

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 8/21/2024 7:42:19 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-209338-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	4
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
S1+	Surrogate recovery exceeds control limits, high biased.	5
U	Indicates the analyte was analyzed for but not detected.	
Glossary		6
Abbreviation	These commonly used abbreviations may or may not be present in this report.	7
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	8
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	9
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)	13
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	

TNTC Too Numerous To Count

Job ID: 240-209338-1

Job ID: 240-209338-1

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Job Narrative 240-209338-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 8/13/2024 9:30 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 3.6°C and 4.2°C.

GC/MS VOA

Method 8260D_SIM: The surrogate failed in the MS, effected sample are (240-209337-E-2 MS). The MS was used for batch QC only.

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

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

Protocol References:

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

Laboratory References:

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

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-209338-1	TRIP BLANK_40	Water	08/09/24 00:00	08/13/24 09:30
240-209338-2	MW-35_080924	Water	08/09/24 10:30	08/13/24 09:30

Detection Summary

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_40

Lab Sample ID: 240-209338-1

No Detections.

Client Sample ID: MW-35_080924

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
1,4-Dioxane	3.3	2.0	0.86	ug/L	1	8260D SIM	Total/NA
Vinyl chloride	0.82 J	1.0	0.45	ug/L	1	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Job ID: 240-209338-1

Lab Sample ID: 240-209338-2

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_40

Date Collected: 08/09/24 00:00 Date Received: 08/13/24 09:30

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			08/16/24 13:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 13:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 13:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 13:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 13:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			-		08/16/24 13:52	1
4-Bromofluorobenzene (Surr)	94		56 _ 136					08/16/24 13:52	1
Toluene-d8 (Surr)	97		78 - 122					08/16/24 13:52	1
Dibromofluoromethane (Surr)	95		73 - 120					08/16/24 13:52	1

Job ID: 240-209338-1

Matrix: Water

Lab Sample ID: 240-209338-1

Client Sample ID: MW-35_080924

Date Collected: 08/09/24 10:30 Date Received: 08/13/24 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.3		2.0	0.86	ug/L			08/19/24 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		68 - 127			-		08/19/24 13:33	1
Method: SW846 8260D - Volati	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			08/16/24 16:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 16:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 16:30	1
rans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 16:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 16:30	1
Vinyl chloride	0.82	J	1.0	0.45	ug/L			08/16/24 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137			-		08/16/24 16:30	1
4-Bromofluorobenzene (Surr)	84		56 - 136					08/16/24 16:30	1
Toluene-d8 (Surr)	86		78 - 122					08/16/24 16:30	1
Dibromofluoromethane (Surr)	88		73 - 120					08/16/24 16:30	1

8/21/2024

Job ID: 240-209338-1

Lab Sample ID: 240-209338-2 Matrix: Water

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

Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM Lab Sample ID Client Sample ID (62-137) (56-136) (78-122) (73-120) TRIP BLANK_40 240-209338-1 104 94 97 95 240-209338-2 MW-35_080924 94 84 86 88 240-209367-C-6 MS Matrix Spike 92 97 92 95 240-209367-C-6 MSD Matrix Spike Duplicate 95 99 97 100 LCS 240-623588/5 Lab Control Sample 92 97 92 96 MB 240-623588/9 Method Blank 95 82 86 88 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

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(68-127)		
240-209337-E-2 MS	Matrix Spike	131 S1+		
240-209337-E-2 MSD	Matrix Spike Duplicate	127		
240-209338-2	MW-35_080924	119		
LCS 240-623779/4	Lab Control Sample	107		
MB 240-623779/6	Method Blank	113		

Surrogate Legend

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

8/21/2024

Prep Type: Total/NA 5

9

13

Prep Type: Total/NA

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

Lab Sample ID: MB 240-623588/9	Lab Sample	ID: MB	240-623588/9
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Matrix: Water Analysis Batch: 623588

	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			08/16/24 12:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 12:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 12:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 12:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 12:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 12:24	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		08/16/24 12:24	1
4-Bromofluorobenzene (Surr)	82		56 _ 136		08/16/24 12:24	1
Toluene-d8 (Surr)	86		78 - 122		08/16/24 12:24	1
Dibromofluoromethane (Surr)	88		73 - 120		08/16/24 12:24	1

Lab Sample ID: LCS 240-623588/5 Matrix: Water Analysis Batch: 623588

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	21.3		ug/L		85	63 - 134	
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	77 - 123	
Tetrachloroethene	25.0	23.9		ug/L		96	76 - 123	
trans-1,2-Dichloroethene	25.0	21.7		ug/L		87	75 - 124	
Trichloroethene	25.0	24.1		ug/L		97	70 - 122	
Vinyl chloride	12.5	12.3		ug/L		98	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-209367-C-6 MS Matrix: Water Analysis Batch: 623588

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	5.0	U	125	95.2		ug/L		76	56 - 135
cis-1,2-Dichloroethene	5.0	U	125	107		ug/L		86	66 - 128
Tetrachloroethene	100		125	203		ug/L		80	62 - 131
trans-1,2-Dichloroethene	5.0	U	125	102		ug/L		81	56 - 136
Trichloroethene	5.0	U	125	108		ug/L		86	61 - 124
Vinyl chloride	5.0	U	62.5	57.7		ug/L		92	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1.2 Diablaraathana d1 (Surr)		-	60 107						

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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

10

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Matrix: Water	-C-6 MS								Client	Sample ID: Prep T	Matrix	
Analysis Batch: 623588												
	MS	MS										
Surrogate	%Recovery	Qualifie	er	Limits								
Dibromofluoromethane (Surr)	95			73 - 120								
Leb Comple ID: 240 200267	0 6 M8D							Client		. Matula Ca	ike Du	
Lab Sample ID: 240-209367- Matrix: Water	-C-6 MSD							Client	sample IL): Matrix Sp Prep T	іке Dup ype: To	
Analysis Batch: 623588										i i cp i	ypc. 10	
,,	Sample	Sample		Spike	MSD	MSD				%Rec		RF
Analyte	Result	Qualifie	r	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lin
1,1-Dichloroethene	5.0	U		125	91.7		ug/L		73	56 - 135	4	:
cis-1,2-Dichloroethene	5.0	U		125	105		ug/L		84	66 - 128	2	
Tetrachloroethene	100			125	192		ug/L		71	62 - 131	5	2
trans-1,2-Dichloroethene	5.0	U		125	97.6		ug/L		78	56 - 136	4	1
Trichloroethene	5.0	U		125	101		ug/L		81	61 - 124	6	1
Vinyl chloride	5.0	U		62.5	54.7		ug/L		87	43 - 157	5	2
	MSD	MSD										
Surrogate		Qualifie	er	Limits								
1,2-Dichloroethane-d4 (Surr)	95			62 - 137								
4-Bromofluorobenzene (Surr)	99			56 - 136								
Toluene-d8 (Surr)	97			78 - 122								
Dibromofluoromethane (Surr)	100			73_120								
Method: 8260D SIM - Vol Lab Sample ID: MB 240-623		Com	poun	ds (GC/MS)					Client S	Sample ID: I		
Lab Sample ID: MB 240-623 Matrix: Water		Com	poun	ds (GC/MS)					Client S	-	Method ype: To	
Lab Sample ID: MB 240-623 Matrix: Water	779/6		-	ds (GC/MS)					Client S	-		
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779	779/6	MB MI	в	ds (GC/MS)		MDL Unit		D		Prep T	уре: То	tal/N
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte	779/6		в			MDL Unit		D	Client S	-	ype: To	tal/N Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte	779/6 	MB MI sult Qu 2.0 U	B ualifier					<u>D</u>		Prep T	ype: To	tal/N Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane	779/6 Re:	MB MI sult Qu 2.0 U MB Mi	B ualifier B	RL 2.0					Prepared	Prep T Analyz 08/19/24 1	ype: To ed 10:25	tal/N
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte	779/6 	MB MI sult Qu 2.0 U MB Mi	B ualifier B							Prep T	ype: To ed 10:25 -	tal/N Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr)	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu	B ualifier B						Prepared Prepared	Analyz 08/19/24 Analyz 08/19/24 08/19/24	ed 10:25 -	tal/N Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-623	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu	B ualifier B						Prepared Prepared	Analyz 08/19/24 Analyz 08/19/24 08/19/24 08/19/24 08/19/24	ype: To ed 10:25 10:25	tal/N Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-623 Matrix: Water	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu	B ualifier B						Prepared Prepared	Analyz 08/19/24 Analyz 08/19/24 08/19/24 08/19/24 08/19/24	ed 10:25 -	tal/N Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-623 Matrix: Water	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu	B ualifier B			0.86 ug/L			Prepared Prepared	Analyz 08/19/24 Analyz 08/19/24 08/19/24 08/19/24 08/19/24	ype: To ed 10:25 10:25	tal/N Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr)	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu	B ualifier B						Prepared Prepared	Analyz 08/19/24 Analyz 08/19/24 08/19/24 08/19/24 08/19/24	ype: To ed 10:25 10:25	Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-62: Matrix: Water Analysis Batch: 623779	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu	B ualifier B	RL 2.0 	LCS Result	0.86 ug/L	Unit		Prepared Prepared	Prep T 	ype: To ed 10:25 10:25	Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-62: Matrix: Water Analysis Batch: 623779 Analyte	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu	B ualifier B		LCS	0.86 ug/L	Unit ug/L	Clier	Prepared Prepared	Analyze 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 Where The test of the test of	ype: To ed 10:25 10:25	tal/N Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-62: Matrix: Water Analysis Batch: 623779 Analyte	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu 113	B ualifier B	RL 2.0 	LCS Result	0.86 ug/L		Clier	Prepared Prepared nt Sample %Rec	Analyz 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 WRec Limits	ype: To ed 10:25 10:25	tal/N Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-62: Matrix: Water Analysis Batch: 623779 Analyte	779/6 Re: %Recov 3779/4	MB MI sult Qu 2.0 U MB MI rery Qu 113	B ualifier B ualifier	RL 2.0 	LCS Result	0.86 ug/L		Clier	Prepared Prepared nt Sample %Rec	Analyz 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 WRec Limits	ype: To ed 10:25 10:25	Dil Fa Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane Surrogate	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu 113	B ualifier B ualifier	RL 2.0 2.0 68 - 127 68 - 127 68 - 127 127 10.0	LCS Result	0.86 ug/L		Clier	Prepared Prepared nt Sample %Rec	Analyz 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 WRec Limits	ype: To ed 10:25 10:25	tal/N Dil Fa Dil Fa
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr)	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu 113	B ualifier B ualifier	RL 2.0 2.0 	LCS Result	0.86 ug/L		Clier	Prepared Prepared nt Sample	Analyz 08/19/24 10: Limits 75 - 121	ype: To ed 10:25	tal/N. Dil Fa Dil Fa ampl tal/N.
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-209337-	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu 113	B ualifier B ualifier	RL 2.0 2.0 	LCS Result	0.86 ug/L		Clier	Prepared Prepared nt Sample	Analyz 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 WRec Limits 75 - 121 Sample ID:	ed 0:25 – ed 10:25 – ontrol S ype: To 	tal/N Dil Fa Dil Fa ampl tal/N
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-209337- Matrix: Water	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu 113	B ualifier B ualifier	RL 2.0 2.0 	LCS Result	0.86 ug/L		Clier	Prepared Prepared nt Sample	Analyz 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 WRec Limits 75 - 121 Sample ID:	ype: To ed 10:25	tal/N. Dil Fa Dil Fa ampl tal/N, Spik
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr)	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu 113	B ualifier B ualifier	RL 2.0 Limits 68 - 127 Spike Added 10.0 Limits 68 - 127	LCS Result 7.84	0.86 ug/L		Clier	Prepared Prepared nt Sample	Analyz 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 08/19/24 1 WRec Limits 75 - 121 Sample ID:	ed 0:25 – ed 10:25 – ontrol S ype: To 	tal/N/ Dil Fa Dil Fa ample tal/N/
Lab Sample ID: MB 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-623 Matrix: Water Analysis Batch: 623779 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-209337- Matrix: Water	779/6 	MB MI sult Qu 2.0 U MB MI rery Qu 113 LCS Qualifie Sample	B ualifier B ualifier	RL 2.0 2.0 	LCS Result 7.84	0.86 ug/L LCS Qualifier		Clier	Prepared Prepared nt Sample <u>%Rec</u> 78 Client	Analyze 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 08/19/24 OB/19/24 Sample ID: Prep T	ed 0:25 – ed 10:25 – ontrol S ype: To 	tal/N/ Dil Fa Dil Fa ample tal/N/

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8/21/2024

Eurofins Cleveland

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	131	S1+	68 - 127								
Lab Sample ID: 240-209337-	E-2 MSD					c	lient Sa	ample IC): Matrix Sp	oike Dup	licate
Matrix: Water									Prep T	ype: To	tal/NA
Analysis Batch: 623779											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.36		ug/L		94	20 - 180	14	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	127		68 - 127								

Eurofins Cleveland

GC/MS VOA

Analysis Batch: 623588

240-209337-E-2 MSD

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-209338-1	TRIP BLANK_40	Total/NA	Water	8260D	
240-209338-2	MW-35_080924	Total/NA	Water	8260D	
MB 240-623588/9	Method Blank	Total/NA	Water	8260D	
LCS 240-623588/5	Lab Control Sample	Total/NA	Water	8260D	
240-209367-C-6 MS	Matrix Spike	Total/NA	Water	8260D	
240-209367-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
Analysis Batch: 62377		Draw Torre	Maduite	Mathad	Duon Dotob
Lab Sample ID 240-209338-2	Client Sample ID MW-35 080924	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
	-				
MB 240-623779/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-623779/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-209337-E-2 MS	240-209337-E-2 MS Matrix Spike		Water	8260D SIM	

Total/NA

Water

8260D SIM

Job ID: 240-209338-1

Matrix: Water

Client Sample ID: TRIP BLANK_40 Date Collected: 08/09/24 00:00 Date Received: 08/13/24 09:30 Dilution Batch Batch Batch Method Prep Type Туре Run Factor Number Analyst Lab Total/NA 8260D 623588 MDH EET CLE Analysis 1 Client Sample ID: MW-35_080924

Lab Sample ID: 240-209338-2 Matrix: Water

Prepared

or Analyzed

08/16/24 13:52

Lab Sample ID: 240-209338-1

Date Collected: 08/09/24 10:30 Date Received: 08/13/24 09:30

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623588	MDH	EET CLE	08/16/24 16:30
Total/NA	Analysis	8260D SIM		1	623779	MS	EET CLE	08/19/24 13:33

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

13

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date				
California	State	2927	02-28-25				
Georgia	State	4062	02-27-25				
Illinois	NELAP	200004	08-31-25				
lowa	State	421	06-01-25				
Kentucky (UST)	State	112225	02-27-25				
Kentucky (WW)	State	KY98016	12-30-24				
Minnesota	NELAP	039-999-348	12-31-24				
New Jersey	NELAP	OH001	07-03-25				
New York	NELAP	10975	04-02-25				
Ohio VAP	State	ORELAP 4062	02-27-25				
Oregon	NELAP	4062	02-27-25				
Pennsylvania	NELAP	68-00340	08-31-25				
Texas	NELAP	T104704517-22-19	08-31-24				
USDA	US Federal Programs	P330-18-00281	01-05-27				
Virginia	NELAP	460175	09-14-24				
West Virginia DEP	State	210	12-31-24				

Eurofins Cleveland



Chain of Custody Record

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact	Regulat	tory program	:	ſ	DW		T NE	PDES	ſ	RCR/	۹.	Γ Ο	Other												
Company Name: Arcadis	Client Project I	Manager: Kris	Hinsk	ev			Site Co	ntact:	Christi	na Weav	ver			La	b Conta	ict: M	ike Del	Monic	:0		_			TestAmerica Labor	ratories,
ddress: 28550 Cabot Drive, Suite 500				-,																					
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				Ì	Teleph							1.61	ephone	:: 330-								1 of 1	COCs
hone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.c	com			An	alysis	Turnar	ound Tin	ne		H	-	-		A	nalys	ses		r		<u> </u>	For lab use only	
	Sampler Name			·			TATite	lifferent i	rom belo	v veeks														Walk-in client	-
roject Name: Ford LTP		iyam H		m			10 c	lay	2	veeks														Lab sampling	
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Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H12504 HN03	HCI	NaOH ZhAd	Unpres	5	File	Ŝ	cis-	Tra	PCI	TCE	, Či	1,4					Special Instru	ctions.
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pecial Instructions/QC Requirements & Comments:																									
ubmit all results through Cadena at jtomalia@caden evel IV Reporting requested.	aco.com. Cadena #E	203728																							
elinquished by: Maryam Kanant,) Company:	18	1	Date/T	ime: 1/24	1	1530	2	Receiv	d by	roid	St	enreg	e,			Com	pany TO	dii				_	Date/Time 8/9/24	530
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2008, TestAmerica Laboratories, Inc. All rights reserved. InstAmerica & Design ¹⁹⁸ are trademarks of TestAmerica Laboratories, Inc.																									

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18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: 19 SAMPLE CONDITION	g/MeHg)? ied on the COC? C? C? containers (JN), an ban this.	Chent If Grd Grd Site Name Opened on Site Name Cooler Received on F. / J - J/ Opened on Site Name Opened on Site Name FedEx: 1* Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other Receipt After-hours Drop-off Date/Time Storage Location Storage Location Eurofins Cooler # Foam Box Client Cooler Box Other Packing material used. Bduble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None Other 1 Cooler temperature upon receipt It See Multiple Cooler Form See Multiple Cooler Form 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No Tests that are not -Were the seals on the outside of the cooler(s) signed & dated? Yes No Tests that are not
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WI-NC-099-062024 Cooler Receipt Form.doc

8/13/2024

Login Container Summary Report

14

Temperature readings

MW-35_080924	MW-35_080924	MW-35_080924	MW-35_080924	MW-35_080924	MW-35_080924	TRIP BLANK_40	Client Sample ID
240-209338-G-2	240-209338-E-2	240-209338-D-2	240-209338-C-2	240-209338-B-2	240-209338-A-2	240-209338-A-1	Lab ID
Voa Vial 40ml - Hydrochloric Acid	Container Type						
							Container Preservation Preservation pH Temp Added Lot Number

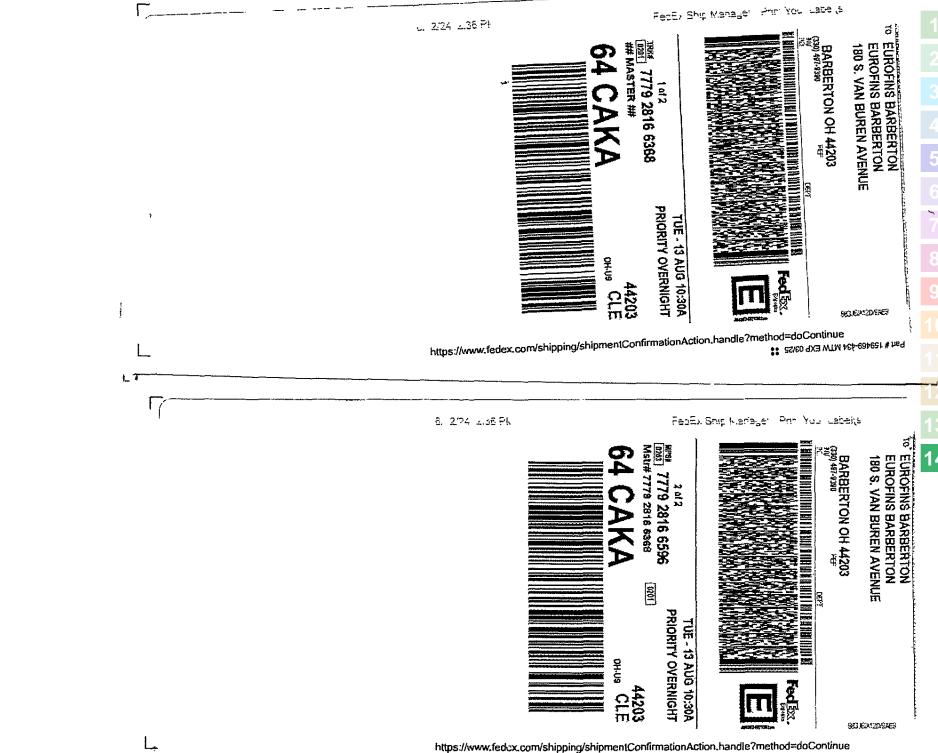
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Login # : ____

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Coolant (Circle)	Corrected Temp °C	Observed Temp °C	IR Gun # (Circle)	scription le)	Cooler Description (Circle)	0 0
	Itiple Cooler Form	Eurofins = Cleveland Sample Receipt Multiple Cooler Form	-Eurofins - Clevelan			

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W1-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers



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15

8/21/2024



Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

					w		NPDE	5		RC			Othe	ar											TestAmerica Laboratories
Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Telephone: 248-994-2240 Telephone: 33								t: Ch	ristin	a We	aver				Lab Contact: Mike DelMonico					COC No:					
Telephone: 248	-994-2240					Tele	phone:	248-9	994-22	240	_				Telep	none:	330-49	7-939	96		-	_			h
														P 5	_				1 of 1 COCs For lab use only						
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	Sampler Name: MW Method of Ship Shipping/Track Sample Date ZjQ/24	Sampler Name: MUYAM H Method of Shipment/Carrier: Shipping/Tracking No: Sample Date Sample Time 	Sampler Name: <u>MAYAM</u> HAWi Method of Shipment/Carrier: Shipping/Tracking No: <u>Sample Date</u> Sample Time $\stackrel{>}{=}$ <u></u> <u>3</u> /9/24 1030	Maryam Hanawi Method of Shipment/Carrier: Shipping/Tracking No: Sample Date Sample Time 3imple Date Sample Time 1 3imple Date Imple Date 3imple Date Imple Date 1 3imple Date Imple Date Imple Date	Sampler Name: MUYAM HANDUM Method of Shipment/Carrier: Shipping/Tracking No: Sample Date Sample Time $\frac{1}{2}$ $\frac{100}{90}$ $\frac{100}$	Sampler Name: <u>MUVYAM HAWAWM</u> Method of Shipment/Carrier: Shipping/Tracking No: <u>Sample Date</u> Sample Time <u><u><u></u></u> <u><u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> 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Sample(s)	19 SAMPLE CONDITION 19 Sample(s) were received after the recommended holding time had expired. Sample(s) were received after the recommended holding time had expired. Sample(s) were received after the recommended holding time had expired. Sample(s) were received after the received in a broken container Sample(s) were received with bubble >6 mm in diameter (Notify PMI)	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by	10 was a von up brank present in the control of it in priank not rYes (in 17 Was a LL Hg or Me Hg trip blank present?Yes (in 2000) Contacted PM Date by via Verbal Voice Mail Other Concerning	Were all preserved sample(s) at the correct pH upon receipt? Yes Were VOAs on the COC? Yes Were air bubbles >6 mm in any VOA vials? I Larger than this Yes Were VIA the block recent is the collector? The Block Lot #	 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9 For each sample, does the COC specify preservatives (VN), # of containers (VN), and sample type of grab/comp(VN)? 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? 13. If yes Objections 13-17 have been checked at the orientation laboratory 	Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottles arrive in good condition (Unbroken)?	er/custody seals on the outside of the cooler(s)? If Yes Quantity YES No e seals on the outside of the cooler(s) signed & dated? mper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes XO mper/custody seals intact and uncompromised? Yes No NA	ox Client Cooler Box Foam Plastic Bag N Ice Dry Ice Water I C Observed Cooler Te	Barberton Facility Barberton Facility Client Coler Received on Cooler uppacked by Cooler Received on Site Name Cooler Received on Cooler uppacked by FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other Receipt After-hours Drop-off Date/Time Storage Location Storage Location
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HT-NC-099
Cooler Receipt
Form Page
2 – Multiple Coo
lers

Cooler Description IR Gun # Observed Corrected Coolant (Circle) (Circle) Temp °C Temp °C (Circle) Ec client box Other IR GUN #: Image: Content in the second cont
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## 9 14

## Login Container Summary Report

8/21/2024

240-209338

### Temperature readings

8/13/2024

| MW-35_080924                      | MW-35_080924                      | MW-35_080924                      | MW-35_080924                      | MW-35_080924                      | MW-35_080924                      | TRIP BLANK_40                     | <u>Client Sample ID</u>                                         |
|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------------------------------------|
| 240-209338-G-2                    | 240-209338-E-2                    | 240-209338-D-2                    | 240-209338-C-2                    | 240-209338-B-2                    | 240-209338-A-2                    | 240-209338-A-1                    | Lab ID                                                          |
| Voa Vial 40ml - Hydrochloric Acıd | Voa Vial 40ml - Hydrochloric Acid | Voa Vial 40ml - Hydrochloric Acid | Voa Vial 40ml - Hydrochlorıc Acıd | Voa Vial 40ml - Hydrochloric Acid | Voa Vial 40ml - Hydrochloric Acıd | Voa Vial 40ml - Hydrochloric Acid | Container Type                                                  |
|                                   |                                   |                                   |                                   |                                   |                                   |                                   | Container Preservation Preservation<br>pH Temp Added Lot Number |

### **DATA VERIFICATION REPORT**



August 21, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728 Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil Project number: 30206169.0401.04\_WA-02 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 209338-1 Sample date: 2024-08-09 Report received by CADENA: 2024-08-20 Initial Data Verification completed by CADENA: 2024-08-21 Number of Samples:2 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 MS surrogate recovery outliers did not result in qualification of client sample data.

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

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

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <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<br>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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 209338-1

|                 |                          | Sample Name:   |         | ANK_40 |       |           | MW-35_  |        |       |           |
|-----------------|--------------------------|----------------|---------|--------|-------|-----------|---------|--------|-------|-----------|
|                 |                          | Lab Sample ID: | 240209  | 3381   |       |           | 240209  |        |       |           |
|                 |                          | Sample Date:   | 8/9/202 | 4      |       |           | 8/9/202 |        |       |           |
|                 |                          |                |         | Report |       | Valid     |         | Report |       | Valid     |
|                 | Analyte                  | Cas No.        | Result  | Limit  | Units | Qualifier | Result  | Limit  | Units | Qualifier |
|                 |                          |                |         |        |       |           |         |        |       |           |
| GC/MS VOC       |                          |                |         |        |       |           |         |        |       |           |
| <u>OSW-8260</u> | <u>)D</u>                |                |         |        |       |           |         |        |       |           |
|                 | 1,1-Dichloroethene       | 75-35-4        | 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  |           |
|                 | Tetrachloroethene        | 127-18-4       | 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  |           |
|                 | Trichloroethene          | 79-01-6        | ND      | 1.0    | ug/l  |           | ND      | 1.0    | ug/l  |           |
|                 | Vinyl chloride           | 75-01-4        | ND      | 1.0    | ug/l  |           | 0.82    | 1.0    | ug/l  | J         |
| <u>OSW-8260</u> | DSIM                     |                |         |        |       |           |         |        |       |           |
|                 | 1,4-Dioxane              | 123-91-1       |         |        |       |           | 3.3     | 2.0    | ug/l  |           |