

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kristoffer Hinskey  
Arcadis U.S., Inc.  
28550 Cabot Drive  
Suite 500  
Novi, Michigan 48377

Generated 3/8/2024 7:23:10 AM

## JOB DESCRIPTION

Ford LTP - On Site

## JOB NUMBER

240-200153-1

# Eurofins Cleveland

## Job Notes

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

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

## Authorization



Generated  
3/8/2024 7:23:10 AM

Authorized for release by  
Michael DeMonico, Project Manager I  
[Michael.DeMonico@et.eurofinsus.com](mailto:Michael.DeMonico@et.eurofinsus.com)  
(330)497-9396



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Method Summary . . . . .	6
Sample Summary . . . . .	7
Detection Summary . . . . .	8
Client Sample Results . . . . .	9
Surrogate Summary . . . . .	13
QC Sample Results . . . . .	14
QC Association Summary . . . . .	18
Lab Chronicle . . . . .	19
Certification Summary . . . . .	20
Chain of Custody . . . . .	21

# Definitions/Glossary

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

Job ID: 240-200153-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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

# Case Narrative

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

Job ID: 240-200153-1

**Job ID: 240-200153-1**

**Eurofins Cleveland**

## Job Narrative 240-200153-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 2/28/2024 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.3°C, 2.6°C, 3.1°C and 4.2°C.

### GC/MS VOA

Method 8260D\_SIM: The following sample(s) was unable to be prepared and/or analyzed due to machine error : MS/MSD.

Method 8260D\_SIM: The surrogate for the MS (240-200139-F-5 MS) failed high. The MS/MSD was done for batch QC only and not client specific. No further analysis for the MS/MSD was done.

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

Eurofins Cleveland

# Method Summary

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

Job ID: 240-200153-1

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

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

# Sample Summary

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

Job ID: 240-200153-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200153-1	TRIP BLANK_66	Water	02/26/24 00:00	02/28/24 10:00
240-200153-2	MW-10_022624	Water	02/26/24 11:05	02/28/24 10:00
240-200153-3	MW-02_022624	Water	02/26/24 13:07	02/28/24 10:00
240-200153-4	MW-05_022624	Water	02/26/24 14:16	02/28/24 10:00

---

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

# Detection Summary

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

Job ID: 240-200153-1

## Client Sample ID: TRIP BLANK\_66

Lab Sample ID: 240-200153-1

No Detections.

## Client Sample ID: MW-10\_022624

Lab Sample ID: 240-200153-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.4		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	6100		500	230	ug/L	500		8260D	Total/NA

## Client Sample ID: MW-02\_022624

Lab Sample ID: 240-200153-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.5		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	5300	F1	100	46	ug/L	100		8260D	Total/NA
trans-1,2-Dichloroethene	840		100	51	ug/L	100		8260D	Total/NA
Vinyl chloride	300		100	45	ug/L	100		8260D	Total/NA

## Client Sample ID: MW-05\_022624

Lab Sample ID: 240-200153-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland



# Client Sample Results

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

Job ID: 240-200153-1

**Client Sample ID: TRIP BLANK\_66**

**Lab Sample ID: 240-200153-1**

Date Collected: 02/26/24 00:00

Matrix: Water

Date Received: 02/28/24 10:00

**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			03/04/24 15:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 15:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 15:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 15:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 15:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		03/04/24 15:33	1
4-Bromofluorobenzene (Surr)	87		56 - 136		03/04/24 15:33	1
Toluene-d8 (Surr)	91		78 - 122		03/04/24 15:33	1
Dibromofluoromethane (Surr)	112		73 - 120		03/04/24 15:33	1

# Client Sample Results

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

Job ID: 240-200153-1

**Client Sample ID: MW-10\_022624**

**Lab Sample ID: 240-200153-2**

Date Collected: 02/26/24 11:05

Matrix: Water

Date Received: 02/28/24 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.4		2.0	0.86	ug/L			03/01/24 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		68 - 127					03/01/24 23:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	25	ug/L			03/04/24 15:57	50
cis-1,2-Dichloroethene	50	U	50	23	ug/L			03/04/24 15:57	50
Tetrachloroethene	50	U	50	22	ug/L			03/04/24 15:57	50
trans-1,2-Dichloroethene	50	U	50	26	ug/L			03/04/24 15:57	50
Trichloroethene	50	U	50	22	ug/L			03/04/24 15:57	50
Vinyl chloride	6100		500	230	ug/L			03/05/24 11:20	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137					03/04/24 15:57	50
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					03/05/24 11:20	500
4-Bromofluorobenzene (Surr)	85		56 - 136					03/04/24 15:57	50
4-Bromofluorobenzene (Surr)	89		56 - 136					03/05/24 11:20	500
Toluene-d8 (Surr)	91		78 - 122					03/04/24 15:57	50
Toluene-d8 (Surr)	92		78 - 122					03/05/24 11:20	500
Dibromofluoromethane (Surr)	103		73 - 120					03/04/24 15:57	50
Dibromofluoromethane (Surr)	106		73 - 120					03/05/24 11:20	500

# Client Sample Results

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

Job ID: 240-200153-1

**Client Sample ID: MW-02\_022624**

**Lab Sample ID: 240-200153-3**

Date Collected: 02/26/24 13:07

Matrix: Water

Date Received: 02/28/24 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.5		2.0	0.86	ug/L			03/02/24 00:01	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)	125		68 - 127					03/02/24 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	100	U	100	49	ug/L			03/04/24 16:20	100
cis-1,2-Dichloroethene	5300	F1	100	46	ug/L			03/04/24 16:20	100
Tetrachloroethene	100	U	100	44	ug/L			03/04/24 16:20	100
trans-1,2-Dichloroethene	840		100	51	ug/L			03/04/24 16:20	100
Trichloroethene	100	U	100	44	ug/L			03/04/24 16:20	100
Vinyl chloride	300		100	45	ug/L			03/04/24 16:20	100
<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		62 - 137					03/04/24 16:20	100
4-Bromofluorobenzene (Surr)	89		56 - 136					03/04/24 16:20	100
Toluene-d8 (Surr)	92		78 - 122					03/04/24 16:20	100
Dibromofluoromethane (Surr)	109		73 - 120					03/04/24 16:20	100

# Client Sample Results

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

Job ID: 240-200153-1

**Client Sample ID: MW-05\_022624**

**Lab Sample ID: 240-200153-4**

Date Collected: 02/26/24 14:16

Matrix: Water

Date Received: 02/28/24 10:00

**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			03/01/24 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		68 - 127					03/01/24 16:33	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			03/04/24 16:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 16:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 16:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 16:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 16:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 16:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137					03/04/24 16:44	1
4-Bromofluorobenzene (Surr)	91		56 - 136					03/04/24 16:44	1
Toluene-d8 (Surr)	92		78 - 122					03/04/24 16:44	1
Dibromofluoromethane (Surr)	107		73 - 120					03/04/24 16:44	1

# Surrogate Summary

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

Job ID: 240-200153-1

## 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)
240-200153-1	TRIP BLANK_66	112	87	91	112
240-200153-2	MW-10_022624	111	85	91	103
240-200153-2	MW-10_022624	110	89	92	106
240-200153-2 MS	MW-10_022624	108	97	97	101
240-200153-2 MSD	MW-10_022624	103	98	93	99
240-200153-3	MW-02_022624	110	89	92	109
240-200153-3 MS	MW-02_022624	104	98	95	100
240-200153-3 MSD	MW-02_022624	104	95	95	98
240-200153-4	MW-05_022624	119	91	92	107
LCS 240-604807/4	Lab Control Sample	103	98	98	101
LCS 240-604963/4	Lab Control Sample	103	99	99	103
MB 240-604807/7	Method Blank	108	89	93	105
MB 240-604963/7	Method Blank	110	91	93	107

### 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 (68-127)
240-200139-F-5 MS	Matrix Spike	146 S1+
240-200139-F-5 MSD	Matrix Spike Duplicate	123
240-200153-2	MW-10_022624	123
240-200153-3	MW-02_022624	125
240-200153-4	MW-05_022624	113
LCS 240-604663/6	Lab Control Sample	116
LCS 240-604761/4	Lab Control Sample	102
MB 240-604663/5	Method Blank	103
MB 240-604761/6	Method Blank	104

### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-200153-1

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

Lab Sample ID: MB 240-604807/7

Matrix: Water

Analysis Batch: 604807

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			03/04/24 11:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 11:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 11:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 11:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 11:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 11:16	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		62 - 137		03/04/24 11:16	1
4-Bromofluorobenzene (Surr)	89		56 - 136		03/04/24 11:16	1
Toluene-d8 (Surr)	93		78 - 122		03/04/24 11:16	1
Dibromofluoromethane (Surr)	105		73 - 120		03/04/24 11:16	1

Lab Sample ID: LCS 240-604807/4

Matrix: Water

Analysis Batch: 604807

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	24.2		ug/L		97	63 - 134
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	77 - 123
Tetrachloroethene	25.0	25.2		ug/L		101	76 - 123
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	75 - 124
Trichloroethene	25.0	25.8		ug/L		103	70 - 122
Vinyl chloride	12.5	9.46		ug/L		76	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-200153-3 MS

Matrix: Water

Analysis Batch: 604807

Client Sample ID: MW-02\_022624

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	100	U	2500	2030		ug/L		81	56 - 135
cis-1,2-Dichloroethene	5300	F1	2500	7180	E	ug/L		74	66 - 128
Tetrachloroethene	100	U	2500	1940		ug/L		78	62 - 131
trans-1,2-Dichloroethene	840		2500	2990		ug/L		86	56 - 136
Trichloroethene	100	U	2500	2150		ug/L		86	61 - 124
Vinyl chloride	300		1250	1120		ug/L		66	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	95		78 - 122

Eurofins Cleveland

# QC Sample Results

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

Job ID: 240-200153-1

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

**Lab Sample ID: 240-200153-3 MS**  
**Matrix: Water**  
**Analysis Batch: 604807**

**Client Sample ID: MW-02\_022624**  
**Prep Type: Total/NA**

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

**Lab Sample ID: 240-200153-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 604807**

**Client Sample ID: MW-02\_022624**  
**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	100	U	2500	2250		ug/L		90	56 - 135	10	26
cis-1,2-Dichloroethene	5300	F1	2500	6900	E F1	ug/L		62	66 - 128	4	14
Tetrachloroethene	100	U	2500	2080		ug/L		83	62 - 131	7	20
trans-1,2-Dichloroethene	840		2500	3090		ug/L		90	56 - 136	3	15
Trichloroethene	100	U	2500	2280		ug/L		91	61 - 124	6	15
Vinyl chloride	300		1250	1140		ug/L		67	43 - 157	2	24

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

**Lab Sample ID: MB 240-604963/7**  
**Matrix: Water**  
**Analysis Batch: 604963**

**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			03/05/24 10:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/24 10:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 10:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/24 10:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 10:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/24 10:57	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		03/05/24 10:57	1
4-Bromofluorobenzene (Surr)	91		56 - 136		03/05/24 10:57	1
Toluene-d8 (Surr)	93		78 - 122		03/05/24 10:57	1
Dibromofluoromethane (Surr)	107		73 - 120		03/05/24 10:57	1

**Lab Sample ID: LCS 240-604963/4**  
**Matrix: Water**  
**Analysis Batch: 604963**

**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	27.5		ug/L		110	63 - 134
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	77 - 123
Tetrachloroethene	25.0	27.1		ug/L		108	76 - 123
trans-1,2-Dichloroethene	25.0	28.4		ug/L		114	75 - 124
Trichloroethene	25.0	26.8		ug/L		107	70 - 122

Eurofins Cleveland

# QC Sample Results

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

Job ID: 240-200153-1

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

**Lab Sample ID: LCS 240-604963/4**  
**Matrix: Water**  
**Analysis Batch: 604963**

**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	12.5		ug/L		100	60 - 144

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

**Lab Sample ID: 240-200153-2 MS**  
**Matrix: Water**  
**Analysis Batch: 604963**

**Client Sample ID: MW-10\_022624**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	6100		6250	10600		ug/L		71	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

**Lab Sample ID: 240-200153-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 604963**

**Client Sample ID: MW-10\_022624**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	6100		6250	11100		ug/L		79	43 - 157	5	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

**Lab Sample ID: MB 240-604663/5**  
**Matrix: Water**  
**Analysis Batch: 604663**

**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			03/01/24 10:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127		03/01/24 10:35	1

Eurofins Cleveland



# QC Sample Results

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

Job ID: 240-200153-1

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

Lab Sample ID: LCS 240-604663/6

Matrix: Water

Analysis Batch: 604663

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	9.20		ug/L		92	75 - 121
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
1,2-Dichloroethane-d4 (Surr)	116		68 - 127				

Lab Sample ID: 240-200139-F-5 MS

Matrix: Water

Analysis Batch: 604663

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	2.0	U	10.0	9.40		ug/L		94	20 - 180
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
1,2-Dichloroethane-d4 (Surr)	146	S1+	68 - 127						

Lab Sample ID: 240-200139-F-5 MSD

Matrix: Water

Analysis Batch: 604663

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
1,4-Dioxane	2.0	U	10.0	8.59		ug/L		86	20 - 180	9	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
1,2-Dichloroethane-d4 (Surr)	123		68 - 127								

Lab Sample ID: MB 240-604761/6

Matrix: Water

Analysis Batch: 604761

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			03/01/24 23:04	1	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>				
1,2-Dichloroethane-d4 (Surr)	104		68 - 127		03/01/24 23:04	1				

Lab Sample ID: LCS 240-604761/4

Matrix: Water

Analysis Batch: 604761

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	9.73		ug/L		97	75 - 121
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
1,2-Dichloroethane-d4 (Surr)	102		68 - 127				

# QC Association Summary

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

Job ID: 240-200153-1

## GC/MS VOA

### Analysis Batch: 604663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200153-4	MW-05_022624	Total/NA	Water	8260D SIM	
MB 240-604663/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-604663/6	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200139-F-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200139-F-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

### Analysis Batch: 604761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200153-2	MW-10_022624	Total/NA	Water	8260D SIM	
240-200153-3	MW-02_022624	Total/NA	Water	8260D SIM	
MB 240-604761/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-604761/4	Lab Control Sample	Total/NA	Water	8260D SIM	

### Analysis Batch: 604807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200153-1	TRIP BLANK_66	Total/NA	Water	8260D	
240-200153-2	MW-10_022624	Total/NA	Water	8260D	
240-200153-3	MW-02_022624	Total/NA	Water	8260D	
240-200153-4	MW-05_022624	Total/NA	Water	8260D	
MB 240-604807/7	Method Blank	Total/NA	Water	8260D	
LCS 240-604807/4	Lab Control Sample	Total/NA	Water	8260D	
240-200153-3 MS	MW-02_022624	Total/NA	Water	8260D	
240-200153-3 MSD	MW-02_022624	Total/NA	Water	8260D	

### Analysis Batch: 604963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200153-2	MW-10_022624	Total/NA	Water	8260D	
MB 240-604963/7	Method Blank	Total/NA	Water	8260D	
LCS 240-604963/4	Lab Control Sample	Total/NA	Water	8260D	
240-200153-2 MS	MW-10_022624	Total/NA	Water	8260D	
240-200153-2 MSD	MW-10_022624	Total/NA	Water	8260D	



# Lab Chronicle

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

Job ID: 240-200153-1

**Client Sample ID: TRIP BLANK\_66**

**Lab Sample ID: 240-200153-1**

Date Collected: 02/26/24 00:00

Matrix: Water

Date Received: 02/28/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	604807	LEE	EET CLE	03/04/24 15:33

**Client Sample ID: MW-10\_022624**

**Lab Sample ID: 240-200153-2**

Date Collected: 02/26/24 11:05

Matrix: Water

Date Received: 02/28/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	604807	LEE	EET CLE	03/04/24 15:57
Total/NA	Analysis	8260D		500	604963	LEE	EET CLE	03/05/24 11:20
Total/NA	Analysis	8260D SIM		1	604761	MDH	EET CLE	03/01/24 23:37

**Client Sample ID: MW-02\_022624**

**Lab Sample ID: 240-200153-3**

Date Collected: 02/26/24 13:07

Matrix: Water

Date Received: 02/28/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		100	604807	LEE	EET CLE	03/04/24 16:20
Total/NA	Analysis	8260D SIM		1	604761	MDH	EET CLE	03/02/24 00:01

**Client Sample ID: MW-05\_022624**

**Lab Sample ID: 240-200153-4**

Date Collected: 02/26/24 14:16

Matrix: Water

Date Received: 02/28/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	604807	LEE	EET CLE	03/04/24 16:44
Total/NA	Analysis	8260D SIM		1	604663	MDH	EET CLE	03/01/24 16:33

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 240-200153-1

## Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

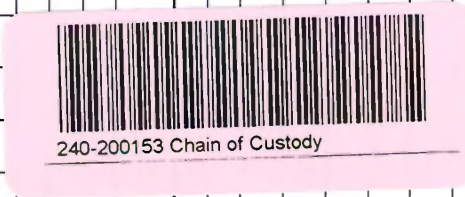
Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24 *
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	03-06-24
West Virginia DEP	State	210	12-31-24

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

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: Kris Hinsky			Site Contact: Christina Weaver			Lab Contact: Mike DeMonico			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: kristoffer.hinsky@arcadis.com			Analysis Turnaround Time			Analyses			For lab use only											
Phone: 248-994-2240		Sampler Name: Nolan Schendel			TAT if different from below						Walk-in client											
Project Name: Ford LTP On-Site		Method of Shipment/Carrier:			10 day <input checked="" type="checkbox"/>						Lab sampling											
Project Number: 30167538.401.03		Shipping/Tracking No:			<input type="checkbox"/> 3 weeks						Job/SDG No:											
PO # 30167538.401.03					<input 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	ZnAc				BuOH	Unpres	Other:				
✓ TRIP BLANK_66	---	---	X						1					NG	X	X	X	X	X	X		1 Trip Blank
✓ MW-10_022624	02/26/24	11:05	G						6					NG	X	X	X	X	X	X	X	3 VOAs for 8260D 3 VOAs for 8260D SIM
✓ MW-02_022624	02/26/24	13:07	G						6					NG	X	X	X	X	X	X	X	↓
✓ MW-05_022624	02/26/24	14:16	G						6					NG	X	X	X	X	X	X	X	
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
<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:																						
Submit all results through Cadena at <a href="mailto:jtomalia@cadenaco.com">jtomalia@cadenaco.com</a> . Cadena #E203728																						
Level IV Reporting requested.																						
Relinquished by: <i>[Signature]</i>	Company: Arcadis	Date/Time: 02/26/24 17:30	Received by: Non cold storage	Company: Arcadis	Date/Time: 02/26/24 17:30																	
Relinquished by: <i>[Signature]</i>	Company: Arcadis	Date/Time: 2/27/24 1030	Received by: <i>[Signature]</i>	Company: EEMA	Date/Time: 2/27/24																	
Relinquished by: <i>[Signature]</i>	Company: EEMA	Date/Time: 2/27/24	Received in Laboratory by:	Company:	Date/Time:																	



©2006 TestAmerica Laboratories, Inc. All rights reserved. TestAmerica & Design are trademarks of TestAmerica Laboratories, Inc.

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

Client ARCOIS Site Name \_\_\_\_\_ Cooler unpacked by: M. J. J. J.  
 Cooler Received on 2-28-21 Opened on 2-28-21

FedEx 1<sup>st</sup> Gnd Exp. UPS FAS Waypoint Client Drop Off Eurofins Courier Other \_\_\_\_\_  
 Receipt After-hour Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

Eurofins Cooler # 2 Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
 COOLANT Wet Ice Blue Ice Dry Ice Water None \_\_\_\_\_  
 1 Cooler temperature upon receipt  See Multiple Cooler Form

IR GUN # \_\_\_\_\_ (CF \_\_\_\_\_ °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 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 (NONE), # of containers (NONE), and sample type of grab/comp (NONE)? 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  
 If yes, Questions 13-17 have been checked at the originating laboratory

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

- 13 Were all preserved sample(s) at the correct pH upon receipt? Yes ~~No~~ NA pH Strip Lot# HC316719  
 14 Were VOAs on the COC? Yes ~~No~~ NA  
 15 Were air bubbles >6 mm in any VOA vials? Yes ~~No~~ NA Larger than this  
 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_ 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 Samples processed 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 \_\_\_\_\_



# DATA VERIFICATION REPORT



March 08, 2024

Kris Hinskey  
Arcadis of Michigan  
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: 30167538.401.03

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 200153-1

Sample date: 2024-02-26

Report received by CADENA: 2024-03-08

Initial Data Verification completed by CADENA: 2024-03-08

Number of Samples:4

Sample Matrices: Water and trip blank

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:

MS/MSD recovery outliers or sample duplicate RPD outliers were not determined using a client sample from this submittal for the test and QC batch noted so qualification was not required based on these sample-specific QC outliers: GCMS-SIM VOC QC batch 604663. NOTE: QC batch 604761 for GCMS-SIM VOC testing did not include an MS/MSD due to equipment error as noted in laboratory submittal case narrative.

MS or MSD recoveries but not both or RPD only were outliers for the following analytes so results for the client sample spiked were not qualified based on these QC outliers alone: GCMS VOC sample -03 - MSD recovery only biased low - cis-1,2-dichloroethylene.

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

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



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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

## CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

## Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200153-1

<b>Sample Name:</b>	TRIP BLANK_66	MW-10_022624	MW-02_022624	MW-05_022624
<b>Lab Sample ID:</b>	2402001531	2402001532	2402001533	2402001534
<b>Sample Date:</b>	2/26/2024	2/26/2024	2/26/2024	2/26/2024

Analyte	Cas No.	TRIP BLANK_66				MW-10_022624				MW-02_022624				MW-05_022624			
		Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier
<b>GC/MS VOC</b>																	
<u>OSW-8260D</u>																	
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	50	ug/l	---	ND	100	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	50	ug/l	---	5300	100	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	50	ug/l	---	ND	100	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	50	ug/l	---	840	100	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	50	ug/l	---	ND	100	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	6100	500	ug/l	---	300	100	ug/l	---	ND	1.0	ug/l	---
<u>OSW-8260DSIM</u>																	
1,4-Dioxane	123-91-1					4.4	2.0	ug/l	---	4.5	2.0	ug/l	---	ND	2.0	ug/l	---