PREPARED FOR

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

Generated 3/8/2024 7:26:32 AM

JOB DESCRIPTION

Ford LTP - On Site

JOB NUMBER

240-200283-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - On Site Laboratory Job ID: 240-200283-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

Qualifiers

GC/MS VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

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

Job ID: 240-200283-1 Eurofins Cleveland

Job Narrative 240-200283-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 3/1/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C.

GC/MS VOA

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

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Job ID: 240-200283-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - On Site

Job ID: 240-200283-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200283-1	TRIP BLANK_92	Water	02/28/24 00:00	03/01/24 08:00
240-200283-2	MW-221S_022824	Water	02/28/24 10:30	03/01/24 08:00
240-200283-3	MW-50_022824	Water	02/28/24 12:10	03/01/24 08:00
240-200283-4	MW-62 022824	Water	02/28/24 14:00	03/01/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

Client Sample ID: TRIP BLANK_92 Lab Sample ID: 240-200283-1

No Detections.

Client Sample ID: MW-221S_022824 Lab Sample ID: 240-200283-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
cis-1,2-Dichloroethene	3.5	1.0	0.46 ug/L	1	8260D	Total/NA

Client Sample ID: MW-50_022824 Lab Sample ID: 240-200283-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.1		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	40		1.0	0.45	ug/L	1		8260D	Total/NA

Lab Sample ID: 240-200283-4 Client Sample ID: MW-62_022824

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.2		2.0	0.86	ug/L	1	_	8260D SIM	Total/NA
Vinyl chloride	1.3		1.0	0.45	ug/L	1		8260D	Total/NA

Client: Arcadis U.S., Inc. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

Client Sample ID: TRIP BLANK_92

Lab Sample ID: 240-200283-1 Date Collected: 02/28/24 00:00

Matrix: Water

Date Received: 03/01/24 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			03/06/24 18:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/24 18:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/24 18:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/24 18:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/24 18:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/24 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		03/06/24 18:45	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					03/06/24 18:45	1
Toluene-d8 (Surr)	103		78 - 122					03/06/24 18:45	1
Dibromofluoromethane (Surr)	96		73 - 120					03/06/24 18:45	1

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Client: Arcadis U.S., Inc. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

Date Received: 03/01/24 08:00

Client Sample ID: MW-221S_022824

Lab Sample ID: 240-200283-2 Date Collected: 02/28/24 10:30

Matrix: Water

Method: SW846 8260D SIM - V	/olatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/06/24 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		68 - 127			_		03/06/24 16:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/06/24 23:21	1
cis-1,2-Dichloroethene	3.5		1.0	0.46	ug/L			03/06/24 23:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/24 23:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/24 23:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/24 23:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/24 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		03/06/24 23:21	1
4-Bromofluorobenzene (Surr)	83		56 ₋ 136					03/06/24 23:21	1
Toluene-d8 (Surr)	103		78 - 122					03/06/24 23:21	1
Dibromofluoromethane (Surr)	97		73 - 120					03/06/24 23:21	1

Client: Arcadis U.S., Inc. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

Client Sample ID: MW-50_022824

Lab Sample ID: 240-200283-3 Date Collected: 02/28/24 12:10

Matrix: Water

Date	Received:	03/01/24	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			03/06/24 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		68 - 127			-		03/06/24 16:56	1
Method: SW846 8260D - Volat		_		MDI	Unit	n	Prenared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL		<u>D</u> .	Prepared	Analyzed	Dil Fac
Analyte		Qualifier			Unit ug/L	<u>D</u> .	Prepared	Analyzed 03/06/24 23:46	Dil Fac
Analyte 1,1-Dichloroethene	Result	Qualifier	RL	0.49		<u>D</u> .	Prepared	·	Dil Fac
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0	Qualifier U		0.49 0.46	ug/L	<u> </u>	Prepared	03/06/24 23:46	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 5.1	Qualifier U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u> -	Prepared	03/06/24 23:46 03/06/24 23:46	Dil Fac 1 1 1 1
Method: SW846 8260D - Volat Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene	Result 1.0 5.1 1.0	Qualifier U U	1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	<u>D</u> .	Prepared	03/06/24 23:46 03/06/24 23:46 03/06/24 23:46	Dil Fac 1 1 1 1 1 1 1

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 104 62 - 137 4-Bromofluorobenzene (Surr) 83 56 - 136 Toluene-d8 (Surr) 103 78 - 122 Dibromofluoromethane (Surr) 99 73 - 120	03/06/24 23:46	1
4-Bromofluorobenzene (Surr) 83 56 - 136 Toluene-d8 (Surr) 103 78 - 122	Prepared Analyzed Dil Fa	ас
Toluene-d8 (Surr) 103 78 - 122	03/06/24 23:46	1
	03/06/24 23:46	1
Dibromofluoromethane (Surr) 99 73 - 120	03/06/24 23:46	1
=	03/06/24 23:46	1

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Client: Arcadis U.S., Inc. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

Date Received: 03/01/24 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-62_022824

Date Collected: 02/28/24 14:00

102

97

Lab Sample ID: 240-200283-4 Matrix: Water

03/07/24 00:11

03/07/24 00:11

Method: SW846 8260D SIM - V	olatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.2		2.0	0.86	ug/L			03/06/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		03/06/24 17:19	1
- Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/07/24 00:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/24 00:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 00:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/24 00:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 00:11	1
Vinyl chloride	1.3		1.0	0.45	ug/L			03/07/24 00:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			-		03/07/24 00:11	1
4-Bromofluorobenzene (Surr)	84		56 ₋ 136					03/07/24 00:11	1

78 - 122

73 - 120

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

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

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recove		
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-200283-1	TRIP BLANK_92	103	85	103	96	
240-200283-2	MW-221S_022824	102	83	103	97	
240-200283-3	MW-50_022824	104	83	103	99	
240-200283-4	MW-62_022824	104	84	102	97	
240-200286-B-5 MS	Matrix Spike	98	104	104	97	
240-200286-B-5 MSD	Matrix Spike Duplicate	99	106	104	97	
LCS 240-605219/4	Lab Control Sample	97	100	104	95	
MB 240-605219/6	Method Blank	104	86	104	95	

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-200283-2	MW-221S_022824	95	
240-200283-3	MW-50_022824	90	
240-200283-4	MW-62_022824	108	
240-200285-B-3 MS	Matrix Spike	98	
240-200285-B-3 MSD	Matrix Spike Duplicate	96	
LCS 240-605115/4	Lab Control Sample	97	
MB 240-605115/6	Method Blank	93	

Surrogate Legend

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

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Client: Arcadis U.S., Inc. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

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

Lab Sample ID: MB 240-605219/6

Matrix: Water

Analysis Batch: 605219

Client Sam	ple ID:	Method	Blank
	Prep '	Type: To	tal/NA

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 03/06/24 18:20 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/06/24 18:20 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/06/24 18:20 trans-1,2-Dichloroethene 1.0 U 1.0 03/06/24 18:20 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 03/06/24 18:20 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/06/24 18:20

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		03/06/24 18:20	1
4-Bromofluorobenzene (Surr)	86		56 - 136		03/06/24 18:20	1
Toluene-d8 (Surr)	104		78 - 122		03/06/24 18:20	1
Dibromofluoromethane (Surr)	95		73 - 120		03/06/24 18:20	1

Lab Sample ID: LCS 240-605219/4

Matrix: Water

Analysis Batch: 605219

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	20.6		ug/L		82	63 - 134	
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	77 - 123	
Tetrachloroethene	25.0	23.0		ug/L		92	76 - 123	
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	75 - 124	
Trichloroethene	25.0	22.2		ug/L		89	70 - 122	
Vinyl chloride	12.5	9.83		ug/L		79	60 - 144	

LCS LCS

Surrogate	%Recovery Qu	ualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Lab Sample ID: 240-200286-B-5 MS

Matrix: Water

Analysis Batch: 605219

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1000	U	25000	19300		ug/L		77	56 - 135	
cis-1,2-Dichloroethene	5600		25000	29300		ug/L		95	66 - 128	
Tetrachloroethene	1000	U	25000	22300		ug/L		89	62 - 131	
trans-1,2-Dichloroethene	1000	U	25000	21900		ug/L		88	56 - 136	
Trichloroethene	1000	U	25000	21800		ug/L		87	61 - 124	
Vinyl chloride	2600		12500	10800		ug/L		66	43 - 157	

MS MS

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

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Job ID: 240-200283-1

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

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

Lab Sample ID: 240-200286-B-5 MS

Lab Sample ID: 240-200286-B-5 MSD

Matrix: Water

Analysis Batch: 605219

Dibromofluoromethane (Surr)

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate

%Recovery Qualifier Limits 97 73 - 120

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 605219

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1000	U	25000	20000		ug/L		80	56 - 135	4	26
cis-1,2-Dichloroethene	5600		25000	29700		ug/L		97	66 - 128	1	14
Tetrachloroethene	1000	U	25000	21700		ug/L		87	62 - 131	3	20
trans-1,2-Dichloroethene	1000	U	25000	22800		ug/L		91	56 - 136	4	15
Trichloroethene	1000	U	25000	21900		ug/L		88	61 - 124	1	15
Vinyl chloride	2600		12500	11100		ug/L		68	43 - 157	3	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 99 62 - 137 106 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 104 78 - 122 Dibromofluoromethane (Surr) 97 73 - 120

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

Lab Sample ID: MB 240-605115/6

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 605115

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

Client Sample ID: Lab Control Sample

Limits

75 - 121

Dil Fac Result Qualifier RL MDL Unit Prepared Analyzed 2.0 U 2.0 0.86 ug/L 03/06/24 10:57

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 93 68 - 127 03/06/24 10:57

Lab Sample ID: LCS 240-605115/4

Matrix: Water			Prep Type: Total/NA
Analysis Batch: 605115			
	Spike	LCS LCS	%Rec

Analyte Added Result Qualifier Unit D %Rec 1,4-Dioxane 10.0 8.36 ug/L LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 97

Lab Sample ID: 240-200285-B-3 MS	Client S	Sample ID: Matrix Spike
Matrix: Water		Prep Type: Total/NA
Analysis Batch: 605115		
		a. =

Sample Sample Spike %Rec MS MS Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 8.45 ug/L 84 20 - 180

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued))
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	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		68 - 127

_		
Lab Sample	ID: 240-2002	85-B-3 MSD

Matrix: Water

Analysis Batch: 605115

1,2-Dichloroethane-d4 (Surr)

Tanan Care Care	Sample	Sample	Spike	MSD	MSD				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.0	U	10.0	8.98		ug/L		90	20 - 180
	MSD	MSD							
Surrogate	%Recovery	Qualifier	l imits						

68 - 127

Prep Type: Total/NA

RPD

6

Client Sample ID: Matrix Spike Duplicate

RPD

Limit 20

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

GC/MS VOA

Analysis Batch: 605115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200283-2	MW-221S_022824	Total/NA	Water	8260D SIM	
240-200283-3	MW-50_022824	Total/NA	Water	8260D SIM	
240-200283-4	MW-62_022824	Total/NA	Water	8260D SIM	
MB 240-605115/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605115/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200285-B-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200285-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 605219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200283-1	TRIP BLANK_92	Total/NA	Water	8260D	
240-200283-2	MW-221S_022824	Total/NA	Water	8260D	
240-200283-3	MW-50_022824	Total/NA	Water	8260D	
240-200283-4	MW-62_022824	Total/NA	Water	8260D	
MB 240-605219/6	Method Blank	Total/NA	Water	8260D	
LCS 240-605219/4	Lab Control Sample	Total/NA	Water	8260D	
240-200286-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-200286-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

Client Sample ID: TRIP BLANK_92

Lab Sample ID: 240-200283-1 Date Collected: 02/28/24 00:00

Matrix: Water

Date Received: 03/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605219	CDG	EET CLE	03/06/24 18:45

Client Sample ID: MW-221S_022824 Lab Sample ID: 240-200283-2

Date Collected: 02/28/24 10:30 **Matrix: Water**

Date Received: 03/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605219	CDG	EET CLE	03/06/24 23:21
Total/NA	Analysis	8260D SIM		1	605115	MDH	EET CLE	03/06/24 16:31

Client Sample ID: MW-50_022824 Lab Sample ID: 240-200283-3

Date Collected: 02/28/24 12:10 Matrix: Water

Date Received: 03/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605219	CDG	EET CLE	03/06/24 23:46
Total/NA	Analysis	8260D SIM		1	605115	MDH	EET CLE	03/06/24 16:56

Client Sample ID: MW-62_022824 Lab Sample ID: 240-200283-4

Date Collected: 02/28/24 14:00 **Matrix: Water**

Date Received: 03/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			605219	CDG	EET CLE	03/07/24 00:11
Total/NA	Analysis	8260D SIM		1	605115	MDH	EET CLE	03/06/24 17:19

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. Job ID: 240-200283-1

Project/Site: Ford LTP - On Site

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24 *
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
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

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

27/27 Test

Chain of Custody Record

TestAmeric	<u>a</u>
THE LEADER IN ENVIRONMENTAL TEST	ING

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

Client Contact	Regula	tory program	:	_ DW		N	PDES	1	RCR	A	□ 0	Other												
Company Name: Areadis	Cliest Project	.y		Site Contact: Christina Weaver								Lab Contact: Mike DelMonico								TestAmerica Laboratories, Inc				
Address: 28550 Cabot Drive, Suite 500	Talanhana 249	7.1.1																						
City/State/Zip: Novi, MI, 48377		Telephone: 248-994-2240 Engil: kristoffer.hinskey@arcadis.com					Telephone: 248-994-2240 Asalysis Tures round Time						1 en	Telephone: 330-497-9396 An alyses								1 of 1 COCs		
Phone: 248-994-2240	SI-N					TAT if different from below														Walk-in client	-			
Project Name: Ford LTP On-Site	Sam pier Nam e	Sampler Name: [aviett Link						3 weeks															-	
Project Number: 301 67538.401.03		Method of Shipment/Carrier:					- 1						٥				Mis					Lab sampling	š	
PO # 301 67538.401.03	Shipping/Track	Shipping/Tracking No:					HOSOH HOSOH LOOP TO THE CONTRIBUTION OF THE CO					00928	E 8260			82600	C 60D			4		Job/SDG No:	4	
			Matrix					ers & Preservatives			red Samp	Composite=C/	cis-12-DCE 8		PCE 82600	82 60D	Vinyl Chloride 8260D	1,4-Dioxane 82 60D SIM					Sg mple Speci	fic Notes/
Sample Identification	Sample Date	Sample Time	ξį	Aquoss Sediment Solid	Other:	H2SO4	ΗÇ	NaOF	Napres Uspres	Office	Filtered	8 :	cis-1,	Trans	PCE	TCE	Vinyl	1,4-D					Special I ast	ructions:
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MW-2218-022824	2/28/24	1030		03			1//	50 2	73/24		N	3 X	(×	(X	X	×	X	\times					3-VOAs for 8	260D 0.A
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MW-62-022824	2/28/24	HOD		6			6				Ne	3, >	×	X	X	×	×	×					<u> </u>	-
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Special Instructions/QC Requirements & Comments:											7	,	-											
Submit all results through Cadena at jtomalia@caden: Level IV Reporting requested.	eco.com. Cadena #E	203728																						
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Rejumpuished the January	Company.	Company Date/Time: 2/29/24					1210 Received by Ment						D.	Company:						Date/Time: 2/29/24 /2mm				
Relinquished by:	Company:	D	I	Daye/Time:	24	120)M	Receiv		borator			Yes			Comp	any:	-NC					Date/Time! 03/01/24	aser

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DATA VERIFICATION REPORT



March 08, 2024

Kris Hinskey Arcadis of Michigan 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE -Soil Gas, Ground water and Soil

Project number: 30167538.401.03

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

Laboratory submittal: 200283-1 Sample date: 2024-02-28

Report received by CADENA: 2024-03-08

Initial Data Verification completed by CADENA: 2024-03-08

Number of Samples:4

Sample Matrices: Water and trip blank

Test Categories: GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200283-1

		Sample Name: Lab Sample ID:	TRIP BLA 2402002	2831			MW-221 2402002	2832	4		MW-50_ 2402002	2833						
		Sample Date:	2/28/202			Valid	2/28/202	Valid	2/28/202			2/28/2024 Valid Report				Valid		
		.		Report		Valid		Report		Valid		Report				Report		
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																		
OSW-826	<u>60D</u>																	
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		3.5	1.0	ug/l		5.1	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		40	1.0	ug/l		1.3	1.0	ug/l	
OSW-826	60DSIM																	
	1.4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l		2.2	2.0	ug/l	