

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

240-190171-1

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Job Notes

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Authorization



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Authorized for release by
Ann Maddux, Project Management Assistant I
ann.maddux@et.eurofinsus.com
Designee for
Michael DeIMonico, Project Manager I
Michael.DeIMonico@et.eurofinsus.com
(330)497-9396



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Definitions/Glossary

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

Job ID: 240-190171-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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 US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-190171-1

Job ID: 240-190171-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-190171-1

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: No MS/MSD due to instrument malfunction. TRIP BLANK_69 (240-190171-1), MW-200_081123 (240-190171-2), MW-200S_081123 (240-190171-3), MW-201_081123 (240-190171-4) and MW-201S_081123 (240-190171-5)

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: 240-190171-1

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: 240-190171-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-190171-1	TRIP BLANK_69	Water	08/11/23 00:00	08/15/23 10:00
240-190171-2	MW-200_081123	Water	08/11/23 09:55	08/15/23 10:00
240-190171-3	MW-200S_081123	Water	08/11/23 10:50	08/15/23 10:00
240-190171-4	MW-201_081123	Water	08/11/23 12:10	08/15/23 10:00
240-190171-5	MW-201S_081123	Water	08/11/23 13:15	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: 240-190171-1

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-190171-1

No Detections.

Client Sample ID: MW-200_081123

Lab Sample ID: 240-190171-2

No Detections.

Client Sample ID: MW-200S_081123

Lab Sample ID: 240-190171-3

No Detections.

Client Sample ID: MW-201_081123

Lab Sample ID: 240-190171-4

No Detections.

Client Sample ID: MW-201S_081123

Lab Sample ID: 240-190171-5

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample Results

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

Job ID: 240-190171-1

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-190171-1

Date Collected: 08/11/23 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 16:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 16:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 16:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		08/22/23 16:52	1
4-Bromofluorobenzene (Surr)	86		56 - 136		08/22/23 16:52	1
Toluene-d8 (Surr)	99		78 - 122		08/22/23 16:52	1
Dibromofluoromethane (Surr)	100		73 - 120		08/22/23 16:52	1

Client Sample Results

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

Job ID: 240-190171-1

Client Sample ID: MW-200_081123

Lab Sample ID: 240-190171-2

Date Collected: 08/11/23 09:55

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 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 120					08/22/23 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/22/23 18:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 18:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 18:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 18:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 18:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					08/22/23 18:02	1
4-Bromofluorobenzene (Surr)	77		56 - 136					08/22/23 18:02	1
Toluene-d8 (Surr)	93		78 - 122					08/22/23 18:02	1
Dibromofluoromethane (Surr)	97		73 - 120					08/22/23 18:02	1

Client Sample Results

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

Job ID: 240-190171-1

Client Sample ID: MW-200S_081123

Lab Sample ID: 240-190171-3

Date Collected: 08/11/23 10:50

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 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 120		08/22/23 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/22/23 18:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 18:25	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 18:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 18:25	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 18:25	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		08/22/23 18:25	1
4-Bromofluorobenzene (Surr)	81		56 - 136		08/22/23 18:25	1
Toluene-d8 (Surr)	96		78 - 122		08/22/23 18:25	1
Dibromofluoromethane (Surr)	99		73 - 120		08/22/23 18:25	1

Client Sample Results

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

Job ID: 240-190171-1

Client Sample ID: MW-201_081123

Lab Sample ID: 240-190171-4

Date Collected: 08/11/23 12:10

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 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 120					08/22/23 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/22/23 18:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 18:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 18:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 18:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 18:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137					08/22/23 18:49	1
4-Bromofluorobenzene (Surr)	90		56 - 136					08/22/23 18:49	1
Toluene-d8 (Surr)	102		78 - 122					08/22/23 18:49	1
Dibromofluoromethane (Surr)	104		73 - 120					08/22/23 18:49	1

Client Sample Results

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

Job ID: 240-190171-1

Client Sample ID: MW-201S_081123

Lab Sample ID: 240-190171-5

Date Collected: 08/11/23 13:15

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			08/23/23 11:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 120					08/23/23 11:07	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 19:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 19:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 19:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 19:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 19:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137					08/22/23 19:12	1
1,2-Dichloroethane-d4 (Surr)	105		62 - 137					08/23/23 15:18	1
4-Bromofluorobenzene (Surr)	86		56 - 136					08/22/23 19:12	1
4-Bromofluorobenzene (Surr)	86		56 - 136					08/23/23 15:18	1
Toluene-d8 (Surr)	100		78 - 122					08/22/23 19:12	1
Toluene-d8 (Surr)	102		78 - 122					08/23/23 15:18	1
Dibromofluoromethane (Surr)	104		73 - 120					08/22/23 19:12	1
Dibromofluoromethane (Surr)	99		73 - 120					08/23/23 15:18	1

Surrogate Summary

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

Job ID: 240-190171-1

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)
240-190171-1	TRIP BLANK_69	104	86	99	100
240-190171-2	MW-200_081123	99	77	93	97
240-190171-3	MW-200S_081123	101	81	96	99
240-190171-4	MW-201_081123	108	90	102	104
240-190171-5	MW-201S_081123	105	86	100	104
240-190171-5	MW-201S_081123	105	86	102	99
240-190171-5 MS	MW-201S-MS_081123	97	78	90	96
240-190171-5 MSD	MW-201S-MSD_081123	102	90	101	100
LCS 240-584662/5	Lab Control Sample	92	90	97	99
LCS 240-584830/6	Lab Control Sample	101	95	103	101
MB 240-584662/9	Method Blank	106	87	99	107
MB 240-584830/10	Method Blank	107	85	100	103

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
240-190171-2	MW-200_081123	107
240-190171-3	MW-200S_081123	104
240-190171-4	MW-201_081123	103
240-190171-5	MW-201S_081123	108
240-190171-5 MS	MW-201S-MS_081123	115
240-190171-5 MSD	MW-201S-MSD_081123	102
LCS 240-584695/5	Lab Control Sample	105
LCS 240-584837/5	Lab Control Sample	102
MB 240-584695/7	Method Blank	104
MB 240-584837/7	Method Blank	103

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-190171-1

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

Lab Sample ID: MB 240-584662/9
Matrix: Water
Analysis Batch: 584662

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 11:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 11:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 11:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 11:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 11:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 11:01	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		62 - 137		08/22/23 11:01	1
4-Bromofluorobenzene (Surr)	87		56 - 136		08/22/23 11:01	1
Toluene-d8 (Surr)	99		78 - 122		08/22/23 11:01	1
Dibromofluoromethane (Surr)	107		73 - 120		08/22/23 11:01	1

Lab Sample ID: LCS 240-584662/5
Matrix: Water
Analysis Batch: 584662

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	20.0	23.4		ug/L		117	63 - 134
cis-1,2-Dichloroethene	20.0	22.2		ug/L		111	77 - 123
Tetrachloroethene	20.0	19.3		ug/L		97	76 - 123
trans-1,2-Dichloroethene	20.0	21.1		ug/L		106	75 - 124
Trichloroethene	20.0	19.8		ug/L		99	70 - 122
Vinyl chloride	20.0	15.5		ug/L		78	60 - 144

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: MB 240-584830/10
Matrix: Water
Analysis Batch: 584830

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 12:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/23/23 12:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/23/23 12:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/23/23 12:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/23/23 12:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/23/23 12:49	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		08/23/23 12:49	1
4-Bromofluorobenzene (Surr)	85		56 - 136		08/23/23 12:49	1
Toluene-d8 (Surr)	100		78 - 122		08/23/23 12:49	1

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QC Sample Results

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

Job ID: 240-190171-1

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

Lab Sample ID: MB 240-584830/10
Matrix: Water
Analysis Batch: 584830

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	103		73 - 120		08/23/23 12:49	1

Lab Sample ID: LCS 240-584830/6
Matrix: Water
Analysis Batch: 584830

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1,1-Dichloroethene	20.0	21.9		ug/L		110	63 - 134	
cis-1,2-Dichloroethene	20.0	22.5		ug/L		112	77 - 123	
Tetrachloroethene	20.0	19.3		ug/L		97	76 - 123	
trans-1,2-Dichloroethene	20.0	21.0		ug/L		105	75 - 124	
Trichloroethene	20.0	19.6		ug/L		98	70 - 122	
Vinyl chloride	20.0	14.8		ug/L		74	60 - 144	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-190171-5 MS
Matrix: Water
Analysis Batch: 584830

Client Sample ID: MW-201S-MS_081123
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
1,1-Dichloroethene	1.0	U	20.0	21.3		ug/L		107	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	20.5		ug/L		102	66 - 128	
Tetrachloroethene	1.0	U	20.0	16.2		ug/L		81	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	19.6		ug/L		98	56 - 136	
Trichloroethene	1.0	U	20.0	17.8		ug/L		89	61 - 124	
Vinyl chloride	1.0	U	20.0	15.9		ug/L		80	43 - 157	

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

Lab Sample ID: 240-190171-5 MSD
Matrix: Water
Analysis Batch: 584830

Client Sample ID: MW-201S-MSD_081123
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	20.0	21.5		ug/L		107	56 - 135	1	26	
cis-1,2-Dichloroethene	1.0	U	20.0	20.7		ug/L		104	66 - 128	1	14	
Tetrachloroethene	1.0	U	20.0	18.0		ug/L		90	62 - 131	11	20	
trans-1,2-Dichloroethene	1.0	U	20.0	19.7		ug/L		99	56 - 136	0	15	
Trichloroethene	1.0	U	20.0	18.2		ug/L		91	61 - 124	2	15	

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-190171-1

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

Lab Sample ID: 240-190171-5 MSD
Matrix: Water
Analysis Batch: 584830

Client Sample ID: MW-201S-MSD_081123
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	1.0	U	20.0	16.0		ug/L		80	43 - 157	0	24
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	102		62 - 137								
4-Bromofluorobenzene (Surr)	90		56 - 136								
Toluene-d8 (Surr)	101		78 - 122								
Dibromofluoromethane (Surr)	100		73 - 120								

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	%Recovery	MB Qualifier	MB Limits							
1,2-Dichloroethane-d4 (Surr)	104		66 - 120							
				Prepared	Analyzed	Dil Fac				
					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	%Recovery	LCS Qualifier	LCS 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	%Recovery	MS Qualifier	MS 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

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-190171-1

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

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

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 120

Lab Sample ID: MB 240-584837/7
Matrix: Water
Analysis Batch: 584837

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	-		08/23/23 10:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 120		08/23/23 10:43	1

Lab Sample ID: LCS 240-584837/5
Matrix: Water
Analysis Batch: 584837

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	9.93		ug/L	-	99	80 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 120

Lab Sample ID: 240-190171-5 MS
Matrix: Water
Analysis Batch: 584837

Client Sample ID: MW-2015-MS_081123
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	10.7		ug/L	-	107	51 - 153

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		66 - 120

Lab Sample ID: 240-190171-5 MSD
Matrix: Water
Analysis Batch: 584837

Client Sample ID: MW-2015-MSD_081123
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	11.5		ug/L	-	115	51 - 153	8	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 120

QC Association Summary

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

Job ID: 240-190171-1

GC/MS VOA

Analysis Batch: 584662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190171-1	TRIP BLANK_69	Total/NA	Water	8260D	
240-190171-2	MW-200_081123	Total/NA	Water	8260D	
240-190171-3	MW-200S_081123	Total/NA	Water	8260D	
240-190171-4	MW-201_081123	Total/NA	Water	8260D	
240-190171-5	MW-201S_081123	Total/NA	Water	8260D	
MB 240-584662/9	Method Blank	Total/NA	Water	8260D	
LCS 240-584662/5	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 584695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190171-2	MW-200_081123	Total/NA	Water	8260D SIM	
240-190171-3	MW-200S_081123	Total/NA	Water	8260D SIM	
240-190171-4	MW-201_081123	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: 584830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190171-5	MW-201S_081123	Total/NA	Water	8260D	
MB 240-584830/10	Method Blank	Total/NA	Water	8260D	
LCS 240-584830/6	Lab Control Sample	Total/NA	Water	8260D	
240-190171-5 MS	MW-201S-MS_081123	Total/NA	Water	8260D	
240-190171-5 MSD	MW-201S-MSD_081123	Total/NA	Water	8260D	

Analysis Batch: 584837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190171-5	MW-201S_081123	Total/NA	Water	8260D SIM	
MB 240-584837/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-584837/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-190171-5 MS	MW-201S-MS_081123	Total/NA	Water	8260D SIM	
240-190171-5 MSD	MW-201S-MSD_081123	Total/NA	Water	8260D SIM	

Lab Chronicle

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

Job ID: 240-190171-1

Client Sample ID: TRIP BLANK_69
Date Collected: 08/11/23 00:00
Date Received: 08/15/23 10:00

Lab Sample ID: 240-190171-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584662	AJS	EET CLE	08/22/23 16:52

Client Sample ID: MW-200_081123
Date Collected: 08/11/23 09:55
Date Received: 08/15/23 10:00

Lab Sample ID: 240-190171-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584662	AJS	EET CLE	08/22/23 18:02
Total/NA	Analysis	8260D SIM		1	584695	MRL	EET CLE	08/22/23 18:56

Client Sample ID: MW-200S_081123
Date Collected: 08/11/23 10:50
Date Received: 08/15/23 10:00

Lab Sample ID: 240-190171-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584662	AJS	EET CLE	08/22/23 18:25
Total/NA	Analysis	8260D SIM		1	584695	MRL	EET CLE	08/22/23 19:20

Client Sample ID: MW-201_081123
Date Collected: 08/11/23 12:10
Date Received: 08/15/23 10:00

Lab Sample ID: 240-190171-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584662	AJS	EET CLE	08/22/23 18:49
Total/NA	Analysis	8260D SIM		1	584695	MRL	EET CLE	08/22/23 19:44

Client Sample ID: MW-201S_081123
Date Collected: 08/11/23 13:15
Date Received: 08/15/23 10:00

Lab Sample ID: 240-190171-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584662	AJS	EET CLE	08/22/23 19:12
Total/NA	Analysis	8260D		1	584830	AJS	EET CLE	08/23/23 15:18
Total/NA	Analysis	8260D SIM		1	584837	MRL	EET CLE	08/23/23 11:07

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-190171-1

Laboratory: Eurofins Cleveland

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

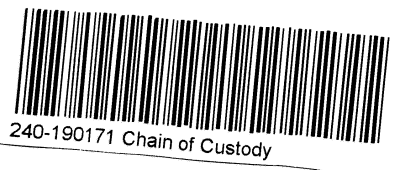
Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	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

Company Name: Arcadis		Regulatory program: DW NPDES RCRA Other	
Address: 28550 Cabot Drive, Suite 500		Lab Contact: Mike DeMonico	
City/State/Zip: Novi, MI, 48377		Telephone: 330-497-9396	
Phone: 248-994-2240		Analyses	
Project Name: Ford LTP On-Site		Walk-in client	
Project Number: 30167538.401.03		Lab sampling	
PO # 30167538.401.03		Job/SDG No:	
Client Project Manager: Kris Hinskey		Sample Specific Notes / Special Instructions:	
Telephone: 248-994-2240		1 Trip Blank	
Email: kristoffer.hinskey@arcadis.com		3 VOAs for 8260D	
Sampler Name: Garrett Link		3 VOAs for 8260D SIM	
Method of Shipment/Carrier:			
Shipping/Tracking No:			

Sample Identification	Sample Date	Sample Time	Matrix			Containers & Preservatives					Filtered Sample (Y/N)	Composite=C/Grab=G	Analyses					Sample Specific Notes / Special Instructions						
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl			NaOH	ZnAc	Unpres	Other:	1-DCE 8260D		cs-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM
TRIP BLANK_69	---	---	1											X	X	X	X	X	X					1 Trip Blank
MW-200-081123	08/11/23	9:55	6											X	X	X	X	X	X					
MW-200s-081123	08/11/23	10:50	6											X	X	X	X	X	X					
MW-201-081123	08/11/23	12:10	6											X	X	X	X	X	X					
MW-201s-081123	08/11/23	13:15	6											X	X	X	X	X	X					
MW-201s-MS-081123	08/11/23	13:15	6											X	X	X	X	X	X					
MW-201s-MSD-081123	08/11/23	13:15	6											X	X	X	X	X	X					



Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal By Lab Archive For _____ Months

Relinquished by: <i>Garrett Link</i>	Company: Arcadis	Date/Time: 8/11/23	Received by: <i>Novi Gold Storage</i>	Company: Arcadis	Date/Time: 8/11/23
Relinquished by: <i>Garrett Link</i>	Company: Arcadis	Date/Time: 8/11/23 15:30	Received by: <i>SGH</i>	Company: <i>SGH</i>	Date/Time: 8/14/23 15:35
Relinquished by: <i>Garrett Link</i>	Company: <i>SGH</i>	Date/Time: 8/14/23 15:45	Received in Laboratory: <i>[Signature]</i>	Company: <i>SGH</i>	Date/Time: 8-15-23 1000



Barberton Facility

Client Arcadis Site Name _____ Cooler unpacked by: [Signature]

Cooler Received on 8-15-23 Opened on 8-15-23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

Eurofins Cooler # EQ 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 # 21 (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 2 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? CMH Yes No
11. Sufficient quantity received to perform indicated analyses? 81723 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# HC312502
14. Were VOAs on the COC? Yes No
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
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page 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: _____



P. 15/16

Part # 159469-434 MTW EXP 0324



ORIGIN ID:DEOA (81)
SHIPPING DEPARTMENT
EUROFINS MICHIGAN
10448 CITATION DRIV
SUITE 200
BRIGHTON, MI 48116
UNITED STATES US

RT 164

6 10:30

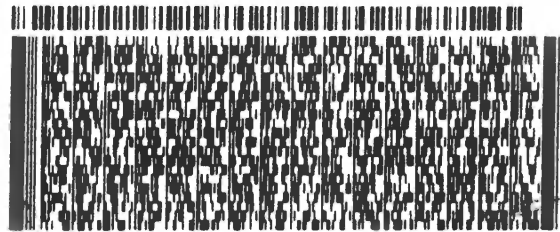
UG23
LB
:AFE3707

A T
1616
08.15

TO **ATTN: SAMPLE RECEIVED**
EUROFINS CLEVELAND
180.S. VAN BUREN AVE.

BARBERTON OH 44203

INVT REF DEPT
PO1



FedEx
Express



2 of 2

MP6# 6189 7343 1616

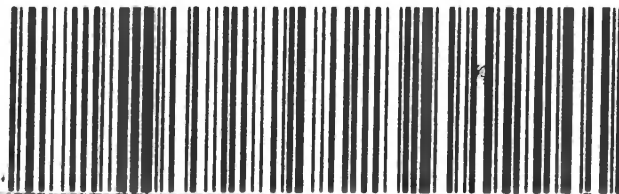
Mstr# 6189 7343 1605

0201

TUE - 15 AUG 10:30A
PRIORITY OVERNIGHT

64 CAKA

44203
OH-US CLE



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- 10
- 11
- 12
- 13
- 14

eurofins

P. 5/10/20

Part # 159489-434 M/TW EXP 03/24



240-190171 Waybill

ORIGIN ID:DEOA (81)
SHIPPING DEPARTMENT
EUROFINS MICHIGAN S
10448 CITATION DRIV
SUITE 200
BRIGHTON, MI 48116
UNITED STATES US

RT 164

6 10:30

UG23
LB
:AFE9707

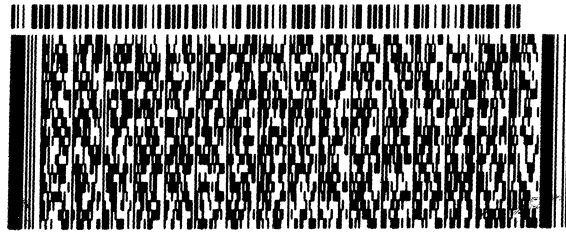
1616
08.15

EDJ/865/5288

TO ATTN: SAMPLE RECEIVED
EUROFINS CLEVELAND
180 S. VAN BUREN AVE.

BARBERTON OH 44203

INVT: REF: PO: DEPT:



FedEx
Express



423102211020147

2 of 2

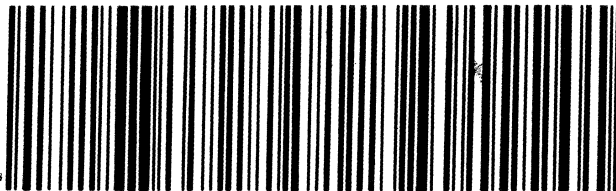
MPS# 6189 7343 1616
0263
Metr# 6189 7343 1605

TUE - 15 AUG 10:30A
PRIORITY OVERNIGHT

0201

64 CAKA

44203
OH-US CLE



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- 12
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- 14

DATA VERIFICATION REPORT



August 28, 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: 190171-1

Sample date: 2023-08-11

Report received by CADENA: 2023-08-28

Initial Data Verification completed by CADENA: 2023-08-28

Number of Samples:5

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 issues 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, 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: 190171-1

Analyte	Cas No.	Sample Name: TRIP BLANK_69				Sample Name: MW-200_081123				Sample Name: MW-200S_081123				Sample Name: MW-201_081123				Sample Name: MW-201S_081123			
		Result	Limit	Units	Valid	Result	Limit	Units	Valid	Result	Limit	Units	Valid	Result	Limit	Units	Valid	Result	Limit	Units	Valid
GC/MS VOC																					
<u>OSW-8260D</u>																					
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
<u>OSW-8260DSIM</u>																					
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---