrier:	I week	(Lab sampling
PO#30080642,402,04	Shipping/Tracking No:	(Y)	8560	Job/SDG No:
	F-	Containers & Preservatives	_	Community Constitute N. do.
Sample Identification	Sample Date Sample Time Aduces	HYSOA HYSOA HCI NaOH NaOH Ouher: Comp	Trans-	Special Instructions:
TRIP BLANK_ 1/5	X - 22/11/S	× SX	×××××	1 Trip Blank
0 MW-1725_051122	1/ (E:0) CE/1/2	× ك يح	×××××××××××××××××××××××××××××××××××××××	3 VOAs for 8260D 3 VOAs for 8260D SIM
Page 1				
		240-166713 Chain of Custody		
Possible Hazard Identification Non-Hazard Flammable	Skin Irritant Poison B Unknown	Sample Disposal (Afee may be assessed if samples are Return to Client Disposal By Lab	s are retained longer than 1 month) Archive For Months	
ns/QC Requirements & Comments & Comments & Comments & 1/701 255+5 lts through Cadena at fromalia@ing requested.		1		
Relinquished by: Relinquished by:	a S	A 1258 Received by. Cold Storage		S/14/32 1258
Relinquished by	Company: Date Time.	350	Company: GETMC	5/16/22 1200 Date/Time: 5/7-22 0/30
(COURT FINISHMENT LEDOMICHING INC. AN INTER RESERVED. FOR THE PROPERTY OF THE				

8. CHAIN OF CUSTODY & SAMPLE DISCRE	PANCIES	additional next page	Samples processed by:
9. SAMPLE CONDITION			
		-A 4b d - d b	I die a diese had asmirad
Sample(s)wer	re received a	after the recommended h	olding time had expired.
	re received :	after the recommended he were received with bubble >6 m	olding time had expired. ved in a broken container. m in diameter. (Notify PM)
Sample(s)wer	s were re	after the recommended he were received with bubble >6 m	olding time had expired. ved in a broken container. m in diameter. (Notify PM)
sample(s) were sample(s) / X40ml vial for MW173	S_were re	ceived with bubble >6 m	yed in a broken container. m in diameter. (Notify PM)

Concerning

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Login#: 166713

	Eurofins - Canton	n Sample Receipt Mu	ultiple Cooler Form	
Cooler Description	IR Gun #	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
TA Client Box Other	(R-13) IR-15	2.1	2.1	Wet Ice Stue Ice Dry Ice
TÀ Client Box Other	R-13) IR-15	0.6	0.6	Wet ice Sive ice Dry ice Water None
TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry ice Water None
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TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet ice Blue Ice Dry ice Water None
TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
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TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet ice Sive ice Dry ice Water None
TA Client Box Other	IR-13 IR-15			Wef ice Blue ice Dry ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Slue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
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TA Client Box Other	IR-13 IR-15			Wet Ice Stue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry ice Water None
			☐ See Ten	nperature Excursion Form

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

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DATA VERIFICATION REPORT



May 29, 2022

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: 30080642.402.04

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory submittal: 166713-1 Sample date: 2022-05-11

Report received by CADENA: 2022-05-27

Initial Data Verification completed by CADENA: 2022-05-29

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

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

The following minor QC exceptions or missing information were noted:

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory Submittal: 166713-1

		Sample Name:	TRIP BLA	NK_115	,		MW-172	2S_0511	22	
		Lab Sample ID:	2401667	7131			2401667	7132		
		Sample Date:	5/11/20	22			5/11/20	22		
				Report		Valid		Report		Valid
	Analyte	Cas No.	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	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>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 # 240-166713-1

CADENA Verification Report: 2022-05-29

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 45763R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-166713-1 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:

Commis ID	LabilD	Baranisa	Sample Collection	Dawant Camania	Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_115	240-166713-1	Water	05/11/2022		X	
MW-172S_051122	240-166713-2	Water	05/11/2022		X	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Performance Acceptable		Not
	No	Yes	No	Yes	Required
Sample receipt condition		X		X	
2. Requested analyses and sample results		Х		X	
Master tracking list		Х		X	
4. Methods of analysis		Х		X	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		X	
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 of October 1999.

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.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_115 MW-172S_051122	Continuous Calibration Verification %D	Vinyl chloride	-24.6%

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
	RRF <0.05	Detect	J
nitial and Continuing Calibration RRF <0.01 ¹	Non-detect	R	
Calibration	RRF <0.011	Non-detect R Detect J Non-detect R Detect J Non-detect J	J
Calibration	Non-detect	No Astion	
	RRF >0.05 of RRF >0.01	05 or RRF >0.01 ¹ Non-detect	
Initial Calibration		Non-detect	UJ

Initial/Continuing	Criteria	Sample Result	Qualification
	%RSD > 20% or a correlation coefficient <0.99	Detect	J
	%RSD > 90%	Non-detect	R
	%R3D > 90%	Detect	J
	0/D > 200/ (increase in consitiuity)	Non-detect	No Action
	%D >20% (increase in sensitivity)	Detect	J
O antinario a O aliberation	0/D > 000/ (dagger = in a consist it)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	%D > 90% (increase/decrease in	Non-detect	R
	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 is 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.

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Performance Acceptable		Not Required
	No	Yes	No	Yes	Requireu
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GO	C/MS)				
Tier II Validation					
Holding times/Preservation		X		X	
Tier III Validation					
System performance and column resolution		X		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	Х		
Instrument tune and performance check		Х		X	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				X
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		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Hareesha Naik

SIGNATURE: HalinL

DATE: June 09, 2022

PEER REVIEW: Andrew Korycinski

DATE: June 12, 2022

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN

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 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: 269-832-7478 Telephone: 248-994-2329 Telephone: 330-966-9783 City/State/Zip: Novi, M1, 48377 COCs Analysis Turnaround Time Analyses Email: Kristoffer.Hinskey@arcadis.com For lab use only Phone: 248-994-2240 Sampler Name: Walk-in client Project Name: Ford LTP Off-Site 3 weeks 2 weeks Lab sampling Project Number: 30080642.402.04 1 week SIM Composite=C / Grab=G 2 days Chloride 8260D 8260D PO # 30080642.402.04 Shipping/Tracking No: ☐ I day Job/SDG No: Matrix Containers & Preservatives 1,4-Dioxane TCE 8260D Sample Specific Notes / H2SO4 NaOH Vinyl HC Special Instructions: A.F Sample Date Sample Time Sample Identification TRIP BLANK_ //5 5/11/22 X X X X X X 1 Trip Blank 3 VOAs for 8260D MW-1725_05/122 6 X X 3 VOAs for 8260D SIM Page 으 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 Archive For [Special Instructions/QC Requirements & Comments:
Sample Address: 11701 Boston Rost Submit all results through Cadena at itomalia@cadenaco.com, Cadena #E203631 Level IV Reporting requested. Relinquished by 1258 Relinquished by 1200 Relinquished by 5/16/22 ©2008, TestAmerica Laboratories, Inc. All rents reserved. TestAmerica & Design ** are trademarks of TestAmerica Laboratories, Inc.

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) **DER**

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)

Estimated Detection Limit (Dioxin) **EDL** 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 MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

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**

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

Too Numerous To Count **TNTC**

Page 3 of 19

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_115

Date Collected: 05/11/22 00:00 Date Received: 05/17/22 09:30 Lab Sample ID: 240-166713-1

Matrix: Water

Method: 8260D - Volatile O Analyte	•	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
1.1-Dichloroethene	1.0		1.0		ug/L		Trepared	05/23/22 19:04	1
cis-1.2-Dichloroethene	1.0		1.0		ug/L			05/23/22 19:04	1
Tetrachloroethene	1.0		1.0		ug/L			05/23/22 19:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/23/22 19:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/23/22 19:04	1
Vinyl chloride	1.0	M N1	1.0	0.45	ug/L			05/23/22 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137					05/23/22 19:04	1
4-Bromofluorobenzene (Surr)	109		56 - 136					05/23/22 19:04	1
Toluene-d8 (Surr)	92		78 - 122					05/23/22 19:04	1
Dibromofluoromethane (Surr)	119		73 - 120					05/23/22 19:04	1

5/27/2022

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-166713-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-172S_051122

Date Collected: 05/11/22 10:21 Date Received: 05/17/22 09:30 Lab Sample ID: 240-166713-2

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			05/21/22 04:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120			-		05/21/22 04:42	1
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/23/22 19:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/23/22 19:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/23/22 19:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/23/22 19:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/23/22 19:28	1
Vinyl chloride	1.0	JY N1	1.0	0.45	ug/L			05/23/22 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					05/23/22 19:28	1
4-Bromofluorobenzene (Surr)	109		56 ₋ 136					05/23/22 19:28	1
Toluene-d8 (Surr)	92		78 - 122					05/23/22 19:28	1
Dibromofluoromethane (Surr)	120		73 - 120					05/23/22 19:28	1