ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/19/2023 2:41:40 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-184994-1

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 5/19/2023 2:41:40 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-184994-1

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
Receipt Checklists	21

3

4

£

9

10

12

13

Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-184994-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

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.				
Example 2 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

5/19/2023

Page 4 of 21

4

4

Ę

7

8

10

13

14

Case Narrative

Client: ARCADIS US Inc

Job ID: 240-184994-1

Project/Site: Ford LTP - Off Site

Job ID: 240-184994-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-184994-1

Receipt

The samples were received on 5/9/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0° C, 2.8° C, 3.3° C and 4.3° C

GC/MS VOA

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

8

9

10

4.0

13

14

Method Summary

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

Job ID: 240-184994-1

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

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

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

Job ID: 240-184994-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-184994-1	TRIP BLANK_98	Water	05/03/23 00:00	05/09/23 10:30
240-184994-2	MW-150S_050323	Water	05/03/23 09:45	05/09/23 10:30

R

Detection Summary

Client: ARCADIS US Inc Job ID: 240-184994-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_98 Lab Sample ID: 240-184994-1

No Detections.

No Detections.

3

Л

5

6

_

9

10

12

4 4

45

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184994-1

Project/Site: Ford LTP - Off Site

Date Received: 05/09/23 10:30

4-Bromofluorobenzene

Client Sample ID: TRIP BLANK_98

Lab Sample ID: 240-184994-1 Date Collected: 05/03/23 00:00

Matrix: Water

05/13/23 21:37

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 05/13/23 21:37 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/13/23 21:37 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/13/23 21:37 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/13/23 21:37 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/13/23 21:37 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/13/23 21:37 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 107 70 - 128 05/13/23 21:37 Dibromofluoromethane (Surr) 87 05/13/23 21:37 77 - 124 Toluene-d8 (Surr) 101 80 - 120 05/13/23 21:37

76 - 120

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184994-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-150S_050323

Date Collected: 05/03/23 09:45 Date Received: 05/09/23 10:30 Lab Sample ID: 240-184994-2

Matrix: Water

Method: SW846 8260D SIM	 Volatile 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			05/16/23 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		 75 - 133			_		05/16/23 14:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/14/23 02:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/14/23 02:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 02:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/14/23 02:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 02:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/23 02:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 128			-		05/14/23 02:09	1
Dibromofluoromethane (Surr)	85		77 - 124					05/14/23 02:09	1
Toluene-d8 (Surr)	103		80 - 120					05/14/23 02:09	1
4-Bromofluorobenzene	88		76 - 120					05/14/23 02:09	1

3

6

8

40

11

12

1 1

-

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-184994-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)
240-184994-1	TRIP BLANK_98	107	87	101	90
240-184994-2	MW-150S_050323	104	85	103	88
LCS 460-909017/3	Lab Control Sample	101	81	104	88
LCSD 460-909017/4	Lab Control Sample Dup	102	82	105	88
MB 460-909017/8	Method Blank	107	84	104	86
Surrogate Legend					

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

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(75-133)	
240-184994-2	MW-150S_050323	93	
LCS 460-909423/3	Lab Control Sample	96	
LCSD 460-909423/4	Lab Control Sample Dup	91	
MB 460-909423/7	Method Blank	92	

Surrogate Legend

BFB = 4-Bromofluorobenzene

Client: ARCADIS US Inc Job ID: 240-184994-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 460-909017/8

Matrix: Water

Analysis Batch: 909017

Client Sample ID: Method Blank

Prep Type: Total/NA

l		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			05/13/23 18:58	1
I	cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/23 18:58	1
	Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 18:58	1
I	trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/23 18:58	1
I	Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 18:58	1
	Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/23 18:58	1
ı										

MB MB

Surro	ogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-D	ichloroethane-d4 (Surr)	107		70 - 128	_		05/13/23 18:58	1
Dibro	mofluoromethane (Surr)	84		77 - 124			05/13/23 18:58	1
Tolue	ne-d8 (Surr)	104		80 - 120			05/13/23 18:58	1
4-Bro	mofluorobenzene	86		76 - 120			05/13/23 18:58	1

Lab Sample ID: LCS 460-909017/3

Matrix: Water

Analysis Batch: 909017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits 1,1-Dichloroethene 20.0 18.3 91 68 - 133 ug/L 20.0 78 - 121 cis-1,2-Dichloroethene 18.7 ug/L 94 Tetrachloroethene 20.0 16.6 83 70 - 127 ug/L trans-1,2-Dichloroethene 20.0 18.6 ug/L 93 74 - 126 Trichloroethene 20.0 18.8 ug/L 94 71 - 121 Vinyl chloride 20.0 22.0 ug/L 110 55 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 128
Dibromofluoromethane (Surr)	81		77 - 124
Toluene-d8 (Surr)	104		80 - 120
4-Bromofluorobenzene	88		76 - 120

Lab Sample ID: LCSD 460-909017/4

Matrix: Water

Analysis Batch: 909017

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	19.2	u	g/L	96	68 - 133	5	30
cis-1,2-Dichloroethene	20.0	18.9	u	g/L	95	78 - 121	1	30
Tetrachloroethene	20.0	17.2	u	g/L	86	70 - 127	3	30
trans-1,2-Dichloroethene	20.0	19.1	u	g/L	95	74 - 126	3	30
Trichloroethene	20.0	19.4	u	g/L	97	71 - 121	3	30
Vinyl chloride	20.0	23.2	u	g/L	116	55 - 144	5	30

I CSD	LCSD

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102	70 - 128
Dibromofluoromethane (Surr)	82	77 - 124
Toluene-d8 (Surr)	105	80 - 120

Eurofins Cleveland

Page 12 of 21

5/19/2023

Job ID: 240-184994-1

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

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

Lab Sample ID: LCSD 460-909017/4 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 909017

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 88 76 - 120 Prep Type: Total/NA

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

Lab Sample ID: MB 460-909423/7 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 909423

MB MB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 05/16/23 09:43

MB MB

Surrogate %Recovery Qualifier Limits Analyzed Dil Fac Prepared 4-Bromofluorobenzene 92 75 - 133 05/16/23 09:43

Lab Sample ID: LCS 460-909423/3 Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA

Analysis Batch: 909423

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec 5.00 1,4-Dioxane 5.34 107 57 - 124 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 96 75 - 133

Lab Sample ID: LCSD 460-909423/4 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 909423

Spike LCSD LCSD %Rec RPD Analyte Added Qualifier Unit %Rec Limits RPD Limit Result 1,4-Dioxane 5.00 5.66 57 - 124 30 ug/L 113

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 91 75 - 133

Eurofins Cleveland

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-184994-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 909017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184994-1	TRIP BLANK_98	Total/NA	Water	8260D	
240-184994-2	MW-150S_050323	Total/NA	Water	8260D	
MB 460-909017/8	Method Blank	Total/NA	Water	8260D	
LCS 460-909017/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-909017/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 909423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184994-2	MW-150S_050323	Total/NA	Water	8260D SIM	
MB 460-909423/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-909423/3	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 460-909423/4	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

2

5

4

O

7

10

11

14

Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-184994-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_98

Lab Sample ID: 240-184994-1 Date Collected: 05/03/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	909017	SZD	EET EDI	05/13/23 21:37

Client Sample ID: MW-150S_050323 Lab Sample ID: 240-184994-2

Date Collected: 05/03/23 09:45 Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	909017	SZD	EET EDI	05/14/23 02:09
Total/NA	Analysis	8260D SIM		1	909423	SZD	EET EDI	05/16/23 14:24

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

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

Job ID: 240-184994-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

5

4

0

10

12

MICHIGAN 190	TestAmerica Laboratory location: Brighton	1	Chain of Custody Record	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	/ 810-229-27	63		TestA	TestAmerica
Client Contact	Regulatory program:	960	NPDES	L RCRA	Other				
Addense 19660 Calve Deim Cuita 600	Client Project Manager: Kris Hinskey	ris Hinskey	Site Contact: Christina Weaver	hristina Weaver		Lab Contact: Mike DelMonico	ke DelMonico	COC No:	COC No:
City/Const/Fire Novi MI 49277	Telephone: 248-994-2240		Telephone: 248-994-2240	-994-2240	-	Telephone: 330-497-9396	9656-261		000
CHYState Zap: Novi, wil, 46577	Email: kristoffer.hinskev@arcadis.com	arcadis.com	Analysis Tu	Analysis Turnaround Time			Analyses	For lab use only	nly COCs
Phone: 248-994-2240	Sampler Name:		TAT if different from below	n below				Walk-in client	ı
Project Name: Ford L.1P OII-Site Project Number: 30167538 402.04	Santur Method of Shipmont Certifier	urner	10 day	3 weeks 2 weeks 1 week	-		V	Lab sampling	
					D=qu		_		
PO # 30167538.402.04	Shipping/Tracking No:	Matrix	Contelner	day day	809	CE 856)928 ət	Job/SDG No:	
Sample Identification	Sample Date Sample Time	Air	ИСІ НОЗ НТЗОФ	NaAci Saoni Unpres Other:	Composite=	cis-1,2-DCE Trans-1,2-D PCE 8260B	TCE 8260B	Sample	Sample Specific Notes / Special Instructions:
ø TRIP BLANK_98	5/3/23		_	Z	×	× ×	×	1 Trip Blank	Blank
·MW-1505_050323	5/3/23 945	9	2	2	S	×	×	3 VOAs	3 VOAs for 8260B
Page									
17 of									
21									
							À P		
				24	0-184994 C	240-184994 Chair of Car			
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	itant Poison B	Unknown	Sample Dispo	Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Client Disposal By Lab Archive For Mon	sed if sample:	are retained to	inger than I month)	nth) Months	
ions/QC Requirements & Comments as: 34380 DQ $_{\rm C}$ C O $^{\rm C}$ Ults through Cadena at fromalia@ring requested.	co.com. Cadena #E203631								
Reinquished by: The Reinquished by: Reinquished by:	Company: A COL 1 S Company:	Date/Fine;	23,1500 R	Received by: NOVI COLA Received by:	Storage		Company:	Date/Time:	3 1500
Relinquished by:	Company	S/8/23 Date/Time	8	Received in Laboratory	Olivina Contraction	4	THE STATE OF THE PARTY OF THE P	S/8//2 Date/Time:	3/1050
NE - YEL	CC (4	1 5/6/52	D20 1	hear M.	MA	3	プロー	02-03	3

T. T. C. I.
Eurofins - Canton Sample Receipt Form/Narrative Login #: \[\frac{8499}{9} \] Barberton Facility
Client A (Cadi S Site Name Cooler unpacked by:
Cooler Received on 05-09-23 Opened on 05-09-23 Leah M. Smith
FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location
Eurofins Cooler # E C Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None
1. Cooler temperature upon receipt See Multiple Cooler Form IR GUN# CF C Corrected Cooler Temp. °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? Tests that are not checked for pH by Receiving: Yes No NO VOAs Oil and Grease Oil and Grease
5. Were the custody papers relinquished & signed in the appropriate place?
7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9. No. 1. No.
or could all cottle tabels (1D/Date/ 1 line) of recollected with the coo.
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)? 10. Were correct bottle(s) used for the test(s) indicated?
11. Sufficient quantity received to perform indicated analyses?
12. Are these work share samples and all listed on the COC? Yes No.
If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? No NA pH Strip Lot# HC208070
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #62 112 Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory.
Sample(s) were further preserved in the laboratory. Time preserved: Preservative(s) added/Lot number(s):
VOA Sample Preservation - Date/Time VOAs Frozen:

Login #: 184994

Cooler Description	Eurofins - Canto			Coolant
Cooler Description	IR Gun #	Observed Temp °C	Corrected	(Circle)
(Circle)	(Circle)		Temp °C	Wet ice Blue ice Dry is
EC Client Box Other	IR GUN #:	2.7	7.8	Water None
EC Client Box Other	IR GUN #:	3.2	3.3	Water None
EC Client Box Other	IR GUN #:	1.9	2.0	Wet ice Blue ice Dry ic
EC) Client Box Other	IR GUN #:	4.2	43	Wet ice Blue ice Dry ic
EC Client Box Other	IR GUN #:	1,0	113	Wet Ice Blue Ice Dry Id
	IR GUN #:			Water None Wet Ice Blue Ice Dry Ic
EC Client Box Other	IR GUN #:			Water None Wet ice Blue ice Dry ic
EC Client Box Other	IR GUN #:			Water None Wet ice Sive ice Dry id
EC Client Box Other				Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ic Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Id Water None
EC Client Box Other	IR GUN #:			Wet ice Sive ice Dry ic Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ic Water None
EC Client Box Other	IR GUN #:			Wet ice Sive ice Dry ic
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ic
EC Client Box Other	IR GUN #:		and the second s	Water None Wet Ice Blue Ice Dry Ic
	IR GUN #:			Water None Wet ice Sive ice Dry ic
EC Client Box Other	IR GUN #:		· The second second second second second second	Water None Wet ice Blue ice Dry ic
EC Client Box Other				Water None Wet Ice Blue Ice Dry Ic
EC Client Box Other	IR GUN #:		<u></u>	Water None
EC Client Box Other	IR GUN #:		·	Wet ice Blue ice Dry ic Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ic Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ic Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ic Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ic
EC Client Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ic
	IR GUN #:			Water None Wet ice Blue Ice Dry ic
EC Client Box Other	IR GUN #:			Water None Wet Ice Stue Ice Dry Ice
EC Client Sox Other				Water None Wet Ice Blue Ice Dry Ic
EC Client Box Other	IR GÜN #:			Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ic Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ic Water None
EC Client Box Other	IR GUN #:			Wet ice Sive Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice
	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Ice
EC Client Box Other	IN COIL W.			Water None

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

Environment Testing 💸 eurofins

180 S. Van Buren Avenue Barberton, OH 44203

Eurofins Cleveland

Chain of Custody Record

Phone: 330-497-9396 Fax: 330-497-0772

Client Information (Sub Contract Lab)	Sampler:			Lab PM: DelMor	Lab PM: DelMonico, Michael	lichael			Carrier Tra	Carrier Tracking No(s):	COC No:	88.1	
Client Contact:	Phone:			E-Mail:					State of Origin:	nigin:	Page:		
Snipping/Receiving				Mich	ael.Dell	onico(Michael.DelMonico@et.eurofinsus.com	Isus.com	Michigan	_	Page 1 of 1	f 1	
Company: Eurofins Environment Testing Northeast,					Accreditat	ons Req	Accreditations Required (See note):	ote):			Job #: 240-184994-1	194-1	
Address: 777 New Durham Road, ,	Due Date Requested: 5/22/2023	ij					₹	Analysis Requested	questec		Preservati	Preservation Codes:	exane
City. Edison	TAT Requested (days)	ays):				H					A - HCL B - NaOH C - Zn Acetate		N - None O - AsNaO2
State, Zip: NJ, 08817											D - Nitric Acid E - NaHSO4	2 73	P - Na2O4S Q - Na2SO3 R - Na2S2O3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:					(1s					G - Amchlor		S - H2SO4 T - TSP Dodecahydrate
Email:	"HOM				(ON	ווסע דו							U - Acetone V - MCAA
Project Name: Ford LTP - Off Site	Project #: 24015353					e) \$20							W - pH 4-5 Y - Trizma Z - other (specify)
Site:	SSOW#:				SD (Y						of cos		
কুemple Identification - Client ID (Lab ID)	Sample Date	Sample	Sample Type (C=comp, G=orab)	(W=water, S=solid, O=wasts/oil, BT=Tissue,	M/SM mrotre	3260D_SIM\5030					Total Number	Special Instructions (Note:	, acompany
0	V	X	Preservat	Preservation Code:	X	-							Ollende.
RIP BLANK_98 (240-184994-1)	5/3/23	Eastern		Water		×					-		
Mw-150S_050323 (240-184994-2)	5/3/23	09:45 Eastern		Water		×					9		
21													
											86		
						_					The same of		

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to laboratory or other instructions will be provided. Any changes to accreditation in the State of Origin listed above for analysis/Rests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC. Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification

Origination			Return To Client Disposal By Lab	ab Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	dS.	Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment	Shipment:	
Peintouse ed by:	533	915 Company NC	Received by: Via Falls	Vic Fales Date Fine / 13 103 Congent of	Company
Mainquished by:	Date/Time:	Company	Received by:	Date/#me:	Сотрапу
Selinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No.: // C	5		Cooler Temperature(s) °C and Other Remarks: 4/1/4/1 0 5.2/5.2.2.2.7.7.7.9	14.10 5.2/5.20	IR9

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-184994-1

List Source: Eurofins Edison
List Number: 2
List Creation: 05/11/23 12:17 PM

Creator: Armbruster, Chris

Creator: Armbruster, Chris		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
ls the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

•

4

6

Я

10

10

13

DATA VERIFICATION REPORT



May 23, 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: 184994-1 Sample date: 2023-05-03

Report received by CADENA: 2023-05-23

Initial Data Verification completed by CADENA: 2023-05-23

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.

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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: 184994-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401849 5/3/202	9941			MW-150 2401849 5/3/202			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0D</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 # 140-184994-1

CADENA Verification Report: 2023-05-23

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49912R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 140-184994-1 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	Doront Comple	Ana	lysis
Sample ID	Labib	Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_98	240-184994-1	Water	05/03/23		X	
MW-150S_050323	240-184994-2	Water	05/03/23		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep		Not
	No	Yes	No	Yes	Required
Sample receipt condition		Χ		X	
2. Requested analyses and sample results		Χ		X	
Master tracking list		Χ		X	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
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	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		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: Hrishikesh Upadhyaya

SIGNATURE:

DATE: June 09, 2023

Curuliland

PEER REVIEW: Andrew Korycinski

DATE: June 11, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record



Client Contact	TestAmerica Labora Regulat	ory program:			DW			PDE			RO			Oth															
Company Name: Arcadis	Client Project M	Janaver: Kris	Hinske	· ·		- I	Site C	ontse	t: Ch	rist	ina W	egver			ŀ	II ab	Conta	ı. Mil	a Dal	Monie				TestAme	rica Laboratories, Inc.				
Address: 28550 Cabot Drive, Suite 500				<i>,</i>			Telephone: 248-994-2240						Lab Contact: Mike DelMonico Telephone: 330-497-9396					600 110.											
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240																1	1 of 1 COCs										
Phone: 248-994-2240	Email: kristoff	istoffer.hinskey@arcadis.com Analysis Turnaround Time					H	T			A	nalys	25			For lab use only													
	Sampler Name								nt from					18										Walk-in c	lient				
Project Name: Ford LTP Off-Site	50	ahTi	LIV	ner				mer				10 day		day ≥ 2 weeks													1	Lab samp	ling
Project Number: 30167538.402.04	Method of Ship											-	T		week days		2	9			_ m				Σ				
PO # 30167538.402.04	Shipping/Track	ing No:									days		ple (Y /			8260B	8260B			8260B	8260B SIM			Job/SDG	No:				
				Ma	trix		(ontai	ners &	k Pr	eserval	ives	2608 S 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3																
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid	Other:	H2SO4	SOVH HC	NaOH	ZnAc	NaOH Unpres	Other:	Filtered S.	Composite	1,1-DCE 8260B	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260B	TCE 8260B	Vinyl Chloride	1,4-Dioxane				nple Specific Notes / pecial Instructions:				
TRIP BLANK_ 98	5/3/23			1				1		T			N	G	X	Х	Х	Х	Х	Х				1 Tr	p Blank				
MW-150S-050323	5/3/23	945		6				6	,				N	6	X	X	X	×	X	X	X				As for 8260B As for 8260B SIM				
0																													
										T				\vdash															
0				+			\dagger		\dagger	+	+	\vdash	\top	\vdash			-	-											
			H	+	\vdash		+	+	+	+	+	-		\vdash	-		-				-	_	+						
3			H	+			+	+	+	+	+	-	+	-				 			IIII	-							
			\vdash	-			-		-	+	_	-	IWW								MI								
			Ш	\perp					\perp	1				₩															
													240	1-18	4994	Cha	in of	Custo	dy										
																1													
Possible Hazard Identification Non-Hazard Flammable Ski	n Irritant Poiso	n B	Unkn	own			Sar		Dispos turn te				e asses Dispo					ned lo		han 1	nonth)	oths							
Special Instructions/QC Requirements & Comments: Sample Address: 34380 Beacon Submit all results through Cadena at jtomalia@cad Level IV Reporting requested.	enaco.com. Cadena #	E203631				•									,								-	,					
Relinquished by:	Company: A1CU	is	1	Date/Tir	14	1/23)] [0e)	1	70	ved by:	Col	d	St	010	92			Comp	rce	ldi	3		Date/Tim 5/4	123 1500				
Relinquished by:	Company	UIS	\Box		8/2	3/	10	50		1	d by:	4	tal	2		-				E7				Date/Tim	123/1050				
Relinquished by: Lear Hall	Company:	4		Date Tit		10	50		Re	Ze	ved in	Labora	atory b	y:	m	th	2			E	TN	C		Date/Tin	09-23 1036				

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184994-1

Client Sample ID: TRIP BLANK_98

Lab Sample ID: 240-184994-1 Date Collected: 05/03/23 00:00 **Matrix: Water**

Date Received: 05/09/23 10:30

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			05/13/23 21:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/23 21:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 21:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/23 21:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/23 21:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/23 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 128					05/13/23 21:37	1
Dibromofluoromethane (Surr)	87		77 - 124					05/13/23 21:37	1
Toluene-d8 (Surr)	101		80 - 120					05/13/23 21:37	1
4-Bromofluorobenzene	90		76 - 120					05/13/23 21:37	1

Client Sample ID: MW-150S_050323 Lab Sample ID: 240-184994-2

103

88

Date Collected: 05/03/23 09:45 Date Received: 05/09/23 10:30

Toluene-d8 (Surr)

4-Bromofluorobenzene

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) Analyte Result Qualifier Prepared Analyzed MDL Unit D Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/16/23 14:24 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene 75 - 133 05/16/23 14:24 93

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/14/23 02:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/14/23 02:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 02:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/14/23 02:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 02:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/23 02:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 128			•		05/14/23 02:09	1
Dibromofluoromethane (Surr)	85		77 - 124					05/14/23 02:09	1

80 - 120

76 - 120

05/14/23 02:09

05/14/23 02:09

Matrix: Water