

ANALYTICAL REPORT

PREPARED FOR

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Generated 8/12/2024 11:06:35 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208702-1

Eurofins Cleveland

Job Notes

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Authorization



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Definitions/Glossary

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

Job ID: 240-208702-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.
α	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

Job ID: 240-208702-1

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Job Narrative 240-208702-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 8/2/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.6°C, 1.1°C and 1.7°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 U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-208702-1

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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- 11
- 12
- 13
- 14

Sample Summary

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

Job ID: 240-208702-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208702-1	TRIP BLANK_117	Water	07/31/24 00:00	08/02/24 08:00
240-208702-2	MW-51_073124	Water	07/31/24 10:05	08/02/24 08:00
240-208702-3	PW-16-02_073124	Water	07/31/24 11:05	08/02/24 08:00
240-208702-4	MW-195S_073124	Water	07/31/24 12:50	08/02/24 08:00
240-208702-5	MW-44_073124	Water	07/31/24 14:05	08/02/24 08:00
240-208702-6	MW-22_073124	Water	07/31/24 14:55	08/02/24 08:00
240-208702-7	DUP-04	Water	07/31/24 00:00	08/02/24 08:00

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- 2
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- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-208702-1

Client Sample ID: TRIP BLANK_117

Lab Sample ID: 240-208702-1

No Detections.

Client Sample ID: MW-51_073124

Lab Sample ID: 240-208702-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.4	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA

Client Sample ID: PW-16-02_073124

Lab Sample ID: 240-208702-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.7		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-195S_073124

Lab Sample ID: 240-208702-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	100	J	170	77	ug/L	166.667		8260D	Total/NA
trans-1,2-Dichloroethene	180		170	85	ug/L	166.667		8260D	Total/NA
Trichloroethene	3200		170	73	ug/L	166.667		8260D	Total/NA

Client Sample ID: MW-44_073124

Lab Sample ID: 240-208702-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.2		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	48		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-22_073124

Lab Sample ID: 240-208702-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	52		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	1600		80	36	ug/L	80		8260D	Total/NA

Client Sample ID: DUP-04

Lab Sample ID: 240-208702-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	52		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	1500		80	36	ug/L	80		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 240-208702-1

Client Sample ID: TRIP BLANK_117

Lab Sample ID: 240-208702-1

Date Collected: 07/31/24 00:00

Matrix: Water

Date Received: 08/02/24 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			08/07/24 11:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/07/24 11:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/07/24 11:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/07/24 11:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/07/24 11:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/07/24 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		08/07/24 11:46	1
4-Bromofluorobenzene (Surr)	91		56 - 136		08/07/24 11:46	1
Toluene-d8 (Surr)	95		78 - 122		08/07/24 11:46	1
Dibromofluoromethane (Surr)	88		73 - 120		08/07/24 11:46	1

Client Sample Results

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

Job ID: 240-208702-1

Client Sample ID: MW-51_073124

Lab Sample ID: 240-208702-2

Date Collected: 07/31/24 10:05

Matrix: Water

Date Received: 08/02/24 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	1.4	J	2.0	0.86	ug/L			08/06/24 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127					08/06/24 16:05	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			08/07/24 15:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/07/24 15:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/07/24 15:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/07/24 15:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/07/24 15:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/07/24 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137					08/07/24 15:05	1
4-Bromofluorobenzene (Surr)	93		56 - 136					08/07/24 15:05	1
Toluene-d8 (Surr)	97		78 - 122					08/07/24 15:05	1
Dibromofluoromethane (Surr)	88		73 - 120					08/07/24 15:05	1

Client Sample Results

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

Job ID: 240-208702-1

Client Sample ID: PW-16-02_073124

Lab Sample ID: 240-208702-3

Date Collected: 07/31/24 11:05

Matrix: Water

Date Received: 08/02/24 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			08/06/24 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127					08/06/24 13:21	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			08/07/24 15:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/07/24 15:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/07/24 15:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/07/24 15:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/07/24 15:27	1
Vinyl chloride	2.7		1.0	0.45	ug/L			08/07/24 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137					08/07/24 15:27	1
4-Bromofluorobenzene (Surr)	92		56 - 136					08/07/24 15:27	1
Toluene-d8 (Surr)	96		78 - 122					08/07/24 15:27	1
Dibromofluoromethane (Surr)	87		73 - 120					08/07/24 15:27	1

Client Sample Results

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

Job ID: 240-208702-1

Client Sample ID: MW-195S_073124

Lab Sample ID: 240-208702-4

Date Collected: 07/31/24 12:50

Matrix: Water

Date Received: 08/02/24 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			08/06/24 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		68 - 127					08/06/24 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	170	U	170	82	ug/L			08/07/24 16:56	166.667
cis-1,2-Dichloroethene	100	J	170	77	ug/L			08/07/24 16:56	166.667
Tetrachloroethene	170	U	170	73	ug/L			08/07/24 16:56	166.667
trans-1,2-Dichloroethene	180		170	85	ug/L			08/07/24 16:56	166.667
Trichloroethene	3200		170	73	ug/L			08/07/24 16:56	166.667
Vinyl chloride	170	U	170	75	ug/L			08/07/24 16:56	166.667
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					08/07/24 16:56	166.667
4-Bromofluorobenzene (Surr)	90		56 - 136					08/07/24 16:56	166.667
Toluene-d8 (Surr)	96		78 - 122					08/07/24 16:56	166.667
Dibromofluoromethane (Surr)	89		73 - 120					08/07/24 16:56	166.667

Client Sample Results

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

Job ID: 240-208702-1

Client Sample ID: MW-44_073124

Lab Sample ID: 240-208702-5

Date Collected: 07/31/24 14:05

Matrix: Water

Date Received: 08/02/24 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	4.2		2.0	0.86	ug/L			08/06/24 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127					08/06/24 14:08	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			08/07/24 15:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/07/24 15:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/07/24 15:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/07/24 15:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/07/24 15:49	1
Vinyl chloride	48		1.0	0.45	ug/L			08/07/24 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137					08/07/24 15:49	1
4-Bromofluorobenzene (Surr)	91		56 - 136					08/07/24 15:49	1
Toluene-d8 (Surr)	96		78 - 122					08/07/24 15:49	1
Dibromofluoromethane (Surr)	87		73 - 120					08/07/24 15:49	1

Client Sample Results

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

Job ID: 240-208702-1

Client Sample ID: MW-22_073124

Lab Sample ID: 240-208702-6

Date Collected: 07/31/24 14:55

Matrix: Water

Date Received: 08/02/24 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	52		2.0	0.86	ug/L			08/06/24 14:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127					08/06/24 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	80	U	80	39	ug/L			08/07/24 16:12	80
cis-1,2-Dichloroethene	80	U	80	37	ug/L			08/07/24 16:12	80
Tetrachloroethene	80	U	80	35	ug/L			08/07/24 16:12	80
trans-1,2-Dichloroethene	80	U	80	41	ug/L			08/07/24 16:12	80
Trichloroethene	80	U	80	35	ug/L			08/07/24 16:12	80
Vinyl chloride	1600		80	36	ug/L			08/07/24 16:12	80
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					08/07/24 16:12	80
4-Bromofluorobenzene (Surr)	87		56 - 136					08/07/24 16:12	80
Toluene-d8 (Surr)	95		78 - 122					08/07/24 16:12	80
Dibromofluoromethane (Surr)	88		73 - 120					08/07/24 16:12	80

Client Sample Results

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

Job ID: 240-208702-1

Client Sample ID: DUP-04

Lab Sample ID: 240-208702-7

Date Collected: 07/31/24 00:00

Matrix: Water

Date Received: 08/02/24 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	52		2.0	0.86	ug/L			08/06/24 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127					08/06/24 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	80	U	80	39	ug/L			08/07/24 16:34	80
cis-1,2-Dichloroethene	80	U	80	37	ug/L			08/07/24 16:34	80
Tetrachloroethene	80	U	80	35	ug/L			08/07/24 16:34	80
trans-1,2-Dichloroethene	80	U	80	41	ug/L			08/07/24 16:34	80
Trichloroethene	80	U	80	35	ug/L			08/07/24 16:34	80
Vinyl chloride	1500		80	36	ug/L			08/07/24 16:34	80
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					08/07/24 16:34	80
4-Bromofluorobenzene (Surr)	88		56 - 136					08/07/24 16:34	80
Toluene-d8 (Surr)	95		78 - 122					08/07/24 16:34	80
Dibromofluoromethane (Surr)	88		73 - 120					08/07/24 16:34	80

Surrogate Summary

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

Job ID: 240-208702-1

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)
240-208702-1	TRIP BLANK_117	96	91	95	88
240-208702-2	MW-51_073124	98	93	97	88
240-208702-3	PW-16-02_073124	98	92	96	87
240-208702-3 MS	PW-16-02-MS_073124	93	99	98	92
240-208702-3 MSD	PW-16-02-MSD_073124	90	101	99	90
240-208702-4	MW-195S_073124	100	90	96	89
240-208702-5	MW-44_073124	98	91	96	87
240-208702-6	MW-22_073124	99	87	95	88
240-208702-7	DUP-04	99	88	95	88
LCS 240-622531/5	Lab Control Sample	96	99	101	95
MB 240-622531/9	Method Blank	98	97	101	90

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)
240-208702-2	MW-51_073124	106
240-208702-3	PW-16-02_073124	108
240-208702-3 MS	PW-16-02-MS_073124	106
240-208702-3 MSD	PW-16-02-MSD_073124	108
240-208702-4	MW-195S_073124	107
240-208702-5	MW-44_073124	110
240-208702-6	MW-22_073124	108
240-208702-7	DUP-04	110
LCS 240-622394/4	Lab Control Sample	107
MB 240-622394/6	Method Blank	105

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-208702-1

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

Lab Sample ID: MB 240-622531/9

Matrix: Water

Analysis Batch: 622531

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			08/07/24 09:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/07/24 09:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/07/24 09:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/07/24 09:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/07/24 09:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/07/24 09:56	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		62 - 137		08/07/24 09:56	1
4-Bromofluorobenzene (Surr)	97		56 - 136		08/07/24 09:56	1
Toluene-d8 (Surr)	101		78 - 122		08/07/24 09:56	1
Dibromofluoromethane (Surr)	90		73 - 120		08/07/24 09:56	1

Lab Sample ID: LCS 240-622531/5

Matrix: Water

Analysis Batch: 622531

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	24.0		ug/L		96	77 - 123
Tetrachloroethene	25.0	26.8		ug/L		107	76 - 123
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	75 - 124
Trichloroethene	25.0	26.0		ug/L		104	70 - 122
Vinyl chloride	12.5	12.0		ug/L		96	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Lab Sample ID: 240-208702-3 MS

Matrix: Water

Analysis Batch: 622531

Client Sample ID: PW-16-02-MS_073124

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	25.0	23.3		ug/L		93	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	24.3		ug/L		97	66 - 128
Tetrachloroethene	1.0	U	25.0	23.8		ug/L		95	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	23.7		ug/L		95	56 - 136
Trichloroethene	1.0	U	25.0	24.4		ug/L		98	61 - 124
Vinyl chloride	2.7		12.5	13.2		ug/L		83	43 - 157

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

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-208702-1

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

Lab Sample ID: 240-208702-3 MS
Matrix: Water
Analysis Batch: 622531

Client Sample ID: PW-16-02-MS_073124
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	92		73 - 120

Lab Sample ID: 240-208702-3 MSD
Matrix: Water
Analysis Batch: 622531

Client Sample ID: PW-16-02-MSD_073124
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	1.0	U	25.0	23.7		ug/L		95	56 - 135	2	26
cis-1,2-Dichloroethene	1.0	U	25.0	23.8		ug/L		95	66 - 128	2	14
Tetrachloroethene	1.0	U	25.0	24.2		ug/L		97	62 - 131	2	20
trans-1,2-Dichloroethene	1.0	U	25.0	23.6		ug/L		95	56 - 136	0	15
Trichloroethene	1.0	U	25.0	23.9		ug/L		96	61 - 124	2	15
Vinyl chloride	2.7		12.5	12.6		ug/L		79	43 - 157	4	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

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

Lab Sample ID: MB 240-622394/6
Matrix: Water
Analysis Batch: 622394

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			08/06/24 09:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127		08/06/24 09:50	1

Lab Sample ID: LCS 240-622394/4
Matrix: Water
Analysis Batch: 622394

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	9.03		ug/L		90	75 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		68 - 127

Lab Sample ID: 240-208702-3 MS
Matrix: Water
Analysis Batch: 622394

Client Sample ID: PW-16-02-MS_073124
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	9.66		ug/L		97	20 - 180

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-208702-1

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

	<i>MS</i>	<i>MS</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	106		68 - 127

Lab Sample ID: 240-208702-3 MSD
Matrix: Water
Analysis Batch: 622394

Client Sample ID: PW-16-02-MSD_073124
Prep Type: Total/NA

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MSD</i>	<i>MSD</i>				<i>%Rec</i>		<i>RPD</i>	
	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>	<i>RPD</i>	<i>Limit</i>	
1,4-Dioxane	2.0	U	10.0	10.0		ug/L		100	20 - 180	4	20	

	<i>MSD</i>	<i>MSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	108		68 - 127

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QC Association Summary

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

Job ID: 240-208702-1

GC/MS VOA

Analysis Batch: 622394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208702-2	MW-51_073124	Total/NA	Water	8260D SIM	
240-208702-3	PW-16-02_073124	Total/NA	Water	8260D SIM	
240-208702-4	MW-195S_073124	Total/NA	Water	8260D SIM	
240-208702-5	MW-44_073124	Total/NA	Water	8260D SIM	
240-208702-6	MW-22_073124	Total/NA	Water	8260D SIM	
240-208702-7	DUP-04	Total/NA	Water	8260D SIM	
MB 240-622394/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-622394/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-208702-3 MS	PW-16-02-MS_073124	Total/NA	Water	8260D SIM	
240-208702-3 MSD	PW-16-02-MSD_073124	Total/NA	Water	8260D SIM	

Analysis Batch: 622531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208702-1	TRIP BLANK_117	Total/NA	Water	8260D	
240-208702-2	MW-51_073124	Total/NA	Water	8260D	
240-208702-3	PW-16-02_073124	Total/NA	Water	8260D	
240-208702-4	MW-195S_073124	Total/NA	Water	8260D	
240-208702-5	MW-44_073124	Total/NA	Water	8260D	
240-208702-6	MW-22_073124	Total/NA	Water	8260D	
240-208702-7	DUP-04	Total/NA	Water	8260D	
MB 240-622531/9	Method Blank	Total/NA	Water	8260D	
LCS 240-622531/5	Lab Control Sample	Total/NA	Water	8260D	
240-208702-3 MS	PW-16-02-MS_073124	Total/NA	Water	8260D	
240-208702-3 MSD	PW-16-02-MSD_073124	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-208702-1

Client Sample ID: TRIP BLANK_117

Lab Sample ID: 240-208702-1

Date Collected: 07/31/24 00:00

Matrix: Water

Date Received: 08/02/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	622531	MDH	EET CLE	08/07/24 11:46

Client Sample ID: MW-51_073124

Lab Sample ID: 240-208702-2

Date Collected: 07/31/24 10:05

Matrix: Water

Date Received: 08/02/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	622531	MDH	EET CLE	08/07/24 15:05
Total/NA	Analysis	8260D SIM		1	622394	MS	EET CLE	08/06/24 16:05

Client Sample ID: PW-16-02_073124

Lab Sample ID: 240-208702-3

Date Collected: 07/31/24 11:05

Matrix: Water

Date Received: 08/02/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	622531	MDH	EET CLE	08/07/24 15:27
Total/NA	Analysis	8260D SIM		1	622394	MS	EET CLE	08/06/24 13:21

Client Sample ID: MW-195S_073124

Lab Sample ID: 240-208702-4

Date Collected: 07/31/24 12:50

Matrix: Water

Date Received: 08/02/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		166.667	622531	MDH	EET CLE	08/07/24 16:56
Total/NA	Analysis	8260D SIM		1	622394	MS	EET CLE	08/06/24 13:44

Client Sample ID: MW-44_073124

Lab Sample ID: 240-208702-5

Date Collected: 07/31/24 14:05

Matrix: Water

Date Received: 08/02/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	622531	MDH	EET CLE	08/07/24 15:49
Total/NA	Analysis	8260D SIM		1	622394	MS	EET CLE	08/06/24 14:08

Client Sample ID: MW-22_073124

Lab Sample ID: 240-208702-6

Date Collected: 07/31/24 14:55

Matrix: Water

Date Received: 08/02/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		80	622531	MDH	EET CLE	08/07/24 16:12
Total/NA	Analysis	8260D SIM		1	622394	MS	EET CLE	08/06/24 14:31

Lab Chronicle

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

Job ID: 240-208702-1

Client Sample ID: DUP-04

Lab Sample ID: 240-208702-7

Date Collected: 07/31/24 00:00

Matrix: Water

Date Received: 08/02/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		80	622531	MDH	EET CLE	08/07/24 16:34
Total/NA	Analysis	8260D SIM		1	622394	MS	EET CLE	08/06/24 14:55

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 U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-208702-1

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	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-28-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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 Hinskey					Site Contact: Christina Weaver					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: kristoffer.hinskey@arcadis.com					Analysis Turnaround Time					Analyses				For lab use only							
Phone: 248-994-2240		Sampler Name: <i>Garrett Link</i>					TAT if different from below: 10 day <input checked="" type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day					Filtered Sample (Y/N) Composite=C / Grab=G				Walk-in client							
Project Name: Ford LTP		Method of Shipment/Carrier:					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										Lab sampling						
Project Number: 30206169.0401.03		Shipping/Tracking No:										Sample Specific Notes / Special Instructions:				Job/SDG No:							
PO # US3410018772		Sample Identification		Sample Date Sample Time		Matrix					Containers & Preservatives												
						Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnO/NaOH	Unpres		Other:	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D
✓ TRIP BLANK_117		---		1					1					N	G	X	X	X	X	X	X	X	1 Trip Blank
✓ MW-51-073124		7/31/24 1005		6					6					N	G	X	X	X	X	X	X	X	3 VOAs for 8260D 3 VOAs for 8260D SIM
✓ PW-16-02-073124		7/31/24 1105		6					6					N	G	X	X	X	X	X	X	X	1
✓ PW-16-02-MS-073124		7/31/24 1105		6					6					N	G	X	X	X	X	X	X	X	Perform ms/msd
✓ PW-16-07-MSD-073124		7/31/24 1105		6					6					N	G	X	X	X	X	X	X	X	PW-16-02-MSD-073124
✓ MW-1955-073124		7/31/24 1250		6					6					N	G	X	X	X	X	X	X	X	
✓ MW-44-073124		7/31/24 1405		6					6					N	G	X	X	X	X	X	X	X	
✓ MW-22-073124		7/31/24 1455		6					6					N	G	X	X	X	X	X	X	X	
✓ DUP-04-073124 <i>56211</i>		7/31/24 —		6					6					N	G	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 jtomalia@cadenaco.com. Cadena #E203728
 Level IV Reporting requested.

Relinquished by: <i>[Signature]</i>	Company: ARCADIS	Date/Time: 7/31/24 1605	Received by: <i>[Signature]</i>	Company: ARCADIS	Date/Time: 7/31/24 1605
Relinquished by: <i>[Signature]</i>	Company: Arcadis	Date/Time: 8/1/24 1230	Received by: <i>[Signature]</i>	Company: EETA	Date/Time: 8/1/24 1230pm
Relinquished by: <i>[Signature]</i>	Company: EETA	Date/Time: 8/1/24 1330	Received in Laboratory by: KATHARINE MARTIN	Company: EUL	Date/Time: 8/2/24 800

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240-208702 Chain of Custody



Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____
Barberton facility

Client Accadis Site Name _____ Cooler unpacked by: YM

Cooler Received on 8/2/24 Opened on 8/2/24

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: Wet Ice Blue Ice Dry Ice Water None _____

1 Cooler temperature upon receipt See Multiple Cooler Form

IR GUN # 22 (CF -0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp _____ °C

2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 3 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/MHg)? 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# HC442471

14 Were VOAs on the COC? Yes No

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

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

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

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 _____

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

DATA VERIFICATION REPORT



August 12, 2024

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

CADENA project ID: E203728
Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil
Project number: 30206169.0401.04_WA-02
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 208702-1
Sample date: 2024-07-31
Report received by CADENA: 2024-08-12
Initial Data Verification completed by CADENA: 2024-08-12
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.

There were no significant QC anomalies or exceptions to report.

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: 208702-1

Analyte	Cas No.	TRIP BLANK_117				MW-51_073124				PW-16-02_073124				MW-195S_073124				MW-44_073124				MW-22_073124				DUP-04			
		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	170	ug/l	---	ND	1.0	ug/l	---	ND	80	ug/l	---	ND	80	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	100	170	ug/l	J	ND	1.0	ug/l	---	ND	80	ug/l	---	ND	80	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	170	ug/l	---	ND	1.0	ug/l	---	ND	80	ug/l	---	ND	80	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	180	170	ug/l	---	ND	1.0	ug/l	---	ND	80	ug/l	---	ND	80	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	3200	170	ug/l	---	ND	1.0	ug/l	---	ND	80	ug/l	---	ND	80	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	2.7	1.0	ug/l	---	ND	170	ug/l	---	48	1.0	ug/l	---	1600	80	ug/l	---	1500	80	ug/l	---
<u>OSW-8260DSIM</u>																													
1,4-Dioxane	123-91-1					1.4	2.0	ug/l	J	ND	2.0	ug/l	---	ND	2.0	ug/l	---	4.2	2.0	ug/l	---	52	2.0	ug/l	---	52	2.0	ug/l	---