

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley
Arcadis US Inc.
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Novi, Michigan 48377

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-238715-1

Eurofins Cleveland

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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Definitions/Glossary

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

Job ID: 240-238715-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Arcadis US Inc.
Project: Ford LTP

Job ID: 240-238715-1

Job ID: 240-238715-1

Eurofins Cleveland

Job Narrative 240-238715-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/25/2025 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C.

GC/MS VOA

Method 8260D: No MS/MSD reported with tune due to surrogate failure

Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: MW-24_112125 (240-238715-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

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Method Summary

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

Job ID: 240-238715-1

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



Sample Summary

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

Job ID: 240-238715-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-238715-1	TRIP BLANK_82	Water	11/21/25 00:00	11/25/25 10:15	Michigan
240-238715-2	MW-222S_112125	Water	11/21/25 08:45	11/25/25 10:15	Michigan
240-238715-3	MW-24_112125	Water	11/21/25 10:20	11/25/25 10:15	Michigan

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-238715-1

Client Sample ID: TRIP BLANK_82

Lab Sample ID: 240-238715-1

No Detections.

Client Sample ID: MW-222S_112125

Lab Sample ID: 240-238715-2

No Detections.

Client Sample ID: MW-24_112125

Lab Sample ID: 240-238715-3

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 240-238715-1

Client Sample ID: TRIP BLANK_82

Lab Sample ID: 240-238715-1

Date Collected: 11/21/25 00:00

Matrix: Water

Date Received: 11/25/25 10:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			12/03/25 14:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 14:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 14:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 14:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 14:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		12/03/25 14:06	1
4-Bromofluorobenzene (Surr)	87		56 - 136		12/03/25 14:06	1
Toluene-d8 (Surr)	96		78 - 122		12/03/25 14:06	1
Dibromofluoromethane (Surr)	118		73 - 120		12/03/25 14:06	1

Client Sample Results

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

Job ID: 240-238715-1

Client Sample ID: MW-222S_112125

Lab Sample ID: 240-238715-2

Date Collected: 11/21/25 08:45

Matrix: Water

Date Received: 11/25/25 10:15

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			12/02/25 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 136					12/02/25 14:26	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			12/03/25 16:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 16:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 16:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 16:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 16:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137					12/03/25 16:52	1
4-Bromofluorobenzene (Surr)	89		56 - 136					12/03/25 16:52	1
Toluene-d8 (Surr)	97		78 - 122					12/03/25 16:52	1
Dibromofluoromethane (Surr)	120		73 - 120					12/03/25 16:52	1

Client Sample Results

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

Job ID: 240-238715-1

Client Sample ID: MW-24_112125

Lab Sample ID: 240-238715-3

Date Collected: 11/21/25 10:20

Matrix: Water

Date Received: 11/25/25 10:15

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			12/02/25 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 136					12/02/25 14:49	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			12/03/25 17:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 17:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 17:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 17:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 17:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137					12/03/25 17:15	1
4-Bromofluorobenzene (Surr)	88		56 - 136					12/03/25 17:15	1
Toluene-d8 (Surr)	97		78 - 122					12/03/25 17:15	1
Dibromofluoromethane (Surr)	121	S1+	73 - 120					12/03/25 17:15	1

Surrogate Summary

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

Job ID: 240-238715-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(62-137)	(56-136)	(78-122)	(73-120)
240-238715-1	TRIP BLANK_82	112	87	96	118
240-238715-2	MW-222S_112125	114	89	97	120
240-238715-3	MW-24_112125	118	88	97	121 S1+
LCS 240-682715/5	Lab Control Sample	93	100	100	98
MB 240-682715/9	Method Blank	112	86	93	116

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)

Lab Sample ID	Client Sample ID	DCA
		(64-136)
240-238715-2	MW-222S_112125	110
240-238715-2 MS	MW-222S_112125	109
240-238715-2 MSD	MW-222S_112125	102
240-238715-3	MW-24_112125	110
LCS 240-682566/5	Lab Control Sample	99
MB 240-682566/7	Method Blank	97

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-238715-1

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

Lab Sample ID: MB 240-682715/9

Matrix: Water

Analysis Batch: 682715

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			12/03/25 11:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 11:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 11:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 11:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 11:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 11:44	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		12/03/25 11:44	1
4-Bromofluorobenzene (Surr)	86		56 - 136		12/03/25 11:44	1
Toluene-d8 (Surr)	93		78 - 122		12/03/25 11:44	1
Dibromofluoromethane (Surr)	116		73 - 120		12/03/25 11:44	1

Lab Sample ID: LCS 240-682715/5

Matrix: Water

Analysis Batch: 682715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	77 - 123
Tetrachloroethene	25.0	25.9		ug/L		104	76 - 123
trans-1,2-Dichloroethene	25.0	26.1		ug/L		104	75 - 124
Trichloroethene	25.0	25.4		ug/L		101	70 - 122
Vinyl chloride	25.0	30.6		ug/L		122	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

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

Lab Sample ID: MB 240-682566/7

Matrix: Water

Analysis Batch: 682566

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			12/02/25 14:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		64 - 136		12/02/25 14:02	1

QC Sample Results

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

Job ID: 240-238715-1

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

Lab Sample ID: LCS 240-682566/5

Matrix: Water

Analysis Batch: 682566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	7.88		ug/L		79	68 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	99		64 - 136				

Lab Sample ID: 240-238715-2 MS

Matrix: Water

Analysis Batch: 682566

Client Sample ID: MW-222S_112125

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	8.76		ug/L		88	45 - 145
Surrogate	%Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	109		64 - 136						

Lab Sample ID: 240-238715-2 MSD

Matrix: Water

Analysis Batch: 682566

Client Sample ID: MW-222S_112125

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.05		ug/L		90	45 - 145	3	19
Surrogate	%Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	102		64 - 136								

QC Association Summary

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

Job ID: 240-238715-1

GC/MS VOA

Analysis Batch: 682566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238715-2	MW-222S_112125	Total/NA	Water	8260D SIM	
240-238715-3	MW-24_112125	Total/NA	Water	8260D SIM	
MB 240-682566/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-682566/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-238715-2 MS	MW-222S_112125	Total/NA	Water	8260D SIM	
240-238715-2 MSD	MW-222S_112125	Total/NA	Water	8260D SIM	

Analysis Batch: 682715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238715-1	TRIP BLANK_82	Total/NA	Water	8260D	
240-238715-2	MW-222S_112125	Total/NA	Water	8260D	
240-238715-3	MW-24_112125	Total/NA	Water	8260D	
MB 240-682715/9	Method Blank	Total/NA	Water	8260D	
LCS 240-682715/5	Lab Control Sample	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-238715-1

Client Sample ID: TRIP BLANK_82

Lab Sample ID: 240-238715-1

Date Collected: 11/21/25 00:00

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682715	MS	EET CLE	12/03/25 14:06

Client Sample ID: MW-222S_112125

Lab Sample ID: 240-238715-2

Date Collected: 11/21/25 08:45

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682715	MS	EET CLE	12/03/25 16:52
Total/NA	Analysis	8260D SIM		1	682566	R5XG	EET CLE	12/02/25 14:26

Client Sample ID: MW-24_112125

Lab Sample ID: 240-238715-3

Date Collected: 11/21/25 10:20

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682715	MS	EET CLE	12/03/25 17:15
Total/NA	Analysis	8260D SIM		1	682566	R5XG	EET CLE	12/02/25 14:49

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-238715-1

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
Connecticut	State	PH-0806	09-30-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	2250	09-30-26
New Jersey	NELAP	OH001	06-30-26
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	02-27-26
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-26
Texas	NELAP	T104704517	08-31-26
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-30-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26

Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____

Barberton Facility

Client Arcadis Site Name _____

Cooler Received on 11/25/25 Opened on 11/25/25 Cooler unpacked by: W Martin

Pedex 1st Grd ED UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. Bubble Wrap Foam Plastic Bag None Other _____

COOLANT W/Dice Blue Ice Dry Ice Water None

See Multiple Cooler Form

1 Cooler temperature upon receipt
IR GUN # 17 (CF 40.7 °C) Observed Cooler Temp. 28 °C Corrected Cooler Temp 3.5 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LHG/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA

3 Shippers' packing slip attached to the cooler(s)? Yes No NA

4 Did custody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
 Yes No NA

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA

12 Are these work share samples and all listed on the COC? Yes No NA

13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC567196

14 Were VOAs on the COC? Yes No NA

15 Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # N/A Yes No NA

17 Was a LL Hg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Labeled by: _____
 Labels Verified by: _____

19 SAMPLE CONDITION
 Sample(s) _____ 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 preserved. _____ Preservative(s) added/Lot number(s) _____
 VOA Sample Preservation - Date/Time VOAs Frozen _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC



11/25/2025

Login Container Summary Report

240-238715

12/4/2025

Temperature readings

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_82	240-238715-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-222S_112125	240-238715-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-222S_112125	240-238715-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-222S_112125	240-238715-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-222S_112125	240-238715-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-222S_112125	240-238715-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-222S_112125	240-238715-F-2	Voa Vial 40ml - Hydrochloric Acid				
MW-24_112125	240-238715-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-24_112125	240-238715-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-24_112125	240-238715-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-24_112125	240-238715-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-24_112125	240-238715-E-3	Voa Vial 40ml - Hydrochloric Acid				
MW-24_112125	240-238715-F-3	Voa Vial 40ml - Hydrochloric Acid				

DATA VERIFICATION REPORT



December 04, 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 LTP
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 238715-1
Sample date: 2025-11-21
Report received by CADENA: 2025-12-04
Initial Data Verification completed by CADENA: 2025-12-04
Number of Samples:3
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 sample -003 SURROGATE recoveries were outliers biased high for at least 1 surrogate. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

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 <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	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 contaminants) 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.
E	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 contaminants) 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: 238715-1

Sample Name: TRIP BLANK_82	MW-222S_112125	MW-24_112125
Lab Sample ID: 2402387151	2402387152	2402387153
Sample Date: 11/21/2025	11/21/2025	11/21/2025

Analyte	Cas No.	TRIP BLANK_82				MW-222S_112125				MW-24_112125			
		Report	Valid	Report	Valid	Report	Valid	Report	Valid				
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier

GC/MS VOC

OSW-8260D

1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	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	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	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	---	ND	1.0	ug/l	---

OSW-8260DSIM

1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---
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