

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey
ARCADIS US Inc
28550 Cabot Drive
Suite 500
Novi, Michigan 48377

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JOB DESCRIPTION

Ford LTP - On Site

JOB NUMBER

240-190168-1

Eurofins Cleveland

Job Notes

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Authorization



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



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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

Job ID: 240-190168-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-190168-1

Receipt

The samples were received on 8/15/2023 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 2 coolers at receipt time were 2.0°C and 2.2°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 240-584723 recovered above the upper control limit for 1,1-Dichloroethene. The samples associated with this CCV were below the reporting limit for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK_117 (240-190168-1), MW-197S_081423 (240-190168-2), MW-21_081423 (240-190168-3), MW-218S_081423 (240-190168-4), MW-44_081423 (240-190168-5), DUP-02 (240-190168-6), (CCV 240-584723/4), (CCVIS 240-584723/3), (LCS 240-584723/5), (LCS 240-584723/6), (MB 240-584723/8), (240-190188-C-2), (240-190188-F-2 MS) and (240-190188-I-2 MSD).

Method 8260D: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-21_081423 (240-190168-3). Elevated reporting limits (RLs) are provided.

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



Method Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-190168-1	TRIP BLANK_117	Water	08/14/23 00:00	08/15/23 10:00
240-190168-2	MW-197S_081423	Water	08/14/23 09:43	08/15/23 10:00
240-190168-3	MW-21_081423	Water	08/14/23 10:36	08/15/23 10:00
240-190168-4	MW-218S_081423	Water	08/14/23 11:57	08/15/23 10:00
240-190168-5	MW-44_081423	Water	08/14/23 12:52	08/15/23 10:00
240-190168-6	DUP-02	Water	08/14/23 00:00	08/15/23 10:00

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

Detection Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

Client Sample ID: TRIP BLANK_117

Lab Sample ID: 240-190168-1

No Detections.

Client Sample ID: MW-197S_081423

Lab Sample ID: 240-190168-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.93	J	1.7	0.82	ug/L	1.667		8260D	Total/NA
cis-1,2-Dichloroethene	24		1.7	0.77	ug/L	1.667		8260D	Total/NA
trans-1,2-Dichloroethene	1.5	J	1.7	0.85	ug/L	1.667		8260D	Total/NA
Trichloroethene	120		3.3	1.5	ug/L	3.333		8260D	Total/NA
Vinyl chloride	3.2		1.7	0.75	ug/L	1.667		8260D	Total/NA

Client Sample ID: MW-21_081423

Lab Sample ID: 240-190168-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.6		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	4.7		4.0	1.8	ug/L	4		8260D	Total/NA
Vinyl chloride	8.0		4.0	1.8	ug/L	4		8260D	Total/NA

Client Sample ID: MW-218S_081423

Lab Sample ID: 240-190168-4

No Detections.

Client Sample ID: MW-44_081423

Lab Sample ID: 240-190168-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.7		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	130		5.0	2.3	ug/L	5		8260D	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 240-190168-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.2		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	140		5.0	2.3	ug/L	5		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 - On Site

Job ID: 240-190168-1

Client Sample ID: TRIP BLANK_117

Lab Sample ID: 240-190168-1

Date Collected: 08/14/23 00:00

Matrix: Water

Date Received: 08/15/23 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			08/22/23 15:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 15:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 15:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 15:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 15:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		62 - 137		08/22/23 15:37	1
4-Bromofluorobenzene (Surr)	90		56 - 136		08/22/23 15:37	1
Toluene-d8 (Surr)	97		78 - 122		08/22/23 15:37	1
Dibromofluoromethane (Surr)	95		73 - 120		08/22/23 15:37	1

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

Client Sample ID: MW-197S_081423

Lab Sample ID: 240-190168-2

Date Collected: 08/14/23 09:43

Matrix: Water

Date Received: 08/15/23 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			08/22/23 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 120					08/22/23 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.93	J	1.7	0.82	ug/L			08/22/23 20:10	1.667
cis-1,2-Dichloroethene	24		1.7	0.77	ug/L			08/22/23 20:10	1.667
Tetrachloroethene	1.7	U	1.7	0.73	ug/L			08/22/23 20:10	1.667
trans-1,2-Dichloroethene	1.5	J	1.7	0.85	ug/L			08/22/23 20:10	1.667
Trichloroethene	120		3.3	1.5	ug/L			08/23/23 18:20	3.333
Vinyl chloride	3.2		1.7	0.75	ug/L			08/22/23 20:10	1.667
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					08/22/23 20:10	1.667
1,2-Dichloroethane-d4 (Surr)	95		62 - 137					08/23/23 18:20	3.333
4-Bromofluorobenzene (Surr)	87		56 - 136					08/22/23 20:10	1.667
4-Bromofluorobenzene (Surr)	91		56 - 136					08/23/23 18:20	3.333
Toluene-d8 (Surr)	95		78 - 122					08/22/23 20:10	1.667
Toluene-d8 (Surr)	99		78 - 122					08/23/23 18:20	3.333
Dibromofluoromethane (Surr)	96		73 - 120					08/22/23 20:10	1.667
Dibromofluoromethane (Surr)	95		73 - 120					08/23/23 18:20	3.333

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

Client Sample ID: MW-21_081423

Lab Sample ID: 240-190168-3

Date Collected: 08/14/23 10:36

Matrix: Water

Date Received: 08/15/23 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	5.6		2.0	0.86	ug/L			08/22/23 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 120					08/22/23 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	4.0	U	4.0	2.0	ug/L			08/22/23 18:56	4
cis-1,2-Dichloroethene	4.7		4.0	1.8	ug/L			08/22/23 18:56	4
Tetrachloroethene	4.0	U	4.0	1.8	ug/L			08/22/23 18:56	4
trans-1,2-Dichloroethene	4.0	U	4.0	2.0	ug/L			08/22/23 18:56	4
Trichloroethene	4.0	U	4.0	1.8	ug/L			08/22/23 18:56	4
Vinyl chloride	8.0		4.0	1.8	ug/L			08/22/23 18:56	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					08/22/23 18:56	4
4-Bromofluorobenzene (Surr)	94		56 - 136					08/22/23 18:56	4
Toluene-d8 (Surr)	104		78 - 122					08/22/23 18:56	4
Dibromofluoromethane (Surr)	103		73 - 120					08/22/23 18:56	4

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

Client Sample ID: MW-218S_081423

Lab Sample ID: 240-190168-4

Date Collected: 08/14/23 11:57

Matrix: Water

Date Received: 08/15/23 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			08/22/23 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 120					08/22/23 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/22/23 19:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 19:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 19:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 19:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 19:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137					08/22/23 19:21	1
4-Bromofluorobenzene (Surr)	86		56 - 136					08/22/23 19:21	1
Toluene-d8 (Surr)	96		78 - 122					08/22/23 19:21	1
Dibromofluoromethane (Surr)	95		73 - 120					08/22/23 19:21	1

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

Client Sample ID: MW-44_081423

Lab Sample ID: 240-190168-5

Date Collected: 08/14/23 12:52

Matrix: Water

Date Received: 08/15/23 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	5.7		2.0	0.86	ug/L			08/22/23 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		66 - 120					08/22/23 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	2.5	ug/L			08/22/23 20:35	5
cis-1,2-Dichloroethene	5.0	U	5.0	2.3	ug/L			08/22/23 20:35	5
Tetrachloroethene	5.0	U	5.0	2.2	ug/L			08/22/23 20:35	5
trans-1,2-Dichloroethene	5.0	U	5.0	2.6	ug/L			08/22/23 20:35	5
Trichloroethene	5.0	U	5.0	2.2	ug/L			08/22/23 20:35	5
Vinyl chloride	130		5.0	2.3	ug/L			08/22/23 20:35	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					08/22/23 20:35	5
4-Bromofluorobenzene (Surr)	90		56 - 136					08/22/23 20:35	5
Toluene-d8 (Surr)	100		78 - 122					08/22/23 20:35	5
Dibromofluoromethane (Surr)	96		73 - 120					08/22/23 20:35	5

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

Client Sample ID: DUP-02

Lab Sample ID: 240-190168-6

Date Collected: 08/14/23 00:00

Matrix: Water

Date Received: 08/15/23 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	5.2		2.0	0.86	ug/L			08/22/23 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 120					08/22/23 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	2.5	ug/L			08/22/23 20:59	5
cis-1,2-Dichloroethene	5.0	U	5.0	2.3	ug/L			08/22/23 20:59	5
Tetrachloroethene	5.0	U	5.0	2.2	ug/L			08/22/23 20:59	5
trans-1,2-Dichloroethene	5.0	U	5.0	2.6	ug/L			08/22/23 20:59	5
Trichloroethene	5.0	U	5.0	2.2	ug/L			08/22/23 20:59	5
Vinyl chloride	140		5.0	2.3	ug/L			08/22/23 20:59	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					08/22/23 20:59	5
4-Bromofluorobenzene (Surr)	92		56 - 136					08/22/23 20:59	5
Toluene-d8 (Surr)	101		78 - 122					08/22/23 20:59	5
Dibromofluoromethane (Surr)	100		73 - 120					08/22/23 20:59	5

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

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)
240-190168-1	TRIP BLANK_117	90	90	97	95
240-190168-2	MW-197S_081423	91	87	95	96
240-190168-2	MW-197S_081423	95	91	99	95
240-190168-3	MW-21_081423	99	94	104	103
240-190168-4	MW-218S_081423	92	86	96	95
240-190168-5	MW-44_081423	94	90	100	96
240-190168-6	DUP-02	96	92	101	100
240-190188-F-2 MS	Matrix Spike	108	111	114	116
240-190188-I-2 MSD	Matrix Spike Duplicate	89	90	96	97
240-190205-C-6 MS	Matrix Spike	91	93	96	98
240-190205-C-6 MSD	Matrix Spike Duplicate	99	102	104	106
LCS 240-584723/5	Lab Control Sample	88	93	98	99
LCS 240-584898/5	Lab Control Sample	93	95	99	102
MB 240-584723/8	Method Blank	93	90	99	98
MB 240-584898/8	Method Blank	91	89	95	97

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 (66-120)
240-190080-A-3 MS	Matrix Spike	103
240-190080-A-3 MSD	Matrix Spike Duplicate	106
240-190168-2	MW-197S_081423	102
240-190168-3	MW-21_081423	107
240-190168-4	MW-218S_081423	98
240-190168-5	MW-44_081423	95
240-190168-6	DUP-02	100
LCS 240-584695/5	Lab Control Sample	105
MB 240-584695/7	Method Blank	104

Surrogate Legend

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

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

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

Lab Sample ID: MB 240-584723/8

Matrix: Water

Analysis Batch: 584723

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			08/22/23 13:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 13:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 13:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 13:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 13:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 13:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		62 - 137		08/22/23 13:31	1
4-Bromofluorobenzene (Surr)	90		56 - 136		08/22/23 13:31	1
Toluene-d8 (Surr)	99		78 - 122		08/22/23 13:31	1
Dibromofluoromethane (Surr)	98		73 - 120		08/22/23 13:31	1

Lab Sample ID: LCS 240-584723/5

Matrix: Water

Analysis Batch: 584723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	77 - 123
Tetrachloroethene	25.0	24.6		ug/L		98	76 - 123
trans-1,2-Dichloroethene	25.0	26.4		ug/L		106	75 - 124
Trichloroethene	25.0	26.4		ug/L		106	70 - 122
Vinyl chloride	12.5	12.2		ug/L		98	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	93		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-190188-F-2 MS

Matrix: Water

Analysis Batch: 584723

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
1,1-Dichloroethene	0.82	J F1	25.0	35.2	F1	ug/L		138	56 - 135
cis-1,2-Dichloroethene	23		25.0	52.4		ug/L		118	66 - 128
Tetrachloroethene	1.0	U F2	25.0	27.3		ug/L		109	62 - 131
trans-1,2-Dichloroethene	0.76	J F2	25.0	29.0		ug/L		113	56 - 136
Trichloroethene	1.6	F2	25.0	31.0		ug/L		118	61 - 124
Vinyl chloride	20	F2	12.5	37.1		ug/L		134	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	108		62 - 137
4-Bromofluorobenzene (Surr)	111		56 - 136
Toluene-d8 (Surr)	114		78 - 122

Eurofins Cleveland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

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

Lab Sample ID: 240-190188-F-2 MS
Matrix: Water
Analysis Batch: 584723

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	116		73 - 120

Lab Sample ID: 240-190188-I-2 MSD
Matrix: Water
Analysis Batch: 584723

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	0.82	J F1	25.0	27.9		ug/L		109	56 - 135	23	26
cis-1,2-Dichloroethene	23		25.0	45.4		ug/L		90	66 - 128	14	14
Tetrachloroethene	1.0	U F2	25.0	22.2	F2	ug/L		89	62 - 131	21	20
trans-1,2-Dichloroethene	0.76	J F2	25.0	24.4	F2	ug/L		95	56 - 136	17	15
Trichloroethene	1.6	F2	25.0	25.8	F2	ug/L		97	61 - 124	19	15
Vinyl chloride	20	F2	12.5	28.3	F2	ug/L		64	43 - 157	27	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: MB 240-584898/8
Matrix: Water
Analysis Batch: 584898

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		08/23/23 14:12	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L		08/23/23 14:12	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		08/23/23 14:12	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		08/23/23 14:12	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L		08/23/23 14:12	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L		08/23/23 14:12	1	

	MB	MB	Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier			
1,2-Dichloroethane-d4 (Surr)	91		08/23/23 14:12	1	
4-Bromofluorobenzene (Surr)	89		08/23/23 14:12	1	
Toluene-d8 (Surr)	95		08/23/23 14:12	1	
Dibromofluoromethane (Surr)	97		08/23/23 14:12	1	

Lab Sample ID: LCS 240-584898/5
Matrix: Water
Analysis Batch: 584898

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	30.0		ug/L		120	63 - 134
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	77 - 123
Tetrachloroethene	25.0	25.3		ug/L		101	76 - 123
trans-1,2-Dichloroethene	25.0	27.5		ug/L		110	75 - 124
Trichloroethene	25.0	26.7		ug/L		107	70 - 122

Eurofins Cleveland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

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

Lab Sample ID: LCS 240-584898/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 584898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	12.5	10.0		ug/L		80	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: 240-190205-C-6 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 584898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	10	U	250	276		ug/L		110	56 - 135
cis-1,2-Dichloroethene	19		250	256		ug/L		95	66 - 128
Tetrachloroethene	350		250	571		ug/L		88	62 - 131
trans-1,2-Dichloroethene	10	U	250	252		ug/L		101	56 - 136
Trichloroethene	37		250	291		ug/L		102	61 - 124
Vinyl chloride	10	U	125	97.7		ug/L		78	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	93		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: 240-190205-C-6 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 584898

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	10	U	250	288		ug/L		115	56 - 135	4	26
cis-1,2-Dichloroethene	19		250	270		ug/L		100	66 - 128	5	14
Tetrachloroethene	350		250	581		ug/L		92	62 - 131	2	20
trans-1,2-Dichloroethene	10	U	250	266		ug/L		107	56 - 136	5	15
Trichloroethene	37		250	300		ug/L		105	61 - 124	3	15
Vinyl chloride	10	U	125	104		ug/L		83	43 - 157	6	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	106		73 - 120

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

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

Lab Sample ID: MB 240-584695/7
Matrix: Water
Analysis Batch: 584695

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			08/22/23 10:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 120					08/22/23 10:53	1

Lab Sample ID: LCS 240-584695/5
Matrix: Water
Analysis Batch: 584695

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	9.38		ug/L		94	80 - 122
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	105		66 - 120				

Lab Sample ID: 240-190080-A-3 MS
Matrix: Water
Analysis Batch: 584695

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	7.87		ug/L		79	51 - 153
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	103		66 - 120						

Lab Sample ID: 240-190080-A-3 MSD
Matrix: Water
Analysis Batch: 584695

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	8.17		ug/L		82	51 - 153	4	16
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	106		66 - 120								

QC Association Summary

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

GC/MS VOA

Analysis Batch: 584695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190168-2	MW-197S_081423	Total/NA	Water	8260D SIM	
240-190168-3	MW-21_081423	Total/NA	Water	8260D SIM	
240-190168-4	MW-218S_081423	Total/NA	Water	8260D SIM	
240-190168-5	MW-44_081423	Total/NA	Water	8260D SIM	
240-190168-6	DUP-02	Total/NA	Water	8260D SIM	
MB 240-584695/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-584695/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-190080-A-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-190080-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 584723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190168-1	TRIP BLANK_117	Total/NA	Water	8260D	
240-190168-2	MW-197S_081423	Total/NA	Water	8260D	
240-190168-3	MW-21_081423	Total/NA	Water	8260D	
240-190168-4	MW-218S_081423	Total/NA	Water	8260D	
240-190168-5	MW-44_081423	Total/NA	Water	8260D	
240-190168-6	DUP-02	Total/NA	Water	8260D	
MB 240-584723/8	Method Blank	Total/NA	Water	8260D	
LCS 240-584723/5	Lab Control Sample	Total/NA	Water	8260D	
240-190188-F-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-190188-I-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 584898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190168-2	MW-197S_081423	Total/NA	Water	8260D	
MB 240-584898/8	Method Blank	Total/NA	Water	8260D	
LCS 240-584898/5	Lab Control Sample	Total/NA	Water	8260D	
240-190205-C-6 MS	Matrix Spike	Total/NA	Water	8260D	
240-190205-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	



Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

Client Sample ID: TRIP BLANK_117

Lab Sample ID: 240-190168-1

Date Collected: 08/14/23 00:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584723	SAM	EET CLE	08/22/23 15:37

Client Sample ID: MW-197S_081423

Lab Sample ID: 240-190168-2

Date Collected: 08/14/23 09:43

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1.667	584723	SAM	EET CLE	08/22/23 20:10
Total/NA	Analysis	8260D		3.333	584898	SAM	EET CLE	08/23/23 18:20
Total/NA	Analysis	8260D SIM		1	584695	MRL	EET CLE	08/22/23 16:57

Client Sample ID: MW-21_081423

Lab Sample ID: 240-190168-3

Date Collected: 08/14/23 10:36

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		4	584723	SAM	EET CLE	08/22/23 18:56
Total/NA	Analysis	8260D SIM		1	584695	MRL	EET CLE	08/22/23 17:21

Client Sample ID: MW-218S_081423

Lab Sample ID: 240-190168-4

Date Collected: 08/14/23 11:57

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584723	SAM	EET CLE	08/22/23 19:21
Total/NA	Analysis	8260D SIM		1	584695	MRL	EET CLE	08/22/23 17:45

Client Sample ID: MW-44_081423

Lab Sample ID: 240-190168-5

Date Collected: 08/14/23 12:52

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	584723	SAM	EET CLE	08/22/23 20:35
Total/NA	Analysis	8260D SIM		1	584695	MRL	EET CLE	08/22/23 18:09

Client Sample ID: DUP-02

Lab Sample ID: 240-190168-6

Date Collected: 08/14/23 00:00

Matrix: Water

Date Received: 08/15/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	584723	SAM	EET CLE	08/22/23 20:59
Total/NA	Analysis	8260D SIM		1	584695	MRL	EET CLE	08/22/23 18:33

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-190168-1

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
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

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



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

Client Contact Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240		Regulatory program: DW NPDES RCRA Other	
Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Email: krisstoff.hinskey@arcadis.com		Site Contact: Christina Weaver Telephone: 248-994-2240	
Sample Name: Sommer Guy		Analysis Turnaround Time TAT if different from below: 10 day 3 weeks 1 week 2 weeks 2 days 1 day 1 day	
Method of Shipment/Carrier: Shipping/Tracking No:		Containers & Preservatives H2SO4 HNO3 HCl NaOH NaAc NaOH Other: 1 6 6 6 6 6 1	
Sample Identification TRIP BLANK_ 117 MW-197S-081423 MW-21-081423 MW-218S-081423 MW-44-081423 Dup-02		Matrix Air Aqueous Sediment Solid Other: 1 6 6 6 6 6	
Sample Date ---		Sample Time ---	
Sample Specific Notes / Special Instructions: 1 Trip Blank 3 VOAs for 8260D 3 VOAs for 8260D SIM		Analyses 1,1-DCE 8260D cis-1,2-DCE 8260D Trans-1,2-DCE 8260D PCE 8260D TCE 8260D Vinyl Chloride 8260D 1,4-Dioxane 8260D SIM	
Job/SDG No.:		Sample Specific Notes / Special Instructions:	
COC No.:		1 of 1 COCs	
For lab use only		Walk-in client Lab sampling	



Company	Date/Time	Received by	Received in Laboratory by
Arcadis	8/14/23 1345	Novi Cold Storage	MA
Arcadis	8/14/23 1538	MA	MA
FEA	8/14/23 1545	MA	MA

Special Instructions/QC Requirements & Comments:
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
 Level IV Reporting requested.
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month):
 Return to Client Disposal By Lab Archive For: _____ Months

DATA VERIFICATION REPORT



August 29, 2023

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- onsite groundwater

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 190168-1

Sample date: 2023-08-14

Report received by CADENA: 2023-08-29

Initial Data Verification completed by CADENA: 2023-08-29

Number of Samples:6

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 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: 190168-1

Analyte	Cas No.	Sample Name: TRIP BLANK_117				MW-197S_081423				MW-21_081423				MW-218S_081423				MW-44_081423				DUP-02			
		Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier
GC/MS VOC																									
<u>OSW-8260D</u>																									
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	0.93	1.7	ug/l	J	ND	4.0	ug/l	---	ND	1.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	24	1.7	ug/l	---	4.7	4.0	ug/l	---	ND	1.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.7	ug/l	---	ND	4.0	ug/l	---	ND	1.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	1.5	1.7	ug/l	J	ND	4.0	ug/l	---	ND	1.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	120	3.3	ug/l	---	ND	4.0	ug/l	---	ND	1.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	3.2	1.7	ug/l	---	8.0	4.0	ug/l	---	ND	1.0	ug/l	---	130	5.0	ug/l	---	140	5.0	ug/l	---
<u>OSW-8260DSIM</u>																									
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	5.6	2.0	ug/l	---	ND	2.0	ug/l	---	5.7	2.0	ug/l	---	5.2	2.0	ug/l	---