ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi Michigan 48377

Generated 11/16/2022 3:13:39 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-175884-1

my EOL Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-175884-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	8
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Chain of Custody	17
Appendix	20

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-175884-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.

Example 2 Listed under the "D" column to designate that the result is reported on a dry weight basis

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-175884-1

Project/Site: Ford LTP - Off Site

Job ID: 240-175884-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-175884-1

Comments

No additional comments.

Receipt

The samples were received on 11/4/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.9° C, 1.2° C and 1.3° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described 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: 240-175884-1

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

Protocol References:

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

Laboratory References:

EET 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

Job ID: 240-175884-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-175884-1	TRIP BLANK_02	Water	11/01/22 00:00	11/04/22 09:40
240-175884-2	MW-99S_110122	Water	11/01/22 13:15	11/04/22 09:40

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Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-175884-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_02 Lab Sample ID: 240-175884-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
cis-1,2-Dichloroethene	0.74 J	1.0	0.46 ug/L	1 8260D	Total/NA

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-175884-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_02

Date Collected: 11/01/22 00:00

Date Received: 11/04/22 09:40

Lab Sample ID: 240-175884-1

Matrix: Water

Method: SW846 8260D - Vo Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/22 12:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/22 12:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/22 12:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/22 12:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/22 12:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/22 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					11/11/22 12:14	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136					11/11/22 12:14	1
Toluene-d8 (Surr)	100		78 - 122					11/11/22 12:14	1
Dibromofluoromethane (Surr)	96		73 - 120					11/11/22 12:14	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-175884-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-99S_110122

100

98

98

Date Collected: 11/01/22 13:15 Date Received: 11/04/22 09:40

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-175884-2

11/11/22 12:38

11/11/22 12:38

11/11/22 12:38

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			11/14/22 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 120			•		11/14/22 19:21	1
_ Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/22 12:38	1
cis-1,2-Dichloroethene	0.74	J	1.0	0.46	ug/L			11/11/22 12:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/22 12:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/22 12:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/22 12:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/22 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137			•		11/11/22 12:38	1

56 - 136

78 - 122

73 - 120

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-175884-1

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)
240-175884-1	TRIP BLANK_02	91	101	100	96
240-175884-2	MW-99S_110122	93	100	98	98
240-175884-2 MS	MW-99S-MS_110122	91	102	99	97
240-175884-2 MSD	MW-99S-MSD_110122	91	103	98	98
LCS 240-551496/5	Lab Control Sample	88	99	96	96
MB 240-551496/8	Method Blank	90	102	99	95
Currente Levend					

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)	
240-175884-2	MW-99S_110122	98	
240-175884-2 MS	MW-99S-MS_110122	110	
240-175884-2 MSD	MW-99S-MSD_110122	112	
LCS 240-551906/3	Lab Control Sample	105	
MB 240-551906/4	Method Blank	120	

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

Eurofins Canton

11/16/2022

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Client: ARCADIS U.S., Inc. Job ID: 240-175884-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-551496/8

Matrix: Water

Analysis Batch: 551496

Client Samp	le ID:	Metho	d Blank
	Prep	Type: T	otal/NA

	MB	MB							
Analyte F	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/22 11:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/22 11:25	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/22 11:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/22 11:25	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/22 11:25	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/22 11:25	1

		МВ	MB				
	Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	Dil Fac
'	1,2-Dichloroethane-d4 (Surr)	90		62 - 137		11/11/22 11:25	1
	4-Bromofluorobenzene (Surr)	102		56 ₋ 136		11/11/22 11:25	1
	Toluene-d8 (Surr)	99		78 - 122		11/11/22 11:25	1
L	Dibromofluoromethane (Surr)	95		73 - 120		11/11/22 11:25	1

Lab Sample ID: LCS 240-551496/5

Matrix: Water

Analysis Batch: 551496

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 18.4 ug/L 92 63 - 134 cis-1,2-Dichloroethene 20.0 18.7 ug/L 93 77 - 123 Tetrachloroethene 20.0 19.4 ug/L 97 76 - 123 trans-1,2-Dichloroethene 20.0 18.2 91 75 - 124 ug/L Trichloroethene 20.0 18.4 ug/L 92 70 - 122 Vinyl chloride 20.0 86 60 - 144 17.3 ug/L

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	99		56 ₋ 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-175884-2 MS

Matrix: Water

Analysis Batch: 551496

Client Sample ID: MW-99S-MS_110122 Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	20.0	18.5		ug/L		93	56 - 135
cis-1,2-Dichloroethene	0.74	J	20.0	19.0		ug/L		91	66 - 128
Tetrachloroethene	1.0	U	20.0	19.2		ug/L		96	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	18.1		ug/L		91	56 - 136
Trichloroethene	1.0	U	20.0	18.3		ug/L		91	61 - 124
Vinyl chloride	1.0	U	20.0	17.1		ug/L		86	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	99		78 - 122

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Job ID: 240-175884-1

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

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

Lab Sample ID: 240-175884-2 MS Client Sample ID: MW-99S-MS_110122 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 551496

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 97 73 - 120

Lab Sample ID: 240-175884-2 MSD

Matrix: Water

Analysis Batch: 551496

Client Sample ID: MW-99S-MSD 110122

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	20.2		ug/L		101	56 - 135	9	26
cis-1,2-Dichloroethene	0.74	J	20.0	21.1		ug/L		102	66 - 128	10	14
Tetrachloroethene	1.0	U	20.0	20.8		ug/L		104	62 - 131	8	20
trans-1,2-Dichloroethene	1.0	U	20.0	19.7		ug/L		99	56 - 136	8	15
Trichloroethene	1.0	U	20.0	20.1		ug/L		101	61 - 124	10	15
Vinyl chloride	1.0	U	20.0	18.2		ug/L		91	43 - 157	6	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

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

Lab Sample ID: MB 240-551906/4 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 551906

Prep Type: Total/NA

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 11/14/22 18:27 0.86 ug/L

MB MB

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 66 - 120 120 11/14/22 18:27

Lab Sample ID: LCS 240-551906/3

Matrix: Water

Analysis Batch: 551906

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 9.69 ug/L 97

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 105 66 - 120

Lab Sample ID: 240-175884-2 MS

Matrix: Water

Analysis Batch: 551906

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	51 - 153	

Eurofins Canton

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-175884-1

Project/Site: Ford LTP - Off Site

Surrogate

1,2-Dichloroethane-d4 (Surr)

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

MSD MSD

%Recovery Qualifier

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	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	110		66 - 120								
Lab Sample ID: 240-17588 Matrix: Water Analysis Batch: 551906	4-2 MSD					Client	t Samı	ole ID: I	MW-99S-N Prep Ty	_	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	51 - 153	2	16

Limits

66 - 120

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QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-175884-1

GC/MS VOA

Analysis Batch: 551496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175884-1	TRIP BLANK_02	Total/NA	Water	8260D	
240-175884-2	MW-99S_110122	Total/NA	Water	8260D	
MB 240-551496/8	Method Blank	Total/NA	Water	8260D	
LCS 240-551496/5	Lab Control Sample	Total/NA	Water	8260D	
240-175884-2 MS	MW-99S-MS_110122	Total/NA	Water	8260D	
240-175884-2 MSD	MW-99S-MSD_110122	Total/NA	Water	8260D	

Analysis Batch: 551906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175884-2	MW-99S_110122	Total/NA	Water	8260D SIM	
MB 240-551906/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-551906/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-175884-2 MS	MW-99S-MS_110122	Total/NA	Water	8260D SIM	
240-175884-2 MSD	MW-99S-MSD_110122	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-175884-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_02

Lab Sample ID: 240-175884-1 Date Collected: 11/01/22 00:00 **Matrix: Water**

Date Received: 11/04/22 09:40

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number Analyst or Analyzed Type Run Lab 11/11/22 12:14 Total/NA Analysis 8260D 551496 HMB EET CAN

Client Sample ID: MW-99S_110122 Lab Sample ID: 240-175884-2

Date Collected: 11/01/22 13:15 **Matrix: Water**

Date Received: 11/04/22 09:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	551496	HMB	EET CAN	11/11/22 12:38
Total/NA	Analysis	8260D SIM		1	551906	CS	EET CAN	11/14/22 19:21

Laboratory References:

EET 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: 240-175884-1

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	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	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	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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

Chain of Custody Record

Client Contact	Regulato	Regulatory program:	wd –	Z.	NPDES	RCRA	Other							
SIDE AND A	Client Project Manager: Kris His	anager: Kris H	inskev	Site C	Site Contact: Christina Weaver	ina Weaver		40 1	1 sh Contact: Mike BelMonice	Aile Doll	orino		TestAmerica Laboratories, Inc.	es, Inc.
Address: 28550 Cabot Drive, Suite 500		4			MITTER CHILD	IIIa weaver			Contact:	TIKE DELIV	ouico		COC No:	
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240	994-2240		Teleph	Telephone: 248-994-2293	-2293		Tel	Telephone: 330-497-9396	1-497-939			- Jo	
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	r.hinskey(a arca	dis.com	Y.	Analysis Turnaround Tink	onnd Time		$\left\{ \right\}$		7	Analyses		yluk	
Project Name: Ford LTP Osf-Site	Sampler Namp		Sukaria	-	cnt from b	clow 3 weeks							Walk-in client	
Project Number: 30146655.402.04	Method of Shipment/Carrier:	wnt/Carrier:				l week			8				Lab sampling	
PO# 30146655,402.04	Shipping/Tracking No:	ng No:			7 -	z days I day	_		10928				Job/SDG No:	
		ľ	Matrix	2	Containers & Preservatives	eservatives					-			4
Sample Identification	Sample Date	Sample Time	Air Aqueous Sediment Solid	FOSTH	ABOH HCI HCI	Unpres Unpres	Filtered S: Composite	1,1-DCE 8	1,2-1,2-	CE 85001	iold) tyni) nexoiQ-4,		Sample Specific Notes / Special Instructions:	
TRIP BLANK_ 02	1			#	-		U Z	×	╫	╢─	╫		1 Trip Blank	
MW-995_110122	11/1/22	1315	e		و		5	×	Z	×	×		3 VOAs for 8260B	
MW-995-MS_110122	241/11	1315	5		7		2	X	×	×	X		3 VOAS TOF 8260B SIL	2
MW-995-MSD-110122	22/1/11	1315	9		_S		<u>ئ</u> 2	× ×	X	X	X		Run MS	1 2
														-
								-			-			
								1						
							7	 = ₹	0-17588	A Chain	240-175884 Chain of Custody			
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	itant Poison B		Unknown	Sam	ple Disposal (A f	ee may	Disposal By Lab	1						
ommen	cc.com. Cadena #E						fa meader	T T T T T T T T T T T T T T T T T T T		The second secon	Manual	SIT		
Relinquished by Sam S	Company	51	Date/Time 22	1550	Received by NOV (oldstolar	9(0)	28	Company:	radis		Date(Time: 7.2 1550)	0
Relinquished by:	Company	5)	Date Time:	12 150	N. C.	3	1		0	Company	10/2		Time:	
Relinquished by:	Commany:		Date/Time.		7				1	1	1000			

13

Eurofins - Canton Sample Receipt Form/Narrative Logic	11000	
Eurofins - Canton Sample Receipt Form/Narrative Logis Barberton Eacility	1#: 1 200	
Client Accords Site Name LTP	Cooler unpacked by:	
Cooler Received on Opened on	Sime	
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier	Other	
Receipt After-hours: Drop-off Date/Time Storage Locati	on	
Eurofins Cooler # Foam Box Client Cooler Box Other		
Packing material used: Bubble Wsap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None		
1. Cooler temperature upon receipt See Multiple Cool	er Form	
IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp °C Corrected Cooler		
IR GUN #IR-15 (CF 0.0°C) Observed Cooler Temp. C Corrected Cool		
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Pa		t are not
-Were the seals on the outside of the cooler(s) signed & dated?	Yes No NA checked	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised?	Yes No NA Receiving	j:
3. Shippers' packing slip attached to the cooler(s)?	VED NO NA VOAs	
4. Did custody papers accompany the sample(s)?	No Off and G	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?	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?	(es) No	פתאלע
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and 10. Were correct bottle(s) used for the test(s) indicated?	id sample type of grad/comp. Yes No	1,047,
11. Sufficient quantity received to perform indicated analyses?	(e) No	
	Yes (%)	
If yes, Questions 13-17 have been checked at the originating laboratory.		
	Yes No NA pH Strip Lot#	HC286797
14. Were VOAs on the COC?	(cs No	
	Yes No NA	
	Yes (No)	
Contacted PM Date by via Verba	Voice 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 ho	lding time had expired.	
	red in a broken container.	
Sample(s) were received with bubble >6 mm	n in diameter. (Noury PM)	
20. SAMPLE PRESERVATION		
• • • • • •		
Sample(s) were for time preserved: Preservative(s) added/Lot number(s):	further preserved in the labora	wry.
rime preserved:rreservative(s) added/Lot number(s):		
VOA Sample Preservation - Date/Time VOAs Frozen:		

Login#: 175884

Cooler De	scription	IR Gun #	Observed	Corrected	Coolant
(Circ	cle)	(Circle)	Temp °C	Temp °C	(Circle)
TA Client	Box Other	R-13 IR-15	0.5	1.2	Wet ice Blue ice Dr Water None
EA Client	Box Other	IR-13 IR-15	0,6	1.3	Wellice Blue Ice Dr Water None
Client	Box Other	JR-13 JR-15	0.2	0.9	Water None
TA Client	Box Other	IR-13 IR-15			Wet Ice Blue Ice Dr Water None
TA Client	Box Other	IR-13 IR-15	-		Wellice Blue Ice Dr
TA Client	Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dr
TA Client	Box Other	IR-13 IR-15			Wellice Blue Ice Dr
TA Client	Box Other	IR-13 IR-16			Water None Wellice Blue Ice Dr
TA Client		IR-13 IR-15			Water None Wet ice Blue ice Dr
757		IR-13 IR-15			Water Mone Water Stue Ice Dr
TA Client	Box Other	R-13 R-15			Water Mone Water Sive Ice Dr
TA CBent	Box Other	IR-13 IR-15			Water None Wetice Sivetice Dr
TA Client	Box Other	M-13 M-15			Water None Wellice Blue Ice Dr
TA Client	Box Other	7 7 7 7			Water None
TA Client	Box Other	R-13 R-15			Wet ice Bive Ice Dry Water None
TA Client	Box Other	IR-13 IR-15			Wellice Blue Ice Dr Water None
TA Client	Box Other	IR-13 IR-15			Wellice Blue Ice Dr Water None
TA Client	Box Other	IR-13 IR-15			Wellice Sive Ice Dry Water None
TA Client	Box Other	IR-13 IR-15			Wellice Blue Ice Dry Water None
TA Client	Box Other	IR-13 IR-15			Wet ice Blue ice Dry Water None
TA Client	Box Other	IR-13 IR-15			Wellice Blue Ice Dry Water Name
TA Client	Box Other	IR-13 IR-15			Wellice blue ice Dry
TA Client	Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dry
TA Client	Box Other	IR-13 IR-15			Water None Water Sive ice Dry
*****	Box Other	IR-13 IR-15			Water None Wetice Sive ice Dry
		IR-13 IR-15	-		Water None Wet Ice Blue Ice Dry
	Box Other	IR-13 IR-15			Water None Wetice Blue ice Dry
	Box Other	IR-13 IR-15			Water Mone Wet ice Blue ice Dry
	Box Other	IR-13 IR-15			Water None Wet Ice Blue Ice Dry
TA Client	Box Other				Water None Wet Ice Blue Ice Dry
TA Client	Box Other	IR-13 IR-15			Water None
TA Client	Box Other	IR-13 IR-15			Wet ice Blue ice Dry Water None
TA Client	Box Other	IR-13 IR-15			Wet ice Sive ice Dry Water None
TA Client	Box Other	IR-13 IR-15			Wet ice Blue ice Dry Water None
TA Client	Box Other	IR-13 IR-15			Wet ice Blue ice Dry Water None
TA Client	Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry

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

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

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Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396

DATA VERIFICATION REPORT



November 17, 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: 30146655.402.04 off-site

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

Laboratory submittal: 175884-1 Sample date: 2022-11-01

Report received by CADENA: 2022-11-16

Initial Data Verification completed by CADENA: 2022-11-17

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

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

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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: 175884-1

		Sample Name:	TRIP BLA	ANK_02			MW-999	5_11012	2	
		Lab Sample ID:	2401758	3841			2401758	3842		
		Sample Date:	11/1/20	22			11/1/20	22		
				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		0.74	1.0	ug/l	J
	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 # 240-175884-1

CADENA Verification Report: 2022-11-17

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 47761R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-175884-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

	Sample ID Lab ID Matrix Sample Collection			Analysis		
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_02	240-175884-1	Water	11/01/22		Х	
MW-99S_110122	240-175884-2	Water	11/01/22		X	X

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
1. Sample receipt condition		X		X	
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		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

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

SIGNATURE:

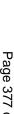
DATE: December 02, 2022

PEER REVIEW: Andrew Korycinski

DATE: December 02, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



MICHIGAN 190

Chain of Custody Record

<u>TestAmerica</u>

Client Contact Company Name: Arcadis	Regula	ory program	:	DW	□ N	PDES		RC	RA	1.0	Other									
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinskey		Site Co	ntact:	Christi	ina We	aver			La	b Cont	act: Mi	ike Del	Monic	0		Test/ COC	America Laboratories, Inc. No:
Address, 20000 Capot Drive, Suite 500	Telephone: 248	-994-2240			Teleph	Telephone: 248-994-2293 Te				Te	Telephone: 330-497-9396									
City/State/Zip: Novi, MI, 48377														1 of 1 COCs						
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.com		An	alysis I	Turnar	ound I	Ime		F	_	Analyses				For la	b use only		
Project Name: Ford LTP Off-Site	Sampler Name	oler NameSom SuKaria TAT				different fi				1								Walk	-in client	
Project Number: 30146655.402.04		Sum Sukaria sthod of Shipment/Carrier:			10 (day	2												Lab s	ampling
	Method of Ship	ment/Carrier:					2	week days		2	ပူ		8				N S			
PO # 30146655.402.04	Shipping/Track	ing No:			1		Г 1			mple (Y / N)	Graf	8260B	826(8260B	8260B		Job/S	DG No:
			,	1atrix	С	ontainer	s & Pre	eservati	ves	Samp) = C	82508	P P P	8	9	ride	9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		7000	
Sample Identification	Sample Date	Sample Time	Air	Solid Other:	H2SO4	HC	NaOH ZnAc/	NaOH Unpres	Other:	Filtered S	Composite=C / Grab=G	1,1-DCE 826	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyt Chloride	1,4-Dioxane			Sample Specific Notes / Special Instructions:
TRIP BLANK_ 02			1			1	T	Ť		N		XX			X	X			1	Trip Blank
MW-995_110122	11/1/22	1315	Le			6		+		N		()	1	X	X	K	X		3	VOAs for 8260B
MW-995-MS_110122	11/1/22	1315	4		+	4		+		\vdash	5)	C V	/	V	X	X	X		3	VOAs for 8260B SIM
MW-995-MSD_110122				++-	+	1, 1	-	+	_		1,		- X	1		 	/-		+	Pun Ms/Ms
113 P(3) - 11012 L	11/1/22	1315	6		+	0		-		7 (3/	()	X	X	X	X	X		-	L Run ms/N
						H	+	+			+	+	+	-	\vdash	-		+		
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						\forall						- ' 					' 			
								+												
											4	- 2		5884	Cha	in of	Custody			
Possible Hazard Identification ✓ Non-Hazard Flammable Skin Irrit.	ant Poise	n B	Unknown		Sam		posal (n to Cli		nay be a	isposal		n					-		_	
Special Instructions/QC/Requirements & Comments: Sample Address: Submit all results through Cadena at jtomalia@cadenacc			ZIMIN'TH		-	Retur	ii to Çil	iciii	- D	rsposat	Dy La	40		AICHIVE	e roi i		IMORUIS			
Relinquished by Sam S	Company:		Date/II	1/22 1	55(Receive	ed by:	Col	ds	sto	3(0	al	_	Comp	any:	adıs		Date	
Relinquished by:	Company:	lis	Date T	3/22) [Require	ZH	1/	_			5		Comp	any:	12		Date/	Fine: 7.7.2. 15°C
Relinquished by:	Company:		Date/T	ime: 3/32 1	535		Receive	ed in L	aborato	ry by:	n	11		5	Comp	any:	ETNO		Date/	Time: -4-22 0740

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3:13 PM

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-175884-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_02

Lab Sample ID: 240-175884-1 Date Collected: 11/01/22 00:00 **Matrix: Water**

Date Received: 11/04/22 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/22 12:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/22 12:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/22 12:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/22 12:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/22 12:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/22 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					11/11/22 12:14	1
4-Bromofluorobenzene (Surr)	101		56 - 136					11/11/22 12:14	1
Toluene-d8 (Surr)	100		78 - 122					11/11/22 12:14	1
Dibromofluoromethane (Surr)	96		73 - 120					11/11/22 12:14	1

Client Sample ID: MW-99S_110122

Date Collected: 11/01/22 13:15

Date Received: 11/04/22 09:40

Method: SW846 8260D SIM -	Volatile Orga	anic Compou	ınds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/14/22 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 120		11/14/22 19:21	1

Method: SW846 8260D - Vol	atile Organic Compounds by GC/MS								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/22 12:38	1
cis-1,2-Dichloroethene	0.74	J	1.0	0.46	ug/L			11/11/22 12:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/22 12:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/22 12:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/22 12:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/22 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137		11/11/22 12:38	1
4-Bromofluorobenzene (Surr)	100		56 - 136		11/11/22 12:38	1
Toluene-d8 (Surr)	98		78 - 122		11/11/22 12:38	1
Dibromofluoromethane (Surr)	98		73 - 120		11/11/22 12:38	1

Lab Sample ID: 240-175884-2

Matrix: Water