

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/6/2023 5:38:00 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-180977-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Canton

Job Notes

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Authorization

Your

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Generated 3/6/2023 5:38:00 AM

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Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		5
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	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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)	13
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)	
TEO	Toxicity Equivalent Quotiont (Dioxin)	

- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Job ID: 240-180977-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-180977-1

Receipt

The samples were received on 2/25/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.4° C and 0.6° C

GC/MS VOA

Method 8260D: The MS/MSD for batch 563874 was not analyzed due to an instrument malfunction.TRIP BLANK_3 (240-180977-1) and MW-140S_022323 (240-180977-3)

Method 8260D_SIM: The MS/MSD for batch 564027 was not analyzed due to an instrument malfunction.MW-140S_022323 (240-180977-3)

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

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

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

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-180977-1	TRIP BLANK_3	Water	02/23/23 00:00	02/25/23 08:00
240-180977-2	MW-139S_022323	Water	02/23/23 11:50	02/25/23 08:00
240-180977-3	MW-140S_022323	Water	02/23/23 12:40	02/25/23 08:00

Detection Summary	·	
Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site	Job ID: 240-180977-1	2
Client Sample ID: TRIP BLANK_3	Lab Sample ID: 240-180977-1	
No Detections.		
Client Sample ID: MW-139S_022323	Lab Sample ID: 240-180977-2	4
No Detections.		5
Client Sample ID: MW-140S_022323	Lab Sample ID: 240-180977-3	6
No Detections.		7
		8
		9
		1

Client Sample ID: TRIP BLANK_3

Date Collected: 02/23/23 00:00 Date Received: 02/25/23 08:00

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			03/01/23 18:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 18:07	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 18:07	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/23 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137			-		03/01/23 18:07	1
4-Bromofluorobenzene (Surr)	123		56 - 136					03/01/23 18:07	1
Toluene-d8 (Surr)	101		78 - 122					03/01/23 18:07	1
Dibromofluoromethane (Surr)	118		73 - 120					03/01/23 18:07	1

Lab Sample ID: 240-180977-1

Matrix: Water

5

Client Sample ID: MW-139S_022323

Date Collected: 02/23/23 11:50 Date Received: 02/25/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/01/23 21:19	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	80	Quanter	66 - 120			-	Troparca	03/01/23 21:19	1	
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS							÷
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/02/23 11:49	1	7
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/02/23 11:49	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/02/23 11:49	1	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/02/23 11:49	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/02/23 11:49	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/02/23 11:49	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	120		62 - 137			-		03/02/23 11:49	1	
4-Bromofluorobenzene (Surr)	123		56 - 136					03/02/23 11:49	1	
Toluene-d8 (Surr)	98		78 - 122					03/02/23 11:49	1	
Dibromofluoromethane (Surr)	111		73 - 120					03/02/23 11:49	1	÷,

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Job ID: 240-180977-1

Lab Sample ID: 240-180977-2 Matrix: Water

Client Sample ID: MW-140S_022323

Date Collected: 02/23/23 12:40 Date Received: 02/25/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/02/23 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		66 - 120			-		03/02/23 14:09	1
Method: SW846 8260D - Volati	ile 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			03/01/23 18:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 18:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 18:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/23 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137			-		03/01/23 18:57	1
4-Bromofluorobenzene (Surr)	124		56 - 136					03/01/23 18:57	1
Toluene-d8 (Surr)	95		78 - 122					03/01/23 18:57	1
Dibromofluoromethane (Surr)	117		73 - 120					03/01/23 18:57	1

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Job ID: 240-180977-1

Lab Sample ID: 240-180977-3 Matrix: Water

BFB

(56-136)

123

123

119

122

124

121

124

123

125

TOL

(78-122)

101

98

100

98

95

98

99

96

98

DCA

(62-137)

119

120

114

111

116

111

113

112

118

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

Client Sample ID

MW-139S_022323

MW-140S 022323

Lab Control Sample

Lab Control Sample

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

Method Blank

Method Blank

MW-139S-MS_022323

MW-139S-MSD_022323

TRIP BLANK_3

Matrix: Water

Lab Sample ID

240-180977-1

240-180977-2

240-180977-3

240-180977-2 MS

240-180977-2 MSD

LCS 240-563874/5

LCS 240-563959/5

MB 240-563874/9

MB 240-563959/11

Matrix: Water

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

DBFM

(73-120)

118

111

110

111

117

111

114

109

116

2 3 4 5 6 7 8 9 10

Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-180977-2	MW-139S_022323	80	
240-180977-2 MS	MW-139S-MS_022323	84	
240-180977-2 MSD	MW-139S-MSD_022323	83	
240-180977-3	MW-140S_022323	86	
LCS 240-563886/4	Lab Control Sample	87	
LCS 240-564027/4	Lab Control Sample	85	
MB 240-563886/6	Method Blank	95	
MB 240-564027/6	Method Blank	83	

Surrogate Legend

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

.

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

Matrix: Water Analysis Batch: 563874

MB	МВ							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.0	U	1.0	0.49	ug/L			03/01/23 14:23	1
1.0	U	1.0	0.46	ug/L			03/01/23 14:23	1
1.0	U	1.0	0.44	ug/L			03/01/23 14:23	1
1.0	U	1.0	0.51	ug/L			03/01/23 14:23	1
1.0	U	1.0	0.44	ug/L			03/01/23 14:23	1
1.0	U	1.0	0.45	ug/L			03/01/23 14:23	1
	Result 1.0 1.0 1.0 1.0 1.0	MB MB Result Qualifier 1.0 U 1.0 U	Result Qualifier RL 1.0 U 1.0 1.0 U 1.0	Result Qualifier RL MDL 1.0 U 1.0 0.49 1.0 U 1.0 0.46 1.0 U 1.0 0.44 1.0 U 1.0 0.51 1.0 U 1.0 0.44 1.0 U 1.0 0.44	Result Qualifier RL MDL Unit 1.0 U 1.0 0.49 ug/L 1.0 U 1.0 0.44 ug/L 1.0 U 1.0 0.51 ug/L 1.0 U 1.0 0.44 ug/L	Result Qualifier RL MDL Unit D 1.0 U 1.0 0.49 ug/L - 1.0 U 1.0 0.46 ug/L - 1.0 U 1.0 0.44 ug/L - 1.0 U 1.0 0.51 ug/L - 1.0 U 1.0 0.44 ug/L -	Result Qualifier RL MDL Unit D Prepared 1.0 U 1.0 0.49 ug/L ug/L ug/L 1.0 0.40 ug/L 1.0 1.0 0.41 ug/L 1.0 1.0 1.0 0.44 ug/L 1.0	Result Qualifier RL MDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 03/01/23 14:23 03/01/23 14:23 1.0 U 1.0 0.46 ug/L 03/01/23 14:23 1.0 U 1.0 0.44 ug/L 03/01/23 14:23 1.0 U 1.0 0.51 ug/L 03/01/23 14:23 1.0 U 1.0 0.51 ug/L 03/01/23 14:23 1.0 U 1.0 0.54 ug/L 03/01/23 14:23 1.0 U 1.0 0.54 ug/L 03/01/23 14:23

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		03/01/23 14:23	1
4-Bromofluorobenzene (Surr)	123		56 - 136		03/01/23 14:23	1
Toluene-d8 (Surr)	96		78 - 122		03/01/23 14:23	1
Dibromofluoromethane (Surr)	109		73 - 120		03/01/23 14:23	1

Lab Sample ID: LCS 240-563874/5 Matrix: Water Analysis Batch: 563874

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.1		ug/L		95	63 - 134	
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	77 - 123	
Tetrachloroethene	20.0	19.9		ug/L		99	76 - 123	
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	75 - 124	
Trichloroethene	20.0	18.9		ug/L		95	70 - 122	
Vinyl chloride	20.0	18.5		ug/L		93	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			62 - 137
4-Bromofluorobenzene (Surr)	121		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	111		73 - 120

Lab Sample ID: MB 240-563959/11 Matrix: Water

Analysis Batch: 563959

	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/02/23 09:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/02/23 09:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/02/23 09:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/02/23 09:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/02/23 09:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/02/23 09:57	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137			-		03/02/23 09:57	1
4-Bromofluorobenzene (Surr)	125		56 - 136					03/02/23 09:57	1
Toluene-d8 (Surr)	98		78 - 122					03/02/23 09:57	1

Prep Type: Total/NA

Client Sample ID: Method Blank

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

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

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

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Lab Sample ID: MB 240-563959/11 Matrix: Water

Analysis Batch: 563959

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		73 - 120		03/02/23 09:57	1

Lab Sample ID: LCS 240-563959/5 Matrix: Water

Analysis Batch: 563959

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene			20.0	21.4		ug/L		107	63 - 134	
cis-1,2-Dichloroethene			20.0	20.9		ug/L		105	77 _ 123	
Tetrachloroethene			20.0	20.9		ug/L		104	76 - 123	
trans-1,2-Dichloroethene			20.0	21.3		ug/L		106	75 - 124	
Trichloroethene			20.0	21.1		ug/L		106	70 - 122	
Vinyl chloride			20.0	21.7		ug/L		108	60 - 144	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	113		62 - 137							
4-Bromofluorobenzene (Surr)	124		56 - 136							
Toluene-d8 (Surr)	99		78 - 122							

Lab Sample ID: 240-180977-2 MS Matrix: Water Analysis Batch: 563959

Dibromofluoromethane (Surr)

Sample Sample MS MS %Rec Spike Result Qualifier Result Qualifier Analyte Added Unit D %Rec Limits 1,1-Dichloroethene 1.0 U 20.0 96 56 - 135 19.2 ug/L cis-1,2-Dichloroethene 1.0 U 20.0 18.7 ug/L 94 66 - 128 20.0 62 - 131 Tetrachloroethene 1.0 U 19.2 96 ug/L trans-1,2-Dichloroethene 1.0 U 20.0 19.0 ug/L 95 56 - 136 Trichloroethene 1.0 U 20.0 19.0 95 61 - 124 ug/L Vinyl chloride 1.0 U 20.0 20.1 ug/L 100 43 - 157

73 - 120

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			62 - 137
4-Bromofluorobenzene (Surr)	119		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	110		73 - 120

Lab Sample ID: 240-180977-2 MSD Matrix: Water Analysis Batch: 563959

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	20.0	21.3		ug/L		106	56 - 135	10	26
cis-1,2-Dichloroethene	1.0	U	20.0	20.1		ug/L		101	66 - 128	7	14
Tetrachloroethene	1.0	U	20.0	19.9		ug/L		99	62 - 131	4	20
trans-1,2-Dichloroethene	1.0	U	20.0	20.7		ug/L		103	56 - 136	9	15
Trichloroethene	1.0	U	20.0	20.0		ug/L		100	61 - 124	5	15

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Client Sample ID: MW-139S-MS_022323 Prep Type: Total/NA

Client Sample ID: MW-139S-MSD_022323 Prep Type: Total/NA

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

Matrix: Water	2 MSD						Client	Sai	mple ID	: MW-139S Prep T	-MSD_0 Type: To	
Analysis Batch: 563959												
	Sample	Sample	Spike	MSD	MSD					%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Vinyl chloride	1.0	U	20.0	19.9		ug/L			100	43 - 157	1	2
0		MSD Over life on	1									
Surrogate 1,2-Dichloroethane-d4 (Surr)	% Recovery	Quaimer	Limits 62 - 137									
4-Bromofluorobenzene (Surr)	122		56 - 136									
Toluene-d8 (Surr)	98		78 - 122									
Dibromofluoromethane (Surr)	111		73 - 120									
			10-120									
lethod: 8260D SIM - Vola	atile Organic	Compou	nds (GC/MS)									
Lab Sample ID: MB 240-5638	886/6								Client S	ample ID:		
Matrix: Water										Prep T	Type: To	tal/N
Analysis Batch: 563886												
		MB MB										
Analyte	Re	esult Qualifier	RL		MDL Unit		D	Pr	epared	Analyz		Dil Fa
1,4-Dioxane		2.0 U	2.0		0.86 ug/L					03/01/23	13:13	
		MB MB										
Surrogate	%Reco	very Qualifier	Limits					Pr	repared	Analyz	ed	Dil F
1,2-Dichloroethane-d4 (Surr)		95	66 - 120							03/01/23		
Lab Sample ID: LCS 240-563	886/4						Cli	ent	Sample	ID: Lab Co	ontrol S	amp
Matrix: Water										Prep T	Type: To	tal/N
										Prep T	Type: To	tal/N
Matrix: Water Analysis Batch: 563886			Spike	LCS	LCS					Prep T %Rec	Гуре: То	tal/N
Analysis Batch: 563886			Spike Added		LCS Qualifier	Unit		D	%Rec		Гуре: То	tal/N
			-			Unit ug/L		<u>D</u>	%Rec 98	%Rec	Гуре: То 	tal/N
Analysis Batch: 563886			Added	Result				<u>D</u>		%Rec Limits	Гуре: То	tal/N
Analysis Batch: 563886 Analyte 1,4-Dioxane	LCS %Recovery		Added	Result				<u>D</u> -		%Rec Limits	Гуре: То	tal/N
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate	%Recovery		Added 10.0 Limits	Result				<u>D</u> -		%Rec Limits	Гуре: То 	tal/N
Analysis Batch: 563886			Added	Result				<u>D</u>		%Rec Limits	Гуре: То	
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr)	87		Added 10.0 Limits	Result			Clier		98	%Rec Limits		
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate	87		Added 10.0 Limits	Result			Clier		98	%Rec Limits 80 - 122 D: MW-139		
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2	87		Added 10.0 Limits	Result			Clier		98	%Rec Limits 80 - 122 D: MW-139	 9S-MS_0	
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water	87	Qualifier	Added 10.0 Limits	Result 9.85			Clier		98	%Rec Limits 80 - 122 D: MW-139	 9S-MS_0	
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water Analysis Batch: 563886	- <u>%Recovery</u> 87 2 MS Sample Result	Qualifier Sample Qualifier	Added 10.0 Limits 66 - 120 Spike Added	Result 9.85	Qualifier		Clier		98	%Rec Limits 80 - 122 D: MW-139 Prep T	 9S-MS_0	
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water Analysis Batch: 563886 Analyte	- <u>%Recovery</u> 87 2 MS Sample	Qualifier Sample Qualifier	Added 10.0 Limits 66 - 120 Spike	Result 9.85	Qualifier	ug/L	Clier	nt S	98 -	%Rec Limits 80 - 122 D: MW-139 Prep T %Rec	 9S-MS_0	
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water	 <u>%Recovery</u> 87 2 MS Sample Result 2.0 	Qualifier Sample Qualifier U	Added 10.0 Limits 66 - 120 Spike Added	Result 9.85 MS Result	Qualifier	ug/L Unit	Clier	nt S	98 ample I %Rec	%Rec Limits 80 - 122 D: MW-139 Prep T %Rec Limits	 9S-MS_0	
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water Analysis Batch: 563886 Analyte 1,4-Dioxane	 <u>%Recovery</u> 87 2 MS Sample Result 2.0 MS 	Qualifier Sample Qualifier U MS	Added 10.0 Limits 66 - 120 Spike Added 10.0	Result 9.85 MS Result	Qualifier	ug/L Unit	Clier	nt S	98 ample I %Rec	%Rec Limits 80 - 122 D: MW-139 Prep T %Rec Limits	 9S-MS_0	
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate	 <u>%Recovery</u> 87 2 MS Sample Result 2.0 	Qualifier Sample Qualifier U	Added 10.0 Limits 66 - 120 Spike Added	Result 9.85 MS Result	Qualifier	ug/L Unit	Clier	nt S	98 ample I %Rec	%Rec Limits 80 - 122 D: MW-139 Prep T %Rec Limits	 9S-MS_0	
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water Analysis Batch: 563886 Analyte	2 MS Sample Result 2.0 MS %Recovery	Qualifier Sample Qualifier U MS	Added 10.0 Limits 66 - 120 Spike Added 10.0 Limits	Result 9.85 MS Result	Qualifier	ug/L Unit	Clier	nt S	98 ample I %Rec	%Rec Limits 80 - 122 D: MW-139 Prep T %Rec Limits	 9S-MS_0	
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr)	2 MS Sample Result 2.0 MS %Recovery 84	Qualifier Sample Qualifier U MS	Added 10.0 Limits 66 - 120 Spike Added 10.0 Limits	Result 9.85 MS Result	Qualifier	ug/L Unit		nt S	98 - 98 - 98 - 98 - 98 - 98 - 98 - 98 -	%Rec Limits 80 - 122 D: MW-139 Prep T %Rec Limits	9S-MS_0 Type: To	2232 tal/N
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water	2 MS Sample Result 2.0 MS %Recovery 84	Qualifier Sample Qualifier U MS	Added 10.0 Limits 66 - 120 Spike Added 10.0 Limits	Result 9.85 MS Result	Qualifier	ug/L Unit		nt S	98 - 98 - 98 - 98 - 98 - 98 - 98 - 98 -	%Rec Limits 80 - 122 D: MW-139 Prep T %Rec Limits 51 - 153	9S-MS_0 Type: To	2232 tal/N
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate	%Recovery 87 2 MS Sample Result 2.0 MS %Recovery 84 2 MSD	Qualifier Sample Qualifier U MS Qualifier	Added 10.0 Limits 66 - 120 Spike Added 10.0 Limits	Result 9.85 MS Result	Qualifier	ug/L Unit		nt S	98 - 98 - 98 - 98 - 98 - 98 - 98 - 98 -	%Rec Limits 80 - 122 D: MW-139 Prep T %Rec Limits 51 - 153	-MSD_0	2232 tal/N
Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water Analysis Batch: 563886 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-180977-2 Matrix: Water	 <u>%Recovery</u> 87 2 MS Sample Result 2.0 MS <u>%Recovery</u> 84 2 MSD Sample 	Qualifier Sample Qualifier U MS Qualifier	Added 10.0 Limits 66 - 120 Spike Added 10.0 Limits	MS Result 10.3	Qualifier	ug/L Unit		nt S	98 - 98 - 98 - 98 - 98 - 98 - 98 - 98 -	%Rec Limits 80 - 122 D: MW-139 Prep T %Rec Limits 51 - 153	-MSD_0	2232 tal/N

10

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

Lab Sample ID: 240-180977- Matrix: Water	2 MSD								Client	Sa	mple ID	: MW-139S-MSD Prep Type:	
Analysis Batch: 563886													
	MSD	MSD											
Surrogate	%Recovery	Qual	ifier	Limits									
1,2-Dichloroethane-d4 (Surr)	83			66 - 120									
Lab Sample ID: MB 240-5640	027/6										Client S	ample ID: Metho	d Blank
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 564027													
		ΜВ	MB										
Analyte	Re	esult	Qualifier	RL		MDL	Unit		D	Pi	repared	Analyzed	Dil Fac
1,4-Dioxane		2.0	U	2.0		0.86	ug/L					03/02/23 12:56	1
		ΜВ	МВ										
Surrogate	%Reco	very	Qualifier	Limits						PI	repared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		83		66 - 120								03/02/23 12:56	7
Lab Sample ID: LCS 240-564	4027/4								Clie	ent	Sample	ID: Lab Control	Sample
Matrix: Water												Prep Type:	
Analysis Batch: 564027													
				Spike	LCS	LCS						%Rec	
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits	
1,4-Dioxane				10.0	10.5			ug/L			105	80 - 122	
	LCS	LCS											
Surrogate	%Recovery	Qual	ifier	Limits									
1,2-Dichloroethane-d4 (Surr)	85			66 - 120									

Matrix

Water

Water Water

Water

Method

8260D 8260D

8260D

8260D

Prep Batch

GC/MS VOA

Lab Sample ID	Client Sample ID	Prep Type
240-180977-1	TRIP BLANK_3	Total/NA
240-180977-3	MW-140S_022323	Total/NA
MB 240-563874/9	Method Blank	Total/NA
LCS 240-563874/5	Lab Control Sample	Total/NA

Analysis Batch: 563886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-180977-2	MW-139S_022323	Total/NA	Water	8260D SIM	
MB 240-563886/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-563886/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-180977-2 MS	MW-139S-MS_022323	Total/NA	Water	8260D SIM	
240-180977-2 MSD	MW-139S-MSD_022323	Total/NA	Water	8260D SIM	

Analysis Batch: 563959

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-180977-2	MW-139S_022323	Total/NA	Water	8260D	
MB 240-563959/11	Method Blank	Total/NA	Water	8260D	
LCS 240-563959/5	Lab Control Sample	Total/NA	Water	8260D	
240-180977-2 MS	MW-139S-MS_022323	Total/NA	Water	8260D	
240-180977-2 MSD	MW-139S-MSD_022323	Total/NA	Water	8260D	
-					

Analysis Batch: 564027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-180977-3	MW-140S_022323	Total/NA	Water	8260D SIM	
MB 240-564027/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-564027/4	Lab Control Sample	Total/NA	Water	8260D SIM	

5

12

Client Sample ID: TRIP BLANK_3 Lab Sample ID: 240-180977-1 Date Collected: 02/23/23 00:00 Matrix: Water Date Received: 02/25/23 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 8260D EET CAN 03/01/23 18:07 Total/NA Analysis 563874 НМВ 1 Lab Sample ID: 240-180977-2 Client Sample ID: MW-139S_022323 Date Collected: 02/23/23 11:50 Matrix: Water Date Received: 02/25/23 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 563959 HMB EET CAN 03/02/23 11:49 Analysis 1 Total/NA Analysis 8260D SIM BAJ EET CAN 03/01/23 21:19 1 563886 Client Sample ID: MW-140S_022323 Lab Sample ID: 240-180977-3 Date Collected: 02/23/23 12:40 Matrix: Water Date Received: 02/25/23 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst or Analyzed Lab 03/01/23 18:57 Total/NA 8260D 563874 HMB EET CAN Analysis 1

1

564027 BAJ

03/02/23 14:09

EET CAN

Laboratory References:

Total/NA

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

8260D SIM

Analysis

Eurofins Canton

Accreditation/Certification Summary

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

Laboratory: Eurofins Canton

aboratory: Eurofins Can I accreditations/certifications held by the		ions/certifications are applicable to this report	<u>.</u>	
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	

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

Test	TestAmerica Laboratory location: Brighton	- 1	448 Citation	Drive, Suite	10448 Citation Drive. Suite 200 / Brighton, MI 48116 / 810-229-2763	n. MI 48116	3 / 810-22	9-2763						
Client Contact	Regulatory program:	L.,	DW	- NPDES	- RC	RCRA	Other							
Company Name: Arcadis	Client Project Manager: Kris Hins	Hinskey	8	ite Contact:	Site Contact: Christina Weaver	eaver		Lab Cc	Lab Contact: Mike DelMonico	like DelN	Ionico		TestAmerica Laboratories, Inc. COC No:	ratories, In
Address: 28550 Labot Drive, Suite Sou City/State/Zio: Novi, MI, 48377	Telephone: 248-994-2240			Telephone: 248-994-2240	48-994-2240			Teleph	Telephone: 330-497-9396	497-939			1 of 1	COC
	Email: kristoffer.hinskey@arcadis	cadis.com		Analysis	Analysis Turnaround Time	Time	Ľ		╟	N N	Analyses		For lab use only	
Project Name: Ford LTP Off-Site	Sampler Name:	Tuinu		TAT if different from below	from below 3 weeks								Walk-in client	
Project Number: 30167538.402.04	Method of Shipment/Carrier:			APD 01	1 - 1				80			_	Sundunes open	
	Shipping/Tracking No:				- 1 day	/ <u>/</u>) •]d	C/ Crap		CE 8560				Job/SDG No:	
Sample Identification	Sample Date Sample Time	viA surosupA billo2	Oditier:	HCI Gutaine Gontaine Containe	Containers & Preservation XaADH & Anoth & Anot	Others 3	7,1-DCE 826 Composite=C	cis-1'S-DCE	PCE 8260B	TCE 82608	Vinyl Chloride		Sample Specific Notes / Special Instructions:	c Notes / uctions:
TRIP BLANK_3	2/23/23	-		-		~	х U Z	×	××	×	×		1 Trip Blank	
MW-1395_022323	2/23/23/150	2		6		4	NGX	×	XX	X	××		3 VOAs for 8260B 3 VOAs for 8260B SIM	60B 60B SIM
mw-1395-M5.02222	2/23/23/1150	7		9		~	NCX	X	XX	×	XX		0	Councy
ESERTO-050-6661-MM	2/23/23 1150	9		9		~	NGX	X	XX	×	X X		+	MSD
mw-1405-022323	2/23/23/240	9		9		~	NGX	X	X	×	××			
										F	\vdash			
							1 1		dy	Custo	chain of	240-180977 Chain of Custody		
			1				1							
							Ē							
Possible Hazard Identification	Poison B			Sample Dis	e Disposal (A fee may Return to Client	ă.	assessed if samples are retained longer than 1 month) Disnotal By Lab C Archive For Mo	uples are	retained	longer th	an 1 mont	nth) Months		
ommen o St			1											
WINN.	Company: Ar radis Company:	Date/Time: D/AH/29 Date/Time: 2174 173		800	Received by: Nouri Received by:	Gerd	t	401age	26	Company: Company:	A C	d:5	Date/Time: 2/24/25 Date/Time: 7/24/72	1800
lutton	Company:	Date/Time:	m	24:00	Recchercher	red in Laboratory by:		12	1		石	DC DC	Diefin Sil	3 800
A LALED	FD/H	192	m	10.45	ラ	anna	Z	2	1		4]2	12-401	\cap

Eurofins - Canton Sample Receipt Form/Narrative Login # :
Client ArCo Vi Site Name Scooler unpacked by:
Cooler Received on 2-25-23 Opened on 2-27-23 Journ Ver 4
FedEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location
Eurofins Cooler # Foam Box Client Cooler Box Other Packing material used: Bubble Wrap Foam Plastic Bag None Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None
1. Cooler temperature upon receipt K See Multiple Cooler Form
IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp. C Corrected Cooler Temp. °C
IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp°C Corrected Gooler Temp°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Cach Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA 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? 3 Shippers' packing slip attached to the cooler(s)? Yes No NA
St. Shappens packing shp anached to the cooler(s)?
 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? Yes No Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC?
7. Did all bottles arrive in good condition (Unbroken)?
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?
10. Were correct bottle(s) used for the test(s) indicated?
11. Sufficient quantity received to perform indicated analyses?
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? Tes No (NA) pH Strip Lot# HC203864
13. Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC?
15. Were air bubbles >6 mm in any VOA vials? Larger than this. A Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Overed (Yes No
17. Was a LL Hg or Me Hg trip blank present?Yes No
Contacted PM Date by via Verbal Voice Mail Other
Concerning
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES U additional next page Samples processed by:
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired. Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory.
Sample(s)
VOA Sample Preservation - Date/Time VOAs Frozen:

Login # : _

Cooler	Deserin4!		Sample Receipt Mu		Coolant
	Description ircle)	IR Gun #	Observed	Corrected	(Circle)
		(Circle)	Temp °C	Temp °C	Wellice Bluelice Dry L
EC Client	Box Other	IR-13 IR-16 IR-17	0.6	0.4	Woler None
EC Client	Box Other	IR-13 IR-16 IR-17	0.8	0.6	Wet ice Blue ice By in Water None
EC Client	Box Other	R-13 R-16 R-17			Wellice Blue Ice Dy In Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dy ic Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dy Ic Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dy ic
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dy Ic
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet ice Blue ice Dry ic
EC Client	Box Other	R-13 R-16 R-17			Water None Wet Ice Blue Ice Dry Ic
EC Client	Box Other	R-13 R-16 R-17			Water None Wet Ice Dive Ice Dry Ic
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet ice Blue ice Dy ic
EC Client	Box Other	R-13 R-16 R-17			Water None Wet Ice Stee Ice Dry Ice
EC Client	Box Other	R-13 R-16 R-17			Water None Wet ice Blue ice Dy ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dy Ice
EC Client	Box Other	R-13 R-16 R-17			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	R-13 R-16 R-17			Water Rone Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	R-13 R-16 R-17			Water None Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water Note Wet ice Blue ice Dry ice Water None
EC Client	Box Other	R-13 IR-16 IR-17			Wellice Bluelice Drylce
EC Client	Box Other	R-13 R-16 R-17			Water None Wet ice Dive ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wat Ice Sive Ice Dry Ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	R-13 R-16 R-17			Water None Wet ice Sive ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	IR-13 HR-16 IR-17			Water None Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet ice Blue ice Dry ice
- Gildini		1		See Temp	Water None erature Excursion Form

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

DATA VERIFICATION REPORT



March 07, 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: 30146655.402.04 off-site Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory submittal: 180977-1 Sample date: 2023-02-23 Report received by CADENA: 2023-03-06 Initial Data Verification completed by CADENA: 2023-03-07 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.

The following minor QC exceptions or missing information were noted:

GCMS VOC SIM QC batch MS/MSD issues as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
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: 180977-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401809 2/23/20	9771			MW-139 2401809 2/23/20	9772	23		MW-140 2401809 2/23/20	9773	23	
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC														
<u>OSW-82</u>	260D													
	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	
<u>OSW-82</u>	60DSIM													
	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 # 240-180977-1 CADENA Verification Report: 2023-03-07

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49034R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-180977-1 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	ample Analy VOC X X X X	VOC SIM
TRIP BLANK_3	240-180977-1	Water	02/23/23		х	
MW-139S_022323	240-180977-2	Water	02/23/23		Х	Х
MW-140S_022323	240-180977-3	Water	02/23/23		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

 Requested analyses and sample results Master tracking list Methods of analysis Reporting limits Sample collection date Laboratory sample received date Sample preservation verification (as applicable) Sample preparation/extraction/analysis dates Fully executed Chain-of-Custody (COC) form 	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
1. Sample receipt condition		Х		Х	
2. Requested analyses and sample results		Х		Х	
3. 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	
9. Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
11. Narrative summary of Quality Assurance or sample problems provided		х		Х	
12. Data Package Completeness and Compliance		Х		Х	

DATA REVIEW

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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
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		Х		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:	Dilip Kumar
SIGNATURE:	Perting
DATE:	March 24, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 24, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record



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

	Client Contact	Regulat	lory program:		5	DV	v	Г	NP	DES		-	RCI	RA	Г	Ot	her													
	Company Name: Arcadis	Client Project	Manager: Kris	Hinske	v		_	Sit	te Con	tact:	: Chr	istina	a We	aver	_	-	-	Lab	Conta	ct: Mi	ke De	Monie	0				TestAme		aboratories	L Ine
	Address: 28550 Cabot Drive, Suite 500																													
	City/State/Zip: Novi, MI, 48377	Telephone: 248						1.6	elepha									Tele	phone	: 330-								of 1	COCs	_
	Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.c	om				Ana	lysis	Tur	narou	und 1	Time	-			T	1	-	/ 	naly	ses			1	For lab use	only		
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	PO # 30167538.402.04	Shipping/Track	ting No:									1 da			Sample (Y / N)	C/Grabed	8	3260E	E 82			8260B	8260B				Job/SDG N	lo:		
					M	atrix	T	+	Co	ntaine	ers &	Prese	ervati	iver	- S	lite=0	826	NOCE	2-DC	808	SOB	loride	ane							
	Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H2SO4	FONH	HCI	NaOH	ZaAc/ NaOH	Unpres	Other:	Filtered	Cempos	1.1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE	PCE 8260B	TCE 8260B	Vinyl Chloride	1.4-Dioxane						ecific Notes . structions:	1
G	TRIP BLANK_3	2/23/23			1			Τ		1		Γ			N	G	s ×	X	X	X	X	X			Τ	T	1 Trip	o Bla	nk	
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Page 356 of 358	mw-1395-MSD-022323	2/23/23	1150		6					6					N	6	X	X	X	X	X	X	X					4	_ MSD	
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Client Sample ID: TRIP BLANK_3

Date Collected: 02/23/23 00:00

Date Received: 02/25/23 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			03/01/23 18:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 18:07	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 18:07	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/23 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzea	Dii Fac
1,2-Dichloroethane-d4 (Surr)	119	62 - 137		03/01/23 18:07	1
4-Bromofluorobenzene (Surr)	123	56 - 136		03/01/23 18:07	1
Toluene-d8 (Surr)	101	78 - 122		03/01/23 18:07	1
Dibromofluoromethane (Surr)	118	73 - 120		03/01/23 18:07	1

Client Sample ID: MW-139S 022323 **Date Collected Date Receive**

Client Sample ID: MW-139S_022323							Lab Sample ID: 240-180977-2				
Date Collected: 02/23/23 11:		-	Matrix	Water							
Date Received: 02/25/23 08:0	0										
Method: SW846 8260D SIM	- Volatile Orga	anic Compou	unds (GC/M	S)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/01/23 21:19	1		

1,4-Dioxane	2.0	0	2.0	0.86 ug/L		03/01/23 21:19	1
Surrogate %F	Recovery 80	Qualifier	Limits 66 - 120		Prepared	Analyzed 03/01/23 21:19	Dil Fac

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/02/23 11:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/02/23 11:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/02/23 11:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/02/23 11:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/02/23 11:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/02/23 11:49	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120	62 - 137		03/02/23 11:49	1
4-Bromofluorobenzene (Surr)	123	56 - 136		03/02/23 11:49	1
Toluene-d8 (Surr)	98	78 - 122		03/02/23 11:49	1
Dibromofluoromethane (Surr)	111	73 - 120		03/02/23 11:49	1

Client Sample ID: MW-140S 022323 Date Collected: 02/23/23 12:40 Date Received: 02/25/23 08:00

Method: SW846 8260D SIN	I - Volatile Org	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			03/02/23 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		66 - 120					03/02/23 14:09	1

Matrix: Water

Lab Sample ID: 240-180977-3

Lab Sample ID: 240-180977-1 Matrix: Water

Client Sample ID: MW-140S_022323

Date Collected: 02/23/23 12:40 Date Received: 02/25/23 08:00

Lab Sample ID: 240-180977-3 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			03/01/23 18:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 18:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 18:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/23 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137					03/01/23 18:57	1
4-Bromofluorobenzene (Surr)	124		56 - 136					03/01/23 18:57	1
Toluene-d8 (Surr)	95		78 - 122					03/01/23 18:57	1
Dibromofluoromethane (Surr)	117		73 - 120					03/01/23 18:57	1