PREPARED FOR

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JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-190166-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-190166-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-190166-1

Project/Site: Ford LTP - Off Site

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.

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

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Case Narrative

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

Job ID: 240-190166-1

Job ID: 240-190166-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-190166-1

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

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 - Off Site

Job ID: 240-190166-1

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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Sample Summary

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

Job ID: 240-190166-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-190166-1	TRIP BLANK_12	Water	08/11/23 00:00	08/15/23 10:00
240-190166-2	MW-98S_081123	Water	08/11/23 09:56	08/15/23 10:00
240-190166-3	MW-85_081123	Water	08/11/23 11:32	08/15/23 10:00
240-190166-4	DUP-08	Water	08/11/23 00:00	08/15/23 10:00
240-190166-5	MW-85SR_081123	Water	08/11/23 12:48	08/15/23 10:00
240-190166-6	MW-132S_081123	Water	08/11/23 14:39	08/15/23 10:00

Detection Summary

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_12

Lab Sample ID: 240-190166-1

No Detections.

Client Sample ID: MW-98S_081123

Lab Sample ID: 240-190166-2

No Detections.

Client: ARCADIS US Inc

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	4.8		1.0	0.45	ug/L	1	_	8260D	Total/NA

Client Sample ID: DUP-08 Lab Sample ID: 240-190166-4

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Vinyl chloride	4.7	1.0	0.45 ug/L	1	Total/NA

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	1.5	1.0	0.45 ug/L	1	8260D	Total/NA

No Detections.

13

Job ID: 240-190166-1

Client: ARCADIS US Inc Job ID: 240-190166-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_12

Date Collected: 08/11/23 00:00 Date Received: 08/15/23 10:00 Lab Sample ID: 240-190166-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/21/23 21:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/21/23 21:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 21:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/21/23 21:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 21:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/21/23 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					08/21/23 21:13	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					08/21/23 21:13	1
Toluene-d8 (Surr)	100		78 - 122					08/21/23 21:13	1
Dibromofluoromethane (Surr)	103		73 - 120					08/21/23 21:13	1

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Client: ARCADIS US Inc Job ID: 240-190166-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-98S_081123

Date Collected: 08/11/23 09:56 Date Received: 08/15/23 10:00 Lab Sample ID: 240-190166-2

Matrix: Water

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 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 120					08/22/23 14:58	1
Method: SW846 8260D - Vo	latile Organic	Compound	ds bv GC/MS						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/21/23 21:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/21/23 21:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 21:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/21/23 21:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 21:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/21/23 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					08/21/23 21:38	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					08/21/23 21:38	1
Toluene-d8 (Surr)	100		78 - 122					08/21/23 21:38	1
Dibromofluoromethane (Surr)	101		73 - 120					08/21/23 21:38	1

8/24/2023

Client: ARCADIS US Inc Job ID: 240-190166-1

Project/Site: Ford LTP - Off Site

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

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103

Date Collected: 08/11/23 11:32 Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 8260D SIN	l - Volatile Orga	anic Comp	ounds (GC/N	IS)					
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 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 120			-		08/22/23 15:22	1
- Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS						
Analyte	_	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/21/23 22:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/21/23 22:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 22:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/21/23 22:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 22:03	1
Vinyl chloride	4.8		1.0	0.45	ug/L			08/21/23 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/21/23 22:03	1

56 - 136

78 - 122

73 - 120

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08/21/23 22:03

08/21/23 22:03

08/21/23 22:03

Client: ARCADIS US Inc Job ID: 240-190166-1

Project/Site: Ford LTP - Off Site

Client Sample ID: DUP-08 Lab Sample ID: 240-190166-4

Matrix: Water

Date Collected: 08/11/23 00:00 Date Received: 08/15/23 10:00

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 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 120			•		08/22/23 15:46	1
Method: SW846 8260D - Vo	latile Organic	Compound	ds bv GC/MS						
Analyte	_	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/21/23 22:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/21/23 22:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 22:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/21/23 22:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 22:28	1
Vinyl chloride	4.7		1.0	0.45	ug/L			08/21/23 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			•		08/21/23 22:28	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					08/21/23 22:28	1
Toluene-d8 (Surr)	100		78 - 122					08/21/23 22:28	1
Dibromofluoromethane (Surr)	102		73 - 120					08/21/23 22:28	1

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Client: ARCADIS US Inc Job ID: 240-190166-1

Project/Site: Ford LTP - Off Site

Date Collected: 08/11/23 12:48 Lab Gample 15. 240-130 100-3

Date Received: 08/15/23 10:00

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 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 120					08/22/23 16:10	1
Method: SW846 8260D - Ve		-	•						
		Compound Qualifier	ds by GC/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8260D - Vo Analyte 1,1-Dichloroethene		Qualifier	•			<u>D</u>	Prepared	Analyzed 08/21/23 22:53	Dil Fac
Analyte	Result	Qualifier U	RL	MDL	ug/L	<u>D</u>	Prepared		Dil Fac
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0	Qualifier U U		MDL 0.49	ug/L ug/L	<u> </u>	Prepared	08/21/23 22:53	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene	1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46	ug/L ug/L ug/L	<u>D</u>	Prepared	08/21/23 22:53 08/21/23 22:53	Dil Fac 1 1 1 1

Vinyl chloride	1.5	1.0	0.45 ug/L		08/21/23 22:53	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111	62 - 137			08/21/23 22:53	1
4-Bromofluorobenzene (Surr)	90	56 ₋ 136			08/21/23 22:53	1
Toluene-d8 (Surr)	101	78 - 122			08/21/23 22:53	1
Dibromofluoromethane (Surr)	104	73 - 120			08/21/23 22:53	1

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Client: ARCADIS US Inc Job ID: 240-190166-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-190166-6 Client Sample ID: MW-132S_081123

Date Collected: 08/11/23 14:39

Matrix: Water

Date Received: 08/15/23 10:00

Analyte		Qualifier	ounds (GC/N RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/22/23 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			66 - 120					08/22/23 16:34	1

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 16:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 16:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 16:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		08/22/23 16:40	1
4-Bromofluorobenzene (Surr)	98		56 ₋ 136					08/22/23 16:40	1
Toluene-d8 (Surr)	96		78 - 122					08/22/23 16:40	1
Dibromofluoromethane (Surr)	92		73 - 120					08/22/23 16:40	1

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-190166-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			P	ercent Surro	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-189978-C-5 MS	Matrix Spike	94	89	97	99
240-189978-C-5 MSD	Matrix Spike Duplicate	85	98	98	92
240-190140-E-35 MS	Matrix Spike	103	100	103	102
240-190140-I-35 MSD	Matrix Spike Duplicate	101	100	106	99
240-190166-1	TRIP BLANK_12	112	88	100	103
240-190166-2	MW-98S_081123	110	88	100	101
240-190166-3	MW-85_081123	111	86	99	103
240-190166-4	DUP-08	111	88	100	102
240-190166-5	MW-85SR_081123	111	90	101	104
240-190166-6	MW-132S_081123	97	98	96	92
LCS 240-584597/4	Lab Control Sample	103	101	105	101
LCS 240-584684/4	Lab Control Sample	89	94	99	96
MB 240-584597/7	Method Blank	109	90	99	101
MB 240-584684/7	Method Blank	95	93	96	99

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

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-190080-A-3 MS	Matrix Spike	103	
240-190080-A-3 MSD	Matrix Spike Duplicate	106	
240-190166-2	MW-98S_081123	103	
240-190166-3	MW-85_081123	104	
240-190166-4	DUP-08	102	
240-190166-5	MW-85SR_081123	101	
240-190166-6	MW-132S_081123	106	
LCS 240-584695/5	Lab Control Sample	105	
MB 240-584695/7	Method Blank	104	

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

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-584597/7

Matrix: Water

Analysis Batch: 584597

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

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 08/21/23 14:32 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/21/23 14:32 1.0 U 0.44 ug/L Tetrachloroethene 1.0 08/21/23 14:32 0.51 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 08/21/23 14:32 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/21/23 14:32 Vinyl chloride 1.0 U 1.0 0.45 ug/L 08/21/23 14:32

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 1,2-Dichloroethane-d4 (Surr) 109 08/21/23 14:32 4-Bromofluorobenzene (Surr) 90 56 - 136 08/21/23 14:32 78 - 122 Toluene-d8 (Surr) 99 08/21/23 14:32 Dibromofluoromethane (Surr) 101 73 - 120 08/21/23 14:32

Lab Sample ID: LCS 240-584597/4

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1.2-Dichloroethene

Analyte

Analysis Batch: 584597

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

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 25.0 26.2 105 63 - 134 ug/L 25.0 23.4 94 ug/L 77 - 123 25.0 25.6 102 76 - 123 ug/L 25.0 24.1 ug/L 96 75 - 124 25.0 23.8 ug/L 95 70 - 122 12.5 11.0 ug/L 88 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 103 62 - 137 4-Bromofluorobenzene (Surr) 101 56 - 136 Toluene-d8 (Surr) 105 78 - 122 73 - 120 Dibromofluoromethane (Surr) 101

Lab Sample ID: 240-190140-E-35 MS

Matrix: Water

Analysis Batch: 584597

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

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	25.0	25.3		ug/L		101	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	22.5		ug/L		90	66 - 128
Tetrachloroethene	1.0	U	25.0	22.5		ug/L		90	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	23.0		ug/L		92	56 - 136
Trichloroethene	1.0	U	25.0	21.8		ug/L		87	61 - 124
Vinyl chloride	1.0	U	12.5	9.94		ug/L		79	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	103		78 - 122

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Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-190140-E-35 MS

Matrix: Water

Analysis Batch: 584597

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 102 73 - 120

Lab Sample ID: 240-190140-I-35 MSD

Matrix: Water

Analysis Batch: 584597

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec **RPD** Limit Result Qualifier Added Result Qualifier Limits RPD Analyte Unit D %Rec 1.0 U 1,1-Dichloroethene 25.0 25.9 ug/L 104 56 - 135 2 26 cis-1,2-Dichloroethene 1.0 U 25.0 22.7 ug/L 91 66 - 128 14 1 Tetrachloroethene 1.0 U 25.0 24.0 ug/L 96 62 - 131 20 trans-1,2-Dichloroethene 1.0 U 25.0 23.8 ug/L 95 56 - 136 15 Trichloroethene 1.0 U 25.0 22.4 ug/L 90 61 - 124 3 15 Vinyl chloride 1.0 U 12.5 11.0 ug/L 43 - 157 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: MB 240-584684/7

Matrix: Water

Analysis Batch: 584684

Client Sample ID: Method Blank

Prep Type: Total/NA

	IVID	IVID							
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 11:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 11:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 11:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 11:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 11:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 11:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared A	nalyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137	08/2	22/23 11:37	1
4-Bromofluorobenzene (Surr)	93		56 - 136	08/2	22/23 11:37	1
Toluene-d8 (Surr)	96		78 - 122	08/2	22/23 11:37	1
Dibromofluoromethane (Surr)	99		73 - 120	08/2	22/23 11:37	1

Lab Sample ID: LCS 240-584684/4

Matrix: Water

Analysis Batch: 584684

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

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,1-Dichloroethene	25.0	27.1		ug/L		108	63 - 134		
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	77 - 123		
Tetrachloroethene	25.0	29.3		ug/L		117	76 - 123		
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	75 - 124		
Trichloroethene	25.0	25.8		ug/L		103	70 - 122		

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8/24/2023

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Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCS 240-584684/4 **Matrix: Water**

Analysis Batch: 584684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Vinyl chloride 12.5 12.3 ug/L 99 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 89 62 - 137 4-Bromofluorobenzene (Surr) 94 56 - 136 Toluene-d8 (Surr) 99 78 - 122 Dibromofluoromethane (Surr) 73 - 120 96

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 584684

Lab Sample ID: 240-189978-C-5 MS

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,1-Dichloroethene 50 U 1250 56 - 135 1250 ug/L 100 cis-1,2-Dichloroethene 110 1250 1240 91 66 - 128 ug/L Tetrachloroethene 50 U 1250 1120 ug/L 90 62 - 131 trans-1,2-Dichloroethene 50 1250 1160 93 56 - 136 ug/L Trichloroethene 1250 1970 90 ug/L 61 - 124850 Vinyl chloride 50 U 625 550 ug/L 88 43 - 157

MS MS Surrogate %Recovery Qualifier Limits 62 - 137 1,2-Dichloroethane-d4 (Surr) 94 4-Bromofluorobenzene (Surr) 89 56 - 136 78 - 122 Toluene-d8 (Surr) 97 Dibromofluoromethane (Surr) 99 73 - 120

Lab Sample ID: 240-189978-C-5 MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Water Prep Type: Total/NA**

Analysis Batch: 584684

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	50	U	1250	1140		ug/L		91	56 - 135	9	26
cis-1,2-Dichloroethene	110		1250	1190		ug/L		87	66 - 128	4	14
Tetrachloroethene	50	U	1250	1320		ug/L		106	62 - 131	16	20
trans-1,2-Dichloroethene	50	U	1250	1140		ug/L		91	56 - 136	2	15
Trichloroethene	850		1250	1870		ug/L		82	61 - 124	5	15
Vinyl chloride	50	U	625	548		ug/L		88	43 - 157	0	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

Eurofins Cleveland

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Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-584695/7 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 584695

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.86 ug/L 08/22/23 10:53 1,4-Dioxane 2.0 U 2.0

MB MB

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

Lab Sample ID: LCS 240-584695/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 584695

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 9.38 ug/L 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 105

Lab Sample ID: 240-190080-A-3 MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 584695

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2.0 U 1,4-Dioxane 10.0 7.87 ug/L 79 51 - 153

MS MS

Surrogate %Recovery Qualifier Limits

1,2-Dichloroethane-d4 (Surr) 103 66 - 120

Lab Sample ID: 240-190080-A-3 MSD

Matrix: Water

Analysis Batch: 584695

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	8.17		ug/L		82	51 - 153	4	16

MSD MSD

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

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QC Association Summary

Client: ARCADIS US Inc Job ID: 240-190166-1 Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 584597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190166-1	TRIP BLANK_12	Total/NA	Water	8260D	
240-190166-2	MW-98S_081123	Total/NA	Water	8260D	
240-190166-3	MW-85_081123	Total/NA	Water	8260D	
240-190166-4	DUP-08	Total/NA	Water	8260D	
240-190166-5	MW-85SR_081123	Total/NA	Water	8260D	
MB 240-584597/7	Method Blank	Total/NA	Water	8260D	
LCS 240-584597/4	Lab Control Sample	Total/NA	Water	8260D	
240-190140-E-35 MS	Matrix Spike	Total/NA	Water	8260D	
240-190140-I-35 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 584684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190166-6	MW-132S_081123	Total/NA	Water	8260D	
MB 240-584684/7	Method Blank	Total/NA	Water	8260D	
LCS 240-584684/4	Lab Control Sample	Total/NA	Water	8260D	
240-189978-C-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-189978-C-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 584695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190166-2	MW-98S_081123	Total/NA	Water	8260D SIM	
240-190166-3	MW-85_081123	Total/NA	Water	8260D SIM	
240-190166-4	DUP-08	Total/NA	Water	8260D SIM	
240-190166-5	MW-85SR_081123	Total/NA	Water	8260D SIM	
240-190166-6	MW-132S_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	

Eurofins Cleveland

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Job ID: 240-190166-1

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

Lab Sample ID: 240-190166-1

Matrix: Water

Client Sample ID: TRIP BLANK 12

Date Collected: 08/11/23 00:00 Date Received: 08/15/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	584597	CDG	EET CLE	08/21/23 21:13

Client Sample ID: MW-98S 081123

Lab Sample ID: 240-190166-2 Date Collected: 08/11/23 09:56 **Matrix: Water**

Date Received: 08/15/23 10:00

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run Factor **Number Analyst** Lab or Analyzed Total/NA Analysis 8260D 584597 CDG EET CLE 08/21/23 21:38 Total/NA Analysis 8260D SIM 1 584695 MRL **EET CLE** 08/22/23 14:58

Client Sample ID: MW-85 081123 Lab Sample ID: 240-190166-3

Date Collected: 08/11/23 11:32 **Matrix: Water**

Date Received: 08/15/23 10:00

Batch Batch Dilution **Batch** Prepared Method or Analyzed **Prep Type** Type Run Factor Number Analyst Lab 08/21/23 22:03 Total/NA Analysis 8260D 584597 CDG **EET CLE** Total/NA Analysis 8260D SIM 584695 MRL EET CLE 08/22/23 15:22 1

Client Sample ID: DUP-08 Lab Sample ID: 240-190166-4

Date Collected: 08/11/23 00:00 **Matrix: Water**

Date Received: 08/15/23 10:00

Batch Batch Dilution Batch **Prepared** Type Method Run **Factor Number Analyst** or Analyzed **Prep Type** Lab Total/NA 8260D 584597 CDG EET CLE 08/21/23 22:28 Analysis Total/NA Analysis 8260D SIM 1 584695 MRL **EET CLE** 08/22/23 15:46

Client Sample ID: MW-85SR 081123 Lab Sample ID: 240-190166-5

Date Collected: 08/11/23 12:48 **Matrix: Water**

Date Received: 08/15/23 10:00

Batch Dilution Batch **Batch** Prepared Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab 8260D 584597 CDG 08/21/23 22:53 Total/NA EET CLE Analysis Total/NA Analysis 8260D SIM 584695 MRL EET CLE 08/22/23 16:10 1

Lab Sample ID: 240-190166-6 Client Sample ID: MW-132S 081123

Date Collected: 08/11/23 14:39 **Matrix: Water**

Date Received: 08/15/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			584684	LEE	EET CLE	08/22/23 16:40
Total/NA	Analysis	8260D SIM		1	584695	MRL	EET CLE	08/22/23 16:34

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 Job ID: 240-190166-1 Project/Site: Ford LTP - Off Site

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
lowa	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.

Date/Time: 1538

Date/Time: 7-15:23 600

Company:

Received in Laboratoryby:

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15:38

Date/Time: BIU/123 Date/Time:

Company: Company: Arcadis

> Relinquished by: Relinquished by: /

Company:

Company: Arcadis

Company

MICHIGAN 190 Tes	Chai) TestAmerica Laboratory location: <u>Brighton</u> — 10448 Cital Regulatory program: DW	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 DW NPDES RCRA Other		TestAmerica
	Client Project Manager: Kris Hinskev	Sife Contact: Christina Weaver	l oh Contont, Mile DalMesi.	TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 248-994-2240	Lau Collacti, Mike DelMoliko Telenhone, 130, 407, 0364	COC No:
City/State/Zip: Novi, MI, 48377	Description of the control of the co	A MOLENIA CONTRACTOR C	1 erepnone: 550-477-5590	1 of 1 COCs
	Linali. ni istolitei ililishey@arcadis.com		Analyses	For lab use only
Project Name: Ford LTP Off-Site	Sampler Name: ADPCTO (OSTIGIO)	TAT if different from below 3 weeks		Walk-in client
Project Number: 30167538.402.04	 	1 week	(Lab sampling
	Shipping/Tracking No:	(VV) 9	8260 00328	Job/SDG No:
	Matrix	Containers & Preservativ	***************************************	
Sample Identification	Sample Date Sample Time Advecou	Comp	Trans- PCE 8:	Sample Specific Notes / Special Instructions:
TRIP BLANK_ \2	1	7 0	× × × ×	1 Trip Blank
MW-985-081123	8/11/23 0956 6	<i>i i i i i i i i i i</i>	メ × × × × ×	3 VOAs for 8260D
MW-85-081123	8/11/23 1132 6	X SM	X	
	8/11/23 — (6	X 5/10/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
MW-855R-081123	8/11/23 1248 (0	X(0) N		
MW-1325-081123	8/11/23 1439 (0	X 0 7	X	
		240-190166 Chain of Custody	of Custody	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	itant ' Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Chent '> Disposal By Lab	oles are retained longer than 1 month) Archive For Months	
Special Instructions/QC Requirements & Comments:	(CHITTOLL	
Campro Adaless. Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	:o.com. Cadena #E203631 $\mathcal{P}loc(0\mathcal{N})$	d posati	Psy	
Doleran Costillar	Company: Accodic Stilling:	1547 Received by: (NO Storage)	Company:	Date/Time:
	Data/Time	1	7	0/11/65 (247

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* · ·	Login # :
Barberton Facility	Cooler unpacked by:
Client Site Name Site Name	
Cooler Received on 8-15-23 Opened on 8-15-23	
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Cou	
Receipt After-hours: Drop-off Date/Time Storage Loc	cation
Eurofins Cooler # Foam Box Client Cooler Box Other Packing material used: Rubble Wrap Foam Plastic Bag None Other	ner
COOLANT: Wet Ice Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt See Multiple C	Cooler Form
IR GUN # 2/ (CF °C) Observed Cooler Temp.	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	Yes No Tests that are not
-Were the seals on the outside of the cooler(s) signed & dated?	checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes No Receiving:
-Were tamper/custody seals intact and uncompromised?	Yes No VOAs
3. Shippers' packing slip attached to the cooler(s)?	011 1 0
4. Did custody papers accompany the sample(s)?5. Were the custody papers relinquished & signed in the appropriate place?	Yes No TOC
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)?	Ver No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Ves No
9. For each sample, does the COC specify preservatives (Y(N), # of containers (Y/N)	
10. Were correct bottle(s) used for the test(s) indicated?	Mes 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 (A) pH Strip Lot# HC312502
14. Were VOAs on the COC?	Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this.	Yes Wo NA
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 🔟
Contacted PM Date by via Ve	rbal Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	page Samples processed by:
19. SAMPLE CONDITION	
Sample(s) were received after the recommended	d holding time had expired.
	ceived in a broken container.
Sample(s) were received with bubble >6	mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION	
	,
Sample(s)w	ere further preserved in the laboratory.
Sample(s)w Fime preserved:Preservative(s) added/Lot number(s):w	
VOA Sample Preservation - Date/Time VOAs Frozen:	

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		Eurofins - Cante	on Sample Receipt M	ultiple Cooler Form	,
E .	escription	IR Gun #	Observed	Corrected	Coolant
	ircle)	(Circle)	Temp °C	Temp °C	(Circle) Welled Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:	2.4	1.2	Water None
EC CHent	Box Other	IR GUN #:,2/	2.2	2.0	Wellce Blue Ice Dry Ice Water None
EC Client	Box Other	IR GUN #:			Wel Ice Sive Ice Dry Ice Water None
EC CHent	Box Other	IR GUN #:		,	Wetice Blue Ice Dry Ice Water None
EC Client	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet ice Blue ice Dry ice
EC Client		IR GUN #:	_	·	Water None Wet Ice Sive Ice Dry Ice
	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other				Water None
EC Client	Box Other	IR GUN #:	-		Wet ice Blue Ice Dry ice Water None
EC Client	Box Other	IR GUN #:	Nation and		Wet ice Blue Ice Dry ice Water None
EC Client	Box Other	IR GUN #:	w #	8	Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR GUN #:	·		Wet ice Sive ice Dry ice Water None*
EC Client	Box Other	IR GUN #:			Wet Ice Sive Ice Dry Ice Water None
EC Client	Box Other	IR GUN #:			Wet ice Sive ice Dry ice Water None
EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR GUN #:	ation grant and a second and a second and a second and a second a second a second a second a second a second a	7-	Wef ice Sive ice Dry ice
EC Client	Box Other	IR GUN #:		ı	Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet ice Sive ice Dry ice
EC Client	Box Other	IR GUN #:		· /	Wet Ice Blue Ice Dry Ice
EC Client	3ox Other	IR GUN #:			Wet ice Blue ice Dry ice
EC Client	Box Other	IR GUN #:			Water None Wellice Blue Ice Dry Ice
		IR GUN #:		·	Water None Wat ice Sive Ice Dry ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Slue Ice Dry Ice
EC Client	Box Other			144	Water None
EC Client	Box Other	IR GUN #:			Water None
EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR GUN #:		學。	Wel tice Blue Ice Dry Ice Water None
EC Client	Box Other	IR GUN #:		- 10 mm	Wet ice Blue Ice Dry Ice Water None
EC Client	Box Other	IR GUN #:		4	Waltice Sive Ice Dry Ice
EC Client	Box Other	IR GUN #:		1	Wet ice Stre ice Dry ice Water None
EC Client	Box Other	IR GUN #:			Wet ice Sive ice Dry ice
EC Client	Box Other	IR GUN #:		, A	Wet Ice Stue Ice Dry Ice
EC Client	Box Other	IR GUN #:		, ,	Water None Wet Ice Blue Ice, Dry Ice
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
CO CHEIN	TVA UTITET		, 1	☐ See Tempe	Water None Prature Excursion Form
				M Agg (a)(b)	

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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240-190166 Waybill

eurofins



UG23 LB :AFE3707

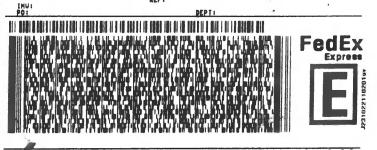
ORIGIN ID:DEOA (81 SHIPPING DEPARTMENT EUROFINS MICHIGAN S 10448 CITATION DRI^C SUITE 200 BRIGHTON, MI 48116

164

6 10:30 A 08.15

EUROFINS CLEVELAND 180,S. VAN BUREN AVE.

BARBERTON OH 44203



2 of 2 MPS# 6189 7343 1616 Mstr# 6189 7343 1605 TUE - 15 AUG 10:30A
PRIORITY OVERNIGHT







DATA VERIFICATION REPORT



August 24, 2023

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04 off-site

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 190166-1 Sample date: 2023-08-11

Report received by CADENA: 2023-08-24

Initial Data Verification completed by CADENA: 2023-08-24

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.

There were no significant QC anomalies or exceptions to report.

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.

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 Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	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 contaminates) 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.
Е	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 contaminates) 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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 190166-1

		Sample Name:	TRIP BL	ANK_12			MW-98	S_08112	23		MW-85	_081123			DUP-08				MW-85	SR_081:	123		MW-13	2S_0811	.23	
		Lab Sample ID:	240190	1661			240190	1662			240190	1663			240190	1664			240190	1665			240190	1666		
		Sample Date:	8/11/20	023			8/11/20	023			8/11/20	023			8/11/20	023			8/11/20	023			8/11/20	023		
				Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	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																										
•	V-8260D																									
	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		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		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		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		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		4.8	1.0	ug/l		4.7	1.0	ug/l		1.5	1.0	ug/l		ND	1.0	ug/l	
OSW	V-8260DSIM																									
<u></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		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-190166-1

CADENA Verification Report: 2023-08-24

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51151R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-190166-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	alysis
Sample ID	Labib	Wallix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_12	240-190166-1	Water	08/11/2023		Х	
MW-98S_081123	240-190166-2	Water	08/11/2023		Х	X
MW-85_081123	240-190166-3	Water	08/11/2023		Х	X
DUP-08	240-190166-4	Water	08/11/2023	MW-85_081123	Х	X
MW-85SR_081123	240-190166-5	Water	08/11/2023		Х	X
MW-132S_081123	240-190166-6 Water		08/11/2023		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	orted	Perfor Accep	mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Χ		X	
2. Requested analyses and sample results		Χ		X	
Master tracking list		Χ		X	
4. Methods of analysis		Χ		X	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- · Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (μg/L)	RPD
MW-85_081123 / DUP-08	Vinyl chloride	4.8	4.7	AC

Note:

AC Acceptable

The results between the parent sample and field duplicate were acceptable.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

Not Required
Required

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: September 13, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 15, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

<u>TestAmerica</u>

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Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	rcadis.	com				Analy	sis Tu	rnaro	und 1	lime	-				T		A	nalys	ses	T	$\overline{}$		For lab use		- COCS	
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MW-985-081123	8/11/23	0956		6					0				N	6	χ	X	X	X	X	X	X		+		3 VOA	As for 82		
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DUP-C8	8/11/23	_		6				1	9				N	1/2	χ	X	X	X	X	X	X							***************************************
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MW-1325_081123	8/11/23	1439		0				(G				N	G	X	X	X	X	X	X	X		T					-
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D2008 TestAmerica Laboratories Inc. All rights reserved. TestAmerica & Design Test addemarks of TestAmerica Laboratories. Inc.																												

Client: ARCADIS US Inc Job ID: 240-190166-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_12 Lab Sample ID: 240-190166-1

Date Collected: 08/11/23 00:00 Matrix: Water Date Received: 08/15/23 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/21/23 21:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/21/23 21:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 21:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/21/23 21:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 21:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/21/23 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137					08/21/23 21:13	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					08/21/23 21:13	1
Toluene-d8 (Surr)	100		78 - 122					08/21/23 21:13	1
Dibromofluoromethane (Surr)	103		73 - 120					08/21/23 21:13	1

Date Collected: 08/11/23 09:56 Date Received: 08/15/23 10:00

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	IS)					
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 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 120			-		08/22/23 14:58	1

Method: SW846 8260D - \	Volatile Organic	Compound	ds by GC/MS	}					
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/21/23 21:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/21/23 21:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 21:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/21/23 21:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 21:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/21/23 21:38	1
Surrogate	%Recovery	Qualifier	l imite				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	62 - 137		08/21/23 21:38	1
4-Bromofluorobenzene (Surr)	88	56 - 136		08/21/23 21:38	1
Toluene-d8 (Surr)	100	78 - 122		08/21/23 21:38	1
Dibromofluoromethane (Surr)	101	73 - 120		08/21/23 21:38	1

Date Collected: 08/11/23 11:32 Date Received: 08/15/23 10:00

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	IS)					
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 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 120			_		08/22/23 15:22	1

Matrix: Water

Matrix: Water

Client: ARCADIS US Inc Job ID: 240-190166-1

Project/Site: Ford LTP - Off Site

Date Collected: 08/11/23 11:32 Matrix: Water Date Received: 08/15/23 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/21/23 22:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/21/23 22:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 22:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/21/23 22:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 22:03	1
Vinyl chloride	4.8		1.0	0.45	ug/L			08/21/23 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/21/23 22:03	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					08/21/23 22:03	1
Toluene-d8 (Surr)	99		78 - 122					08/21/23 22:03	1
Dibromofluoromethane (Surr)	103		73 - 120					08/21/23 22:03	1

Client Sample ID: DUP-08

Date Collected: 08/11/23 00:00

Lab Sample ID: 240-190166-4

Matrix: Water

Date Received: 08/15/23 10:00

Method: SW846 8260D SIM	l - Volatile Orga	anic Comp	ounds (GC/N	IS)					
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 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 120			_		08/22/23 15:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/21/23 22:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/21/23 22:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 22:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/21/23 22:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 22:28	1
Vinyl chloride	4.7		1.0	0.45	ug/L			08/21/23 22:28	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111	62 - 137		08/21/23 22:28	1
4-Bromofluorobenzene (Surr)	88	56 ₋ 136		08/21/23 22:28	1
Toluene-d8 (Surr)	100	78 - 122		08/21/23 22:28	1
Dibromofluoromethane (Surr)	102	73 - 120		08/21/23 22:28	1

Date Collected: 08/11/23 12:48 Date Received: 08/15/23 10:00

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	IS)					
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 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 120			_		08/22/23 16:10	1

Page 9 of 642

Matrix: Water

Client: ARCADIS US Inc Job ID: 240-190166-1 Project/Site: Ford LTP - Off Site

Client Sample ID: MW-85SR_081123

Lab Sample ID: 240-190166-5 Date Collected: 08/11/23 12:48 **Matrix: Water**

Date Received: 08/15/23 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/21/23 22:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/21/23 22:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 22:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/21/23 22:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/21/23 22:53	1
Vinyl chloride	1.5		1.0	0.45	ug/L			08/21/23 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					08/21/23 22:53	1
4-Bromofluorobenzene (Surr)	90		56 - 136					08/21/23 22:53	1
Toluene-d8 (Surr)	101		78 - 122					08/21/23 22:53	1
Dibromofluoromethane (Surr)	104		73 - 120					08/21/23 22:53	1

Client Sample ID: MW-132S_081123

Date Collected: 08/11/23 14:39

Date Received: 08/15/23 10:00

Dibromofluoromethane (Surr)

Method: SW846 8260D SI	IM - Volatile Orga	anic Comp	ounds (GC/N	IS)					
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 16:34	1
Surrogate 1,2-Dichloroethane-d4 (Surr)	%Recovery	Qualifier	Limits 66 - 120			=	Prepared	Analyzed 08/22/23 16:34	Dil Fac

1,2-Dichloroethane-d4 (Surr)	106		66 - 120					08/22/23 16:34	1
 Method: SW846 8260D - Vo	latile Organic	Compoun	ds 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 16:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/22/23 16:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/22/23 16:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/22/23 16:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/22/23 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		08/22/23 16:40	1
4-Bromofluorobenzene (Surr)	98		56 - 136					08/22/23 16:40	1
Toluene-d8 (Surr)	96		78 - 122					08/22/23 16:40	1

73 - 120

92

PM

08/22/23 16:40

Lab Sample ID: 240-190166-6

Matrix: Water