PREPARED FOR

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

Generated 11/29/2022 8:19:48 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-176244-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

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Authorization

Generated 11/29/2022 8:19:48 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396 Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-176244-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-176244-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation 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: 240-176244-1

Project/Site: Ford LTP - Off Site

Job ID: 240-176244-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-176244-1

Receipt

The samples were received on 11/11/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 2.4°C

GC/MS VOA

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

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Method Summary

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

Job ID: 240-176244-1

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: 240-176244-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-176244-1	TRIP BLANK_90	Water	11/08/22 00:00	11/11/22 08:00
240-176244-2	MW-92S_110822	Water	11/08/22 13:52	11/11/22 08:00

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-176244-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_90 Lab Sample ID: 240-176244-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176244-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_90

Date Collected: 11/08/22 00:00 Date Received: 11/11/22 08:00

Lab Sample ID: 240-176244-1

Matrix: Water

Method: SW846 8260D - Vo									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/22 14:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/22 14:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/22 14:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/22 14:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/22 14:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					11/17/22 14:02	1
4-Bromofluorobenzene (Surr)	77		56 ₋ 136					11/17/22 14:02	1
Toluene-d8 (Surr)	95		78 - 122					11/17/22 14:02	1
Dibromofluoromethane (Surr)	98		73 - 120					11/17/22 14:02	1

11/29/2022

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176244-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-92S_110822 Lab Sample ID: 240-176244-2

Date Collected: 11/08/22 13:52 Date Received: 11/11/22 08:00 **Matrix: Water**

Date Received. 11/11/22 06:00									
Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/22 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 2-Dichloroethane-d4 (Surr)	80		66 120			-	· ·	11/21/22 03:30	

Method: SW846	8260D - Volatile Ord	ganic Compounds b	v GC/MS
			,

metriod: 011040 0200D - Volutile Organic Compounds by Corino									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/22 16:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/22 16:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/22 16:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/22 16:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/22 16:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/22 16:33	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	62 - 137		11/17/22 16:33	1
4-Bromofluorobenzene (Surr)	77	56 - 136		11/17/22 16:33	1
Toluene-d8 (Surr)	94	78 - 122		11/17/22 16:33	1
Dibromofluoromethane (Surr)	102	73 - 120		11/17/22 16:33	1

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-176244-1

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)
240-176244-1	TRIP BLANK_90	107	77	95	98
240-176244-2	MW-92S_110822	108	77	94	102
240-176249-A-3 MSD	Matrix Spike Duplicate	91	98	97	94
240-176249-D-3 MS	Matrix Spike	97	99	97	95
LCS 240-552441/5	Lab Control Sample	93	94	98	94
MB 240-552441/8	Method Blank	104	78	96	99

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)	
240-176244-2	MW-92S_110822	80	
240-176252-I-2 MS	Matrix Spike	80	
240-176252-O-2 MSD	Matrix Spike Duplicate	80	
LCS 240-552843/3	Lab Control Sample	78	
MB 240-552843/4	Method Blank	78	
Surrogate Legend			

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

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Job ID: 240-176244-1

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

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

Lab Sample ID: MB 240-552441/8

Matrix: Water

Analysis Batch: 552441

Client Sample	e ID:	Meth	od Blank	
P	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			11/17/22 13:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/22 13:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/22 13:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/22 13:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/22 13:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/22 13:37	1

		MB	MB					
5	Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
1	1,2-Dichloroethane-d4 (Surr)	104		62 - 137			11/17/22 13:37	1
4	4-Bromofluorobenzene (Surr)	78		56 - 136			11/17/22 13:37	1
7	Toluene-d8 (Surr)	96		78 - 122			11/17/22 13:37	1
L	Dibromofluoromethane (Surr)	99		73 - 120			11/17/22 13:37	1

Lab Sample ID: LCS 240-552441/5

Matrix: Water

Analysis Batch: 552441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits 1,1-Dichloroethene 25.0 26.0 ug/L 104 63 - 134 cis-1,2-Dichloroethene 25.0 26.0 ug/L 104 77 - 123 ug/L Tetrachloroethene 25.0 25.1 101 76 - 123 trans-1,2-Dichloroethene 25.0 26.0 ug/L 104 75 - 124 Trichloroethene 25.0 24.3 ug/L 97 70 - 122 Vinyl chloride 60 - 144 12.5 10.8 ug/L

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	94		56 ₋ 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	94		73 120

Lab Sample ID: 240-176249-A-3 MSD

Matrix: Water

Analysis Batch: 552441

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	25.0	25.5		ug/L		102	56 - 135	14	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.1		ug/L		96	66 - 128	5	14
Tetrachloroethene	1.0	U	25.0	19.7		ug/L		79	62 - 131	18	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.6		ug/L		90	56 - 136	9	15
Trichloroethene	1.0	U	25.0	20.9		ug/L		84	61 - 124	8	15
Vinyl chloride	2.9		12.5	15.4		ug/L		99	43 - 157	8	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	98		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: 240-176244-1

Prep Type: Total/NA

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

Lab Sample ID: 240-176249-A-3 MSD

Matrix: Water

Analysis Batch: 552441

MSD MSD

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 94 73 - 120

Lab Sample ID: 240-176249-D-3 MS

Matrix: Water

Analysis Batch: 552441

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

Client Sample ID: Matrix Spike Duplicate

Sample Sample Spike MS MS %Rec Result Qualifier Added %Rec Analyte Result Qualifier Unit Limits 1.0 U 1,1-Dichloroethene 25.0 29.3 ug/L 117 56 - 135 cis-1,2-Dichloroethene 1.0 U 25.0 25.5 ug/L 102 66 - 128 Tetrachloroethene 1.0 U 25.0 23.7 ug/L 95 62 - 131trans-1.2-Dichloroethene 1.0 U 25.0 24.7 99 56 - 136 ug/L Trichloroethene 1.0 U 25.0 22.7 ug/L 91 61 - 124 Vinyl chloride 2.9 12.5 16.6 ug/L 109 43 - 157

73 - 120

MS MS %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 97 62 - 137 4-Bromofluorobenzene (Surr) 99 56 - 136 Toluene-d8 (Surr) 97 78 - 122

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

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MB MB

Lab Sample ID: MB 240-552843/4

Matrix: Water

Analysis Batch: 552843

Dibromofluoromethane (Surr)

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

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/20/22 22:52

MB MB

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 78 66 - 120 11/20/22 22:52

Lab Sample ID: LCS 240-552843/3

Matrix: Water

Analysis Batch: 552843

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 8.84 ug/L 88 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 78

Lab Sample ID: 240-176252-I-2 MS

Matrix: Water

Analysis Batch: 552843

Analysis Baton. 002040										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	10.0		ug/L		100	51 - 153	

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Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Matrix Spike

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176244-1

Project/Site: Ford LTP - Off Site

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	80		66 - 120								
Lab Sample ID: 240-1762 Matrix: Water Analysis Batch: 552843	252-O-2 MSD					Client	Samp	le ID: N	latrix Spil Prep Ty	•	
7	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	9.92		ug/L		99	51 - 153	1	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1 2-Dichloroethane-d4 (Surr)	80		66 - 120								

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-176244-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 552441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176244-1	TRIP BLANK_90	Total/NA	Water	8260D	
240-176244-2	MW-92S_110822	Total/NA	Water	8260D	
MB 240-552441/8	Method Blank	Total/NA	Water	8260D	
LCS 240-552441/5	Lab Control Sample	Total/NA	Water	8260D	
240-176249-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-176249-D-3 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 552843

Lab Sample ID 240-176244-2	Client Sample ID MW-92S_110822	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-552843/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-552843/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-176252-I-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-176252-O-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 240-176244-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_90 Lab Sample ID: 240-176244-1

Date Collected: 11/08/22 00:00 Matrix: Water Date Received: 11/11/22 08:00

Batch Batch Dilution Batch Prepared
Prep Type Type Method Run Factor Number Analyst Lab or Analyzed

Client Sample ID: MW-92S_110822 Lab Sample ID: 240-176244-2

Date Collected: 11/08/22 13:52 Matrix: Water

552441 SAM

Date Received: 11/11/22 08:00

Analysis

8260D

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	552441	SAM	EET CAN	11/17/22 16:33
Total/NA	Analysis	8260D SIM		1	552843	CS	EET CAN	11/21/22 03:30

Laboratory References:

Total/NA

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

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11/17/22 14:02

EET CAN

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176244-1 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
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	06-30-23
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

Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.com Sampler Name: C G T I CLA F CERRERTH Sample Date Sample Time & Admin. Shipping/Tracking No. Natrix Containers & Project Contact: Christoffer.hinskey@arcadis.com Natrix Containers & Project Christoffer.hinskey@arcadis.com Natrix Natrix Containers & Project Christoffer.hinskey@arcadis.com Natrix Na	TestAmerica Laboratories, Telephone: 330-497-9396 Telephone: 330-497-
Sampler Name: CETICLA FERRERIA Ferrence Ferrence	Titletred Sample (Y./V) Filtetred Sample (Y./V) Composite C./ Grab=C Composite C./
Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.com Sampler Name: LETICLA FERRERIA Method of Shipment/Carrier: Sample Date Sample Time A Aqueous Sample Date Sample Time A Aqueous Natrix Nat	Telephon: 3 Tole Sample (Y / N) Composite C / Grad C C C C C C C C C
Sampler Name: LETICLA FERRERIA Nethod of Shipment/Carter: Shipping/Tracking No: Natrix Na	To Composite (Y / V) Composite C / Grab=C Composite C / Grab=C X X Trans-1,2-DCE 8260B X X Vinyl Chloride 8260B X X Vinyl Chloride 8260B X X X Y Vinyl Chloride 8260B X X X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
Sampler Name: LETICLA FERRERTH Method of Shipment/Carrier: Shipping/Tracking No: Natrix Nat	Composite (V./V) Composite C/Grab=C Composite C/Grab=C Composite C/Grab=C N X 1-DCE 8260B X X PCE 8260B X X Y PCE 8260B X X Y York Chloride 8260B X X X York Chloride 8260B X X X York Chloride 8260B
Shipping/Tracking No: Sample Date Sample Time Advecous Scaling No: Natrice Native Date Sample Time Advecous Scaling No: Natrice Native Date Sample Time Advecous Scaling No: Natrice Native Date Sample Time Advecous Scaling No: Natrice Native Date Sample Time Advecous Scaling No: Natrice Native Date Sample Time Advecous Scaling No: Natrice Native Date Sample Date Sample Time Advecous Scaling No: Natrice Native Date Sample Date Sample Time Advecous Native Date Sample Date Sample Date Sample Time Advecous Native Date Sample Date Samp	Composite (Y / V) Composite C / Grab=G Composite C / Grab=G Composite C / Grab=G Composite Seleng X X Trans-1.2-DCE 8260B X X PCE 8260B X X X Trans-1.2-DCE 8260B X X X X X X X X X X X X X X X X X X X
Sample Identification Sample Date Sample Time Air Advectors (1/18/21 1 1/18/21	Composite C / Grab Composi
1 1 1 1 1 1 1 1 1 1	### Titlered Samp Composite
9 2581 12/8/11 22 801	× × × × × × × × × × × × × × × × × × ×
9 7581 12/18/11 72/801	х х х х
	240-176244 Chain of Custody
Unknown	assessed if samples are retained longer than 1 mo
tions/OC Requirements & Comments: 12036 BRENOSTER ults through Cadena at Itomalia@cadenaco.com, Cadena #E203631	MORIES PARTY OF THE LOSS OF THE PARTY OF THE
Relinquished by: Relinquished by: Relinquished by: Received by:	COLD STORAGE Company: ARCADIS Date
N/V/CC /S /S	Religed in Laboratory Six. Company: The Date Time:

W7-NC-099

VOA Sample Preservation - Date/Time VOAs Frozen:

Login#: 176244

	Funding Conton	Commis Dessira Mari	Kinla Ocalas Franc	
Cooler Description	IR Gun #	Sample Receipt Mul		Coolant
Cooler Description (Circle)	(Cir cle)	Observed Temp °C	Corrected Temp °C	(Circle)
		Tellip C	Tellip C	(Wet ice Blue ice Dry ice
TA Client Box Other	IR-13 IR-15	1.4		Water None Wet ke Blue Ice Dry Ice
TA Client Box Other	IR-13 (IR-15)	2.4	24	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
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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
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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
TA Client Box Other	iR-13 IR-15			Wet Ice Blue Ice Dry Ice
			☐ See Tem	perature Excursion Form
		· · · · · · · · · · · · · · · · · · ·		

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

DATA VERIFICATION REPORT



November 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: 30146655.402.04 off-site

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

Laboratory submittal: 176244-1 Sample date: 2022-11-08

Report received by CADENA: 2022-11-29

Initial Data Verification completed by CADENA: 2022-11-29

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.

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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: 176244-1

	Sample Name:	TRIP BLA	ANK_90			MW-929	5_11082	2	
	Lab Sample ID:	2401762	2441			2401762	2442		
	Sample Date:	11/8/20	22			11/8/20	22		
			Report		Valid		Report		Valid
Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC									
OSW-8260D									
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-8260DSIM									
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 # 240-176244-1

CADENA Verification Report: 2022-11-29

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 47856R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-176244-1 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		Ana	lysis
Sample ID	le ID Lab ID		ab ID Matrix Date		voc	VOC SIM
TRIP BLANK_90	240-176244-1	Water	11/08/22		Х	
MW-92S_110822	240-176244-2	Water	11/08/22		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
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.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo Acce	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		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: Hrishikesh Upadhyaya

SIGNATURE:

DATE: December 08, 2022

PEER REVIEW: Andrew Korycinski

DATE: December 08, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN

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Chain of Custody Record

Te	stAn	neri	CC

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: NPDES RCRA Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2293 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of 1 COCs Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses For lab use only Phone: 248-994-2240 Sampler Name: TAT if different from below Walk-in client Project Name: Ford LTP Off-Site FERRERIA 3 weeks LETICIA 2 weeks Lab sampling Project Number: 30146655.402.04 Method of Shipment/Carrier: | | week SIN Filtered Sample (Y / N) 2 days PO# 30146655.402.04 Shipping/Tracking No: I day Job/SDG No: Chloride Matrix Containers & Preservatives Sample Specific Notes / H2SO4 Solid /inyl HCI Special Instructions: Sample Identification Sample Date | Sample Time TRIP BLANK 90 111817 G X X 1 Trip Blank 6 MW-925_110822 1352 3 VOAs for 8260B NG X XX XX X 6 3 VOAs for 8260B SIM Page 356 <u></u> 358 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 Return to Client ✓ Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Sample Address: 12036 BREWSTER
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by Received by NOVI COLD STORAGE Relinquished by Received by: Relinquished | Received in Laboratory by: 11/29/2022 8:19 AM

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176244-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_90 Lab Sample ID: 240-176244-1 Date Collected: 11/08/22 00:00 **Matrix: Water**

Date Received: 11/11/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/22 14:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/22 14:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/22 14:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/22 14:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/22 14:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					11/17/22 14:02	1
4-Bromofluorobenzene (Surr)	77		56 - 136					11/17/22 14:02	1
Toluene-d8 (Surr)	95		78 - 122					11/17/22 14:02	1
Dibromofluoromethane (Surr)	98		73 - 120					11/17/22 14:02	1

Client Sample ID: MW-92S_110822 Lab Sample ID: 240-176244-2

Date Collected: 11/08/22 13:52

Date Received: 11/11/22 08:0	00								· · · · · · ·
Method: SW846 8260D SIN		anic Comp	ounds (GC/N	IS)					
Analyte	_	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/22 03:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	80	-	66 - 120					11/21/22 03:30	
Marthards 00000 Vo	alatila Omnania	0	da b 00/M0						
Method: SW846 8260D - Vo	•	•	•		11	_	Duamanad	A a b a d	D:: F-
Analyte		Qualifier	RL _		Unit	<u>D</u> .	Prepared	Analyzed	Dil Fa
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/22 16:33	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/22 16:33	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/22 16:33	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/22 16:33	
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/22 16:33	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/22 16:33	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		11/17/22 16:33	
4-Bromofluorobenzene (Surr)	77		56 ₋ 136					11/17/22 16:33	
Toluene-d8 (Surr)	94		78 - 122					11/17/22 16:33	
Dibromofluoromethane (Surr)	102		73 - 120					11/17/22 16:33	

Matrix: Water