

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/12/2025 7:08:26 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219628-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





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Job Notes

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

Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)966-9783

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Definitions/Glossary

Client: Arcadis US Inc. Project/Site: Ford LTP

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Qualifiers		— 3
GC/MS VOA		
Qualifier	Qualifier Description	4
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	-
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	5
U	Indicates the analyte was analyzed for but not detected.	
		6
Glossary		- 7
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
₩ %R	Listed under the "D" column to designate that the result is reported on a dry weight basis Percent Recovery	8
%R CFL	Contains Free Liquid	
CFL	Colony Forming Unit	9
CFU	Colony Forming Unit Contains No Free Liquid	9
DER		10
DER Dil Fac	Duplicate Error Ratio (normalized absolute difference)	10
DII Fac DL	Dilution Factor	
DL DL, RA, RE, IN	Detection Limit (DoD/DOE)	
DL, RA, RE, IN DLC	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	10
EDL	Decision Level Concentration (Radiochemistry) Estimated Detection Limit (Dioxin)	12
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	13
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	Monthale Even (Blokin)	
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	

Job ID: 240-219628-1

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Job Narrative 240-219628-1

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 2/28/2025 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 1.1°C and 1.6°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-647052 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Client: Arcadis US Inc. 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

Client: Arcadis US Inc. Project/Site: Ford LTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219628-1	TRIP BLANK_5	Water	02/26/25 00:00	02/28/25 08:00
240-219628-2	MW-213S_022625	Water	02/26/25 11:35	02/28/25 08:00

Detection Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_5

Lab Sample ID: 240-219628-1

Job ID: 240-219628-1

No Detections.

Client Sample ID: MW-213S_022625 Lab Sample ID: 240-219628-2 Analyte Result Qualifier RL MDL Unit Dil Fac D Method Prep Type cis-1,2-Dichloroethene 0.48 J 1.0 0.46 ug/L 1 D Method Prep Type

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_5

Date Collected: 02/26/25 00:00 Date Received: 02/28/25 08:00

Method: SW846 8260D - Volati	le 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			03/06/25 16:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/25 16:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 16:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 16:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 16:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/25 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		03/06/25 16:42	1
4-Bromofluorobenzene (Surr)	101		56 - 136					03/06/25 16:42	1
Toluene-d8 (Surr)	105		78 - 122					03/06/25 16:42	1
Dibromofluoromethane (Surr)	98		73 - 120					03/06/25 16:42	1

Job ID: 240-219628-1

Lab Sample ID: 240-219628-1

Matrix: Water

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Client Sample ID: MW-213S_022625

Date Collected: 02/26/25 11:35 Date Received: 02/28/25 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			03/10/25 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		68 - 127			-		03/10/25 14:59	1
Method: SW846 8260D - Volati	le 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			03/06/25 17:04	1
cis-1,2-Dichloroethene	0.48	J	1.0	0.46	ug/L			03/06/25 17:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 17:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 17:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 17:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/25 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137			-		03/06/25 17:04	1
4-Bromofluorobenzene (Surr)	96		56 - 136					03/06/25 17:04	1
Toluene-d8 (Surr)	104		78 - 122					03/06/25 17:04	1
Dibromofluoromethane (Surr)	99		73 - 120					03/06/25 17:04	1

3/12/2025

Lab Sample ID: 240-219628-2 Matrix: Water

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

Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM Client Sample ID (62-137) (56-136) (78-122) (73-120) Lab Sample ID 240-219544-B-4 MS Matrix Spike 103 96 97 105 240-219544-B-4 MSD Matrix Spike Duplicate 102 102 107 95 240-219628-1 TRIP BLANK_5 106 101 105 98 MW-213S_022625 99 240-219628-2 111 96 104 LCS 240-647052/4 Lab Control Sample 99 98 101 95 MB 240-647052/7 Method Blank 110 96 102 97 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

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(68-127)		1
240-219628-2	MW-213S_022625	107		
500-264504-A-12 MSD	Matrix Spike Duplicate	102		
500-264504-C-12 MS	Matrix Spike	106		
LCS 240-647508/4	Lab Control Sample	111		
MB 240-647508/6	Method Blank	107		

Surrogate Legend

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

Job ID: 240-219628-1

Prep Type: Total/NA

Prep Type: Total/NA

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

Matrix: Water Analysis Batch: 647052

	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/06/25 10:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/25 10:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 10:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 10:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 10:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/25 10:59	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		03/06/25 10:59	1
4-Bromofluorobenzene (Surr)	96		56 - 136		03/06/25 10:59	1
Toluene-d8 (Surr)	102		78 - 122		03/06/25 10:59	1
Dibromofluoromethane (Surr)	97		73 - 120		03/06/25 10:59	1

Lab Sample ID: LCS 240-647052/4 Matrix: Water Analysis Batch: 647052

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	24.5		ug/L		98	63 - 134	
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	77 - 123	
Tetrachloroethene	25.0	23.8		ug/L		95	76 - 123	
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	75 - 124	
Trichloroethene	25.0	22.6		ug/L		90	70 - 122	
Vinyl chloride	12.5	9.43		ug/L		75	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Lab Sample ID: 240-219544-B-4 MS Matrix: Water

Analysis Batch: 647052

	MS	MS		
Surrogate	%Recovery	Qualifier	Limits	
1,2-Dichloroethane-d4 (Surr)	103		62 - 137	
4-Bromofluorobenzene (Surr)	97		56 - 136	
Toluene-d8 (Surr)	105		78 - 122	
Dibromofluoromethane (Surr)	96		73 - 120	

Lab Sample ID: 240-219544-B-4 MSD

Matrix: Water Analysis Batch: 647052

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137

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Prep Type: Total/NA

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

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

ent: Arcadis US Inc.			C Sample F	(esui	15				Job ID: 24	0-219	1628-1
pject/Site: Ford LTP									00010.21	0 210	020 1
ethod: 8260D - Volatile	Organic Con	npounds b	y GC/MS (Cc	ontinu	ed)						
Lab Sample ID: 240-219544-E Matrix: Water Analysis Batch: 647052	B-4 MSD						Client S	ample IC	D: Matrix Spike Prep Typ		
	MSD	MSD									
Surrogate		Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		56 - 136								
Toluene-d8 (Surr)	107		78 - 122								
Dibromofluoromethane (Surr)	95		73 - 120								
lethod: 8260D SIM - Vola	atile Organic	Compoun	ds (GC/MS)								
Lab Sample ID: MB 240-6475	508/6							Client S	Sample ID: Me		
Matrix: Water									Prep Typ	e: Tot	tal/NA
Analysis Batch: 647508		MB MB									
Analyte		MB MB esult Qualifier	RL		MDL Unit		DF	Prepared	Analyzed		Dil Fac
1,4-Dioxane		2.0 U	2.0		0.86 ug/L			Teparea	03/10/25 13:2		1
		MB MB			-						
Surrogate		мв мв very Qualifier	Limits					Prepared	Analyzed	I	Dil Fac
1,2-Dichloroethane-d4 (Surr)		107 Quanter	68 - 127					1.00	03/10/25 13:		1
Lab Sample ID: LCS 240-647	508/4						Clien	it Sample	e ID: Lab Cont		
Matrix: Water Analysis Batch: 647508									Ргер Тур)e: 101	(al/NA
Alldiysis Daton. 047 000			Spike	LCS	LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	10.2		ug/L		102	75 - 121		
	LCS	/ CS									
Surrogate			Limits								
1,2-Dichloroethane-d4 (Surr)	111		68 - 127								
Lab Comple ID: E00 264504	4 40 MOD						Client C		- Motrix Cnik	- Dur	liento
Lab Sample ID: 500-264504-A Matrix: Water	A-12 M50						Chem 5	ample in	D: Matrix Spike Prep Typ		
Analysis Batch: 647508									אני אסון	Je. 101	alling
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	-	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	5500		500	5750	4	ug/L		46	20 - 180	3	20
	MSD	MSD									
Surrogate	%Recovery		Limits								
1,2-Dichloroethane-d4 (Surr)	102		68 - 127								
Lab Sample ID: 500-264504-0	C-12 MS							Client	Sample ID: M	Astrix	Snike
Matrix: Water	5-12 1415							Gione	Prep Typ		
Analysis Batch: 647508									1.146.146		
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	<u>D</u>	%Rec	Limits		
1,4-Dioxane	5500		500	5900	4	ug/L		76	20 - 180		
	MS	MS									
Surrogate	MS %Recovery		Limits								

GC/MS VOA

Analysis Batch: 647052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219628-1	TRIP BLANK_5	Total/NA	Water	8260D	
240-219628-2	MW-213S_022625	Total/NA	Water	8260D	
MB 240-647052/7	Method Blank	Total/NA	Water	8260D	
LCS 240-647052/4	Lab Control Sample	Total/NA	Water	8260D	
240-219544-B-4 MS	Matrix Spike	Total/NA	Water	8260D	
240-219544-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
nalysis Batch: 647508	8				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Sample ID 240-219628-2	Client Sample ID MW-213S_022625	Total/NA	Water	8260D SIM	Prep Batch
Lab Sample ID 240-219628-2 MB 240-647508/6	Client Sample ID MW-213S_022625 Method Blank	Total/NA Total/NA	Water Water	8260D SIM 8260D SIM	Prep Batch
Lab Sample ID 240-219628-2 MB 240-647508/6	Client Sample ID MW-213S_022625	Total/NA	Water	8260D SIM	Prep Batch
Lab Sample ID 240-219628-2 MB 240-647508/6 LCS 240-647508/4 500-264504-A-12 MSD	Client Sample ID MW-213S_022625 Method Blank	Total/NA Total/NA	Water Water	8260D SIM 8260D SIM	Prep Batch

Matrix: Water

Matrix: Water

Client Sample ID: TRIP BLANK_5 Lab Sample ID: 240-219628-1 Date Collected: 02/26/25 00:00 Date Received: 02/28/25 08:00 Dilution Batch Batch Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 647052 LEE EET CLE 03/06/25 16:42 Analysis 1 Client Sample ID: MW-213S_022625 Lab Sample ID: 240-219628-2 Date Collected: 02/26/25 11:35

Date Received: 02/28/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	647052	LEE	EET CLE	03/06/25 17:04
Total/NA	Analysis	8260D SIM		1	647508	R5XG	EET CLE	03/10/25 14:59

Laboratory References:

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

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Accreditation/Certification Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory: Eurofins Cleveland

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accreditations/certifications held by	y this laboratory are listed. Not all accreditations/cer	rtifications are applicable to this report		
Authority	Program	Identification Number	Expiration Date	
Connecticut	State	PH-0806	12-31-26	
Georgia	State	4062	02-27-26	
Illinois	NELAP	200004	08-31-25	
Iowa	State	421	06-01-25	
Kansas	NELAP	E-10336	01-31-26	
Kentucky (WW)	State	KY98016	12-31-25	
Minnesota	NELAP	039-999-348	12-31-25	
New Hampshire	NELAP	225024	09-30-25	
New Jersey	NELAP	OH001	07-03-25	
New York	NELAP	10975	04-01-25	
Ohio	State	8303	11-04-25	
Ohio VAP	State	ORELAP 4062	02-28-26	
Oregon	NELAP	4062	02-27-26	
Pennsylvania	NELAP	68-00340	08-31-25	
Texas	NELAP	T104704517-22-19	08-31-25	
USDA	US Federal Programs	P330-18-00281	01-05-27	
Virginia	NELAP	460175	09-14-25	
West Virginia DEP	State	210	12-31-25	
Wisconsin	State	399167560	08-31-25	





TestAmerica

TestAmerica Laboratory location: Farmington Hills --- 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

Chain of Custody Record

Client Contact ompany Name: Arcadis	Kegula	tory program			ſ D∖	N	∏ NE	DES		R	CRA	1	Othe	r										TestAmerica Laborator	
	Client Project	Manager: Meg	an M	eckley	Y		Site Co	ntact:	Sam	antha	Szpaich	er		L	ab Co	ntact:]	Mike D	Moni	co	_				COC No:	
ddress: 28550 Cabot Drive, Suite 500	Telephone: 24	8-994-2240		-			Teleph	one: 24	48-99	4-2240)			т	eleph	one: 33	0-497-9	396			-				
ity/State/Zip: Novi, M1, 48377	Email: kristof	fer.hinskey@aı	cadis	com			An	lysis	Turn	aroum	Time		1 1			_		Analy	ses		_	+	_	1 of 1 COCs For lab use only	
hone: 248-994-2240	7		cauis									1			T		T	Т	1			1		Walk-in client	
roject Name: Ford LTP	Sampler Nam May		tai	na	ni		TATife		(***	3 weel		-													
roject Number: 30206169.0401.03		Diff []		in	111		10 0	ау		2 weel 1 weel			6						≥					Lab sampling	
O ₩ US3460021848	Shipping/Trac		_				4			2 days 1 day		V/N	-de-			2600		60D	S OC					Job/SDG No:	
0 # 053460021848	Snipping/Trac	King No:										mple (Y / N)	C/G	go	8260	CE 8		le 82	8260					100/30/3140.	
					Sediment Solid		HX03	mtaine:		-	Other:	Filtered San	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample Specific Note Special Instructions	
Sample Identification	Sample Date	Sample Time	- ¹ 7	Yque	Sed Sol	ō	I II II	HCI	Ż	32:	5 8	H.	Ŭ	-	E:	Ě		<u> </u>	<u> -</u>	-		+			
TRIP BLANK_ 5				1				1				N	G	X	X []	x x	(X	X						1 Trip Blank	
MW-2135_022625	2/26/25	1135		6				6				N	Ģ	X	X	X	XV	$\langle \rangle$	()					3 VOAs for 8260D 3 VOAs for 8260D	
· · · · · · · · · · · · · · · · · · ·					-			+				+		-	-	+		+	+	J	ł	1			
														_			_			4		\mathbf{x}_{i}			
																						4	1		
			+							-	+	+						+	1	t	- 4	0-219	628	000	
			+		-							+		_			-	+	-	╞	24	0-210			
																					I	1			
	_		+		_		╂─┼─	+		-		+	+	-		+		+	+	+	+		+		
Possible Hazard Identification	unt 🔽 Pois	on B	⊡ Jnk	nown			Sam								are r					h) Ionths					
Possible Hazard Identification Possible Hazard 「lammable」「cin Irrit pecial Instructions/QC Requirements & Comments: つれく	ant	on B	□ Jnk	nown			Sam			I (A fe Client	ee may b	e asses Dispo			are r		l longer ive For								

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Page 17 of 20

Ient HACOHDIS Site Name ooler Received on AAKAS Opened on AAKAS edEx: 1 ^a Grd Exp UPS FAS Worpput Client Drop Off Eurofins Courier Ot Storage Location eccipt After-hours Drop-off Date/Time Storage Location wofins Cooler # 20 Foam Box Client Cooler Box Other Packing material used Bub Ce Dry Lee Water None Other Packing material used Bub Ce Dry Lee Water None Other COOLANT: Wff De Blue Lee Dry Lee Water None Other Cooler temperature upon receipt IR GUN # 15 (CF TO, O'C) Observed Cooler Temp °C Cooler Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes -Were the seals on the outside of the cooler(s) or bottle kits (LLHg/MeHg)? Yes Yes -Were tamper/custody seals untact and uncompromised? Yes Yes -Were the person(s) who collected the samples clearly identified on the COC? Yes Did custody papers relinquished & signed in the appropriate place? Yes Was/were the person(s) who collected the samples clearly identified on the COC?	Sample(s) were further preserved in the laboratory Time preserved. Preservative(s) added/Lot number(s) VOA Sample Preservation - Date/Tume VOAs Frozen.
The set of the set of the set of the second terms of the second set of the second se	ntacted PM Date by via Verbal V ncerning noerning via Verbal V CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
 o Could all portie laters (LUL) alef. I line) be reconciled with the COC.⁷ 9 For each sample, does the COC specify preservatives (NN), # of containers (NN), and sample type of grab/com((YN)? 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? 13 Were all preserved sample(s) at the correct pH upon receipt? 14 Were VOAs on the COC? 15 Were air bubbles >6 mm in any VOA vials? 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # (UL) D1C (Signo) 17 Was a LL Hg or Me Hg trip blank present? 	IN OF CUSTODY & SAMPLE DISCREPAN PLE CONDITION were re
Count an pottice labers (LPLPater Liner) by reconcilient with the COC r Yes No For each sample, does the COC specify preservativer (NN), # of containers (NN), and sample type of Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC? Yes No Were all preserved sample(s) at the correct pH upon receipt? Yes No Were aur bubbles >6 mm in any VOA vials? Larger than this Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # (OLDER) Yes No Was a LL Hg or Me Hg trip blank present? Date by via Verbal Voice Mail O ntacted PM Date Date via Verbal Voice Mail O	PLE PRESERVATION
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Coolant (Circle)	Corrected Temp °C	Observed Temp °C	IR Gun # (Circle)	Cooler Description (Circle)	Cooler D (Cii	
	Eurofins - Cleveland Sample Receipt Multiple Cooler Form	nd Sample Receipt N	Eurofins - Clevela			

HT-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

Login Container Summary Report

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Temperature readings.

2/28/2025

MW-213S_022625	MW-2138_022625	MW-213S_022625	MW-2138_022625	MW-213S_022625	MW-213S_022625	TRIP BLANK_5	Client Sample ID
240-219628-F-2	240-219628-E-2	240-219628-D-2	240-219628-C-2	240-219628-B-2	240-219628-A-2	240-219628-A-1	<u>Lab ID</u>
Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Container Type				
							Container Preservation Preservation pH Temp Added Lot Number

DATA VERIFICATION REPORT



March 12, 2025

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

CADENA project ID: E203728 Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil Project number: 30251157.401.04 (vapor 301.04) 30206169.0401.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 219628-1 Sample date: 2025-02-26 Report received by CADENA: 2025-03-12 Initial Data Verification completed by CADENA: 2025-03-12 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 recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

GCMS VOC QC batch CCV response outliers 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.

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

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

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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 219628-1

		Sample Name: Lab Sample ID: Sample Date:	—				MW-213S_022625 2402196282 2/26/2025 Report			Valid	
	Analyte	Cas No.	Result	-		Qualifier	Result	-	Units		
GC/MS VOC											
<u>OSW-826</u>	<u>0D</u>										
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		0.48	1.0	ug/l	J	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		
<u>OSW-826</u>	<u>ODSIM</u>										
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		