PREPARED FOR

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

Generated 3/12/2024 9:24:09 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200370-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 3/12/2024 9:24:09 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200370-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200370-1

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. Project: Ford LTP - Off Site

Job ID: 240-200370-1 Eurofins Cleveland

Job Narrative 240-200370-1

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

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

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

Receipt

The samples were received on 3/2/2024 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 2.4°C and 3.8°C.

GC/MS VOA

Method 8260D: The MSD for batch 240-605521 was analyzed outside of the tune time, due to an instrument fault. This is a batch QC sample; therefore, the data have been reported.

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

Eurofins Cleveland

Job ID: 240-200370-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200370-1

Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-200370-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200370-1	TRIP BLANK_86	Water	02/29/24 00:00	03/02/24 08:00
240-200370-2	MW-92S_022924	Water	02/29/24 11:40	03/02/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200370-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_86

Lab Sample ID: 240-200370-1

No Detections.

Client Sample ID: MW-92S_022924 Lab Sample ID: 240-200370-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200370-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_86

Lab Sample ID: 240-200370-1 Date Collected: 02/29/24 00:00

Matrix: Water

Date Received: 03/02/24 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			03/08/24 20:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 20:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 20:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 20:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 20:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			_		03/08/24 20:44	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					03/08/24 20:44	1
Toluene-d8 (Surr)	101		78 - 122					03/08/24 20:44	1
Dibromofluoromethane (Surr)	97		73 - 120					03/08/24 20:44	1

Eurofins Cleveland

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200370-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-92S_022924

Lab Sample ID: 240-200370-2 Date Collected: 02/29/24 11:40

Matrix: Water

Analyzed

Date Received: 03/02/24 08:00

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/08/24 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			_		03/08/24 04:31	1

MDL Unit

Prepared

1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L		03/08/24 23:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L		03/08/24 23:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		03/08/24 23:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		03/08/24 23:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		03/08/24 23:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		03/08/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137				03/08/24 23:40	1
4-Bromofluorobenzene (Surr)	84		56 - 136				03/08/24 23:40	1
, 2, 0, 1, 0, 1, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	0,1		00 - 100				00/00/21/20:10	
Toluene-d8 (Surr)	101		78 - 122				03/08/24 23:40	1

3/12/2024

Dil Fac

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200370-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
240-200370-1	TRIP BLANK_86	103	85	101	97		
240-200370-2	MW-92S_022924	106	84	101	99		
240-200378-C-2 MS	Matrix Spike	98	103	103	97		
240-200378-C-2 MSD	Matrix Spike Duplicate	96	101	104	95		
LCS 240-605521/4	Lab Control Sample	98	103	105	97		
MB 240-605521/31	Method Blank	106	92	103	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	(68-127)	
240-200367-F-2 MS	Matrix Spike	115	
240-200367-F-2 MSD	Matrix Spike Duplicate	114	
240-200370-2	MW-92S_022924	112	
LCS 240-605381/4	Lab Control Sample	106	
MB 240-605381/6	Method Blank	107	

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

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Job ID: 240-200370-1

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

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

MD MD

Lab Sample ID: MB 240-605521/31

Matrix: Water

Analysis Batch: 605521

Client Sample I	D: Method Blank
Pre	n Type: Total/NA

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/24 19:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 19:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 19:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 19:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 19:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 19:44	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 106 62 - 137 03/08/24 19:44 4-Bromofluorobenzene (Surr) 92 56 - 136 03/08/24 19:44 03/08/24 19:44 Toluene-d8 (Surr) 103 78 - 122 Dibromofluoromethane (Surr) 99 73 - 120 03/08/24 19:44

Lab Sample ID: LCS 240-605521/4

Matrix: Water

Analysis Batch: 605521

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	23.7		ug/L		95	63 - 134	
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	77 - 123	
Tetrachloroethene	25.0	25.3		ug/L		101	76 - 123	
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	75 - 124	
Trichloroethene	25.0	23.8		ug/L		95	70 - 122	
Vinyl chloride	12.5	11.9		ug/L		95	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 98 62 - 137 4-Bromofluorobenzene (Surr) 103 56 - 136 Toluene-d8 (Surr) 105 78 - 122 73 - 120 Dibromofluoromethane (Surr) 97

Lab Sample ID: 240-200378-C-2 MS

Matrix: Water

Analysis Batch: 605521

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	25.0	25.7		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	25.7		ug/L		103	66 - 128	
Tetrachloroethene	1.0	U	25.0	23.5		ug/L		94	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	25.8		ug/L		103	56 - 136	
Trichloroethene	1.0	U	25.0	23.0		ug/L		92	61 - 124	
Vinyl chloride	1.0	U	12.5	9.22		ug/L		74	43 - 157	

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

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3/12/2024

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

Job ID: 240-200370-1

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

Lab Sample ID: 240-200378-C-2 MS

Matrix: Water

Analysis Batch: 605521

Dibromofluoromethane (Surr)

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate

%Recovery Qualifier Limits 97 73 - 120

Lab Sample ID: 240-200378-C-2 MSD

Matrix: Water

Analysis Batch: 605521

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	23.6		ug/L		95	56 - 135	8	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.7		ug/L		99	66 - 128	4	14
Tetrachloroethene	1.0	U	25.0	24.0		ug/L		96	62 - 131	2	20
trans-1,2-Dichloroethene	1.0	U	25.0	24.8		ug/L		99	56 - 136	4	15
Trichloroethene	1.0	U	25.0	23.1		ug/L		92	61 - 124	0	15
Vinyl chloride	1.0	U	12.5	10.8		ug/L		86	43 - 157	16	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 96 62 - 137 101 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 104 78 - 122 Dibromofluoromethane (Surr) 95 73 - 120

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

MR MR

Lab Sample ID: MB 240-605381/6

Matrix: Water

Analysis Batch: 605381

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/07/24 21:19	1
	МВ	MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 107 68 - 127 03/07/24 21:19

Lab Sample ID: LCS 240-605381/4

Matrix: Water

Analysis Batch: 605381

,	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.4-Dioyane	10.0	10.5	-	ua/l		105	75 121	

LCS LCS %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 106

Lab Sample ID: 240-200367-F-2 MS

Matrix: Water

Analysis Batch: 605381

Client Sample ID: Matrix Spik	e
Duny Town Total/N	

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	11.6		ug/L		116	20 - 180	

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200370-1

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)			68 - 127

-,	
-	
Lab Sample ID: 240-200367-F-2 MSD	

Matrix: Water

1,4-Dioxane

10.0

Client Sample ID: Matrix Spike Duplicate

20 - 180

114

Prep Type: Total/NA

2

Analysis Batch: 605381 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec

11.4

ug/L

2.0 U MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 114 68 - 127

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200370-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 605381

Lab Sample ID 240-200370-2	Client Sample ID MW-92S 022924	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-605381/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605381/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200367-F-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200367-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 605521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200370-1	TRIP BLANK_86	Total/NA	Water	8260D	<u> </u>
240-200370-2	MW-92S_022924	Total/NA	Water	8260D	
MB 240-605521/31	Method Blank	Total/NA	Water	8260D	
LCS 240-605521/4	Lab Control Sample	Total/NA	Water	8260D	
240-200378-C-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-200378-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200370-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_86

Lab Sample ID: 240-200370-1 Date Collected: 02/29/24 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 605521 CDG EET CLE 03/08/24 20:44 Analysis

Client Sample ID: MW-92S_022924 Lab Sample ID: 240-200370-2

Date Collected: 02/29/24 11:40 **Matrix: Water**

Date Received: 03/02/24 08:00

Date Received: 03/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605521	CDG	EET CLE	03/08/24 23:40
Total/NA	Analysis	8260D SIM		1	605381	CS	EET CLE	03/08/24 04:31

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 240-200370-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24 *
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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

Chain of Custody Record

MICHIGAN										•		cord											es	tAm	eric	
Circuit Contact	TestAmerica Labora	tory location: tory program:			1044			ve, S		200 / [on, MI 4		/ 810-		763				_	_		THE LEAD	ER IN ENVIRO	NMENTAL T	ESTING
Company Name: Arcadis			-																					merica La	boratorie	s, Inc
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	H lask	ey			Site	Cont	lact:	Christ	tina W	'eaver			l.	ab C	ontact	: MIke	D el N	l onico			coc	Nα		
City/State/Zip: Novi, Mi, 48377	Telephone: 248	-994-2240					Tele	ph ou	ne: 24	48-994	1-2240				1	Telept	one:	330-49	7-939	ó				1 of 1	COC	
	Em all: kristoff	er.hinskey@ar	cadis.	com	_			Anal	ysis	Turna	round	Time			_				Aı	alyse	s		For la	buse only	COCS	
hone: 248-994-2240	Sampler Name		_	_	_		TA ?	l il dill	Terent f	From bel	ow	1	-										Walk-	in client	-	
roject Name: Ford LTP Off-Site	Sample Name	Maryam Hanani								3	weeks															
roject Number: 30167538.402.04	Method of Shipment/Carrier:									SIM		Lab sampling		Ben												
O # 301 6753&402.04	Shipping/Track	Shipping/Tracking No:					1		2 days				8260D CE 8260D	30 600			82 60D			Job/SI	Job/SDG Na					
			Т	M	atrix		ـــــــــــــــــــــــــــــــــــــــ	Соп	taine	rs & Pr	reserva	tives	- P		8260D		S S			8	9 8 2 6					
Sample I dentification	Sample Date	Sample Time	Air	Aqueons	T	Ofber:	нузон			NaOH	Τ.		Filtered Sample (Y / N)	Composite=C/	1, 1-DCE 82	os-1,2-DCE	Trans-1,2-DCE	PCE 82 60D	TCE 8260D	Vinyl Chloride	1,4-Dioxane 82600			Sample Spe Special Ins		,
TRIP BLANK_ 86				1			П		1				N	G	Х	X	X	X	Х	Х			1	Trip Blar	nk	,
MW-92S_022924	2/29/24	1140		X					6				N	G	X	X	X	χ	X	X	X			VOAs for 8		м
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WINC-899 Cooler Receipt Form Page 2 - Multiple Coden

Page 20 of 20

3/12/2024

DATA VERIFICATION REPORT



March 12, 2024

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04

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

Laboratory submittal: 200370-1 Sample date: 2024-02-29

Report received by CADENA: 2024-03-12

Initial Data Verification completed by CADENA: 2024-03-12

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

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

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch 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.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200370-1

		Sample Name:	TRIP BLA	NK_86			MW-92S	_022924		
		Lab Sample ID:	2402003	3701			2402003	3702		
		Sample Date:	2/29/202	24			2/29/202	24		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>DSIM</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 # 240-200370-1

CADENA Verification Report: 2024-03-12

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53326R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200370-1 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	Parent Sample	Ana	lysis
Sample 10	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_86	240-200370-1	Water	02/29/2024		Х	
MW-92S_022924	240-200370-2	Water	02/29/2024		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

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

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: March 22, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 3, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN

Chain of Custody Record

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200370-1

Client Sample ID: TRIP BLANK_86

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-200370-1

Date Collected: 02/29/24 00:00 **Matrix: Water** Date Received: 03/02/24 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			03/08/24 20:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 20:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 20:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 20:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 20:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137					03/08/24 20:44	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					03/08/24 20:44	1
Toluene-d8 (Surr)	101		78 - 122					03/08/24 20:44	1
Dibromofluoromethane (Surr)	97		73 - 120					03/08/24 20:44	1

Client Sample ID: MW-92S_022924 Lab Sample ID: 240-200370-2

Date Collected: 02/29/24 11:40 Date Received: 03/02/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) Result Qualifier Analyte MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/08/24 04:31

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 68 - 127 03/08/24 04:31 112

Method: SW846 8260D - Vola	tile 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			03/08/24 23:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 23:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 23:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 23:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 23:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	106		62 - 137		03/08/24 23:40	1	
4-Bromofluorobenzene (Surr)	84		56 - 136		03/08/24 23:40	1	
Toluene-d8 (Surr)	101		78 - 122		03/08/24 23:40	1	
Dibromofluoromethane (Surr)	99		73 - 120		03/08/24 23:40	1	

Matrix: Water