ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 12/7/2023 8:27:10 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-196045-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Generated 12/7/2023 8:27:10 AM

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

Page 2 of 19

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-196045-1

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	14
Lab Chronicle	15
Certification Summary	16
Chain of Custody	17

-5

4

6

8

40

11

14

Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-196045-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS V	OA
---------	----

 Qualifier
 Qualifier Description

 4
 MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not in the original sample is greater than 4 times the matrix spike concentration; the original sample is greater than 4 times the matrix spike concentration; the original sample is greater than 4 times the matrix spike concentration; the original sample is greater than 4 times the matrix spike concentration; the original sample is greater than 4 times the matrix spike concentration; the original sample is greater than 4 times the matrix spike concentration; the original sample is greater than 4 times the matrix spike concentration; the original sample is greater than 4 times the matrix spike concentration; the original sample is greater than 4 times the matrix spike concentration; the original sample is greater than 4 times the original sample

applicable.

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Cleveland

Page 4 of 19

3

4

7

10

12

13

Case Narrative

Client: ARCADIS US Inc

Job ID: 240-196045-1

Project/Site: Ford LTP - Off Site

Job ID: 240-196045-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-196045-1

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 11/29/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.3°C and 2.5°C

GC/MS VOA

Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): MW-108S_112423 (240-196045-2).

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 596151 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

6

4

_

6

0

10

13

Method Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-196045-1

Method Protocol Laboratory
8260D Volatile Organic Compounds by GC/MS SW846 EET CLE

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

3

4

5

7

Ŏ

10

13

Sample Summary

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-196045-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-196045-1	TRIP BLANK_102	Water	11/24/23 00:00	11/29/23 08:00
240-196045-2	MW-108S_112423	Water	11/24/23 11:00	11/29/23 08:00

e

4

5

6

8

9

44

12

13

Detection Summary

Client: ARCADIS US Inc Job ID: 240-196045-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_102 Lab Sample ID: 240-196045-1

No Detections.

No Detections.

-

4

5

7

0

40

4.0

13

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-196045-1

Project/Site: Ford LTP - Off Site

Date Received: 11/29/23 08:00

Client Sample ID: TRIP BLANK_102

Lab Sample ID: 240-196045-1 Date Collected: 11/24/23 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/30/23 16:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/30/23 16:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/30/23 16:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/30/23 16:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/30/23 16:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/30/23 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137			-		11/30/23 16:00	1
4-Bromofluorobenzene (Surr)	98		56 ₋ 136					11/30/23 16:00	1
Toluene-d8 (Surr)	100		78 - 122					11/30/23 16:00	1
Dibromofluoromethane (Surr)	103		73 - 120					11/30/23 16:00	1

Eurofins Cleveland

Page 9 of 19

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-196045-1

Project/Site: Ford LTP - Off Site

Date Received: 11/29/23 08:00

Analyte

1,1-Dichloroethene

Client Sample ID: MW-108S_112423

Lab Sample ID: 240-196045-2 Date Collected: 11/24/23 11:00

Matrix: Water

Analyzed

11/30/23 16:24

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			12/05/23 21:50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 120					12/05/23 21:50	1

RL

1.0

MDL Unit

0.49 ug/L

Prepared

Result Qualifier

1.0 U

cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L		11/30/23 16:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		11/30/23 16:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		11/30/23 16:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		11/30/23 16:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		11/30/23 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prep	ared Analyzed	Dil Fac
Surrogate 1,2-Dichloroethane-d4 (Surr)		Qualifier	Limits 62 - 137			Prep	Analyzed 11/30/23 16:24	Dil Fac
	<u>'</u>	Qualifier				Prep		Dil Fac 1
1,2-Dichloroethane-d4 (Surr)	120	Qualifier	62 - 137			<u>Prep</u>	11/30/23 16:24	Dil Fac 1 1 1

12/7/2023

Dil Fac

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-196045-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-196045-1	TRIP BLANK_102	121	98	100	103
240-196045-2	MW-108S_112423	120	97	102	104
240-196081-B-4 MS	Matrix Spike	120	101	100	105
240-196081-B-4 MSD	Matrix Spike Duplicate	120	102	102	102
LCS 240-596151/4	Lab Control Sample	116	103	100	105
MB 240-596151/7	Method Blank	119	99	101	102

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-196045-2	MW-108S_112423	100	
500-243189-A-3 MS	Matrix Spike	96	
500-243189-A-3 MSD	Matrix Spike Duplicate	96	
LCS 240-596624/4	Lab Control Sample	97	
MB 240-596624/6	Method Blank	101	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

Eurofins Cleveland

Job ID: 240-196045-1

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-596151/7

Matrix: Water

Analysis Batch: 596151

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/30/23 11:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/30/23 11:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/30/23 11:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/30/23 11:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/30/23 11:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/30/23 11:52	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 11/30/23 11:52 119 99 56 - 136 11/30/23 11:52 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) 101 78 - 122 11/30/23 11:52 Dibromofluoromethane (Surr) 102 73 - 120 11/30/23 11:52

Lab Sample ID: LCS 240-596151/4

Matrix: Water

Analysis Batch: 596151

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	16.0		ug/L		64	63 - 134	
cis-1,2-Dichloroethene	25.0	22.3		ug/L		89	77 - 123	
Tetrachloroethene	25.0	22.4		ug/L		90	76 - 123	
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	75 - 124	
Trichloroethene	25.0	22.5		ug/L		90	70 - 122	
Vinyl chloride	12.5	9.75		ug/L		78	60 - 144	
I and the second								

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 116 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 103 Toluene-d8 (Surr) 100 78 - 122 73 - 120 Dibromofluoromethane (Surr) 105

Lab Sample ID: 240-196081-B-4 MS

Matrix: Water

Analysis Batch: 596151

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	120		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

Lab Sample ID: 240-196081-B-4 MSD

Matrix: Water

Analysis Batch: 596151

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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	120		62 - 137

Eurofins Cleveland

Page 12 of 19

Job ID: 240-196045-1

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-196081-B-4 MSD

Matrix: Water

Analysis Batch: 596151

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD %Recovery Surrogate Qualifier

Limits 4-Bromofluorobenzene (Surr) 102 56 - 136 Toluene-d8 (Surr) 102 78 - 122 Dibromofluoromethane (Surr) 102 73 - 120

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

Lab Sample ID: MB 240-596624/6

Matrix: Water

Analysis Batch: 596624

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

MB MB MDL Dil Fac Analyte Result Qualifier RL Unit Analyzed D Prepared 2.0 1,4-Dioxane 2.0 U 0.86 12/05/23 19:03 ug/L

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 101 66 - 120 12/05/23 19:03

Lab Sample ID: LCS 240-596624/4 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 596624

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits 10.0 9.91 80 - 122 1,4-Dioxane ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 97 66 - 120

Client Sample ID: Matrix Spike Lab Sample ID: 500-243189-A-3 MS Prep Type: Total/NA

Matrix: Water

Analysis Batch: 596624

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit Limits %Rec 1,4-Dioxane 50.0 4 260 301 ug/L 78 51 - 153

MS MS

260

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 96 66 - 120

Lab Sample ID: 500-243189-A-3 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

1,4-Dioxane

Prep Type: Total/NA Analysis Batch: 596624 MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit

> 314 4

ug/L

50.0

MSD MSD %Recovery Surrogate Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 96 66 - 120

Eurofins Cleveland

105

51 - 153

12/7/2023

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-196045-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 596151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-196045-1	TRIP BLANK_102	Total/NA	Water	8260D	
240-196045-2	MW-108S_112423	Total/NA	Water	8260D	
MB 240-596151/7	Method Blank	Total/NA	Water	8260D	
LCS 240-596151/4	Lab Control Sample	Total/NA	Water	8260D	
240-196081-B-4 MS	Matrix Spike	Total/NA	Water	8260D	
240-196081-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 596624

Lab Sample ID 240-196045-2	Client Sample ID MW-108S_112423	Prep Type Total/NA	Water	Method Prep Batch 8260D SIM
MB 240-596624/6	Method Blank	Total/NA	Water	8260D SIM
LCS 240-596624/4	Lab Control Sample	Total/NA	Water	8260D SIM
500-243189-A-3 MS	Matrix Spike	Total/NA	Water	8260D SIM
500-243189-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM

5

7

8

11

12

13

Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-196045-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_102

Lab Sample ID: 240-196045-1 Date Collected: 11/24/23 00:00

Matrix: Water

Date Received: 11/29/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	596151	LEE	EET CLE	11/30/23 16:00

Client Sample ID: MW-108S_112423

Lab Sample ID: 240-196045-2

Matrix: Water

Date Collected: 11/24/23 11:00 Date Received: 11/29/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	596151	LEE	EET CLE	11/30/23 16:24
Total/NA	Analysis	8260D SIM		1	596624	CS	EET CLE	12/05/23 21:50

Laboratory References:

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

Page 15 of 19

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-196045-1 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	
Georgia	State	4062	02-27-24	
Illinois	NELAP	200004	07-31-24	
owa	State	421	06-01-25	
Kentucky (UST)	State	112225	02-28-24	
Kentucky (WW)	State	KY98016	12-31-23	
Michigan	State	9135	02-27-24	
Minnesota	NELAP	039-999-348	12-31-23	
Minnesota (Petrofund)	State	3506	08-01-23 *	
New Jersey	NELAP	OH001	07-01-24	
New York	NELAP	10975	04-02-24	
Ohio	State	8303	02-27-24	
Ohio VAP	State	ORELAP 4062	02-27-24	
Oregon	NELAP	4062	02-27-24	
Pennsylvania	NELAP	68-00340	08-31-24	
Texas	NELAP	T104704517-22-19	08-31-24	
Virginia	NELAP	460175	09-14-24	
West Virginia DEP	State	210	12-31-23	

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

Eurofins Cleveland

Client Contact	Regulatory program: DW	NPDES DCDA		
Company Name: Arcadis		WCAA		
TIT ACCESS TO	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	TestAmerica Lab
Address: 28550 Cabot Drive, Suite 500	Tolonkon, 340 004 3340			
City/State/Zip: Novi, MI, 48377	1 elephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	# 30 F
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
	Sampler Name:	TAT if different from below		Walkington
Project Name: Ford LTP Off-Site	ーなう	3 weeks		TRANSPORTED AND AND AND AND AND AND AND AND AND AN
Project Number: 30167538.402.04	Method of Shipment/Carrier:	1 week		Lab sampling
PO#30167538.402.04	Shipping/Tracking No:	(/X) a	8260D	Job/SDG No.
	Mainte	/ ɔ ≕	DCE	
Sample Identification	Sample Date Sample Time Air Air	1/1-DCE 8 Combestes Mixered 23 Montes Macoh Macoh HCI HHO3 HTSO4	51-1,2-DC Frans-1,2- 3-CE 82601 From Chlor (Vin) Chlor (Vin) Chlor (Vin) Chlor (Vin) Chlor (Vin) Chlor (Vin)	Sample Speci Special Instr
TRIP BLANK_ 102	1		× × × ×	1 Trip Blan
mw-1085_112423	11/24/2 1100 6	× 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3 VOAs for 8:
Раф				
pe 1				
7 0				
f 19				
			+	
			240-196045 Chain of Custody	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	nt Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month	ples are retained longer than 1 month)	
ommen 331		-	-	
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	.com. Cadena #E203631			
11,000		Received by . 0 ! !	Company:	Date/Tithe:
Relinquished by:		Received by:	tocase Arcedis	11/24/23 1247
The state of the s	HRCHDTS 11/28/13	· .	CET19	11/28/23/0900
IL ((Web)	(1/38/7)	0900 Received in Laboratory by:	Page 2000 Company:	Date/Time:
\$2008 Testametra Jahvativies Inc. All trickto reservant				

1VLLUTICIAN INDER IL TABER IL TANDER

LESTAMENICA L'ADOFATORY IOCATION: DIGITION --- 10440 CITATION CITIVE, SUITE ZUU / BIRGITON, MI 48716 / 810-229-2763

Page 18 of 19

VOA Sample Preservation - Date/Time VOAs Frozen:

WI-NC-1)2/17/2023

3

4

5

7

9

12

13

Login#: 196045

	Eurofins - Canton	Sample Receipt Mu	Itiple Cooler Form	
Cooler Description (Circle)	IR Gun#	Observed Temp °C	Corrected Temp °C	Coolani (Circle)
EC Client Box Other	IR GUN 0;	1.2	2.3	Wellije Blue Ice Dy k Water None
EC Client Box Other	IR GUR F:	[.4]	2-5	Wellice Blue Ice Dy Ic
EC Client Box Other	IR GUN #:			Wellice Blue Ice By Ice Water None
EC Client Box Other	IR GUN 0:			Wellice Blue Ice Brylice Water Mone
EC Client Box Other	IR GUN #:			Wet ice Blue ice by ice Water Mone
EC Client Sox Other	R GYN 7:			Wellice Blue Ice By ice Water Mone
EC Client Box Other	IR GUN F:			Wellice Sive Ice Dryke Water Mone
EC Client Box Other	IR GYN #:			Wellice Sive Ice Bylce Water Mone
BC Client Box Other	IR GIN #:	·		Wellice Blue Ice Bylce Weller Blees
BC Client Box Other	R GIN 1:			Wellice Sive Ice Bylce Weller Blane
EC Client Beax Other	R GON #:			Wellice Sive Sce Bylce Water Mone
BC Client Box Other	IR GUN #:			Wellice Sive Sce Byke Water Stene
BC Client Bex Other	IR GUN #:			Wellice Sive Ide Byte Water Mane
BC Client Box Other	R GUN #:			Wellice Sive See Bytes Water Stens
BC Clori Box Other	IR GUN 5:			Wellice Musice Bytes Water Mana
EC Clont Box Other	12 GUN 6:			Wellice Shie Sce Brite Water Mane
BC Cloud Box Other	# CON F:			Wellice Sive Ice Byte Water Mane
BC Client Box Other	R GIN #:			Wellice Sive Ice Byke Weler Mose
BC Client Sex Other	R GW #:			Wellice Blue Ice Brylee Water Mone
BC Clear Sax Other	IR GUN 5:			Wellice Blue Ice Bryke Waler Mone
BC Client Box Other	11 GUN 5:			Wellce Sive Ice Byke Water Hans
BC Client Box Other	IR GUN #:			Wellice Sive Ice Bryte Water Mane
BC Client Box Other	R GUN #:			Wellce Sive Sce Byke Water Mone
RC Client Box Other	# GW #:		ļ	Wellice Blue Ice Byke Water Mane
BC Client Box Other	R GM #:			Weller Nene
BC Client Box Other	R GM F:			Wellice Blue Ice Dylto Water Hone
BC Client Box Other	IR GUN #:			Wellice Slue Ice Dyke' Water Mane
SC Client Box Other	R GWH #:			Wellce Blue Ice Dry to Water Mone
BC Clear Box Other	R GUN 9:			Wellice Sive Ice Bry ice Weler Mone
	# GUN #:			Wellice Sive Ice Bry Ice Water Mone
	R GVN 5:			Net ice Sive ice Dry ice Water None
	R GVN #:			Vel ice Sive ice Dry ice Water Name
	R GWI F:		1	felice blue ice bryice
	R GUN #:		- In	Water Name Rel Ice Blue Ice Dry Ice
Out out			Fig. Co. Tompor	Water Ness Sture Excursion Form

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

2

5

7

9

10

DATA VERIFICATION REPORT



December 11, 2023

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

CADENA project ID: E203631

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

Project number: 30167538.402.04 off-site

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

Laboratory submittal: 196045-1 Sample date: 2023-11-24

Report received by CADENA: 2023-12-11

Initial Data Verification completed by CADENA: 2023-12-11

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 CCV STANDARD response outliers 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: 196045-1

		Sample Name: TRIP BLANK_102 Lab Sample ID: 2401960451 Sample Date: 11/24/2023			2	MW-108S_112423 2401960452 11/24/2023				
		·	, ,	Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>OD</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-8260	<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 # 240-196045-1

CADENA Verification Report: 2023-12-11

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52315R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-196045-1 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_102	240-196045-1	Water	11/24/2023		Х	
MW-108S_112423	240-196045-2	Water	11/24/2023		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		X		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_102 MW-108S_112423	Continuing Calibration Verification %D	Vinyl chloride	-27.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.05	Non-detect	R
	RRF <0.05	Detect	J
Initial and Continuing	RRF <0.01 ¹	Non-detect	R
Calibration	RRF <0.01	Detect	J
	DDE - 0.05 or DDE - 0.041	Non-detect	No Astion
	RRF >0.05 or RRF >0.01 ¹	Detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration	%KSD > 20% of a correlation coefficient <0.99	Detect	J
milial Calibration	0/ DCD - 000/	Non-detect	R
	%RSD > 90%	Detect	J
	0/D 200/ (increase in consistivity)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
Continuin a Colibration	0/D 200/ (decrees in consistivity)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D = 000/ (ingresses/degreess in consistivity)	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo Acce	Not Required	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
System performance and column resolution		Х		Х	
Initial calibration %RSDs		X		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		Х		Х	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

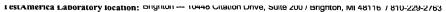
SIGNATURE: BAShims

DATE: December 19, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 20, 2023

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



190 HE LEADER IN ENVIRON

Client Contact	Regulat	ory program:	:	, I)W	£	NPI	ES		ı R	CRA	1	Oth	er [************		-						-	EWINE MILL E JANHAN	
Company Name: Arcadis						,						,		-										Te	estAmerica Lab	
Address: 28550 Cabot Drive, Suite 500	Client Project !	Manager: Kris	Hinskey			Site	e Con	tact: (Chri	stina \	Veaver				Lab (Contac	t: Mik	e DelN	Aonico						DC No:	
	Telephone: 248	-994-2240				Te	elephone: 248-994-2240				Telephone: 330-497-9396					-										
City/State/Zip: Novi, MI, 48377	Email: krietoff	er.hinskey@ar	andin an			190	Analysis Turnaround Time										1 of 1									
Phone: 248-994-2240	Eman. Kriston	er.muskey@ar	cadis.cor	13				7945 1	. 44 14	AI VUIA	THE	-		_				Ai	nalyse	s				Fe	r lab use only	
Project Name: Ford LTP Off-Site	Sampler Name					TA	T if dif												- 1					w	alk-in client	
	K	Sent L	100	Oc	-		10 da			3 week 2 week											l					
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:		+C	· L			•	ď.	1 week	:	l e	. پ						- 1	≥	1	l			b sampling	
PO # 30167538.402.04	Shipping/Track	ing No:				-				2 days 1 day		15	1 2		2	8260D			8	SQ						
	ļ									-		ON / NO PAIN		8	8260D	E 8.			Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	l		-	Jo	b/SDG No:	
			1.5	Matr	X Section 18	A ROY	Con	tainer	8 & I	Preserv	atives	_ ;	IJ	8260D	SE	Trans-1,2-DCE	8	8	oride	ae				L	- 1.488 A. A.	
			São	l sept	_ ;;	7.2	13		_		g <u>.</u> .	Post		띯	J-2,	s-1,2	826	826	흥	ioxe	1	1		1	Sample Speci	
Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid Other:	H2S04	HN03	HCI	NaOH	ZnAc/ NaOH	Other:	Kilto	18	1,1-DCE	cis-1,2-DCE	ran	PCE 8260D	TCE 8260D	j.	4	1			1	Special Inst	
TRIP BLANK_ 102		*				╅		1						7						$\dot{-}$	+	-	=+	-		
TRIP BLANK_ 102			1	$\bot \bot$		_		1				l	۱ G	X	X	X	X	X	X	l					1 Trip Blan	
mw-1085_112423	11/24/23	1100	1/			1		1				N		X	λ	a	,		.	$\overline{}$	Ī				3 VOAs for 82	
11100 1000 = 112 123	1101123	1100	1 4	1	-	+	+	6	\dashv	+		1/8	6	120	1/	7	X	ン	X	\sim			\dashv		3 VOAs for 8:	
									l															I		
Page		***************************************		$\dagger \dagger$		十	T	\Box	\neg	_	\top	十	+	 	1			\neg		\dashv	\dashv	\dashv	\dashv	\dashv		
Φ (·)				$\perp \perp$																						
356												Т												\top	THE PARTY OF THE P	
of of	<u> </u>		++	++		+	+-	\vdash		-	-	4	+		-					_	\dashv	_				
of 358												١		1						, 			, 			
Ö				11		1	1	\exists		$\neg \uparrow$	+-	十	+	 	†					Ш						
	<u> </u>		11	$\perp \perp$		\perp									L	111111										
																					Ш					
			++	++		+	+-	\vdash	\dashv	-		4	-	-	\perp	240	11111111111111111111111111111111111111	1111111 45 C	hain	of Cu	ıstod	у				
							1			.					-										_	
				TT		1	1	Ħ	一		\top	\top	T	t		T			$\neg \uparrow$	$\neg \dagger$	\dashv	$\neg \uparrow$	\dashv	\dashv		
Possible Hazard Identification				$\perp \perp$		_	بل					丄	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$													
Non-Hazard Flammable Skin Irritar	nt Poiso	n B	Unknov	vn			Samp	le Disj Returi	posa n to (I (A. fe Client	e may b	e asse Disn	essed i osal B	fsammp vLab	oles are		ned lo i rchive		nan 1 i	nonth) Mor						
Special Instructions/QC Requirements & Comments: ROSA7	L.							-				- юр	000.0) Duo			· ciii ve	101		MOI	iuis					
Sample Address: 12321 - 12331 (2052) Submit all results through Cadena at jtomalia@cadenaco.	T) aam Cadana 4	F002004																								
Level IV Reporting requested.	com. Cadena #	E203631																								
Relinquished by:	Company:		Da	te/Time:	. /			Ti	Rece	ived by	W.			,				Comp	9070					In.		
Bent Kasper	Company:	clis	1	1/2	1/23		12	47	, ,	1/	از مرده	Co	d	5	400	i Corp	,	A	y. Y []	dis					ate/Tiphe: 11 24/23	124
Relinquished by:	Company:		Dat	e/Time:	,	T	841	0	Rece	ived by	1: /	2/		7	000	1		Comp	any:	- 1	Λ				ate/Time:	T-0
Relinquished by:	Company	CAPIE		128		_	- 1		i	1			M							TI	1				1/28/23/	09
12- 1/10Mabl	Company:	-1A		te/Time: (1/28		, 090		1	Rece	ived in	Labora	otory)		χl_{\sim}	١.	^ 5	\sim	Comp	any:	-				Di	ate/Time:	8
	061	υ.		1010	(4)	010	U	$-\pi$	F	\mathcal{W}	يهرو	XX	٧ح	TAT	en	UR			سار	-14	UC				11-29-23	X

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-196045-1

Client Sample ID: TRIP BLANK_102 Lab Sample ID: 240-196045-1 Date Collected: 11/24/23 00:00 **Matrix: Water**

Date Received: 11/29/23 08:00

Project/Site: Ford LTP - Off Site

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/30/23 16:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/30/23 16:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/30/23 16:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/30/23 16:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/30/23 16:00	1
Vinyl chloride	1.0	A NI	1.0	0.45	ug/L			11/30/23 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137			-		11/30/23 16:00	1
4-Bromofluorobenzene (Surr)	98		56 ₋ 136					11/30/23 16:00	1
Toluene-d8 (Surr)	100		78 - 122					11/30/23 16:00	1
Dibromofluoromethane (Surr)	103		73 - 120					11/30/23 16:00	1

Client Sample ID: MW-108S_112423

Date Collected: 11/24/23 11:00

Date Received: 11/29/23 08:00

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			12/05/23 21:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 120			-		12/05/23 21:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/30/23 16:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/30/23 16:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/30/23 16:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/30/23 16:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/30/23 16:24	1
Vinyl chloride	1.0	KUJ	1.0	0.45	ug/L			11/30/23 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2 Dichloroothono da (Surr)	120		60 107			•		11/20/22 16:24	

ı	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	120		62 - 137		11/30/23 16:24	1
ı	4-Bromofluorobenzene (Surr)	97		56 - 136		11/30/23 16:24	1
ı	Toluene-d8 (Surr)	102		78 - 122		11/30/23 16:24	1
I	Dibromofluoromethane (Surr)	104		73 - 120		11/30/23 16:24	1

Lab Sample ID: 240-196045-2

Matrix: Water