

# ANALYTICAL REPORT

## PREPARED FOR

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Arcadis US Inc.  
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Suite 500  
Novi, Michigan 48377

Generated 12/2/2025 1:27:47 AM

## JOB DESCRIPTION

Ford LTP

## JOB NUMBER

240-238353-1

# 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: 240-238353-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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

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: 240-238353-1

**Job ID: 240-238353-1**

**Eurofins Cleveland**

## Job Narrative 240-238353-1

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 11/21/2025 8:00 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 0.4°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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# Method Summary

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

Job ID: 240-238353-1

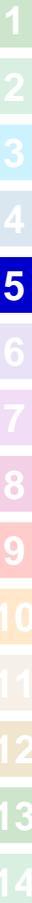
Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

**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: 240-238353-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-238353-1	TRIP BLANK_100	Water	11/19/25 00:00	11/21/25 08:00	Michigan
240-238353-2	MW-32_111925	Water	11/19/25 09:15	11/21/25 08:00	Michigan
240-238353-3	MW-69_111925	Water	11/19/25 10:15	11/21/25 08:00	Michigan
240-238353-4	MW-64_111925	Water	11/19/25 11:25	11/21/25 08:00	Michigan
240-238353-5	DUP-03	Water	11/19/25 00:00	11/21/25 08:00	Michigan
240-238353-6	MW-120_111925	Water	11/19/25 12:30	11/21/25 08:00	Michigan
240-238353-7	MW-198S_111925	Water	11/19/25 13:25	11/21/25 08:00	Michigan
240-238353-8	MW-198_111925	Water	11/19/25 14:15	11/21/25 08:00	Michigan

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

# Detection Summary

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

Job ID: 240-238353-1

## Client Sample ID: TRIP BLANK\_100

Lab Sample ID: 240-238353-1

No Detections.

## Client Sample ID: MW-32\_111925

Lab Sample ID: 240-238353-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.59	J	1.0	0.46	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-69\_111925

Lab Sample ID: 240-238353-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	13		2.0	0.86	ug/L	1		8260D SIM	Total/NA

## Client Sample ID: MW-64\_111925

Lab Sample ID: 240-238353-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.6		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	4.1		1.0	0.45	ug/L	1		8260D	Total/NA

## Client Sample ID: DUP-03

Lab Sample ID: 240-238353-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	3.8		1.0	0.45	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-120\_111925

Lab Sample ID: 240-238353-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.1		1.0	0.44	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-198S\_111925

Lab Sample ID: 240-238353-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.4		1.0	0.44	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-198\_111925

Lab Sample ID: 240-238353-8

No Detections.

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: 240-238353-1

**Client Sample ID: TRIP BLANK\_100**

**Lab Sample ID: 240-238353-1**

Date Collected: 11/19/25 00:00

Matrix: Water

Date Received: 11/21/25 08:00

**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			11/26/25 12:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/26/25 12:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 12:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/25 12:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 12:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/26/25 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		62 - 137		11/26/25 12:18	1
4-Bromofluorobenzene (Surr)	95		56 - 136		11/26/25 12:18	1
Toluene-d8 (Surr)	101		78 - 122		11/26/25 12:18	1
Dibromofluoromethane (Surr)	115		73 - 120		11/26/25 12:18	1

# Client Sample Results

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

Job ID: 240-238353-1

**Client Sample ID: MW-32\_111925**

**Lab Sample ID: 240-238353-2**

Date Collected: 11/19/25 09:15

Matrix: Water

Date Received: 11/21/25 08:00

**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			11/26/25 00:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 136					11/26/25 00:35	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			11/26/25 16:22	1
<b>cis-1,2-Dichloroethene</b>	<b>0.59</b>	<b>J</b>	1.0	0.46	ug/L			11/26/25 16:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 16:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/25 16:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 16:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/26/25 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		62 - 137					11/26/25 16:22	1
4-Bromofluorobenzene (Surr)	92		56 - 136					11/26/25 16:22	1
Toluene-d8 (Surr)	98		78 - 122					11/26/25 16:22	1
Dibromofluoromethane (Surr)	114		73 - 120					11/26/25 16:22	1

# Client Sample Results

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

Job ID: 240-238353-1

**Client Sample ID: MW-69\_111925**

**Lab Sample ID: 240-238353-3**

Date Collected: 11/19/25 10:15

Matrix: Water

Date Received: 11/21/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	13		2.0	0.86	ug/L			11/26/25 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 136					11/26/25 00:58	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			11/26/25 16:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/26/25 16:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 16:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/25 16:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 16:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/26/25 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		62 - 137					11/26/25 16:46	1
4-Bromofluorobenzene (Surr)	92		56 - 136					11/26/25 16:46	1
Toluene-d8 (Surr)	98		78 - 122					11/26/25 16:46	1
Dibromofluoromethane (Surr)	114		73 - 120					11/26/25 16:46	1

# Client Sample Results

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

Job ID: 240-238353-1

**Client Sample ID: MW-64\_111925**

**Lab Sample ID: 240-238353-4**

Date Collected: 11/19/25 11:25

Matrix: Water

Date Received: 11/21/25 08:00

**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			11/26/25 01:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/26/25 01:22	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			11/26/25 17:10	1
<b>cis-1,2-Dichloroethene</b>	<b>1.6</b>		1.0	0.46	ug/L			11/26/25 17:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 17:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/25 17:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 17:10	1
<b>Vinyl chloride</b>	<b>4.1</b>		1.0	0.45	ug/L			11/26/25 17:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	127		62 - 137					11/26/25 17:10	1
4-Bromofluorobenzene (Surr)	84		56 - 136					11/26/25 17:10	1
Toluene-d8 (Surr)	96		78 - 122					11/26/25 17:10	1
Dibromofluoromethane (Surr)	113		73 - 120					11/26/25 17:10	1

# Client Sample Results

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

Job ID: 240-238353-1

**Client Sample ID: DUP-03**

**Lab Sample ID: 240-238353-5**

Date Collected: 11/19/25 00:00

Matrix: Water

Date Received: 11/21/25 08:00

**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			11/26/25 01:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/26/25 01:45	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			11/26/25 17:34	1
<b>cis-1,2-Dichloroethene</b>	<b>1.4</b>		1.0	0.46	ug/L			11/26/25 17:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 17:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/25 17:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 17:34	1
<b>Vinyl chloride</b>	<b>3.8</b>		1.0	0.45	ug/L			11/26/25 17:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	130		62 - 137					11/26/25 17:34	1
4-Bromofluorobenzene (Surr)	105		56 - 136					11/26/25 17:34	1
Toluene-d8 (Surr)	108		78 - 122					11/26/25 17:34	1
Dibromofluoromethane (Surr)	114		73 - 120					11/26/25 17:34	1

# Client Sample Results

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

Job ID: 240-238353-1

**Client Sample ID: MW-120\_111925**

**Lab Sample ID: 240-238353-6**

Date Collected: 11/19/25 12:30

Matrix: Water

Date Received: 11/21/25 08:00

**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			11/26/25 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 136					11/26/25 02:08	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			11/26/25 17:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/26/25 17:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 17:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/25 17:59	1
<b>Trichloroethene</b>	<b>3.1</b>		1.0	0.44	ug/L			11/26/25 17:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/26/25 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	131		62 - 137					11/26/25 17:59	1
4-Bromofluorobenzene (Surr)	88		56 - 136					11/26/25 17:59	1
Toluene-d8 (Surr)	97		78 - 122					11/26/25 17:59	1
Dibromofluoromethane (Surr)	116		73 - 120					11/26/25 17:59	1

# Client Sample Results

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

Job ID: 240-238353-1

**Client Sample ID: MW-198S\_111925**

**Lab Sample ID: 240-238353-7**

Date Collected: 11/19/25 13:25

Matrix: Water

Date Received: 11/21/25 08:00

**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			11/26/25 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/26/25 02:32	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			11/26/25 18:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/26/25 18:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 18:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/25 18:23	1
<b>Trichloroethene</b>	<b>1.4</b>		1.0	0.44	ug/L			11/26/25 18:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/26/25 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		62 - 137					11/26/25 18:23	1
4-Bromofluorobenzene (Surr)	89		56 - 136					11/26/25 18:23	1
Toluene-d8 (Surr)	91		78 - 122					11/26/25 18:23	1
Dibromofluoromethane (Surr)	112		73 - 120					11/26/25 18:23	1

# Client Sample Results

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

Job ID: 240-238353-1

**Client Sample ID: MW-198\_111925**

**Lab Sample ID: 240-238353-8**

Date Collected: 11/19/25 14:15

Matrix: Water

Date Received: 11/21/25 08:00

**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			11/26/25 02:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	110		64 - 136					11/26/25 02:55	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			11/26/25 18:47	1
cis-1,2-Dichloroethene	1.0	U F2	1.0	0.46	ug/L			11/26/25 18:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 18:47	1
trans-1,2-Dichloroethene	1.0	U F2	1.0	0.51	ug/L			11/26/25 18:47	1
Trichloroethene	1.0	U F2	1.0	0.44	ug/L			11/26/25 18:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/26/25 18:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	129		62 - 137					11/26/25 18:47	1
4-Bromofluorobenzene (Surr)	89		56 - 136					11/26/25 18:47	1
Toluene-d8 (Surr)	101		78 - 122					11/26/25 18:47	1
Dibromofluoromethane (Surr)	116		73 - 120					11/26/25 18:47	1

# Surrogate Summary

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

Job ID: 240-238353-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-238353-1	TRIP BLANK_100	128	95	101	115
240-238353-2	MW-32_111925	130	92	98	114
240-238353-3	MW-69_111925	130	92	98	114
240-238353-4	MW-64_111925	127	84	96	113
240-238353-5	DUP-03	130	105	108	114
240-238353-6	MW-120_111925	131	88	97	116
240-238353-7	MW-198S_111925	124	89	91	112
240-238353-8	MW-198_111925	129	89	101	116
240-238353-8 MS	MW-198-MS_111925	109	108	97	98
240-238353-8 MSD	MW-198-MSD_111925	119	92	100	107
LCS 240-682196/5	Lab Control Sample	108	108	90	96
MB 240-682196/9	Method Blank	124	89	96	110

**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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (64-136)
240-238353-2	MW-32_111925	105
240-238353-3	MW-69_111925	112
240-238353-4	MW-64_111925	104
240-238353-5	DUP-03	104
240-238353-6	MW-120_111925	110
240-238353-7	MW-198S_111925	104
240-238353-8	MW-198_111925	110
240-238353-8 MS	MW-198-MS_111925	100
240-238353-8 MSD	MW-198-MSD_111925	105
LCS 240-682124/2	Lab Control Sample	104
MB 240-682124/4	Method Blank	108

**Surrogate Legend**

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

# QC Sample Results

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

Job ID: 240-238353-1

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

Lab Sample ID: MB 240-682196/9

Matrix: Water

Analysis Batch: 682196

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			11/26/25 11:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/26/25 11:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 11:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/26/25 11:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/26/25 11:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/26/25 11:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	124		62 - 137		11/26/25 11:06	1
4-Bromofluorobenzene (Surr)	89		56 - 136		11/26/25 11:06	1
Toluene-d8 (Surr)	96		78 - 122		11/26/25 11:06	1
Dibromofluoromethane (Surr)	110		73 - 120		11/26/25 11:06	1

Lab Sample ID: LCS 240-682196/5

Matrix: Water

Analysis Batch: 682196

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	25.0	18.9		ug/L		75	63 - 134
cis-1,2-Dichloroethene	25.0	22.7		ug/L		91	77 - 123
Tetrachloroethene	25.0	23.5		ug/L		94	76 - 123
trans-1,2-Dichloroethene	25.0	22.4		ug/L		90	75 - 124
Trichloroethene	25.0	21.8		ug/L		87	70 - 122
Vinyl chloride	25.0	22.1		ug/L		88	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	108		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	90		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-238353-8 MS

Matrix: Water

Analysis Batch: 682196

Client Sample ID: MW-198-MS\_111925

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	25.0	18.2		ug/L		73	56 - 135
cis-1,2-Dichloroethene	1.0	U F2	25.0	20.4		ug/L		82	66 - 128
Tetrachloroethene	1.0	U	25.0	18.6		ug/L		74	62 - 131
trans-1,2-Dichloroethene	1.0	U F2	25.0	19.1		ug/L		76	56 - 136
Trichloroethene	1.0	U F2	25.0	18.2		ug/L		73	61 - 124
Vinyl chloride	1.0	U	25.0	19.1		ug/L		76	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	97		78 - 122

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# QC Sample Results

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

Job ID: 240-238353-1

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

**Lab Sample ID: 240-238353-8 MS**  
**Matrix: Water**  
**Analysis Batch: 682196**

**Client Sample ID: MW-198-MS\_111925**  
**Prep Type: Total/NA**

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	98		73 - 120

**Lab Sample ID: 240-238353-8 MSD**  
**Matrix: Water**  
**Analysis Batch: 682196**

**Client Sample ID: MW-198-MSD\_111925**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
1,1-Dichloroethene	1.0	U	25.0	20.5		ug/L		82	56 - 135	12	26
cis-1,2-Dichloroethene	1.0	U F2	25.0	24.9	F2	ug/L		100	66 - 128	20	14
Tetrachloroethene	1.0	U	25.0	19.2		ug/L		77	62 - 131	3	20
trans-1,2-Dichloroethene	1.0	U F2	25.0	23.8	F2	ug/L		95	56 - 136	22	15
Trichloroethene	1.0	U F2	25.0	21.3	F2	ug/L		85	61 - 124	16	15
Vinyl chloride	1.0	U	25.0	23.3		ug/L		93	43 - 157	20	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	119		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	107		73 - 120

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

**Lab Sample ID: MB 240-682124/4**  
**Matrix: Water**  
**Analysis Batch: 682124**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/25/25 20:16	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	108		64 - 136		11/25/25 20:16	1

**Lab Sample ID: LCS 240-682124/2**  
**Matrix: Water**  
**Analysis Batch: 682124**

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

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,4-Dioxane	10.0	7.89		ug/L		79	68 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		64 - 136

**Lab Sample ID: 240-238353-8 MS**  
**Matrix: Water**  
**Analysis Batch: 682124**

**Client Sample ID: MW-198-MS\_111925**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
1,4-Dioxane	2.0	U	10.0	8.64		ug/L		86	45 - 145

Eurofins Cleveland

# QC Sample Results

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

Job ID: 240-238353-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	100		64 - 136

**Lab Sample ID: 240-238353-8 MSD**  
**Matrix: Water**  
**Analysis Batch: 682124**

**Client Sample ID: MW-198-MSD\_111925**  
**Prep Type: Total/NA**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,4-Dioxane	2.0	U	10.0	8.99		ug/L		90	45 - 145	4	19

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	105		64 - 136

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

# QC Association Summary

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

Job ID: 240-238353-1

## GC/MS VOA

### Analysis Batch: 682124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238353-2	MW-32_111925	Total/NA	Water	8260D SIM	
240-238353-3	MW-69_111925	Total/NA	Water	8260D SIM	
240-238353-4	MW-64_111925	Total/NA	Water	8260D SIM	
240-238353-5	DUP-03	Total/NA	Water	8260D SIM	
240-238353-6	MW-120_111925	Total/NA	Water	8260D SIM	
240-238353-7	MW-198S_111925	Total/NA	Water	8260D SIM	
240-238353-8	MW-198_111925	Total/NA	Water	8260D SIM	
MB 240-682124/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-682124/2	Lab Control Sample	Total/NA	Water	8260D SIM	
240-238353-8 MS	MW-198-MS_111925	Total/NA	Water	8260D SIM	
240-238353-8 MSD	MW-198-MSD_111925	Total/NA	Water	8260D SIM	

### Analysis Batch: 682196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238353-1	TRIP BLANK_100	Total/NA	Water	8260D	
240-238353-2	MW-32_111925	Total/NA	Water	8260D	
240-238353-3	MW-69_111925	Total/NA	Water	8260D	
240-238353-4	MW-64_111925	Total/NA	Water	8260D	
240-238353-5	DUP-03	Total/NA	Water	8260D	
240-238353-6	MW-120_111925	Total/NA	Water	8260D	
240-238353-7	MW-198S_111925	Total/NA	Water	8260D	
240-238353-8	MW-198_111925	Total/NA	Water	8260D	
MB 240-682196/9	Method Blank	Total/NA	Water	8260D	
LCS 240-682196/5	Lab Control Sample	Total/NA	Water	8260D	
240-238353-8 MS	MW-198-MS_111925	Total/NA	Water	8260D	
240-238353-8 MSD	MW-198-MSD_111925	Total/NA	Water	8260D	

# Lab Chronicle

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

Job ID: 240-238353-1

**Client Sample ID: TRIP BLANK\_100**

**Lab Sample ID: 240-238353-1**

Date Collected: 11/19/25 00:00

Matrix: Water

Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682196	R5XG	EET CLE	11/26/25 12:18

**Client Sample ID: MW-32\_111925**

**Lab Sample ID: 240-238353-2**

Date Collected: 11/19/25 09:15

Matrix: Water

Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682196	R5XG	EET CLE	11/26/25 16:22
Total/NA	Analysis	8260D SIM		1	682124	R5XG	EET CLE	11/26/25 00:35

**Client Sample ID: MW-69\_111925**

**Lab Sample ID: 240-238353-3**

Date Collected: 11/19/25 10:15

Matrix: Water

Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682196	R5XG	EET CLE	11/26/25 16:46
Total/NA	Analysis	8260D SIM		1	682124	R5XG	EET CLE	11/26/25 00:58

**Client Sample ID: MW-64\_111925**

**Lab Sample ID: 240-238353-4**

Date Collected: 11/19/25 11:25

Matrix: Water

Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682196	R5XG	EET CLE	11/26/25 17:10
Total/NA	Analysis	8260D SIM		1	682124	R5XG	EET CLE	11/26/25 01:22

**Client Sample ID: DUP-03**

**Lab Sample ID: 240-238353-5**

Date Collected: 11/19/25 00:00

Matrix: Water

Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682196	R5XG	EET CLE	11/26/25 17:34
Total/NA	Analysis	8260D SIM		1	682124	R5XG	EET CLE	11/26/25 01:45

**Client Sample ID: MW-120\_111925**

**Lab Sample ID: 240-238353-6**

Date Collected: 11/19/25 12:30

Matrix: Water

Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682196	R5XG	EET CLE	11/26/25 17:59
Total/NA	Analysis	8260D SIM		1	682124	R5XG	EET CLE	11/26/25 02:08

# Lab Chronicle

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

Job ID: 240-238353-1

**Client Sample ID: MW-198S\_111925**

**Lab Sample ID: 240-238353-7**

**Date Collected: 11/19/25 13:25**

**Matrix: Water**

**Date Received: 11/21/25 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682196	R5XG	EET CLE	11/26/25 18:23
Total/NA	Analysis	8260D SIM		1	682124	R5XG	EET CLE	11/26/25 02:32

**Client Sample ID: MW-198\_111925**

**Lab Sample ID: 240-238353-8**

**Date Collected: 11/19/25 14:15**

**Matrix: Water**

**Date Received: 11/21/25 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682196	R5XG	EET CLE	11/26/25 18:47
Total/NA	Analysis	8260D SIM		1	682124	R5XG	EET CLE	11/26/25 02:55

**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: 240-238353-1

## 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

# Chain of Custody Record

7/7

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 800, Farmington Hills 48331

Client Contact			Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other															TestAmerica Laboratories, Inc.										
Company Name: Arcadis			Client Project Manager: Megan Meckley					Site Contact: Samantha Szaichler					Lab Contact: Mike DelMonico					COC No:										
Address: 28550 Cabot Drive, Suite 500			Telephone: 248-994-2240					Telephone: 248-994-2240					Telephone: 330-497-9396					1 of 1 COCs										
City/State/Zip: Novi, MI, 48377			Email: megan.meckley@arcadis.com					Analysis Turnaround Time					Analyses					For Lab use only										
Phone: 248-994-2240			Sampler Name: <b>JOE FOJTIK</b>					TAT if different from below					<input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day					Walk-in client										
Project Name: Ford LTP			Method of Shipment/Carrier:					10 day										Lab sampling										
Project Number: 30251157.401.04			Shipping/Tracking No:					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					Job/SDG No:															
PO # 453410032803 ③ 11/20/25 US3460027714			Matrix										Containers & Preservatives					Sample Specific Notes / Special Instructions:										
Sample Identification			Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH	Uppres	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_ 100			---	---	1							1						NG	X	X	X	X	X	X		1 Trip Blank ✓		
mw-32 - 111925			11-19-25	915	6							6						NG	X	X	X	X	X	X		3 VOAs for 8260D ✓ 3 VOAs for 8260D SIM ✓		
mw-69 - 111925			11-19-25	1015	6							6						NG	X	X	X	X	X	X		✓		
mw-64 - 111925			11-19-25	1125	6							6						NG	X	X	X	X	X	X		✓		
DJP - 03			11-19-25	---	6							6						NG	X	X	X	X	X	X		✓		
MW-120 - 111925			11-19-25	1230	6							6						NG	X	X	X	X	X	X		✓		
MW-198s - 111925			11-19-25	1325	6							6						NG	X	X	X	X	X	X		✓		
MW-198m - 111925			11-19-25	1415	6							6						NG	X	X	X	X	X	X		✓		
MW-198-MS - 111925			11-19-25	1415	6							6						NG	X	X	X	X	X	X		Run MS/MSD ✓		
MW-198-MSd - 111925			11-19-25	1415	6							6						NG	X	X	X	X	X	X		Run MS/MSD ✓		
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown															Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Special Instructions/QC Requirements & Comments: <b>onsite</b> ③																												
Submit all results through Cadena at jtomalla@cadenco.com, Cadena #E203728 Level IV Reporting requested.																												
Relinquished by: <b>JOE FOJTIK</b>			Company: <b>Arcadis #</b>			Date/Time: <b>11-19-25 / 1540</b>			Received by: <b>Novi cold storage</b>			Company: <b>Arcadis</b>			Date/Time: <b>11-19-25 / 1540</b>													
Relinquished by: <b>Stacey</b>			Company: <b>ARCAOIS</b>			Date/Time: <b>11/20/25 1116</b>			Received by: <b>Jordan Pyles</b>			Company: <b>EETA</b>			Date/Time: <b>11/20/25 11:15</b>													
Relinquished by: <b>Stacey</b>			Company: <b>EETA</b>			Date/Time: <b>11/20/25 11:15</b>			Received in Laboratory by: <b>JORDANPYLES</b>			Company: <b>EURO</b>			Date/Time: <b>11/21/25 0800</b>													



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Eurofins - Cleveland Sample Receipt Form/Narrative Login # \_\_\_\_\_  
 Barberton Facility

Client Arcadis Site Name \_\_\_\_\_ Cooler unpacked by SPYLES  
 Cooler Received on 11/21/25 Opened on 11/22/25

FedEx: 1st Grd Exp 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 WetIces Blue Ice Dry Ice Water None  
 1 Cooler temperature upon receipt  See Multiple Cooler Form

IR GUN # 13 (CF + D. Le °C) Observed Cooler Temp -0.2 °C Corrected Cooler Temp 0.4 °C  
 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_ Yes No  
 -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 (LLHg/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  
 4 Did custody papers accompany the sample(s)? Yes No  
 5 Were the custody papers relinquished & signed in the appropriate place? Yes No  
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No  
 7 Did all bottles arrive in good condition (Unbroken)? Yes No  
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No  
 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  
 10 Were correct bottle(s) used for the test(s) indicated? Yes No  
 11 Sufficient quantity received to perform indicated analyses? Yes No  
 12 Are these work share samples and all listed on the COC? Yes No  
 If yes, Questions 13-17 have been checked at the originating laboratory  
 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  
 15 Were air bubbles >6 mm in any VOA vials?  Larger than this Yes No NA  
 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_ Yes No  
 17 Was a LL Hg or Me Hg trip blank present? Yes No

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

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: \_\_\_\_\_



Temperature readings: \_\_\_\_\_

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>Preservation</u>	<u>pH</u>	<u>Temp</u>	<u>Added</u>	<u>Preservation</u>	<u>Lot Number</u>
TRRP BEANK_100	240-238353-A-1	Voa Vial 40ml - Hydrochloric Acid							
MW-32_111925	240-238353-A-2	Voa Vial 40ml - Hydrochloric Acid							
MW-32_111925	240-238353-B-2	Voa Vial 40ml - Hydrochloric Acid							
MW-32_111925	240-238353-C-2	Voa Vial 40ml - Hydrochloric Acid							
MW-32_111925	240-238353-D-2	Voa Vial 40ml - Hydrochloric Acid							
MW-32_111925	240-238353-E-2	Voa Vial 40ml - Hydrochloric Acid							
MW-32_111925	240-238353-F-2	Voa Vial 40ml - Hydrochloric Acid							
MW-69_111925	240-238353-A-3	Voa Vial 40ml - Hydrochloric Acid							
MW-69_111925	240-238353-B-3	Voa Vial 40ml - Hydrochloric Acid							
MW-69_111925	240-238353-C-3	Voa Vial 40ml - Hydrochloric Acid							
MW-69_111925	240-238353-D-3	Voa Vial 40ml - Hydrochloric Acid							
MW-69_111925	240-238353-E-3	Voa Vial 40ml - Hydrochloric Acid							
MW-69_111925	240-238353-F-3	Voa Vial 40ml - Hydrochloric Acid							
MW-64_111925	240-238353-A-4	Voa Vial 40ml - Hydrochloric Acid							
MW-64_111925	240-238353-B-4	Voa Vial 40ml - Hydrochloric Acid							
MW-64_111925	240-238353-C-4	Voa Vial 40ml - Hydrochloric Acid							
MW-64_111925	240-238353-D-4	Voa Vial 40ml - Hydrochloric Acid							
MW-64_111925	240-238353-E-4	Voa Vial 40ml - Hydrochloric Acid							
MW-64_111925	240-238353-F-4	Voa Vial 40ml - Hydrochloric Acid							
DUP-03	240-238353-A-5	Voa Vial 40ml - Hydrochloric Acid							
DUP-03	240-238353-B-5	Voa Vial 40ml - Hydrochloric Acid							
DUP-03	240-238353-C-5	Voa Vial 40ml - Hydrochloric Acid							
DUP-03	240-238353-D-5	Voa Vial 40ml - Hydrochloric Acid							
DUP-03	240-238353-E-5	Voa Vial 40ml - Hydrochloric Acid							
DUP-03	240-238353-F-5	Voa Vial 40ml - Hydrochloric Acid							
MW-120_111925	240-238353-A-6	Voa Vial 40ml - Hydrochloric Acid							
MW-120_111925	240-238353-B-6	Voa Vial 40ml - Hydrochloric Acid							
MW-120_111925	240-238353-C-6	Voa Vial 40ml - Hydrochloric Acid							
MW-120_111925	240-238353-D-6	Voa Vial 40ml - Hydrochloric Acid							
MW-120_111925	240-238353-E-6	Voa Vial 40ml - Hydrochloric Acid							
MW-120_111925	240-238353-F-6	Voa Vial 40ml - Hydrochloric Acid							
MW-198S_111925	240-238353-A-7	Voa Vial 40ml - Hydrochloric Acid							
MW-198S_111925	240-238353-B-7	Voa Vial 40ml - Hydrochloric Acid							
MW-198S_111925	240-238353-C-7	Voa Vial 40ml - Hydrochloric Acid							
MW-198S_111925	240-238353-D-7	Voa Vial 40ml - Hydrochloric Acid							



<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>Preservation</u>	<u>Preservation</u>
			<u>pH</u>	<u>Temp</u>	<u>Lot Number</u>
MW-198S_111925	240-238353-E-7	Voa Vial 40ml - Hydrochloric Acid			
MW-198S_111925	240-238353-F-7	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-A-8	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-A-8 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-A-8 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-B-8	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-B-8 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-B-8 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-C-8	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-C-8 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-C-8 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-D-8	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-D-8 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-D-8 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-E-8	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-E-8 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-E-8 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-F-8	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-F-8 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-198_111925	240-238353-F-8 MSD	Voa Vial 40ml - Hydrochloric Acid			

# DATA VERIFICATION REPORT



December 02, 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: 238353-1  
Sample date: 2025-11-19  
Report received by CADENA: 2025-12-02  
Initial Data Verification completed by CADENA: 2025-12-02  
Number of Samples:8  
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 -008 MS/MSD RPD only were outliers for CIS-1,2-DICHLOROETHENE, TRANS-1,2-DICHLOROETHENE, TRICHLOROETHENE so client sample results were not qualified based on these QC outliers alone.

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.

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 <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: 238353-1

<b>Sample Name:</b> TRIP BLANK_100	MW-32_111925	MW-69_111925	MW-64_111925	DUP-03	MW-120_111925	MW-198S_111925	MW-198_111925
<b>Lab Sample ID:</b> 2402383531	2402383532	2402383533	2402383534	2402383535	2402383536	2402383537	2402383538
<b>Sample Date:</b> 11/19/2025	11/19/2025	11/19/2025	11/19/2025	11/19/2025	11/19/2025	11/19/2025	11/19/2025

Analyte	Cas No.	Report			Valid			Report			Valid			Report			Valid			Report			Valid			Report			Valid		
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier		
<b>GC/MS VOC</b>																															
<u>OSW-8260D</u>																															
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	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	---	0.59	1.0	ug/l	J	ND	1.0	ug/l	---	1.6	1.0	ug/l	---	1.4	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	---	ND	1.0	ug/l	---	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	---	ND	1.0	ug/l	---	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	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	3.1	1.0	ug/l	---	1.4	1.0	ug/l	---		
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	4.1	1.0	ug/l	---	3.8	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---		
<u>OSW-8260DSIM</u>																															
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	13	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---		