# PREPARED FOR

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

Generated 8/20/2024 7:52:15 AM

# **JOB DESCRIPTION**

Ford LTP

### **JOB NUMBER**

240-209276-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

# **Eurofins Cleveland**

#### **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

# Authorization

Generated 8/20/2024 7:52:15 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: 240-209276-1

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#### **Definitions/Glossary**

Client: Arcadis U.S., Inc. Job ID: 240-209276-1 Project/Site: Ford LTP

#### **Qualifiers GC/MS VOA**

Qualifier **Qualifier Description** 

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

Decision Level Concentration (Radiochemistry) DLC 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

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

**TNTC** Too Numerous To Count

**Eurofins Cleveland** 

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#### **Case Narrative**

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

Job ID: 240-209276-1 Eurofins Cleveland

Job Narrative 240-209276-1

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 8/10/2024 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 3 coolers at receipt time were 1.4°C, 1.5°C and 1.7°C.

#### GC/MS VOA

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

**Eurofins Cleveland** 

Job ID: 240-209276-1

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#### **Method Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209276-1

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

Job ID: 240-209276-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-209276-1	TRIP BLANK_52	Water	08/08/24 00:00	08/10/24 08:00
240-209276-2	MW-31 080824	Water	08/08/24 16:20	08/10/24 08:00

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#### **Detection Summary**

Client: Arcadis U.S., Inc.

Job ID: 240-209276-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_52

Lab Sample ID: 240-209276-1

No Detections.

Client Sample ID: MW-31\_080824 Lab Sample ID: 240-209276-2

No Detections.

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#### **Client Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-209276-1

Project/Site: Ford LTP

Date Received: 08/10/24 08:00

Dibromofluoromethane (Surr)

Client Sample ID: TRIP BLANK\_52

Lab Sample ID: 240-209276-1 Date Collected: 08/08/24 00:00

**Matrix: Water** 

08/16/24 13:06

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 08/16/24 13:06 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/16/24 13:06 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 08/16/24 13:06 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 08/16/24 13:06 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/16/24 13:06 Vinyl chloride 0.45 ug/L 1.0 U 1.0 08/16/24 13:06 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 120 62 - 137 08/16/24 13:06 4-Bromofluorobenzene (Surr) 107 08/16/24 13:06 56 - 136 78 - 122 08/16/24 13:06 Toluene-d8 (Surr) 106

73 - 120

#### **Client Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-209276-1

Project/Site: Ford LTP

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Client Sample ID: MW-31\_080824

118

106

103

97

Lab Sample ID: 240-209276-2 Date Collected: 08/08/24 16:20 Matrix: Water

Date Received: 08/10/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/16/24 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		68 - 127			-		08/16/24 15:21	1
- Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/16/24 16:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 16:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 16:04	1
	1.0	U	1.0	0.51	ug/L			08/16/24 16:04	1
trans-1,2-Dichloroethene									
trans-1,2-Dichloroethene Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 16:04	1
,	1.0 1.0		1.0 1.0	0.44 0.45	•			08/16/24 16:04 08/16/24 16:04	1 1

62 - 137

56 - 136

78 - 122

73 - 120

08/16/24 16:04

08/16/24 16:04

08/16/24 16:04

08/16/24 16:04

#### **Surrogate Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209276-1

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	urrogate Recovery (Acceptanc	
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-209276-1	TRIP BLANK_52	120	107	106	97	
240-209276-2	MW-31_080824	118	106	103	97	
240-209276-2 MS	MW-31-MS_080824	112	114	103	100	
240-209276-2 MSD	MW-31-MSD_080824	107	104	94	94	
LCS 240-623579/5	Lab Control Sample	109	109	103	99	
MB 240-623579/10	Method Blank	102	95	94	84	

#### 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)	
240-209276-2	MW-31_080824	109	
240-209276-2 MS	MW-31-MS_080824	110	
240-209276-2 MSD	MW-31-MSD_080824	108	
LCS 240-623583/4	Lab Control Sample	102	
MB 240-623583/6	Method Blank	106	

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

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Client: Arcadis U.S., Inc. Job ID: 240-209276-1

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

Lab Sample ID: MB 240-623579/10

**Matrix: Water** 

Project/Site: Ford LTP

Analysis Batch: 623579

Client Sample ID	: Method Blank
<b>D</b>	The Total (NIA)

Prep Type: Total/NA

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/16/24 10:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 10:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 10:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 10:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 10:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 10:15	1

MB MB Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 08/16/24 10:15 102 4-Bromofluorobenzene (Surr) 95 56 - 136 08/16/24 10:15 94 08/16/24 10:15 Toluene-d8 (Surr) 78 - 122 Dibromofluoromethane (Surr) 84 73 - 120 08/16/24 10:15

Lab Sample ID: LCS 240-623579/5

**Matrix: Water** 

Analysis Batch: 623579

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

		Opike	LOG	LUU				/BIXEC	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	1,1-Dichloroethene	50.0	37.1		ug/L		74	63 - 134	
	cis-1,2-Dichloroethene	50.0	44.8		ug/L		90	77 - 123	
	Tetrachloroethene	50.0	45.3		ug/L		91	76 - 123	
	trans-1,2-Dichloroethene	50.0	41.1		ug/L		82	75 - 124	
	Trichloroethene	50.0	44.5		ug/L		89	70 - 122	
	Vinyl chloride	50.0	48.5		ug/L		97	60 - 144	
- 1									

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		62 - 137
4-Bromofluorobenzene (Surr)	109		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-209276-2 MS

**Matrix: Water** 

Analysis Batch: 623579

Client Sample ID: MW-31-MS\_080824 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	50.0	33.2		ug/L		66	56 - 135
cis-1,2-Dichloroethene	1.0	U	50.0	43.1		ug/L		86	66 - 128
Tetrachloroethene	1.0	U	50.0	40.6		ug/L		81	62 - 131
trans-1,2-Dichloroethene	1.0	U	50.0	38.6		ug/L		77	56 - 136
Trichloroethene	1.0	U	50.0	39.9		ug/L		80	61 - 124
Vinyl chloride	1.0	U	50.0	43.4		ug/L		87	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		62 - 137
4-Bromofluorobenzene (Surr)	114		56 - 136
Toluene-d8 (Surr)	103		78 - 122

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8/20/2024

Job ID: 240-209276-1

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

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

Lab Sample ID: 240-209276-2 MS Client Sample ID: MW-31-MS\_080824

**Matrix: Water** 

Analysis Batch: 623579

Prep Type: Total/NA

MS MS

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

Lab Sample ID: 240-209276-2 MSD Client Sample ID: MW-31-MSD 080824

**Matrix: Water** 

Analysis Batch: 623579

08/16/24 10:16

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	50.0	33.3		ug/L		67	56 - 135	0	26
cis-1,2-Dichloroethene	1.0	U	50.0	43.4		ug/L		87	66 - 128	1	14
Tetrachloroethene	1.0	U	50.0	39.4		ug/L		79	62 - 131	3	20
trans-1,2-Dichloroethene	1.0	U	50.0	38.2		ug/L		76	56 - 136	1	15
Trichloroethene	1.0	U	50.0	39.6		ug/L		79	61 - 124	1	15
Vinyl chloride	1.0	U	50.0	43.4		ug/L		87	43 - 157	0	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 107 62 - 137 104 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 94 78 - 122 Dibromofluoromethane (Surr) 94 73 - 120

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

2.0 U

Lab Sample ID: MB 240-623583/6 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analyte

1,4-Dioxane

Analysis Batch: 623583

MR MR Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac

0.86 ug/L

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 106 68 - 127 08/16/24 10:16

2.0

Lab Sample ID: LCS 240-623583/4

Analysis Batch: 623583

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 7.74 ug/L 75 - 121

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 102

Lab Sample ID: 240-209276-2 MS Client Sample ID: MW-31-MS 080824

**Matrix: Water** 

Analysis Batch: 623583

7 maryoro Batorii 620000	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.4-Dioxane	2.0	U	10.0	8.10		ua/L		81	20 - 180	

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Prep Type: Total/NA

#### **QC Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-209276-1

Project/Site: Ford LTP

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		68 - 127

Lab Sample ID: 240-209276-2 MSD	Client Sample ID: MW
	_

V-31-MSD\_080824 **Matrix: Water Prep Type: Total/NA** 

Analysis Batch: 623583

	Sample	Sample	<b>Spike</b>	M2D	พอบ				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	8.91		ug/L		89	20 - 180	9	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: 240-209276-1

#### **GC/MS VOA**

#### Analysis Batch: 623579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-209276-1	TRIP BLANK_52	Total/NA	Water	8260D	
240-209276-2	MW-31_080824	Total/NA	Water	8260D	
MB 240-623579/10	Method Blank	Total/NA	Water	8260D	
LCS 240-623579/5	Lab Control Sample	Total/NA	Water	8260D	
240-209276-2 MS	MW-31-MS_080824	Total/NA	Water	8260D	
240-209276-2 MSD	MW-31-MSD_080824	Total/NA	Water	8260D	

#### Analysis Batch: 623583

Lab Sample ID 240-209276-2	Client Sample ID MW-31_080824	Prep Type Total/NA	Matrix Water	Method Prep Batch 8260D SIM
MB 240-623583/6	Method Blank	Total/NA	Water	8260D SIM
LCS 240-623583/4	Lab Control Sample	Total/NA	Water	8260D SIM
240-209276-2 MS	MW-31-MS_080824	Total/NA	Water	8260D SIM
240-209276-2 MSD	MW-31-MSD_080824	Total/NA	Water	8260D SIM

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#### **Lab Chronicle**

Client: Arcadis U.S., Inc. Job ID: 240-209276-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_52

Lab Sample ID: 240-209276-1 Date Collected: 08/08/24 00:00

Matrix: Water

Date Received: 08/10/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623579	TJL2	EET CLE	08/16/24 13:06

Client Sample ID: MW-31\_080824 Lab Sample ID: 240-209276-2

Date Collected: 08/08/24 16:20 Matrix: Water

Date Received: 08/10/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623579	TJL2	EET CLE	08/16/24 16:04
Total/NA	Analysis	8260D SIM		1	623583	MS	EET CLE	08/16/24 15:21

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: 240-209276-1

**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	02-27-25
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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MICHIGAN 190



**Chain of Custody Record** 

Client Contact	Regulat	ory program:		[	DW		1	NPDE	S	1	RC	RA	f	Othe	r												
Company Name: Arcadis	Client Project N	Manager: Kris	Hinske	γ		1	Site (	Contac	t: C	hristi	ina W	aver				Lab C	ontac	t: Mil	ce Dell	Monie	:0					TestAmerica Laborat COC No:	ories, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248						Talan	hone:	7.18	-00.1	2240				_	Telen	hone	330_4	97-939	)6					$\dashv$		
City/State/Zip: Novi, MI, 48377																reiep					rac						OCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@are	cadis.co	m				Analysis Turnaround Time				Analyses								$\neg$	For lab use only						
Project Name: Ford LTP	Sampler Name:			M.		7	TAT:	if differe			weeks		7												ı	Walk-in client	CONTRACTOR OF THE PARTY OF THE
Project Number: 30206169.0401.03	M - 1 (C):	Jeremy	u	<i>V V</i>	N.	5	10	day		2 1	weeks week										_					Lab sampling	
	Method of Ship									2 (	days		2	P		0	8260D			8	WIS C						
PO # US3410018772	Shipping/Track	ing No:								1 0	day		mple (Y / N)	C/Grab	Q	8260D	E 82			826	3260				ı	Job/SDG No	
			1	M	atrix			Conta	ners	& Pro	eservat	ves		R.	826	CE 8	2-DC	8260D	QO	oride	ane 8				- 1		1/3/4
				Aqueous	Solid	her:	H2SO4	HN03	_   2	NaOH ZaAc/	NaoH Unpres	her:	Filtered	Composite	1,1-DCE 8260D	cis-1,2-DCE	Trans-1,2-DCE	PCE 826	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D					Sample Specific N Special Instructi	
Sample Identification	Sample Date	Sample Time	₹ .	Sedin Sedin	Sol	ŏ	117		2 3	2 3	25	ŏ	E	ŭ	1.	cis	۳	2	1 TC	Š	-	$\dashv$			-		
TRIP BLANK_ 5 7				1				1	ı				N	G	Χ	Χ	Χ	Χ	Х	Х						1 Trip Blank	
MW-31_080824	08/08/24	16:20		Ç				1	9				M	6	X	K	>	· 7	X	X	4					3 VOAs for 8260 3 VOAs for 8260	
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Page 19 of 21

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8/12/2024

# **3**

# **Login Container Summary Report**

240-209276

8/20/2024

Temperature readings

MW-31-MSD_080824	MW-31-MS_080824	MW-31_080824	MW-31-MSD_080824	MW-31-MS_080824	MW-31_080824	MW-31-MSD_080824	MW-31-MS_080824	MW-31_080824	MW-31-MSD_080824	MW-31-MS_080824	MW-31_080824	MW-31-MSD_080824	MW-31-MS_080824	MW-31_080824	MW-31-MSD_080824	MW-31-MS_080824	MW-31_080824	TRIP BLANK_52	Client Sample ID
240-209276-F-2 MSI	240-209276-F-2 MS	240-209276-F-2	240-209276-E-2 MSD	240-209276-E-2 MS	240-209276-E-2	240-209276-D-2 MSD	240-209276-D-2 MS	240-209276-D-2	240-209276-C-2 MSD	240-209276-C-2 MS	240-209276-C-2	240-209276-B-2 MSD	240-209276-B-2 MS	240-209276-B-2	240-209276-A-2 MSD	240-209276-A-2 MS	240-209276-A-2	240-209276-A-1	<u>Lab ID</u>
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#### DATA VERIFICATION REPORT



August 20, 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: 209276-1 Sample date: 2024-08-08

Report received by CADENA: 2024-08-20

Initial Data Verification completed by CADENA: 2024-08-20

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

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

There were no significant QC anomalies or exceptions to report.

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

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

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 <a href="http://clms.cadenaco.com/index.cfm">http://clms.cadenaco.com/index.cfm</a>.

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: 209276-1

		TRIP BLA	ANK_52			MW-31_080824				
		Lab Sample ID:	240209	2761			240209			
		Sample Date:	8/8/202	4			8/8/202			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	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-826	OSW-8260DSIM									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	