

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-162663-1 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: 2/26/2022 1:11:45 PM

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

Michael.DelMonico@Eurofinset.com

·····LINKS ······

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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 signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-162663-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	
Detection Summary	7
Client Sample Results	8
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Chain of Custody	17

3

4

6

8

9

10

12

13

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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 U.S., Inc.

Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

Job ID: 240-162663-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-162663-1

Comments

No additional comments.

Receipt

The samples were received on 2/12/2022 10:20 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 1.8° C and 2.4° C.

GC/MS VOA

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-517982.

Method 8260B SIM: The matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-518020 were not spiked during prep due to analyst error.

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. Job ID: 240-162663-1 Project/Site: Ford LTP - Off Site

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	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

Sample Summary

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

Job ID: 240-162663-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-162663-1	TRIP BLANK_12	Water	02/09/22 00:00	02/12/22 10:20
240-162663-2	MW-217S_020922	Water	02/09/22 16:01	02/12/22 10:20
240-162663-3	MW-112S_021022	Water	02/10/22 10:06	02/12/22 10:20

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Detection Summary

Project/Site: Ford LTP - Off Site	
Client Sample ID: TRIP BLANK_12	Lab Sample ID: 240-162663-1
No Detections.	
Client Sample ID: MW-217S_020922	Lab Sample ID: 240-162663-2
No Detections.	
Client Sample ID: MW-112S_021022	Lab Sample ID: 240-162663-3

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Job ID: 240-162663-1

No Detections.

Client: ARCADIS U.S., Inc.

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Client: ARCADIS U.S., Inc. Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_12

Date Collected: 02/09/22 00:00 Date Received: 02/12/22 10:20 Lab Sample ID: 240-162663-1

Matrix: Water

Method: 8260B - Volatile O Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 18:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 18:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 18:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 18:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 18:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					02/14/22 18:21	1
4-Bromofluorobenzene (Surr)	98		56 ₋ 136					02/14/22 18:21	1
Toluene-d8 (Surr)	94		78 - 122					02/14/22 18:21	1
Dibromofluoromethane (Surr)	96		73 - 120					02/14/22 18:21	1

Client: ARCADIS U.S., Inc. Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-217S_020922

Date Collected: 02/09/22 16:01 Date Received: 02/12/22 10:20 Lab Sample ID: 240-162663-2

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			02/15/22 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		66 - 120					02/15/22 02:57	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 18:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 18:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 18:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 18:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 18:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					02/14/22 18:43	1
4-Bromofluorobenzene (Surr)	100		56 ₋ 136					02/14/22 18:43	1
Toluene-d8 (Surr)	92		78 - 122					02/14/22 18:43	1
Dibromofluoromethane (Surr)	95		73 - 120					02/14/22 18:43	1

Client: ARCADIS U.S., Inc. Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-112S_021022

Date Collected: 02/10/22 10:06 Date Received: 02/12/22 10:20 Lab Sample ID: 240-162663-3

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			02/15/22 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					02/15/22 03:22	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 19:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 19:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 19:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 19:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 19:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			,		02/14/22 19:05	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136					02/14/22 19:05	1
Toluene-d8 (Surr)	95		78 - 122					02/14/22 19:05	1
Dibromofluoromethane (Surr)	98		73 - 120					02/14/22 19:05	1

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Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

Method: 8260B - Volatile Organic Compounds (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)
240-162663-1	TRIP BLANK_12	101	98	94	96
240-162663-2	MW-217S_020922	99	100	92	95
240-162663-3	MW-112S_021022	102	101	95	98
LCS 240-517982/5	Lab Control Sample	98	104	95	98
LCSD 240-517982/6	Lab Control Sample Dup	97	102	93	97
MB 240-517982/9	Method Blank	95	99	94	94

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260B 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)	
240-162663-2	MW-217S_020922	82	
240-162663-3	MW-112S_021022	81	
LCS 240-518020/4	Lab Control Sample	84	
MB 240-518020/5	Method Blank	84	

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

Job ID: 240-162663-1

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

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

Lab Sample ID: MB 240-517982/9

Matrix: Water

Analysis Batch: 517982

Client Sampl	e ID:	Meth	nod Blank	
F	rep	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			02/14/22 12:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 12:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 12:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 12:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 12:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 12:01	1

	MB MB				
Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	62 - 137		02/14/22 12:01	1
4-Bromofluorobenzene (Surr)	99	56 ₋ 136		02/14/22 12:01	1
Toluene-d8 (Surr)	94	78 - 122		02/14/22 12:01	1
Dibromofluoromethane (Surr)	94	73 - 120		02/14/22 12:01	1
Toluene-d8 (Surr)					1

Lab Sample ID: LCS 240-517982/5

Matrix: Water

Analysis Batch: 517982

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	20.0	23.1		ug/L		116	63 - 134	
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	77 - 123	
Tetrachloroethene	20.0	18.9		ug/L		95	76 - 123	
trans-1,2-Dichloroethene	20.0	20.9		ug/L		104	75 - 124	
Trichloroethene	20.0	20.2		ug/L		101	70 - 122	
Vinyl chloride	20.0	20.5		ug/L		103	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	104		56 ₋ 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	08		73 120

Lab Sample ID: LCSD 240-517982/6

Matrix: Water

Analysis Batch: 517982

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	22.1		ug/L		110	63 - 134	5	35
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	77 - 123	1	35
Tetrachloroethene	20.0	18.7		ug/L		94	76 - 123	1	35
trans-1,2-Dichloroethene	20.0	20.3		ug/L		102	75 - 124	2	35
Trichloroethene	20.0	20.1		ug/L		100	70 - 122	0	35
Vinyl chloride	20.0	19.9		ug/L		99	60 - 144	3	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	93		78 - 122

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QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCSD 240-517982/6

Matrix: Water

Analysis Batch: 517982

LCSD LCSD

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

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 73 - 120 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Lab Sample ID: MB 240-518020/5 **Client Sample ID: Method Blank** Prep Type: Total/NA

RL

2.0

Limits

66 - 120

Matrix: Water

1,4-Dioxane

Surrogate

Analysis Batch: 518020

MB MB

Analyte Result Qualifier

Ū 2.0 MB MB

Qualifier

LCS LCS

9.61

Result Qualifier

Unit

ug/L

MDL Unit 0.86 ug/L

D Prepared

D

Prepared

Analyzed 02/14/22 17:23

Dil Fac

Analyzed

Dil Fac 02/14/22 17:23

Lab Sample ID: LCS 240-518020/4

Matrix: Water

Analysis Batch: 518020

1,2-Dichloroethane-d4 (Surr)

Analyte 1,4-Dioxane

Surrogate 1,2-Dichloroethane-d4 (Surr)

LCS LCS %Recovery Qualifier 84

%Recovery

84

Limits 66 - 120

Spike

Added

10.0

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec.

%Rec Limits 96 80 - 122

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-162663-1 Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 517982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162663-1	TRIP BLANK_12	Total/NA	Water	8260B	
240-162663-2	MW-217S_020922	Total/NA	Water	8260B	
240-162663-3	MW-112S_021022	Total/NA	Water	8260B	
MB 240-517982/9	Method Blank	Total/NA	Water	8260B	
LCS 240-517982/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 240-517982/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 518020

Lab Sample ID 240-162663-2	Client Sample ID MW-217S_020922	Prep Type Total/NA	Matrix Water	Method 8260B SIM	Prep Batch
240-162663-3	MW-112S_021022	Total/NA	Water	8260B SIM	
MB 240-518020/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-518020/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

Date Received: 02/12/22 10:20

Client Sample ID: TRIP BLANK_12

Lab Sample ID: 240-162663-1 Date Collected: 02/09/22 00:00 **Matrix: Water**

Batch Batch Dilution Batch **Prepared** Method **Factor** Number or Analyzed Analyst **Prep Type** Type Run Lab Total/NA Analysis 8260B 517982 02/14/22 18:21 TJL1 TAL CAN

Client Sample ID: MW-217S_020922

Lab Sample ID: 240-162663-2 Date Collected: 02/09/22 16:01

Matrix: Water

Date Received: 02/12/22 10:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517982	02/14/22 18:43	TJL1	TAL CAN
Total/NA	Analysis	8260B SIM		1	518020	02/15/22 02:57	CS	TAL CAN

Client Sample ID: MW-112S 021022 Lab Sample ID: 240-162663-3

Date Collected: 02/10/22 10:06 **Matrix: Water**

Date Received: 02/12/22 10:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517982	02/14/22 19:05	TJL1	TAL CAN
Total/NA	Analysis	8260B SIM		1	518020	02/15/22 03:22	CS	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-162663-1

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	02-23-22
Connecticut	State	PH-0590	12-31-21 *
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
lowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
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	11-06-22
New York	NELAP	10975	03-31-22
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-21-14	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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

Eurofins Canton

MICHIGAN	8110	7.6186	77-	
061	d doing	Chain of Custody Record	- C-2CC	TestAmerica
Client Contact	_	DW NPDES RCRA Cother	-2763	THE LEADER IN ENVIRONMENTAL LESTING
Company vante: Arcadis Address: 2850 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Julia McClafferty	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc. COC No:
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240	Telephone: 734-644-5131	Telephone: 330-497-9396	1 of 1 COCs
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Hime	Analyses	For lab use only
Project Name: Ford LTP Off-Site Project Number: 30080642.402.04	Sampler Name: GRAY Method of Subment/Carrier:		V	Walk-in client Lab sampling
PO # 30080642.402.04	Shipping/Tracking No:	Grab=C	8260B	Job/SDG No:
	Matrix	/)==C	B B DCE	
Sample Identification	Sample Date Sample Time Aducous Solid Aducous	L'I-DCE 8 Combostes Chileses Combostes Chileses Combostes Comboste	C18-1,2-DC Trans-1,2- PCE 82601 Vinyl Chlor	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 13	x - 22/b/2	× ℃	××××	1 Trip Blank
GEPORO-STIE-VIM	(2/2) 1601 X	N C X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	3 VOAs for 8260B 3 VOAs for 8260B SIM
EROIRO -SEI/-MM	x 2/0/2/ 10:0/0/x	3 7 8	X	
		240-162665	240-162663 Ch.	
			Crisin of Custody	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	tant Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Client Archive For Mon	oles are retained longer than I month) Archive For Months	
Special Instructions/QC Requirements & Comments: Sample Address: 34935 いののにいいても Sample Address: 34935 いののにかいても Submit all results through Cadena at Itomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	.o.com, Cadena #E203631			
Relinquished by:		1703 NOV COLU Sto	Stora of & Company:	Date Fine: / 1703
Relinquished by Comments of the Comments of th	S	Received by Man	, ساق	ine:
	Le Company (1-22	100 Received in Laboratory by	Company:	Date Time:
©2008 Teakhrwits I Bornarise Prc. Ad riphis neerved. I estwinans & beep " as e assentants of instruments caporatores, Prc.		0		

Eurofins TestAmerica Canton Sample Receipt Form/Narrative	Login # : 162663
Canton Facility	Bogin w
Client Time Site Name	Cooler unpacked by:
Cooler Received on 2-12-22 Opened on 2-12-22	
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Other
Receipt After-hours: Drop-off Date/Time Storage Location	
COOLANT: Wester Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. C Corrected Cooler Temp.	
IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. °C Corrected Cooler IR GUN #IR-15 (CF +0.2 °C) Observed Cooler Temp. °C Corrected Cooler	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity / Qs. Yes	
	No NA Tests that are not
	checked for pH by
	No NA Receiving:
	No VOAs
	No Oil and Grease
5. Were the custody papers relinquished & signed in the appropriate place?	No TOC
6. Was/were the person(s) who collected the samples clearly identified on the COC?	No
	No
o. Could all could labels (Estates 1 line) or reconstruct injury and cook	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (X/N), and sa	
_	No No
	Ø6
If yes, Questions 13-17 have been checked at the originating laboratory.	CMO
	No QA pH Strip Lot# <u>HC157842</u>
	/ No
15. Were air bubbles >6 mm in any VOA vials? Larger than this.	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Ox 042016	No
17. Was a LL Hg or Me Hg trip blank present? Yes	5 KIZ
Contacted PM Date by via Verbal V	oice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples processed by:
19. SAMPLE CONDITION	
Sample(s) were received after the recommended hold	ing time had expired.
Sample(s) were received	in a broken container.
Sample(s) were received with bubble >6 mm	in diameter. (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s)	rther preserved in the laboratory
Sample(s) were fu Time preserved: Preservative(s) added/Lot number(s):	preserved in the laboratory.
VOA Sample Preservation - Date/Time VOAs Frozen:	

DATA VERIFICATION REPORT



February 26, 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 WA04 OFF-SITE GW Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - North Central

Laboratory submittal: 162663-1 Sample date: 2022-02-10 2022-02-09 Report received by CADENA: 2022-02-26

Initial Data Verification completed by CADENA: 2022-02-26

Number of Samples:3 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 SIM QC batch MS/MSD issues 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.

GCMS VOC QC batch did not include MS/MSD recovery data due to insufficient sample volume available for spiking according to the laboratory submittal case narrative.

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 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 - North Central

Laboratory Submittal: 162663-1

		Sample Name:	TRIP BLANK_12 MW-217S_020922											
		Lab Sample ID:	2401626	6631			2401626	5632			2401626	5633		
		Sample Date:	2/9/202	2			2/9/202	2			2/10/20	22		
				Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
OSW-8260	<u>OB</u>													
	1,1-Dichloroethene	75-35-4	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	
	Tetrachloroethene	127-18-4	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	
	Trichloroethene	79-01-6	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	
OSW-8260	<u>OBBSim</u>													
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-162663-1

CADENA Verification Report: 2022-02-26

Analyses Performed By:

TestAmerica North Canton, Ohio

Report # 44718R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-162663-1 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 Collection		Analysis				
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM			
TRIP BLANK_12	240-162663-1	Water	02/09/2022		Х				
MW-217S_020922	240-162663-2	Water	02/09/2022		Х	Х			
MW-112S_021022	240-162663-3	Water	02/10/2022		X	X			

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Repo	orted		mance ptable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		X	
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 8260B and 8260B 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 8260B/8260B-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.

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: 8260B/8260B-SIM	Rep	orted		rmance ptable	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		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		X	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	X				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bhagyashree Fulzele

SIGNATURE: Sfutzele

DATE: March 10, 2022

PEER REVIEW: Andrew Korycinski

DATE: March 11, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

1.7/18

2.312.4

Chain of Custody Record

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

Client Contact	Regulat	ory program	:	□ DW		F N	PDES		┌ R	CRA	-	Othe	er [
Company Name: Arcadis	Client Project	Janasau Vais	Himala			1014 61		1 11	N4 (1)													TestAmerica Labora	tories, Inc
Address: 28550 Cabot Drive, Suite 500			HINSKE	y .		Site C	ontact:	Julia	McCl	atterty				Lab (ontac	t: Mil	e Del	Monio	:0			COC No:	
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				Telepl	hone: 7	34-64	4-5131					Telep	hone:	330-4	97-93	96					3627
	Email: kristoff	er.hinskey@ar	cadis.c	om		Ai	nalysis	sis Turnaround Time						Analyses						1 of 1 (COCs		
Phone: 248-994-2240	Sampler Name					TATic	different	fferent from below												Walk-in client			
Project Name: Ford LTP Off-Site	Gary		C.					1"	3 week		183											waik-in chem	
Project Number: 30080642.402.04	Method of Ship	ment/Carrier:	rer			10	day	F"	2 week		2	ပ္			· m				SIM			Lab sampling	
PO # 30080642.402.04	Shipping/Track	ing No:							2 đays 1 day		Sample (Y / N)	/Grab=	88	360B	E 8260			8260B	260B S			Job/SDG No:	
				Matrix		(ontaine	rs & I	Preserv:	atives	Samp	te=C	8260	CE 8	5-DC	90	98	oride	ane 8				
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment Solid	Other:	H2SO4	HCI	NaOH	ZnAc	Other:	Filtered	Composite=C / Grab=G	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B			Sample Specific N Special Instruct	
TRIP BLANK_ 12	2/9/22		1	X			1				+		X	X	Х	X	Х	X				1 Trip Blank	
AN. (2175 - 225.22	03/12	11 - 1	1				1		+	-							. ,			-	+	3 VOAs for 8260	B
MW-2175-020922	101/22	1601	+	X		\vdash	6	\sqcup	+	-	N	C	X	X	X	У	Х	X	X	\rightarrow	_	3 VOAs for 8260	BSIM
MW-1125_021022	02/10/22	10:06		×			6		1		N	B	X	X	Χ	X	Х	X	X			1	
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																	-						
Possible Hazard Identification ✓ Non-Hazard Flammable Skin Irritz	= D :					San				e may be								han 1	month)				
Special Instructions/QC Requirements & Comments:	int Poiso	n B	Unkn	own			Retu	m to (Client	~	Dispos	sal By	Lab		Α	rchive	For [Mon	ths			
Sample Address: 34935 WGC/SW05+h Submit all results through Cadena at jtomalia@cadenaco	.com, Cadena #	E203631																					
Level IV Reporting requested. Relinquished by:	[Company:		Īr	Date/Fime/				Doca	ived by	r							C					In . T	
Laur thater	Company:	lis	Č	Pate/Time/		1703		Λ	100	i Ca	ola	1 :	5/0	79	12		Comp	Tre	eds:	r		Date Time: / 0d/10/22 /	703
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62008. TestAmenta i aboratoriae. Inc. All rights reserved. LestAmenta & Design. ** are trademarks of IrestAmenta Laboratories. Inc.		-		1/- +1					100	NOV!	1	60	AK	7					11'			10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	y









Client: ARCADIS U.S., Inc. Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_12

Date Collected: 02/09/22 00:00 Date Received: 02/12/22 10:20 Lab Sample ID: 240-162663-1

Matrix: Water

Method: 8260B - Volatile O Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 18:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 18:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 18:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 18:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 18:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					02/14/22 18:21	1
4-Bromofluorobenzene (Surr)	98		56 - 136					02/14/22 18:21	1
Toluene-d8 (Surr)	94		78 - 122					02/14/22 18:21	1
Dibromofluoromethane (Surr)	96		73 - 120					02/14/22 18:21	1

Client: ARCADIS U.S., Inc. Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-217S_020922

Date Collected: 02/09/22 16:01 Date Received: 02/12/22 10:20 Lab Sample ID: 240-162663-2

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			02/15/22 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		66 - 120					02/15/22 02:57	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 18:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 18:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 18:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 18:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 18:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					02/14/22 18:43	1
4-Bromofluorobenzene (Surr)	100		56 - 136					02/14/22 18:43	1
Toluene-d8 (Surr)	92		78 - 122					02/14/22 18:43	1
Dibromofluoromethane (Surr)	95		73 - 120					02/14/22 18:43	1

Client: ARCADIS U.S., Inc. Job ID: 240-162663-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-112S_021022

Date Collected: 02/10/22 10:06 Date Received: 02/12/22 10:20 Lab Sample ID: 240-162663-3

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			02/15/22 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					02/15/22 03:22	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 19:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 19:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 19:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 19:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 19:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					02/14/22 19:05	1
4-Bromofluorobenzene (Surr)	101		56 - 136					02/14/22 19:05	1
Toluene-d8 (Surr)	95		78 - 122					02/14/22 19:05	1
Dibromofluoromethane (Surr)	98		73 - 120					02/14/22 19:05	1

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