JOB DESCRIPTION

PREPARED FOR

Attn: Kristoffer Hinskey

Novi, Michigan 48377

Generated 3/12/2024 9:24:41 AM

Arcadis U.S., Inc. 28550 Cabot Drive

Suite 500

ANALYTICAL REPORT

Ford LTP - Off Site

JOB NUMBER

240-200371-1

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

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200371-1

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Definitions/Glossary

Job ID: 240-200371-1 Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - Off Site

Qualifiers GC/MS VOA

Qualifier **Qualifier Description**

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

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

EPA recommended "Maximum Contaminant Level" MCL 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 **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

Case Narrative

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

Job ID: 240-200371-1 Eurofins Cleveland

Job Narrative 240-200371-1

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 3/2/2024 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 2.4°C and 3.8°C.

GC/MS VOA

Method 8260D: The MSD for batch 240-605521 was analyzed outside of the tune time, due to an instrument fault. This is a batch QC sample; therefore, the data have been reported.

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: 240-200371-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200371-1

Project/Site: Ford LTP - Off 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 - Off Site

Job ID: 240-200371-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200371-1	TRIP BLANK_89	Water	02/29/24 00:00	03/02/24 08:00
240-200371-2	MW-123S_022924	Water	02/29/24 15:40	03/02/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200371-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-200371-1

No Detections.

Client Sample ID: MW-123S_022924 Lab Sample ID: 240-200371-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200371-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-200371-1 Date Collected: 02/29/24 00:00

Matrix: Water

Date Received: 03/02/24 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			03/08/24 21:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 21:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 21:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 21:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 21:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			_		03/08/24 21:09	1
4-Bromofluorobenzene (Surr)	83		56 ₋ 136					03/08/24 21:09	1
Toluene-d8 (Surr)	99		78 - 122					03/08/24 21:09	1
Dibromofluoromethane (Surr)	95		73 - 120					03/08/24 21:09	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200371-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-123S_022924

Date Collected: 02/29/24 15:40 Date Received: 03/02/24 08:00 Lab Sample ID: 240-200371-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/08/24 04:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			-		03/08/24 04:55	1
Method: SW846 8260D - Volat		•		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL		Unit	<u>D</u> _	Prepared	Analyzed	Dil Fac
		Qualifier			Unit ug/L	<u>D</u> .	Prepared	Analyzed 03/09/24 00:05	Dil Fac
Analyte	Result	Qualifier U	RL		ug/L	<u> </u>	Prepared	·	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49	ug/L ug/L	<u>D</u> -	Prepared	03/09/24 00:05	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46	ug/L ug/L ug/L	<u> </u>	Prepared	03/09/24 00:05 03/09/24 00:05	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0 1.0	0.49 0.46 0.44	ug/L ug/L ug/L ug/L	<u> </u>	Prepared	03/09/24 00:05 03/09/24 00:05 03/09/24 00:05	Dil Fac 1 1 1 1 1 1

Vinyl chloride	1.0 U	1.0	0.45 ug/L		03/09/24 00:05	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	62 - 137			03/09/24 00:05	1
4-Bromofluorobenzene (Surr)	83	56 ₋ 136			03/09/24 00:05	1
Toluene-d8 (Surr)	100	78 - 122			03/09/24 00:05	1
Dibromofluoromethane (Surr)	97	73 - 120			03/09/24 00:05	1

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200371-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-200371-1	TRIP BLANK_89	102	83	99	95
240-200371-2	MW-123S_022924	106	83	100	97
240-200378-C-2 MS	Matrix Spike	98	103	103	97
240-200378-C-2 MSD	Matrix Spike Duplicate	96	101	104	95
LCS 240-605521/4	Lab Control Sample	98	103	105	97
MB 240-605521/31	Method Blank	106	92	103	99
0					

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	
_ab Sample ID	Client Sample ID	(68-127)	
240-200367-F-2 MS	Matrix Spike	115	
240-200367-F-2 MSD	Matrix Spike Duplicate	114	
240-200371-2	MW-123S_022924	112	
_CS 240-605381/4	Lab Control Sample	106	
MB 240-605381/6	Method Blank	107	

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

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Job ID: 240-200371-1

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

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

Lab Sample ID: MB 240-605521/31

Matrix: Water

Analysis Batch: 605521

Client Sample ID: Method BI	ank
Prep Type: Total	/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 03/08/24 19:44 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/08/24 19:44 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/08/24 19:44 trans-1,2-Dichloroethene 1.0 U 1.0 03/08/24 19:44 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 03/08/24 19:44 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/08/24 19:44

MB MB

Surrogate	%Recovery Qu	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	62 - 137		03/08/24 19:44	1
4-Bromofluorobenzene (Surr)	92	56 ₋ 136		03/08/24 19:44	1
Toluene-d8 (Surr)	103	78 - 122		03/08/24 19:44	1
Dibromofluoromethane (Surr)	99	73 - 120		03/08/24 19:44	1

Lab Sample ID: LCS 240-605521/4

Matrix: Water

Analysis Batch: 605521

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	23.7		ug/L		95	63 - 134	
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	77 - 123	
Tetrachloroethene	25.0	25.3		ug/L		101	76 - 123	
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	75 - 124	
Trichloroethene	25.0	23.8		ug/L		95	70 - 122	
Vinyl chloride	12.5	11.9		ug/L		95	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	103		56 ₋ 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-200378-C-2 MS

Matrix: Water

Analysis Batch: 605521

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	25.0	25.7		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	25.7		ug/L		103	66 - 128	
Tetrachloroethene	1.0	U	25.0	23.5		ug/L		94	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	25.8		ug/L		103	56 - 136	
Trichloroethene	1.0	U	25.0	23.0		ug/L		92	61 - 124	
Vinyl chloride	1.0	U	12.5	9.22		ug/L		74	43 - 157	

MS MS

Surrogate	%Recovery Q	ualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	103		56 ₋ 136
Toluene-d8 (Surr)	103		78 - 122

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-200371-1

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

Lab Sample ID: 240-200378-C-2 MS

Matrix: Water

Analysis Batch: 605521

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

%Recovery Qualifier

Surrogate Limits Dibromofluoromethane (Surr) 97 73 - 120

Lab Sample ID: 240-200378-C-2 MSD **Matrix: Water**

Analysis Batch: 605521

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

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U 25.0 23.6 ug/L 95 56 - 135 8 26 cis-1,2-Dichloroethene 10 U 25.0 99 66 - 128 24 7 ug/L 14 4 Tetrachloroethene 1.0 U 25.0 24.0 ug/L 96 62 - 131 20 ug/L 15 trans-1.2-Dichloroethene 1.0 U 25.0 24.8 99 56 - 136 Trichloroethene 1.0 U 25.0 23.1 ug/L 92 61 - 124 0 15 Vinyl chloride 1.0 U 12.5 10.8 ug/L 43 - 157 24 16

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

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

Lab Sample ID: MB 240-605381/6

Matrix: Water

Analysis Batch: 605381

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Limits

75 - 121

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/07/24 21:19

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 107 68 - 127 03/07/24 21:19

Lab Sample ID: LCS 240-605381/4

Analyte

1,4-Dioxane

Matrix: Water Prep Type: Total/NA Analysis Batch: 605381 Spike LCS LCS %Rec

Result

10.5

Qualifier

Unit

ug/L

LCS LCS %Recovery Qualifier Surrogate Limits

106

Lab Sample ID: 240-200367-F-2 MS

Matrix: Water

Analysis Batch: 605381

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: Matrix Spike

%Rec

105

D

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 11.6 ug/L 116 20 - 180

Added

68 - 127

10.0

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200371-1 Project/Site: Ford LTP - Off Site

> MSD MSD Result Qualifier

> > 11.4

Unit

ug/L

D

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

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

_		
Lab Sample	ID: 240-200367	-F-2 MSD

Matrix: Water

Analysis Batch: 605381

	Sample	Sample	Spike
Analyte	Result	Qualifier	Added
1,4-Dioxane	2.0	U	10.0
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		68 - 127

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

RPD Limits RPD Limit %Rec 114

20 - 180 2 20

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200371-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 605381

Lab Sample ID 240-200371-2	Client Sample ID MW-123S 022924	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-605381/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605381/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200367-F-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200367-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 605521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200371-1	TRIP BLANK_89	Total/NA	Water	8260D	<u> </u>
240-200371-2	MW-123S_022924	Total/NA	Water	8260D	
MB 240-605521/31	Method Blank	Total/NA	Water	8260D	
LCS 240-605521/4	Lab Control Sample	Total/NA	Water	8260D	
240-200378-C-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-200378-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200371-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-200371-1 Date Collected: 02/29/24 00:00

Matrix: Water

Date Received: 03/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605521	CDG	EET CLE	03/08/24 21:09

Client Sample ID: MW-123S_022924 Lab Sample ID: 240-200371-2

Date Collected: 02/29/24 15:40 Matrix: Water

Date Received: 03/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605521	CDG	EET CLE	03/09/24 00:05
Total/NA	Analysis	8260D SIM		1	605381	CS	EET CLE	03/08/24 04:55

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: 240-200371-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-24 *	
Illinois	NELAP	200004	07-31-24	
Iowa	State	421	06-01-25	
Kentucky (WW)	State	KY98016	12-30-24	
Minnesota	NELAP	039-999-348	12-31-24	
New Jersey	NELAP	OH001	06-30-24	
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	

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

MICHIGAN

Chain of Custody Record

Te	est	Ar	ne	ric	Ca
THE	LEADER	IN ENV	RONMES	STAL TI	ESTING

190	TestAmerica Laborat	merica Laboratory location: Brighton 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Regulatory program: DW NPDES RCRA Other											THE LEADER IN ENVIRONMENTAL									
Client Contact	Regulati	ory program:		DW		NPI	DES		RCRA		Other											
Company Name: Arcadis	Cilent Project M	lanager: Kris H	Inskey		SII	e Con	tact: C	hristin	W eaver			Lab	Conta	ct: MII	ke D ell	Monico			TestAmerica Laboratorio			
Address: 28550 Cabot Drive, Suite 500	Talanhan v 248	004 2240				1	249	8-994-2	140		-	7.1		. 220								
Oty/State/Zip: Novi, MI, 48377	Telephone: 248-	774-2240										1 616	:pn on e	: 330⊸					1 of 1 COC			
hone: 248-994-2240	Em all: kristoffe	r.hin skey@arca	ads.com		-	Ana	lysis To	urnaro	nd Time	- 1	H		1	1	A	nalyse	s	For lab use only				
	Sampler Name:	3 /	Δ	`	TA	Tifdi	Terent Tro			-									Walk-in chient			
roject Name: Ford LTP Off-Site	Mai	yam H	ana	MI		10 da	y	2 w				ŀ							Lab sampling			
roject Number: 30167538.402.04	Method of Ships	nent/Carrier:						l w		ê	5		l g			SIM						
O # 301 6753 & 402.04	Shipping/Tracki	ing No:						□ I da		/X)	Grah	82600	3 82 60D			82 60[82 60D	82 60D	30928	82600		Job/SDG Na
				M atrix		Сы	itain ers	& Pres	rvatives	⊒ ∰	<u>ا</u>		DC	۵	g	xide	80					
Sample I dentification	Sample Date	Sample Time	Air	Solid	HZSOM	HNO3	нс	NaOH Z-A-d NeOH	Uapres Other:	Filtered Sample (Y/N)	Composite=C/Grab=G	1,1-DCE 02 as-1,2-DCE	Trans-1,2-DCE	PCE 82 60D	TCE 8260D	Vinyl Chloride 82 60D	1,4-Dioxane 82600 SIM		Sample Specific Notes Special Instructions:			
TRIP BLANK_ 89 MW-123S_022924			1				1			N	G :	ХX	Х	Х	X	Х			1 Trip Blank			
MIN-1725 077974	2/29/24	1540	х				6			12	3	χX	X	X	X	X	x		3 VOAs for 8260D			
1203_022129	42114	1370		\perp		-	0			1:0	9	` ^	1	1	^			-	3 VOAs for 8260D S			
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						240	-2003	71 Ch	ain of C	ustody				_								
			\perp	\perp																		
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				+		+		_		+ +								1				
Possible Hazard destification ▼ Non-Hazard Flammable Skin	Irritant Poisor	B [1	Unknown					osal (A Lo Chier	fee may b	Disposal				Ined Ia Archive		han I n	Month)					
pecial instructions/QC Requirements & Comments:	2-61				,																	
Imple Address: 12075 Brewsteinburg at journal and control of the c	naco.com. Cadena #	203 63 1																				
vel IV Reporting requested.																						
Hinquished by: Magday Ala	Arcades	,	Date/	19/24	170	ΛΧ	R /	OV	by: U Dol	Bb	. VV	00			Comp	any:			2/29/24 170			
Harform Canad	Company:	1 > -	Dent	Ti Knal			R	ecei yed	by: /	لالم	uu	yc			Comp	any:	77	-	D KIT I			
	Company:	alis	3	11/2	41	500		X4	1/2						B	DIA.			3/1/24 (500			
elin qui thed by	Company		Date 3/1/2	Time:	1530		R	reelved	In Labor	tory by:							R		Date Time: 11 0			
	110114		17/1/	74	1350			11 /									10					

Chent

Eurofins - Cleveland Sample Receipt Form/Narrative

Login#

Cogler unpacked by

Cooler Received on FedEx 1st Grd

Exp

Receipt After-hours Drop-off Date/Time

Eurofins Cooler # Foam E Foam Box Client Cooler

Opened on Client Drop Off

aypoint

Site Name

Eurofins Courrer

Other

Вох Storage Location Other

Packing material used COOLANT Wet Top The Was Blue Ice Foam

Plastic Bag Water None None Other

Ree Multiple Cooler Form

Cooler temperature upon receipt Dry Ice

Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity IR GUN# (CF. _ Observed Cooler Temp °C Corrected Cooler Temp z o

-Were the seals on the oùtside of the cooler(s) signed & dated? Were taniper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? S

NA

Tests that are not checked for pH by

്പ്

Receiving:

2

Were tamper/custody seals intact and uncompromised?

ىں ھ Did custody papers accompany the sample(s)? Shippers' packing slip attached to the cooler(s)?

Were the custody papers relinquished & signed in the appropriate place?

6 Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)?

N_o

~-

Š No Ÿ 3 No NA

> Toc VOAs

Oil and Grease

ž

9 00 For each sample, does the COC specify preservatives (TNI), # of containers (QNI), and sample type of grab/comp(QNI)? Could all bottle labels (ID/Date/Time) be reconciled with the COC?

12 10 Sufficient quantity received to perform indicated analyses? Were correct bottle(s) used for the test(s) indicated?

Are these work share samples and all listed on the COC?

If yes, Questions 13 17 have been checked at the originating laboratory

Were all preserved sample(s) at the correct pH upon receipt? Were VOAs on the COC?

17 17 17 17 Were air bubbles >6 mm in any VOA vials?

E

Z,

NA B

7

Yes

NO.

pH Strip Lot# HC316719

Trip Blank Lot #_

Was a VOA frip blank present in the cooler(s)?
Was a LL Hg or Me Hg trip blank present?

16. 17

Date ğ via Verbal Voice Mail Other

Concerning Contacted PM

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by

Sample(s) Sample(s) SAMPLE CONDITION were received after the recommended holding time had expired were received with bubble >6 mm in diameter (Notify PM) were received in;a broken container

Sample(s) 20 SAMPLE PRESERVATION

19

Time preserved. Sample(s) Preservative(s) added/Lot number(s)

were further preserved in the laboratory

VOA Sample Preservation Date/Time VOAs Frozen.

1

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HOLK HOLK	Hold Hold		M. GUN V	Jox Other	ਲ Ω 1
Worke Bueles Byks			i i	POX CANE	C Cient
Marine marine Marine			ROW?	1	1
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Market Mark			R GVN 4:	Box Other	IC COM
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Weller the les by E			R GPR 1:	Pox Other	ec con
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MAY to the to by to			9	FOX OTHER	70 CE 32
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Water Bank			11 CON 6:	O Char	- 1
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West Hose			IR GUN 8:	lox Other	CF-#
Worker Mone	3	24	IR GUN 6'	lox Office!	Cherri
Water None byke	X-X	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TR GUN #;	lox Other	CC) Clent
Weike live ice byke	Temp °C	Temp °C	(Circle)	e)	(Circle)
	CC196191				

DATA VERIFICATION REPORT



March 12, 2024

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

CADENA project ID: E203631

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

Project number: 30167538.402.04

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

Laboratory submittal: 200371-1 Sample date: 2024-02-29

Report received by CADENA: 2024-03-12

Initial Data Verification completed by CADENA: 2024-03-12

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 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, 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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200371-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402003 2/29/202	711			MW-123 2402003 2/29/202	4		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-826	OD.									
<u>03W-820</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		ND	1.0	ug/l	
OSW-826	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-200371-1

CADENA Verification Report: 2024-03-12

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53327R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200371-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_89	240-200371-1	Water	02/29/2024		Х	
MW-123S_022924	240-200371-2	Water	02/29/2024		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

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

SIGNATURE: BAShims

DATE: March 22, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 3, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN

Chain of Custody Record

19() Test?	merica Labora	0448 CI	itation L	rive,	Suite	2007	Brigh	iton, N	WI 4811	6/8	110-229	9-2763						-		TH	E LEADER IN ENVIRONMENTAL TESTIN			
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Project Number: 301 67538,402,04	Method of Ship					\neg	10 6	ay	Γ	l wed	k		ء ا و	,						SIM				Lab sampling
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Sample I dentification	Sample Date	Sample Time	Air	Sediment	Solid Other:	HZSON	HNO3	нсі	NaOH	Znag	Unpres Other:		Composite=C/Grab=G	1,1-DCE 8260D	as-1,2-DCE	Trans-1,2-DCE	PCE 82 60D	TCE 8260D	Vinyl Chloride	1,4-Dioxane				Sample Specific Notes / Special Instructions:
TRIP BLANK_ 39			1					1					V C	3 X			Х	X	X					1 Trip Blank
TRIP BLANK_ 89 MW-123S_022924	2/29/24	1540	×					6			\top	ŗ	30	γX	×	X	X	X	Χ,	X				3 VOAs for 8260D 3 VOAs for 8260D SIM
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supple Address: 12075 Brewster submit all results through Cadena at jtomalia@cadenaco.	Com. Cadena #	E203631																						
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200371-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-200371-1 Date Collected: 02/29/24 00:00 **Matrix: Water**

Date Received: 03/02/24 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			03/08/24 21:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 21:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 21:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 21:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 21:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					03/08/24 21:09	1
4-Bromofluorobenzene (Surr)	83		56 ₋ 136					03/08/24 21:09	1
Toluene-d8 (Surr)	99		78 - 122					03/08/24 21:09	1
Dibromofluoromethane (Surr)	95		73 - 120					03/08/24 21:09	1

Client Sample ID: MW-123S_022924 Lab Sample ID: 240-200371-2

Date Collected: 02/29/24 15:40

Date Received: 03/02/24 08:	00								
Method: SW846 8260D SIM	I - Volatile Orga	anic Comp	ounds (GC/N	IS)				·	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/08/24 04:55	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	112		68 - 127			-		03/08/24 04:55	
Madhada 00000 V	aletile Omnenie	0	d- b 00/M0						
Method: SW846 8260D - Vo	•	Qualifier	•		I Imia	_	Dranavad	Analysed	Dil Fa
Analyte			RL		Unit	<u>D</u> .	Prepared	Analyzed	DII Fa
1,1-Dichloroethene	1.0		1.0		ug/L			03/09/24 00:05	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/09/24 00:05	•
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/09/24 00:05	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/09/24 00:05	
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/09/24 00:05	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/09/24 00:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		03/09/24 00:05	
4-Bromofluorobenzene (Surr)	83		56 - 136					03/09/24 00:05	•
Toluene-d8 (Surr)	100		78 - 122					03/09/24 00:05	•
Dibromofluoromethane (Surr)	97		73 - 120					03/09/24 00:05	1

Matrix: Water