PREPARED FOR

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

Generated 3/9/2023 5:26:53 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-181208-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396 Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-181208-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-181208-1

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.							
n	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 U.S., Inc.

Job ID: 240-181208-1

Project/Site: Ford LTP - Off Site

Job ID: 240-181208-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-181208-1

Receipt

The samples were received on 3/2/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA

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

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Method Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181208-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181208-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-181208-1	TRIP BLANK_45	Water	02/28/23 00:00	03/02/23 08:00
240-181208-2	MW-216S_022823	Water	02/28/23 10:40	03/02/23 08:00
240-181208-3	MW-116S_022823	Water	02/28/23 12:00	03/02/23 08:00

Detection Summary

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_45

No Detections.

Client Sample ID: MW-216S_022823

No Detections.

Client Sample ID: MW-116S_022823

Lab Sample ID: 240-181208-2

Lab Sample ID: 240-181208-3

Job ID: 240-181208-1

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Client: ARCADIS U.S., Inc.

No Detections.

Client: ARCADIS U.S., Inc. Job ID: 240-181208-1

Project/Site: Ford LTP - Off Site

Date Received: 03/02/23 08:00

Client Sample ID: TRIP BLANK_45

Lab Sample ID: 240-181208-1 Date Collected: 02/28/23 00:00

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			03/07/23 18:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/23 18:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 18:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/23 18:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 18:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/23 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/07/23 18:04	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					03/07/23 18:04	1
Toluene-d8 (Surr)	89		78 - 122					03/07/23 18:04	1
Dibromofluoromethane (Surr)	94		73 - 120					03/07/23 18:04	1

Client: ARCADIS U.S., Inc. Job ID: 240-181208-1

Project/Site: Ford LTP - Off Site

Date Received: 03/02/23 08:00

trans-1,2-Dichloroethene

Client Sample ID: MW-216S_022823

Date Collected: 02/28/23 10:40

Lab Sample ID: 240-181208-2

Matrix: Water

03/07/23 21:49

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/06/23 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120			•		03/06/23 17:31	1
_									
Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	iC/MS						
Method: SW846 8260D - Volat Analyte		ounds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier			Unit ug/L	<u>D</u> .	Prepared	Analyzed 03/07/23 21:49	Dil Fac
Analyte	Result	Qualifier U	RL	0.49		<u> </u>	Prepared	·	Dil Fac

Trichloroethene	1.0	U	1.0	0.44 ug/L		03/07/23 21:49	1
Vinyl chloride	1.0	U	1.0	0.45 ug/L		03/07/23 21:49	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137			03/07/23 21:49	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136			03/07/23 21:49	1
Toluene-d8 (Surr)	91		78 - 122			03/07/23 21:49	1
Dibromofluoromethane (Surr)	100		73 - 120			03/07/23 21:49	1

1.0

0.51 ug/L

1.0 U

Client: ARCADIS U.S., Inc. Job ID: 240-181208-1

Project/Site: Ford LTP - Off Site

Date Received: 03/02/23 08:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-116S_022823

Lab Sample ID: 240-181208-3 Date Collected: 02/28/23 12:00

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			03/06/23 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		66 - 120			-		03/06/23 17:56	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/07/23 22:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/23 22:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 22:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/23 22:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 22:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/23 22:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			_		03/07/23 22:15	1
4-Bromofluorobenzene (Surr)	84		56 ₋ 136					03/07/23 22:15	1
Toluene-d8 (Surr)	92		78 ₋ 122					03/07/23 22:15	1

73 - 120

99

03/07/23 22:15

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181208-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-181208-1	TRIP BLANK_45	107	86	89	94
240-181208-2	MW-216S_022823	111	85	91	100
240-181208-3	MW-116S_022823	106	84	92	99
240-181210-C-3 MS	Matrix Spike	104	96	98	93
240-181210-F-3 MSD	Matrix Spike Duplicate	104	91	93	96
LCS 240-564517/5	Lab Control Sample	102	91	94	95
MB 240-564517/8	Method Blank	110	87	91	99

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

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-180978-M-5 MS	Matrix Spike	86	
240-180978-N-5 MSD	Matrix Spike Duplicate	89	
240-181208-2	MW-216S_022823	84	
240-181208-3	MW-116S_022823	89	
LCS 240-564390/4	Lab Control Sample	88	
MB 240-564390/6	Method Blank	84	

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

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Job ID: 240-181208-1

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-564517/8

Matrix: Water

Analysis Batch: 564517

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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/07/23 15:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/23 15:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 15:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/23 15:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 15:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/23 15:08	1

	MB MB				
Surrogate %	Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	62 - 137		03/07/23 15:08	1
4-Bromofluorobenzene (Surr)	87	56 - 136		03/07/23 15:08	1
Toluene-d8 (Surr)	91	78 - 122		03/07/23 15:08	1
Dibromofluoromethane (Surr)	99	73 - 120		03/07/23 15:08	1

Lab Sample ID: LCS 240-564517/5

Matrix: Water

Analysis Batch: 564517

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	20.0	17.5		ug/L		88	63 - 134	
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	77 - 123	
Tetrachloroethene	20.0	20.9		ug/L		105	76 - 123	
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	75 - 124	
Trichloroethene	20.0	19.4		ug/L		97	70 - 122	
Vinyl chloride	20.0	19.2		ug/L		96	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	91		56 ₋ 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Analysis Batch: 564517

Lab Sample ID: 240-181210-C-3 MS Client Sample ID: Matrix Spike **Matrix: Water 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	20.0	16.4		ug/L		82	56 - 135	
cis-1,2-Dichloroethene	1.5		20.0	18.6		ug/L		85	66 - 128	
Tetrachloroethene	1.0	U	20.0	19.3		ug/L		97	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	56 - 136	
Trichloroethene	1.0	U	20.0	17.4		ug/L		87	61 - 124	
Vinyl chloride	1.0	U	20.0	18.0		ug/L		90	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	98		78 - 122

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-181208-1

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

Lab Sample ID: 240-181210-C-3 MS

Lab Sample ID: 240-181210-F-3 MSD

Matrix: Water

Analysis Batch: 564517

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate

%Recovery Qualifier Limits Dibromofluoromethane (Surr) 93 73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 564517

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1.0	U	20.0	16.8		ug/L		84	56 - 135	2	26
1.5		20.0	18.9		ug/L		87	66 - 128	2	14
1.0	U	20.0	18.8		ug/L		94	62 - 131	3	20
1.0	U	20.0	19.3		ug/L		96	56 - 136	5	15
1.0	U	20.0	17.4		ug/L		87	61 - 124	0	15
1.0	U	20.0	18.8		ug/L		94	43 - 157	5	24
	Result 1.0 1.5 1.0 1.0 1.0 1.0	Sample Sample Qualifier U	Result Qualifier Added 1.0 U 20.0 1.5 20.0 1.0 U 20.0 1.0 U 20.0 1.0 U 20.0 1.0 U 20.0	Result Qualifier Added Result 1.0 U 20.0 16.8 1.5 20.0 18.9 1.0 U 20.0 18.8 1.0 U 20.0 19.3 1.0 U 20.0 17.4	Result Qualifier Added Result Qualifier 1.0 U 20.0 16.8 1.5 20.0 18.9 1.0 U 20.0 18.8 1.0 U 20.0 19.3 1.0 U 20.0 17.4	Result Qualifier Added Result Qualifier Unit 1.0 U 20.0 16.8 ug/L 1.5 20.0 18.9 ug/L 1.0 U 20.0 18.8 ug/L 1.0 U 20.0 19.3 ug/L 1.0 U 20.0 17.4 ug/L	Result Qualifier Added Result Qualifier Unit D 1.0 U 20.0 16.8 ug/L 1.5 20.0 18.9 ug/L 1.0 U 20.0 18.8 ug/L 1.0 U 20.0 19.3 ug/L 1.0 U 20.0 17.4 ug/L	Result Qualifier Added Result Qualifier Unit D %Rec 1.0 U 20.0 16.8 ug/L 84 1.5 20.0 18.9 ug/L 87 1.0 U 20.0 18.8 ug/L 94 1.0 U 20.0 19.3 ug/L 96 1.0 U 20.0 17.4 ug/L 87	Result Qualifier Added Result Qualifier Unit D %Rec Limits 1.0 U 20.0 16.8 ug/L 84 56 - 135 1.5 20.0 18.9 ug/L 87 66 - 128 1.0 U 20.0 18.8 ug/L 94 62 - 131 1.0 U 20.0 19.3 ug/L 96 56 - 136 1.0 U 20.0 17.4 ug/L 87 61 - 124	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD 1.0 U 20.0 16.8 ug/L 84 56 - 135 2 1.5 20.0 18.9 ug/L 87 66 - 128 2 1.0 U 20.0 18.8 ug/L 94 62 - 131 3 1.0 U 20.0 19.3 ug/L 96 56 - 136 5 1.0 U 20.0 17.4 ug/L 87 61 - 124 0

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

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

Lab Sample ID: MB 240-564390/6

Matrix: Water

Analysis Batch: 564390

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Dil Fac Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/06/23 13:53 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 84 66 - 120 03/06/23 13:53

Lab Sample ID: LCS 240-564390/4

Matrix: Water			Prep Type: Total/NA
Analysis Batch: 564390			
	Snike	LCS LCS	%Rec

Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 10.5 ug/L 105 80 - 122

LCS LCS %Recovery Qualifier Surrogate Limits 66 - 120

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Lab Sample ID: 240-180978-M-5 MS

Matrix: Water

Analysis Batch: 564390

1,2-Dichloroethane-d4 (Surr)

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

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 11.0 ug/L 110 51 - 153

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QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181208-1 Project/Site: Ford LTP - Off Site

MSD MSD

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		66 - 120

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Lab Sample	ID: 240-1	180978-N-5	MSD

Matrix: Water

Analysis Batch: 564390

	Sample	Sample	Spike
Analyte	Result	Qualifier	Added
1,4-Dioxane	2.0	U	10.0
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		66 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

RPD

Result Qualifier Limits RPD Limit Unit D %Rec 11.0 110 51 - 153 0 ug/L

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181208-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 564390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181208-2	MW-216S_022823	Total/NA	Water	8260D SIM	
240-181208-3	MW-116S_022823	Total/NA	Water	8260D SIM	
MB 240-564390/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-564390/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-180978-M-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-180978-N-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 564517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181208-1	TRIP BLANK_45	Total/NA	Water	8260D	
240-181208-2	MW-216S_022823	Total/NA	Water	8260D	
240-181208-3	MW-116S_022823	Total/NA	Water	8260D	
MB 240-564517/8	Method Blank	Total/NA	Water	8260D	
LCS 240-564517/5	Lab Control Sample	Total/NA	Water	8260D	
240-181210-C-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-181210-F-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-181208-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_45

Lab Sample ID: 240-181208-1 Date Collected: 02/28/23 00:00

Matrix: Water

Date Received: 03/02/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	564517	TES	EET CAN	03/07/23 18:04

Client Sample ID: MW-216S_022823 Lab Sample ID: 240-181208-2

Date Collected: 02/28/23 10:40 **Matrix: Water**

Date Received: 03/02/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	564517	TES	EET CAN	03/07/23 21:49
Total/NA	Analysis	8260D SIM		1	564390	BAJ	EET CAN	03/06/23 17:31

Client Sample ID: MW-116S_022823 Lab Sample ID: 240-181208-3

Date Collected: 02/28/23 12:00 **Matrix: Water**

Date Received: 03/02/23 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Number Analyst Туре Run Factor or Analyzed Lab 03/07/23 22:15 Total/NA 8260D 564517 TES EET CAN Analysis Total/NA Analysis 8260D SIM 564390 BAJ EET CAN 03/06/23 17:56 1

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181208-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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	02-27-23 *
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23 *
Illinois	NELAP	200004	07-31-23
lowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23 *
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-23 *
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23 *
Ohio VAP	State	CL0024	02-27-23 *
Oregon	NELAP	4062	02-28-24
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

Eurofins Canton

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Triphone Anniety Triphon	The place Markey Markey The place Markey	Client Contact	Regulatory program: DW	NPDES RCRA Other	or .	
Triphome State Chiefle Weaver Triphome State	The Principle	Company Name: Arcadis				TestAmerica Laboratories, Inc.
Triphone: 14th 15th 15th 15th 15th 15th 15th 15th 15	Triphone 194594-1349	Address: 28668 Cabas Drive Cuite 600	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
	TATION Total Tot	Address: 20220 Cabot Drive, Suite 200	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
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Chain of Custody Record

Eurofins - Canton Sample	Receipt Form/Na	rrative		Login #	:		
Barberton Facility					V Cooler III	apacked by:	^
Client Hradis	72	_ Site Name	200	10	Cooler	граское од	Russ
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FedEx: 1" Grd Exp UP	S FAS Clipper	Client Drop O			Other	0	
Receipt After-hours: Drop-o				age Location			
		Client Cooler		Other			
Packing material used		pam Plastic	-	_			
COOLANT: We		Dry Ice W	ater None		_		
1. Cooler temperature upon- IR GUN # IR-13 (CF -C		Cooler Temp.		fultiple Cooler Frected Cooler		°C	
IR GUN # IR-16 (CF -4		Cooler Temp.			-	-°C	
IR GUN # IR-17 (CF -4	,	Cooler Temp.				℃	
2. Were tamper/custody sea	•				0 -		
-Were the seals on the				Y	0		t are not
-Were tamper/custody s						Receiving	or pH by
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6. Was/were the person(s) w							
7. Did all bottles arrive in go				Ye	No		
8. Could all bottle labels (ID				1 Ne	-/	7	200
9. For each sample, does the	COC specify preserv	vatives (Y/N), #	of container			rab/comp(ו(ועוויצי
10. Were correct bottle(s) use			(No		
11. Sufficient quantity receive				Y			
12. Are these work share sam	ples and all listed on	the COC?		Ye	s 160)		
If yes, Questions 13-17 h			laboratory.		No (NA)	1 Cuin 1 and	HC30384
13. Were all preserved sample		upon receipt?		Ye.		4 Strib Total	ДСЗФЭФ
14. Were VOAs on the COC15. Were air bubbles >6 mm		A Inm	er than this.		No NA		
16. Was a VOA trip blank pr					No.		-
17. Was a LL Hg or Me Hg t			0.11		No		
Contacted PM	Date	by		via Verbal V	oice Mail Oth	व	
Concerning							
Concerning							
			-				
18. CHAIN OF CUSTODY	& SAMPLE DISCI	REPANCIES	U additional	next page	Samples proc	essed by:	
	-						
19. SAMPLE CONDITION							
Sample(s)		were received at	fler the recomi	nended holdi	ng time had exp	ired.	
Sample(s)				vere received	in a broken con	tainer.	
Sample(s)		were rec	eived with bub	oble >6 mm in	diameter. (Not	ify PM)	
20. SAMPLE PRESERVAT	ION						
Sample(s)				were furt	ber preserved in	the labora	tory.
Sample(s) Time preserved:	Preservative(s) add	ed/Lot number(s):		•		
VOA Sample Preservation - I	hate/Time VOAs Froz	zen:					

DATA VERIFICATION REPORT



March 09, 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 - Barberton

Laboratory submittal: 181208-1 Sample date: 2023-02-28

Report received by CADENA: 2023-03-09

Initial Data Verification completed by CADENA: 2023-03-09

Number of Samples:3 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 - Barberton

Laboratory Submittal: 181208-1

		Sample Name:	TRIP BLA	ANK_45			MW-216	5S_0228	23		MW-116	5S_0228	23	
		Lab Sample ID:	2401812	2081			2401812	2082			2401812	2083		
		Sample Date:	2/28/20	23			2/28/20	23			2/28/20	23		
				Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
OSW-826	<u>OD</u>													
	1,1-Dichloroethene	75-35-4	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	
	Tetrachloroethene	127-18-4	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	
	Trichloroethene	79-01-6	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	
OSW-826	<u>ODSIM</u>													
	1,4-Dioxane	123-91-1					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 # 240-181208-1

CADENA Verification Report: 2023-03-09

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49027R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-181208-1 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 Collection		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_45	240-181208-1	Water	02/28/23		Х	
MW-216S_022823	240-181208-2	Water	02/28/23		Х	X
MW-116S_022823	240-181208-3	Water	02/28/23		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
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 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.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

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

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo Acce	Not Required	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					-
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		Х	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE:

DATE: March 22, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 22, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHEAN 070.6

Chain of Custody Record

<u>TestAmerica</u>

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Regulatory program: □ DW Other Client Contact **NPDES** ☐ RCRA Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver ab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of 1 COCs Analysis Turnaround Time Analyses Email: kristoffer.hinskey@arcadis.com For lab use only Phone: 248-994-2240 TAT if different from below Walk-in client Sampler Name: 3 weeks Project Name: Ford LTP Off-Site UTGER Lubasie ≥ 2 weeks Lab sampling Project Number: 30167538.402.04 Method of Shipment/Carrier: 1 week C/Grab=G ane 8260B SIM 2 days cis-1,2-DCE 8260B ☐ 1 day PO#30167538.402.04 Shipping/Tracking No: Job/SDG No: Vinyl Chloride Matrix Containers & Preservatives TCE 8260B PCE 8260B Sample Specific Notes / HN03 HCI **Special Instructions:** Sample Identification Sample Date Sample Time TRIP BLANK G 1 Trip Blank -28-23 3 VOAs for 8260B 6 3 VOAs for 8260B SIM 1200 240-181208 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) → Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Return to Client Archive For Special Instructions/QC Requirements & Comments: Semple Address: 34 851 WadSwith
Submit all results through Cadena at Itomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested Relinquished by: Received by 2-28-23 2-28-23/ 1730 Relinquished by: Relinquished by

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Client: ARCADIS U.S., Inc. Job ID: 240-181208-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_45

Date Collected: 02/28/23 00:00 Date Received: 03/02/23 08:00

Lab Sample ID: 240-181208-1

Lab Sample ID: 240-181208-2

03/06/23 17:31

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			03/07/23 18:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/23 18:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 18:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/23 18:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 18:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/23 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					03/07/23 18:04	1
4-Bromofluorobenzene (Surr)	86		56 - 136					03/07/23 18:04	1
Toluene-d8 (Surr)	89		78 - 122					03/07/23 18:04	1
Dibromofluoromethane (Surr)	94		73 - 120					03/07/23 18:04	1

Client Sample ID: MW-216S 022823

1,4-Dioxane

Date Collected: 02/28/23	10:40					Iviatrix	k: vvater
Date Received: 03/02/23	08:00						
Method: SW846 8260D	SIM - Volatile Organic Compou	nds (GC/M	IS)				
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 03/06/23 17:31 84 66 - 120

2.0

0.86 ug/L

2.0 U

	Tolumb Organio	- opouna	,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/07/23 21:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/23 21:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 21:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/23 21:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 21:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/23 21:49	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137	_		03/07/23 21:49	1
4-Bromofluorobenzene (Surr)	85		56 - 136			03/07/23 21:49	1
Toluene-d8 (Surr)	91		78 - 122			03/07/23 21:49	1
Dibromofluoromethane (Surr)	100		73 - 120			03/07/23 21:49	1

Client Sample ID: MW-116S 022823

Date Collected: 02/28/23 12:00

Date Received: 03/02/23 08:00

Lab Sample ID: 240-181208-3

Matrix: Water

Method: SW846 8260D	SIM - Volati	lle Organic Com	ipounds (GC/MS)	
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Analyte 1,4-Dioxane	Result 2.0	Qualifier	RL 2.0	MDL 0.86	Unit ug/L	<u>D</u>	Prepared	Analyzed 03/06/23 17:56	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		66 - 120					03/06/23 17:56	1

Client: ARCADIS U.S., Inc. Job ID: 240-181208-1

Project/Site: Ford LTP - Off Site

Dibromofluoromethane (Surr)

Date Collected: 02/28/23 12:00 Matrix: Water Date Received: 03/02/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/07/23 22:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/23 22:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 22:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/23 22:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/23 22:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/23 22:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					03/07/23 22:15	1
4-Bromofluorobenzene (Surr)	84		56 ₋ 136					03/07/23 22:15	1
Toluene-d8 (Surr)	92		78 - 122					03/07/23 22:15	1

73 - 120

03/07/23 22:15