PREPARED FOR

Attn: Ms. Megan Meckley Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 8/14/2024 11:09:06 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208975-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 8/14/2024 11:09:06 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

Laboratory Job ID: 240-208975-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-208975-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

DER

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

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

Duplicate Error Ratio (normalized absolute difference)

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

Job ID: 240-208975-1 Eurofins Cleveland

Job Narrative 240-208975-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 8/7/2024 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 1.2°C and 1.3°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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Job ID: 240-208975-1

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Method Summary

Client: Arcadis U.S., Inc. Job ID: 240-208975-1 Project/Site: Ford LTP

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

Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208975-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208975-1	TRIP BLANK_102	Water	08/01/24 00:00	08/07/24 08:00
240-208975-2	MW-164S_080124	Water	08/01/24 12:25	08/07/24 08:00

Q

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208975-1

Client Sample ID: TRIP BLANK_102

Lab Sample ID: 240-208975-1

No Detections.

Client Sample ID: MW-164S_080124 Lab Sample ID: 240-208975-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208975-1

Project/Site: Ford LTP

Date Received: 08/07/24 08:00

Client Sample ID: TRIP BLANK_102

Lab Sample ID: 240-208975-1 Date Collected: 08/01/24 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/09/24 19:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/24 19:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 19:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/24 19:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 19:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/24 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			-		08/09/24 19:30	1
4-Bromofluorobenzene (Surr)	94		56 ₋ 136					08/09/24 19:30	1
Toluene-d8 (Surr)	97		78 - 122					08/09/24 19:30	1
Dibromofluoromethane (Surr)	89		73 - 120					08/09/24 19:30	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208975-1

Project/Site: Ford LTP

Client Sample ID: MW-164S_080124

Date Collected: 08/01/24 12:25 Date Received: 08/07/24 08:00 Lab Sample ID: 240-208975-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/12/24 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		08/12/24 15:05	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/09/24 21:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/24 21:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 21:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/24 21:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 21:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/24 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		08/09/24 21:43	1
4-Bromofluorobenzene (Surr)	87		56 ₋ 136					08/09/24 21:43	1
Toluene-d8 (Surr)	92		78 - 122					08/09/24 21:43	1
Dibromofluoromethane (Surr)	91		73 - 120					08/09/24 21:43	1

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-208975-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-208723-A-1 MS	Matrix Spike	101	99	99	100
240-208723-A-1 MSD	Matrix Spike Duplicate	93	100	96	95
240-208975-1	TRIP BLANK_102	98	94	97	89
240-208975-2	MW-164S_080124	101	87	92	91
LCS 240-622959/5	Lab Control Sample	96	101	96	97
MB 240-622959/12	Method Blank	98	88	94	90

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)	
240-208970-E-3 MS	Matrix Spike	110	
240-208970-E-3 MSD	Matrix Spike Duplicate	108	
240-208975-2	MW-164S_080124	106	
LCS 240-622992/4	Lab Control Sample	103	
MB 240-622992/7	Method Blank	101	
Surrogate Legend			

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

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Client: Arcadis U.S., Inc. Job ID: 240-208975-1

Project/Site: Ford LTP

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

Lab Sample ID: MB 240-622959/12

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 622959

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

08/09/24 19:08

MB MB Dil Fac Result Qualifier RLMDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 08/09/24 19:08 1.0 U 1.0 0.46 ug/L 08/09/24 19:08 1.0 U 1.0 0.44 ug/L 08/09/24 19:08 1.0 U 1.0 0.51 ug/L 08/09/24 19:08 1.0 U 1.0 0.44 ug/L 08/09/24 19:08

0.45 ug/L

1.0 U MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137		08/09/24 19:08	1
4-Bromofluorobenzene (Surr)	88		56 - 136		08/09/24 19:08	1
Toluene-d8 (Surr)	94		78 - 122		08/09/24 19:08	1
Dibromofluoromethane (Surr)	90		73 - 120		08/09/24 19:08	1

1.0

Lab Sample ID: LCS 240-622959/5

Matrix: Water

Analysis Batch: 622959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike	LCS	LCS			%Rec	
Added	Result	Qualifier U	nit D	%Rec	Limits	
25.0	23.5	——— u	g/L	94	63 - 134	
25.0	23.6	u	g/L	94	77 - 123	
25.0	24.2	u	g/L	97	76 - 123	
25.0	23.6	uį	g/L	94	75 - 124	
25.0	24.3	u	g/L	97	70 - 122	
12.5	14.4	u	g/L	115	60 - 144	
	Added 25.0 25.0 25.0 25.0 25.0 25.0	Added Result 25.0 23.5 25.0 23.6 25.0 24.2 25.0 23.6 25.0 24.2 25.0 24.3	Added Result Qualifier U 25.0 23.5 uç 25.0 23.6 uç 25.0 24.2 uç 25.0 23.6 uç 25.0 24.3 uç	Added Result Qualifier Unit D 25.0 23.5 ug/L 25.0 23.6 ug/L 25.0 24.2 ug/L 25.0 23.6 ug/L 25.0 24.3 ug/L	Added Result Qualifier Unit D %Rec 25.0 23.5 ug/L 94 25.0 23.6 ug/L 94 25.0 24.2 ug/L 97 25.0 23.6 ug/L 94 25.0 24.3 ug/L 97	Added Result Qualifier Unit D %Rec Limits 25.0 23.5 ug/L 94 63 - 134 25.0 23.6 ug/L 94 77 - 123 25.0 24.2 ug/L 97 76 - 123 25.0 23.6 ug/L 94 75 - 124 25.0 24.3 ug/L 97 70 - 122

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	101		56 ₋ 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-208723-A-1 MS

Matrix: Water

Analysis Batch: 622959

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	170	U	4170	3660		ug/L		88	56 - 135	
cis-1,2-Dichloroethene	3200		4170	6740		ug/L		86	66 - 128	
Tetrachloroethene	170	U	4170	3760		ug/L		90	62 - 131	
trans-1,2-Dichloroethene	170	U	4170	3790		ug/L		91	56 - 136	
Trichloroethene	170	U	4170	3660		ug/L		88	61 - 124	
Vinyl chloride	1300		2080	3680		ug/L		116	43 - 157	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	99		78 - 122

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Job ID: 240-208975-1

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

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

Lab Sample ID: 240-208723-A-1 MS

Matrix: Water

Analysis Batch: 622959

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 100 73 - 120

Lab Sample ID: 240-208723-A-1 MSD

Matrix: Water

Analysis Batch: 622959

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	170	U	4170	3550		ug/L		85	56 - 135	3	26
cis-1,2-Dichloroethene	3200		4170	6580		ug/L		82	66 - 128	2	14
Tetrachloroethene	170	U	4170	3670		ug/L		88	62 - 131	2	20
trans-1,2-Dichloroethene	170	U	4170	3590		ug/L		86	56 - 136	5	15
Trichloroethene	170	U	4170	3480		ug/L		84	61 - 124	5	15
Vinyl chloride	1300		2080	3360		ug/L		100	43 - 157	9	24
The state of the s											

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

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

Lab Sample ID: MB 240-622992/7

Matrix: Water

Analysis Batch: 622992

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Limits

75 - 121

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 08/12/24 10:23 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 101 68 - 127 08/12/24 10:23

Lab Sample ID: LCS 240-622992/4

Analyte

1,4-Dioxane

Matrix: Water Prep Type: Total/NA Analysis Batch: 622992 Spike LCS LCS %Rec

Result Qualifier

9.30

Unit

ug/L

Added

10.0

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 103

Lab Sample ID: 240-208970-E-3 MS

Matrix: Water

Analysis Batch: 622992

Client Sample ID: Matrix Spike	
Date: T T. 4-1/01 A	

%Rec

93

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	8.89		ug/L		89	20 - 180	

Eurofins Cleveland

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208975-1

Project/Site: Ford LTP

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

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

1,2-Dichloroethane-d4 (Surr)	110	
Lab Sample ID: 240-208970-E-	3 MSD	

Matrix: Water

Analysis Batch: 622992

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec 2.0 U 1,4-Dioxane 10.0 9.27 93 20 - 180 ug/L 4

20

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 108 68 - 127

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208975-1

GC/MS VOA

Analysis Batch: 622959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208975-1	TRIP BLANK_102	Total/NA	Water	8260D	
240-208975-2	MW-164S_080124	Total/NA	Water	8260D	
MB 240-622959/12	Method Blank	Total/NA	Water	8260D	
LCS 240-622959/5	Lab Control Sample	Total/NA	Water	8260D	
240-208723-A-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-208723-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 622992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208975-2	MW-164S_080124	Total/NA	Water	8260D SIM	
MB 240-622992/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-622992/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-208970-E-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-208970-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-208975-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_102

Lab Sample ID: 240-208975-1 Date Collected: 08/01/24 00:00

Matrix: Water

Date Received: 08/07/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622959	MDH	EET CLE	08/09/24 19:30

Client Sample ID: MW-164S_080124 Lab Sample ID: 240-208975-2

Date Collected: 08/01/24 12:25 Matrix: Water

Date Received: 08/07/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622959	MDH	EET CLE	08/09/24 21:43
Total/NA	Analysis	8260D SIM		1	622992	MS	EET CLE	08/12/24 15:05

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.

Project/Site: Ford LTP

Job ID: 240-208975-1

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	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-28-25
Pennsylvania	NELAP	68-00340	08-31-25
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

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Chain of Custody Record

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	 	TOSTING

Client Contact	Regulat	ory program:		Г	DW		┌ N	PDE:	s		RC	RA	(**	Oth	er [_					
Company Name: Arcadis	Client Project N	Manager: Kris l	Hinskey				Site C	ontac	ct: C	hristi	ina W	caver			!	Lab (Contac	t: Mik	e Dell	Monic	,					estAmerica Laboratories,
Address: 28550 Cabot Drive, Suite 500	Telephone: 248						Telepl											330-49							_	
City/State/Zip: Novi, MI, 48377																1 elep	none:	330-4							_	1 of 1 COCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@arc	adis.co	m				aalys	us I u	ragr	ound	1 me	-	1	⊢				A	nalys	es				F	or lab use only
Project Name: Ford LTP	Sampler Name:			,			TAT if	differe															i		V	Valle-in client
	1 191	lie M	08°	+			10	day			weeks weeks												ıl		L	ab sampling
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:							-		week days		2	P			g				SIM					
PO # US3410018772	Shipping/Track	ing No:							ſ	1	-		اد (ح)	/Gra	٥	260D	E 826			8260	260D				Į.	ob/SDG No
				Ma	trix		-	Contai	iners	& Pr	escrva	tives	Samp	Ę	8260	CE 8	20-	8	9	oride	ane 8				- 1	
Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid	Other:	H2SO4	SONH CA		NaUH	Vapres	Other:	Filtered Sample (Y/N)	Composite-C/Grab-G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample Specific Notes / Special Instructions:
TRIP BLANK_ 102 MW-1643_080124			1	-					1	T			N	G	Х	Х	Х	Х	Х	Х						1 Trip Blank
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			11				lΙ	Ì			ĺ			I												Section Street Street
Possible Hazard Identification							Sai					may be								han 1						
Non-Hazard lammable in Irritani Special Instructions/QC Requirements & Comments:			Jnkno	own			_	R	eturn	to C	lient		Dispo	osal B	y Lab		A	rchive	For		М	onths		_		
ンソ Submit all results through Cadena at jtomalia@cadenaco. Level IV Reporting requested.	637 com. Cadena #E	Beaco 203728	or																							
Relinquished by 11.1.	Company	1	D	atc/Ti	me: ,				Ŕ	eceiv	ved by		-		-)				Com	oany:					I	Date/Time:
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Barberton Facility
Cadis Site Name
8-7-XY Opened on 8-7-XY
Receipt After-hours Drop-off Date/Time Storage Location
ox Client Cooler Box
Foam Plastic Bag e Dry Ice Water
upon receipt (CF O'C) Observed
AN ON SECTION ON SECTI
-Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals intact and uncompromised?
Shippers' packing slip attached to the cooler(s)? Yes No.
5 Were the custody papers relinquished & signed in the appropriate place? TOC TOC
he COC?
10 Were correct bottle(s) used for the test(s) indicated? 11 Sufficient quantity received to perform indicated analyses?
12. Are these work share samples and all listed on the COC? Yes MO
11 yes, Questions 13-1/ nave been enecked at the originating laboratory 13 Were all preserved sample(s) at the correct pH upon receipt? 14 W. Y. W.
Were air bubbles >6 mm in any VOA vials? Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Was a LL Hg or Me Hg trip blank present?
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
19. SAMPLE CONDITION were received after the recommended holding time had expired. Sample(s) were received in a broken container
Sample(s)were received with bubble >6 mm in diameter (Notify PM)
20 SAMPLE PRESERVATION
Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s)were further preserved in the laboratory
VOA Sample Preservation - Date/Time VOAs Frozen.

Page 19 of 25

Wellice Bluelce			IR GUN #:	Other	nł Box	Client	n
er allue	Manager and the second	in the control of the	IR GUN #:	Ofher	nt Box	Client	77
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	Eurofins - Cleveland Sample Receipt Multiple Cooler Form	o Sample Receipt ML	Euroins - Cievelani				

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

Login Container Summary Report

240-208975

lemperature readings		and the markets and the street of the street				
Client Sample ID	<u>Lab ID</u>	Container Type	Container pH Temp	•-	Preservation Added	Preservation Preservation Added Lot Number
TRIP BLANK_102	240-208975-A-1	Voa Vıal 40ml - Hydrochlorıc Acid				
MW-164S_080124	240-208975-A-2	Voa Vial 40ml - Hydrochloric Acid				}
MW-164S_080124	240-208975-B-2	Voa Vial 40ml - Hydrochloric Acid				the months and the state of the
MW-164S_080124	240-208975-C-2	Voa Vial 40ml - Hydrochloric Acid	**			
MW-164S_080124	240-208975-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-164S_080124	240-208975-E-2	Voa Vial 40ml - Hydrochloric Acid	-			of tendence and toward the specimens are an analysis of the specimens are an analysis of the specimens are an a
MW-164S_080124	240-208975-F-2	Voa Vial 40ml - Hydrochloric Acid				

Page 21 of 25

Page 1 of 1



Chain of Custody Record

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THE LEAD	DER IN ENVIRO	NUENTA	TESTIN

Te	stAmerica Labora	tory location:	Brigr	nton -	- 1044	io Citatio	on Driv	e, 50	ine 2	00 / E	srignio	n, MII 4	6116	/ 610	J-229-	2/03						•			THE LEADER IN EN	THUNDENIAL TEST
Client Contact	Regulat	ory program:			DV	V	1-	NPDI	ES	ſ	RC	RA	l.	Oth	er											
ompany Name: Arcadis	Client Project !	Manager: Kris	Hinsk	ey			Site	Conta	act: C	hrist	ina W	CAVET		-		Lab (Contac	ct: Mi	ke Del	Monie	:0				COC No:	Laboratories, In
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248						Tala		. 249	8-994-	2240				_	Talas		330 /	97-93	96						
ity/State/Zip: Novi, MI, 48377	Telephone: 248	-774-2240														reiet	mone:	330-4							1 of	
hone: 248-994-2240	Email: kristoff	er.hinskey@arc	cadis.	com			-	Amaly	sis T	urnar	ound 1	ime	-		\vdash				A	naly:	ses	1			For lab use onl	<u>y</u>
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roject Name: Ford LTP	Method of Ship	lies M	SE	3. +			1	0 day			weeks weeks							ŀ							Lab sampling	
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			П	_		\Box				Т	1		rd Sa	osite	E 8	DQ-	1,2-1	260	2600	Shor	oxan				Sample	Specific Notes /
Sample Identification	Sample Date	Sample Time	اذا	Aqueous	Sediment	Other:	H2SO4	HNO3	딮	NaOH	Vnpre	Other	Filtered	Composite=C/Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Instructions:
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Possible Hazard Identification Non-Hazard Flammable fin Irri	ant Poiso	on B	Jnkr	nown			Si				A fee lient	may be	Dispo			les ar		ned lo		han 1		h) Ionths				
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Submit all results through Cadena at jtomalia@cadena evel IV Reporting requested.	てんりん o.com. Cadona #E	Beace 203728	יקב																							
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celinquished by:	Company	2		Date/	Time:		5-	2	ار	Recei	eg in	abora	tory	y://	$\overline{}$				Com	pany:	Z.)	r.			Date/Time:	4
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CTOOR, Teathrolike a fool all two, including influence Laboratories, inc.	BE	M		8	112	124	(700	9		M	/ Iāli	SSA	4	LOA	2								É	3724	8Ars

	VOA Sample Preservation - Date/Time VOAs Frozen.
Motor amanet brease asea at the terroration.	Time preserved. Preservative(s) added/Lot number(s).
were further preserved in the Jahoratory	20. SAMPLE PRESERVATION
were received after the recommended holding time had expired. were received in a broken container were received with bubble >6 mm in diameter (Notify PM)	Were re
	19. SAMPLE CONDITION
additional next page Samples processed by	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
NIS ACIOST ADICE MIST. OMER	Concerning Date oy
Yes No	Hg or Me Hg trip blank present?
Yes No (NA) pH Strip Lot# HC442471	If yes, Questions 13-17 have been enecked at the originating inforatory 13 Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC?
X X X	11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC?
iners (YA), and sample type of grab/comp(YN)? Yes No	
ON SON ON	-
N SP NO	
Yes (No VOAs Oil and Grease	다 오
S. S. A.	 Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Were tamper/custody seals intact and uncompromised?
X X No NA T	 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Were the seals on the outside of the cooler(s) signed & dated?
p°C Corrected Cooler Temp°C	O./°C) Observed Cooler
<u>fulti</u>	Ice Dry Ice Water
Other	Eurofins Cooler # Foam Box Client Cooler Box Packing material used Bubble Wrap Foam Plastic Bag None
Storage Location	Receipt After-hours Drop-off Date/Time
	on 8-7-21 Opened on 8-
Cooler uppacked by:	Client AcCad's Site Name
Logn# /	Rurofins — Cleveland Sample Receipt Form/Narrative — Lo Barberton Facility — Lo

Page 23 of 25

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8/7/2024

240-208975

Login Container Summary Report

Temperature readings			
Client Sample ID	<u>Lab ID</u>	Container Type	pH Temp Added Lot Number
TRIP BLANK_102	240-208975-A-1	Voa Vial 40ml - Hydrochloric Acid	age in the state of the state o
MW-164S_080124	240-208975-A-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-164S_080124	240-208975-B-2	Voa Vial 40ml - Hydrochloric Acid	Annual property designs and the second secon
MW-164S_080124	240-208975-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-164S_080124	240-208975-D-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-164S_080124	240-208975-E-2	Voa Vıal 40ml - Hydrochlorıc Acid	
MW-164S_080124	240-208975-F-2	Voa Vial 40ml - Hydrochloric Acid	

Page 1 of 1

DATA VERIFICATION REPORT



August 14, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.0401.04_WA-02

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

Laboratory submittal: 208975-1 Sample date: 2024-08-01

Report received by CADENA: 2024-08-14

Initial Data Verification completed by CADENA: 2024-08-14

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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 208975-1

		Sample Name:	TRIP BL	ANK_10	2		MW-164	4S_0801	24	
		Lab Sample ID:	240208	9751			240208	9752		
		Sample Date:	8/1/202	4			8/1/202	4		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>60D</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-826	60DSIM									
	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 # 240-208975-1

CADENA Verification Report: 2024-08-14

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55518R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208975-1 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
	Labib	ID WALTIX	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_102	240-208975-1	Water	08/01/2024		X	
MW-164S_080124	240-208975-2	Water	08/01/2024		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Reported		Perfori Accep		Not Required
	No	Yes	No	Yes	rrequired
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)		X		Х	
Sample preparation/extraction/analysis dates		X		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, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_102 MW-164S_080124	Initial Calibration Verification %D	Vinyl chloride	+21.7%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
	KKF <0.05	Detect	J
	RRF <0.01 ¹	Non-detect	R
	KKF <0.01	Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	DDE - 0.05 or DDE - 0.041	Non-detect	No Action
	RRF >0.05 or RRF >0.01 ¹	Detect	No Action
	0/ DCD - 200/ ov a poveletion coefficient -0.00	Non-detect	UJ
Initial Calibration	%RSD > 20% or a correlation coefficient <0.99	Detect	J
Initial Calibration	0/ DOD 000/	Non-detect	R
	%RSD > 90%	Detect	J
	0/D 200/ (in process in populativity)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
Continuing Colibration	0/D 200/ (dagrages in consistivity)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/ D = 000/ /increase/decrease in consist vital)	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

A field duplicate sample 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.

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	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	
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: September 09, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 17, 2024

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: ■ NPDES Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs 1 of 1 Analysis Turnaround Tim Analyses Email: kristoffer.hinskey@arcadis.com For lab use only Phone: 248-994-2240 Walle-in client Sampler Name: Project Name: Ford LTP Allie Mobit 3 weeks 2 weeks 10 day Lab sampling Project Number: 30206169.0401.03 I week 1,4-Dioxane 8260D SIM Frans-1,2-DCE 8260D 2 days PO # US3410018772 1 day Shipping/Tracking No: Job/SDG No Vinyl Chloride TCE 8260D Sample Specific Notes / HNO3 Special Instructions: Sample Time Sample Identification TRIP BLANK_ 102 X Х 1 Trip Blank MW-1643_080124 6 3 VOAs for 8260D 08/01/24 X 3 VOAs for 8260D SIM Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested. Relinguished by 812124 1600

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208975-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_102

Date Collected: 08/01/24 00:00 Matrix: Water

Date Received: 08/07/24 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			08/09/24 19:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/24 19:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 19:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/24 19:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 19:30	1
Vinyl chloride	1.0	µ ∩1	1.0	0.45	ug/L			08/09/24 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			_		08/09/24 19:30	1
4-Bromofluorobenzene (Surr)	94		56 ₋ 136					08/09/24 19:30	1
Toluene-d8 (Surr)	97		78 - 122					08/09/24 19:30	1
Dibromofluoromethane (Surr)	89		73 - 120					08/09/24 19:30	1

Client Sample ID: MW-164S_080124

Date Collected: 08/01/24 12:25

Date Received: 08/07/24 08:00

Method: SW846 8260D SIM - V	olatile Organic C	ompounds	(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	 -		08/12/24 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		08/12/24 15:05	1

Method: SW846 8260D - Vola	atile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/09/24 21:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/24 21:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 21:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/24 21:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 21:43	1
Vinyl chloride	1.0	WUJ	1.0	0.45	ug/L			08/09/24 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	∕₀Kecovery	Qualifier	LIIIIII	Frepareu	Allalyzeu	DII Fac	
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		08/09/24 21:43	1	
4-Bromofluorobenzene (Surr)	87		56 - 136		08/09/24 21:43	1	
Toluene-d8 (Surr)	92		78 - 122		08/09/24 21:43	1	
Dibromofluoromethane (Surr)	91		73 - 120		08/09/24 21:43	1	

Lab Sample ID: 240-208975-1

Lab Sample ID: 240-208975-2

Matrix: Water