

ANALYTICAL REPORT

PREPARED FOR

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Generated 11/24/2025 8:15:01 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-237771-1

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: 240-237771-1

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.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery 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: 240-237771-1

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Job Narrative 240-237771-1

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 11/14/2025 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 2.6°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-681068 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.

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Method Summary

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

Job ID: 240-237771-1

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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- 14

Sample Summary

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

Job ID: 240-237771-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-237771-1	TRIP BLANK_138	Water	11/12/25 00:00	11/14/25 08:00	Michigan
240-237771-2	MW-200_111225	Water	11/12/25 09:15	11/14/25 08:00	Michigan
240-237771-3	MW-200S_111225	Water	11/12/25 10:10	11/14/25 08:00	Michigan
240-237771-4	MW-201_111225	Water	11/12/25 11:45	11/14/25 08:00	Michigan
240-237771-5	MW-201S_111225	Water	11/12/25 12:45	11/14/25 08:00	Michigan
240-237771-6	MW-70_111225	Water	11/12/25 13:55	11/14/25 08:00	Michigan
240-237771-7	MW-68_111225	Water	11/12/25 14:50	11/14/25 08:00	Michigan

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Detection Summary

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

Job ID: 240-237771-1

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-237771-1

No Detections.

Client Sample ID: MW-200_111225

Lab Sample ID: 240-237771-2

No Detections.

Client Sample ID: MW-200S_111225

Lab Sample ID: 240-237771-3

No Detections.

Client Sample ID: MW-201_111225

Lab Sample ID: 240-237771-4

No Detections.

Client Sample ID: MW-201S_111225

Lab Sample ID: 240-237771-5

No Detections.

Client Sample ID: MW-70_111225

Lab Sample ID: 240-237771-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	7.1		2.0	0.86	ug/L	1		8260D SIM	Total/NA
1,1-Dichloroethene	0.51	J	1.0	0.49	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	110		10	4.6	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	0.75	J	1.0	0.51	ug/L	1		8260D	Total/NA
Vinyl chloride	570		10	4.5	ug/L	10		8260D	Total/NA

Client Sample ID: MW-68_111225

Lab Sample ID: 240-237771-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	7.6		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	0.80	J	1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	0.71	J	1.0	0.45	ug/L	1		8260D	Total/NA

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: 240-237771-1

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-237771-1

Date Collected: 11/12/25 00:00

Matrix: Water

Date Received: 11/14/25 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			11/19/25 03:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 03:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 03:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 03:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 03:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 03:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137		11/19/25 03:31	1
4-Bromofluorobenzene (Surr)	95		56 - 136		11/19/25 03:31	1
Toluene-d8 (Surr)	90		78 - 122		11/19/25 03:31	1
Dibromofluoromethane (Surr)	90		73 - 120		11/19/25 03:31	1

Client Sample Results

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

Job ID: 240-237771-1

Client Sample ID: MW-200_111225

Lab Sample ID: 240-237771-2

Date Collected: 11/12/25 09:15

Matrix: Water

Date Received: 11/14/25 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			11/20/25 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 136					11/20/25 14:46	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			11/19/25 03:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 03:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 03:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 03:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 03:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		62 - 137					11/19/25 03:54	1
4-Bromofluorobenzene (Surr)	94		56 - 136					11/19/25 03:54	1
Toluene-d8 (Surr)	88		78 - 122					11/19/25 03:54	1
Dibromofluoromethane (Surr)	88		73 - 120					11/19/25 03:54	1

Client Sample Results

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

Job ID: 240-237771-1

Client Sample ID: MW-200S_111225

Lab Sample ID: 240-237771-3

Date Collected: 11/12/25 10:10

Matrix: Water

Date Received: 11/14/25 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			11/20/25 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 136					11/20/25 15:09	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			11/19/25 04:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 04:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 04:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 04:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 04:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 04:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		62 - 137					11/19/25 04:17	1
4-Bromofluorobenzene (Surr)	92		56 - 136					11/19/25 04:17	1
Toluene-d8 (Surr)	89		78 - 122					11/19/25 04:17	1
Dibromofluoromethane (Surr)	87		73 - 120					11/19/25 04:17	1

Client Sample Results

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

Job ID: 240-237771-1

Client Sample ID: MW-201_111225

Lab Sample ID: 240-237771-4

Date Collected: 11/12/25 11:45

Matrix: Water

Date Received: 11/14/25 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			11/20/25 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/20/25 15:33	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			11/19/25 04:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 04:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 04:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 04:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 04:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		62 - 137					11/19/25 04:40	1
4-Bromofluorobenzene (Surr)	96		56 - 136					11/19/25 04:40	1
Toluene-d8 (Surr)	91		78 - 122					11/19/25 04:40	1
Dibromofluoromethane (Surr)	90		73 - 120					11/19/25 04:40	1

Client Sample Results

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

Job ID: 240-237771-1

Client Sample ID: MW-201S_111225

Lab Sample ID: 240-237771-5

Date Collected: 11/12/25 12:45

Matrix: Water

Date Received: 11/14/25 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			11/20/25 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 136					11/20/25 15:56	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			11/19/25 05:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 05:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 05:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 05:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 05:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		62 - 137					11/19/25 05:03	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/19/25 05:03	1
Toluene-d8 (Surr)	88		78 - 122					11/19/25 05:03	1
Dibromofluoromethane (Surr)	87		73 - 120					11/19/25 05:03	1

Client Sample Results

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

Job ID: 240-237771-1

Client Sample ID: MW-70_111225

Lab Sample ID: 240-237771-6

Date Collected: 11/12/25 13:55

Matrix: Water

Date Received: 11/14/25 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	7.1		2.0	0.86	ug/L			11/20/25 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		64 - 136					11/20/25 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.51	J	1.0	0.49	ug/L			11/19/25 05:26	1
cis-1,2-Dichloroethene	110		10	4.6	ug/L			11/19/25 19:19	10
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 05:26	1
trans-1,2-Dichloroethene	0.75	J	1.0	0.51	ug/L			11/19/25 05:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 05:26	1
Vinyl chloride	570		10	4.5	ug/L			11/19/25 19:19	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					11/19/25 05:26	1
1,2-Dichloroethane-d4 (Surr)	92		62 - 137					11/19/25 19:19	10
4-Bromofluorobenzene (Surr)	94		56 - 136					11/19/25 05:26	1
4-Bromofluorobenzene (Surr)	97		56 - 136					11/19/25 19:19	10
Toluene-d8 (Surr)	89		78 - 122					11/19/25 05:26	1
Toluene-d8 (Surr)	92		78 - 122					11/19/25 19:19	10
Dibromofluoromethane (Surr)	90		73 - 120					11/19/25 05:26	1
Dibromofluoromethane (Surr)	86		73 - 120					11/19/25 19:19	10

Client Sample Results

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

Job ID: 240-237771-1

Client Sample ID: MW-68_111225

Lab Sample ID: 240-237771-7

Date Collected: 11/12/25 14:50

Matrix: Water

Date Received: 11/14/25 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	7.6		2.0	0.86	ug/L			11/20/25 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 136					11/20/25 16:43	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			11/19/25 05:49	1
cis-1,2-Dichloroethene	0.80	J	1.0	0.46	ug/L			11/19/25 05:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 05:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 05:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 05:49	1
Vinyl chloride	0.71	J	1.0	0.45	ug/L			11/19/25 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		62 - 137					11/19/25 05:49	1
1,2-Dichloroethane-d4 (Surr)	92		62 - 137					11/19/25 19:43	1
4-Bromofluorobenzene (Surr)	96		56 - 136					11/19/25 05:49	1
4-Bromofluorobenzene (Surr)	100		56 - 136					11/19/25 19:43	1
Toluene-d8 (Surr)	92		78 - 122					11/19/25 05:49	1
Toluene-d8 (Surr)	90		78 - 122					11/19/25 19:43	1
Dibromofluoromethane (Surr)	90		73 - 120					11/19/25 05:49	1
Dibromofluoromethane (Surr)	90		73 - 120					11/19/25 19:43	1

Surrogate Summary

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

Job ID: 240-237771-1

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)
240-237724-B-9 MS	Matrix Spike	86	99	90	89
240-237724-B-9 MSD	Matrix Spike Duplicate	87	101	90	88
240-237771-1	TRIP BLANK_138	92	95	90	90
240-237771-2	MW-200_111225	90	94	88	88
240-237771-3	MW-200S_111225	89	92	89	87
240-237771-4	MW-201_111225	90	96	91	90
240-237771-5	MW-201S_111225	89	95	88	87
240-237771-6	MW-70_111225	91	94	89	90
240-237771-6	MW-70_111225	92	97	92	86
240-237771-7	MW-68_111225	89	96	92	90
240-237771-7	MW-68_111225	92	100	90	90
240-237812-B-5 MS	Matrix Spike	85	99	94	89
240-237812-B-5 MSD	Matrix Spike Duplicate	86	102	90	84
LCS 240-681068/4	Lab Control Sample	85	103	94	90
LCS 240-681151/4	Lab Control Sample	83	98	92	87
MB 240-681068/8	Method Blank	86	97	91	88
MB 240-681151/8	Method Blank	90	93	89	86

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)
240-237771-2	MW-200_111225	111
240-237771-3	MW-200S_111225	112
240-237771-4	MW-201_111225	104
240-237771-5	MW-201S_111225	110
240-237771-6	MW-70_111225	113
240-237771-7	MW-68_111225	111
500-277921-B-4 MSD	Matrix Spike Duplicate	76
500-277921-C-4 MS	Matrix Spike	78
LCS 240-681418/5	Lab Control Sample	97
MB 240-681418/7	Method Blank	104

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-237771-1

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

Lab Sample ID: MB 240-681068/8

Matrix: Water

Analysis Batch: 681068

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			11/19/25 00:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 00:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 00:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 00:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 00:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 00:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	86		62 - 137		11/19/25 00:04	1
4-Bromofluorobenzene (Surr)	97		56 - 136		11/19/25 00:04	1
Toluene-d8 (Surr)	91		78 - 122		11/19/25 00:04	1
Dibromofluoromethane (Surr)	88		73 - 120		11/19/25 00:04	1

Lab Sample ID: LCS 240-681068/4

Matrix: Water

Analysis Batch: 681068

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	23.8		ug/L		95	77 - 123
Tetrachloroethene	25.0	22.4		ug/L		89	76 - 123
trans-1,2-Dichloroethene	25.0	22.3		ug/L		89	75 - 124
Trichloroethene	25.0	24.2		ug/L		97	70 - 122
Vinyl chloride	12.5	9.53		ug/L		76	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

Lab Sample ID: 240-237812-B-5 MS

Matrix: Water

Analysis Batch: 681068

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	250	U	6250	4690		ug/L		75	56 - 135
cis-1,2-Dichloroethene	250	U	6250	5690		ug/L		91	66 - 128
Tetrachloroethene	5500	F1	6250	8640	F1	ug/L		51	62 - 131
trans-1,2-Dichloroethene	250	U	6250	4650		ug/L		74	56 - 136
Trichloroethene	250	U	6250	5290		ug/L		85	61 - 124
Vinyl chloride	250	U	3130	2250		ug/L		72	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	94		78 - 122

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-237771-1

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

Lab Sample ID: 240-237812-B-5 MS
Matrix: Water
Analysis Batch: 681068

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	89		73 - 120

Lab Sample ID: 240-237812-B-5 MSD
Matrix: Water
Analysis Batch: 681068

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethene	250	U	6250	5170		ug/L		83	56 - 135	10	26
cis-1,2-Dichloroethene	250	U	6250	5520		ug/L		88	66 - 128	3	14
Tetrachloroethene	5500	F1	6250	8730	F1	ug/L		52	62 - 131	1	20
trans-1,2-Dichloroethene	250	U	6250	4810		ug/L		77	56 - 136	3	15
Trichloroethene	250	U	6250	5220		ug/L		84	61 - 124	1	15
Vinyl chloride	250	U	3130	2430		ug/L		78	43 - 157	7	24

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	86		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	90		78 - 122
Dibromofluoromethane (Surr)	84		73 - 120

Lab Sample ID: MB 240-681151/8
Matrix: Water
Analysis Batch: 681151

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			11/19/25 11:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 11:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 11:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 11:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 11:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 11:40	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	90		62 - 137		11/19/25 11:40	1
4-Bromofluorobenzene (Surr)	93		56 - 136		11/19/25 11:40	1
Toluene-d8 (Surr)	89		78 - 122		11/19/25 11:40	1
Dibromofluoromethane (Surr)	86		73 - 120		11/19/25 11:40	1

Lab Sample ID: LCS 240-681151/4
Matrix: Water
Analysis Batch: 681151

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
1,1-Dichloroethene	25.0	24.4		ug/L		98	63 - 134
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	77 - 123
Tetrachloroethene	25.0	23.6		ug/L		95	76 - 123
trans-1,2-Dichloroethene	25.0	22.9		ug/L		91	75 - 124
Trichloroethene	25.0	24.7		ug/L		99	70 - 122

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-237771-1

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

Lab Sample ID: LCS 240-681151/4

Matrix: Water

Analysis Batch: 681151

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	12.5	10.7		ug/L		86	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	87		73 - 120

Lab Sample ID: 240-237724-B-9 MS

Matrix: Water

Analysis Batch: 681151

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	5.0	U	125	109		ug/L		87	56 - 135
cis-1,2-Dichloroethene	4.7	J	125	132		ug/L		102	66 - 128
Tetrachloroethene	5.0	U	125	107		ug/L		86	62 - 131
trans-1,2-Dichloroethene	5.0	U	125	114		ug/L		91	56 - 136
Trichloroethene	5.0	U	125	121		ug/L		96	61 - 124
Vinyl chloride	28		62.5	75.9		ug/L		76	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	90		78 - 122
Dibromofluoromethane (Surr)	89		73 - 120

Lab Sample ID: 240-237724-B-9 MSD

Matrix: Water

Analysis Batch: 681151

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	5.0	U	125	120		ug/L		96	56 - 135	10	26
cis-1,2-Dichloroethene	4.7	J	125	133		ug/L		103	66 - 128	1	14
Tetrachloroethene	5.0	U	125	115		ug/L		92	62 - 131	7	20
trans-1,2-Dichloroethene	5.0	U	125	117		ug/L		94	56 - 136	3	15
Trichloroethene	5.0	U	125	128		ug/L		102	61 - 124	6	15
Vinyl chloride	28		62.5	78.9		ug/L		81	43 - 157	4	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	90		78 - 122
Dibromofluoromethane (Surr)	88		73 - 120

QC Sample Results

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

Job ID: 240-237771-1

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

Lab Sample ID: MB 240-681418/7

Matrix: Water

Analysis Batch: 681418

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			11/20/25 13:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/20/25 13:35	1

Lab Sample ID: LCS 240-681418/5

Matrix: Water

Analysis Batch: 681418

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	8.37		ug/L		84	68 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	97		64 - 136				

Lab Sample ID: 500-277921-B-4 MSD

Matrix: Water

Analysis Batch: 681418

Client Sample ID: Matrix Spike Duplicate

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	5400	E	10.0	5620	E 4	ug/L		2064	45 - 145	2	19
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	76		64 - 136								

Lab Sample ID: 500-277921-C-4 MS

Matrix: Water

Analysis Batch: 681418

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	5400	E	10.0	5490	E 4	ug/L		751	45 - 145
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	78		64 - 136						

QC Association Summary

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

Job ID: 240-237771-1

GC/MS VOA

Analysis Batch: 681068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237771-1	TRIP BLANK_138	Total/NA	Water	8260D	
240-237771-2	MW-200_111225	Total/NA	Water	8260D	
240-237771-3	MW-200S_111225	Total/NA	Water	8260D	
240-237771-4	MW-201_111225	Total/NA	Water	8260D	
240-237771-5	MW-201S_111225	Total/NA	Water	8260D	
240-237771-6	MW-70_111225	Total/NA	Water	8260D	
240-237771-7	MW-68_111225	Total/NA	Water	8260D	
MB 240-681068/8	Method Blank	Total/NA	Water	8260D	
LCS 240-681068/4	Lab Control Sample	Total/NA	Water	8260D	
240-237812-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-237812-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 681151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237771-6	MW-70_111225	Total/NA	Water	8260D	
240-237771-7	MW-68_111225	Total/NA	Water	8260D	
MB 240-681151/8	Method Blank	Total/NA	Water	8260D	
LCS 240-681151/4	Lab Control Sample	Total/NA	Water	8260D	
240-237724-B-9 MS	Matrix Spike	Total/NA	Water	8260D	
240-237724-B-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 681418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237771-2	MW-200_111225	Total/NA	Water	8260D SIM	
240-237771-3	MW-200S_111225	Total/NA	Water	8260D SIM	
240-237771-4	MW-201_111225	Total/NA	Water	8260D SIM	
240-237771-5	MW-201S_111225	Total/NA	Water	8260D SIM	
240-237771-6	MW-70_111225	Total/NA	Water	8260D SIM	
240-237771-7	MW-68_111225	Total/NA	Water	8260D SIM	
MB 240-681418/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-681418/5	Lab Control Sample	Total/NA	Water	8260D SIM	
500-277921-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
500-277921-C-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Lab Chronicle

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

Job ID: 240-237771-1

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-237771-1

Date Collected: 11/12/25 00:00

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681068	LEE	EET CLE	11/19/25 03:31

Client Sample ID: MW-200_111225

Lab Sample ID: 240-237771-2

Date Collected: 11/12/25 09:15

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681068	LEE	EET CLE	11/19/25 03:54
Total/NA	Analysis	8260D SIM		1	681418	R5XG	EET CLE	11/20/25 14:46

Client Sample ID: MW-200S_111225

Lab Sample ID: 240-237771-3

Date Collected: 11/12/25 10:10

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681068	LEE	EET CLE	11/19/25 04:17
Total/NA	Analysis	8260D SIM		1	681418	R5XG	EET CLE	11/20/25 15:09

Client Sample ID: MW-201_111225

Lab Sample ID: 240-237771-4

Date Collected: 11/12/25 11:45

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681068	LEE	EET CLE	11/19/25 04:40
Total/NA	Analysis	8260D SIM		1	681418	R5XG	EET CLE	11/20/25 15:33

Client Sample ID: MW-201S_111225

Lab Sample ID: 240-237771-5

Date Collected: 11/12/25 12:45

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681068	LEE	EET CLE	11/19/25 05:03
Total/NA	Analysis	8260D SIM		1	681418	R5XG	EET CLE	11/20/25 15:56

Client Sample ID: MW-70_111225

Lab Sample ID: 240-237771-6

Date Collected: 11/12/25 13:55

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681068	LEE	EET CLE	11/19/25 05:26
Total/NA	Analysis	8260D		10	681151	LEE	EET CLE	11/19/25 19:19
Total/NA	Analysis	8260D SIM		1	681418	R5XG	EET CLE	11/20/25 16:20

Lab Chronicle

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

Job ID: 240-237771-1

Client Sample ID: MW-68_111225

Lab Sample ID: 240-237771-7

Date Collected: 11/12/25 14:50

Matrix: Water

Date Received: 11/14/25 08:00

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Analysis	8260D		1	681068	LEE	EET CLE	11/19/25 05:49
Total/NA	Analysis	8260D		1	681151	LEE	EET CLE	11/19/25 19:43
Total/NA	Analysis	8260D SIM		1	681418	R5XG	EET CLE	11/20/25 16:43

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

Job ID: 240-237771-1

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



12/12

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, 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 Szpaichler				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: <i>Kent Kasper</i>				TAT if different from below								Walk-in client			
Project Name: Ford LTP		Method of Shipment/Carrier:				10 day								Lab sampling			
Project Number: 30251157.401.04		Shipping/Tracking No:				<input type="checkbox"/> 3 weeks								Job/SDG No:			
PO # <i>US3418032803</i> <i>346007714</i>						<input checked="" type="checkbox"/> 2 weeks											
						<input type="checkbox"/> 1 week											
						<input type="checkbox"/> 2 days											
						<input type="checkbox"/> 1 day											
Sample Identification	Sample Date	Sample Time	Matrix					Containers & Preservatives					Filtered Sample (Y/N)	Composite=C / Grab=G	Sample Specific Notes / Special Instructions:		
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc2				NaOH	Upperc
TRIP BLANK_ 138	---	---	1					1						NG	X X X X X X	1 Trip Blank	
MW-200-111225	11/12/25	0915	6					6						NG	X X X X X X	3 VOAs for 8260D 3 VOAs for 8260D SIM	
MW-200S-111225	11/12/25	1010	6					6						NG	X X X X X X		
MW-201-111225	11/12/25	1145	6					6						NG	X X X X X X		
MW-201S-111225	11/12/25	1245	6					6						NG	X X X X X X		
MW-70-111225	11/12/25	1355	6					6						NG	X X X X X X		
MW-68-111225	11/12/25	1450	6					6						NG	X X X X X X		
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										240-237771 COC					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Special Instructions/QC Requirements & Comments: <i>Onsite</i>																	
Submit all results through Cadena at jtomalla@cadenaco.com . Cadena #E203728																	
Level IV Reporting requested.																	
Relinquished by: <i>[Signature]</i>	Company: <i>Arcadis</i>	Date/Time: <i>11/12/25 1553</i>	Received by: <i>[Signature]</i>	Company: <i>Arcadis</i>	Date/Time: <i>11/12/25 1553</i>	Relinquished by: <i>[Signature]</i>	Company: <i>ARCADIS</i>	Date/Time: <i>11/13/25 1325</i>	Received by: <i>[Signature]</i>	Company: <i>EETA</i>	Date/Time: <i>11/13/25 1326</i>	Relinquished by: <i>[Signature]</i>	Company: <i>EETA</i>	Date/Time: <i>11/13/25 1327</i>	Received in Laboratory by: <i>[Signature]</i>	Company: <i>EC</i>	Date/Time: <i>11/14/25 0806</i>

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Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____
 Barberton Facility Cooler unpacked by: SLM

Client Atco/15 Site Name _____
 Cooler Received on 11/14/25 Opened on 11/14/25
 FedEx: 1st Gnd Exp UPS FAS Wayport 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 Water Ice Blue Ice Dry Ice Water None _____
 1 Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN # 13 (CF 4 O.L 0 °C) Observed Cooler Temp 2.0 °C Corrected Cooler Temp 2.6 °C

2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No NA
 -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 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

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

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# HCS67196
 14 Were VOAs on the COC? Yes No NA
 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 # Covered 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)
 Sample(s) _____

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

Client Sample ID	Lab ID	Container Type	Container	Preservation	Preservation
			pH	Temp	Added
					Lot Number
TRIP BLANK_138	240-237771-A-1	Voa Vial 40ml - Hydrochloric Acid			
MW-200_111225	240-237771-A-2	Voa Vial 40ml - Hydrochloric Acid			
MW-200_111225	240-237771-B-2	Voa Vial 40ml - Hydrochloric Acid			
MW-200_111225	240-237771-C-2	Voa Vial 40ml - Hydrochloric Acid			
MW-200_111225	240-237771-D-2	Voa Vial 40ml - Hydrochloric Acid			
MW-200_111225	240-237771-E-2	Voa Vial 40ml - Hydrochloric Acid			
MW-200_111225	240-237771-F-2	Voa Vial 40ml - Hydrochloric Acid			
MW-200S_111225	240-237771-A-3	Voa Vial 40ml - Hydrochloric Acid			
MW-200S_111225	240-237771-B-3	Voa Vial 40ml - Hydrochloric Acid			
MW-200S_111225	240-237771-C-3	Voa Vial 40ml - Hydrochloric Acid			
MW-200S_111225	240-237771-D-3	Voa Vial 40ml - Hydrochloric Acid			
MW-200S_111225	240-237771-E-3	Voa Vial 40ml - Hydrochloric Acid			
MW-200S_111225	240-237771-F-3	Voa Vial 40ml - Hydrochloric Acid			
MW-201_111225	240-237771-A-4	Voa Vial 40ml - Hydrochloric Acid			
MW-201_111225	240-237771-B-4	Voa Vial 40ml - Hydrochloric Acid			
MW-201_111225	240-237771-C-4	Voa Vial 40ml - Hydrochloric Acid			
MW-201_111225	240-237771-D-4	Voa Vial 40ml - Hydrochloric Acid			
MW-201_111225	240-237771-E-4	Voa Vial 40ml - Hydrochloric Acid			
MW-201_111225	240-237771-F-4	Voa Vial 40ml - Hydrochloric Acid			
MW-201S_111225	240-237771-A-5	Voa Vial 40ml - Hydrochloric Acid			
MW-201S_111225	240-237771-B-5	Voa Vial 40ml - Hydrochloric Acid			
MW-201S_111225	240-237771-C-5	Voa Vial 40ml - Hydrochloric Acid			
MW-201S_111225	240-237771-D-5	Voa Vial 40ml - Hydrochloric Acid			
MW-201S_111225	240-237771-E-5	Voa Vial 40ml - Hydrochloric Acid			
MW-201S_111225	240-237771-F-5	Voa Vial 40ml - Hydrochloric Acid			
MW-70_111225	240-237771-A-6	Voa Vial 40ml - Hydrochloric Acid			
MW-70_111225	240-237771-B-6	Voa Vial 40ml - Hydrochloric Acid			
MW-70_111225	240-237771-C-6	Voa Vial 40ml - Hydrochloric Acid			
MW-70_111225	240-237771-D-6	Voa Vial 40ml - Hydrochloric Acid			
MW-70_111225	240-237771-E-6	Voa Vial 40ml - Hydrochloric Acid			
MW-70_111225	240-237771-F-6	Voa Vial 40ml - Hydrochloric Acid			
MW-68_111225	240-237771-A-7	Voa Vial 40ml - Hydrochloric Acid			
MW-68_111225	240-237771-B-7	Voa Vial 40ml - Hydrochloric Acid			
MW-68_111225	240-237771-C-7	Voa Vial 40ml - Hydrochloric Acid			
MW-68_111225	240-237771-D-7	Voa Vial 40ml - Hydrochloric Acid			

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<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>pH</u>	<u>Temp</u>	<u>Preservation</u>	<u>Added</u>	<u>Preservation</u>	<u>Lot Number</u>
MW-68_111225	240-237771-E-7	Voa Vial 40ml	Hydrochloric Acid						
MW-68_111225	240-237771 F-7	Voa Vial 40ml - Hydrochloric Acid							

11/24/2025

DATA VERIFICATION REPORT



November 24, 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: 237771-1
Sample date: 2025-11-12
Report received by CADENA: 2025-11-24
Initial Data Verification completed by CADENA: 2025-11-24
Number of Samples:7
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/SIM 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 <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: 237771-1

Analyte	Cas No.	TRIP BLANK_138				MW-200_111225				MW-200S_111225				MW-201_111225				MW-201S_111225				MW-70_111225				MW-68_111225			
		Report		Valid		Report		Valid		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
GC/MS VOC																													
<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	---	0.51	1.0	ug/l	J	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	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	110	10	ug/l	---	0.80	1.0	ug/l	J
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	---	0.75	1.0	ug/l	J	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	---	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	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	570	10	ug/l	---	0.71	1.0	ug/l	J
<u>OSW-8260DSIM</u>																													
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	7.1	2.0	ug/l	---	7.6	2.0	ug/l	---