PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 5/18/2023 12:47:59 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-184629-1

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 5/18/2023 12:47:59 AM

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

Eurofins Canton is a laboratory within Eurofins Environment Testing North Central, LLC, a company within Eurofins Environment Testing Group of Companies

'

3

4

5

6

ا

9

10

4.0

13

14

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-184629-1

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	
Receint Checklists	21

-5

4

6

8

10

12

13

Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-184629-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

Decision Level Concentration (Radiochemistry) DLC

Estimated Detection Limit (Dioxin) EDL 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Cleveland

5/18/2023

Page 4 of 21

Case Narrative

Client: ARCADIS US Inc

Job ID: 240-184629-1

Project/Site: Ford LTP - Off Site

Job ID: 240-184629-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-184629-1

Receipt

The samples were received on 5/4/2023 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 1.2°C and 1.6°C

GC/MS VOA

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

_

5

6

- [

8

4.0

11

14

Method Summary

Client: ARCADIS US Inc Job ID: 240-184629-1 Project/Site: Ford LTP - Off Site

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: 240-184629-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-184629-1	TRIP BLANK_106	Water	05/01/23 00:00	05/04/23 08:00
240-184629-2	MW-91S_050123	Water	05/01/23 13:00	05/04/23 08:00

3

4

_

9

11

40

14

Detection Summary

Client: ARCADIS US Inc Job ID: 240-184629-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_106 Lab Sample ID: 240-184629-1

No Detections.

Client Sample ID: MW-91S_050123 Lab Sample ID: 240-184629-2

No Detections.

1

5

7

8

46

11

13

14

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184629-1

Project/Site: Ford LTP - Off Site

Date Received: 05/04/23 08:00

Client Sample ID: TRIP BLANK_106

Lab Sample ID: 240-184629-1 Date Collected: 05/01/23 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			05/11/23 23:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 23:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 23:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			70 - 128			-		05/11/23 23:56	1
Dibromofluoromethane (Surr)	99		77 - 124					05/11/23 23:56	1
Toluene-d8 (Surr)	100		80 - 120					05/11/23 23:56	1
4-Bromofluorobenzene	117		76 - 120					05/11/23 23:56	1

Eurofins Cleveland

Page 9 of 21 5/18/2023

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184629-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-91S_050123

Date Collected: 05/01/23 13:00 Date Received: 05/04/23 08:00 Lab Sample ID: 240-184629-2

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			05/07/23 06:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		75 - 133			-		05/07/23 06:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/12/23 03:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 03:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 03:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 03:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 03:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 128			-		05/12/23 03:43	1
Dibromofluoromethane (Surr)	96		77 - 124					05/12/23 03:43	1
Toluene-d8 (Surr)	99		80 - 120					05/12/23 03:43	1
4-Bromofluorobenzene	116		76 - 120					05/12/23 03:43	1

3

_

8

10

11

12

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-184629-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (A					
		DCA	DBFM	TOL	BFB			
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)			
240-184629-1	TRIP BLANK_106	110	99	100	117			
240-184629-2	MW-91S_050123	108	96	99	116			
LCS 460-908577/2	Lab Control Sample	101	91	100	118			
LCSD 460-908577/4	Lab Control Sample Dup	100	91	99	119			
MB 460-908577/8	Method Blank	110	99	101	117			
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)	
240-184629-2	MW-91S_050123	107	
LCS 460-907549/4	Lab Control Sample	107	
LCSD 460-907549/5	Lab Control Sample Dup	108	
MB 460-907549/8	Method Blank	105	

Surrogate Legend

BFB = 4-Bromofluorobenzene

Eurofins Cleveland

Client: ARCADIS US Inc Job ID: 240-184629-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 460-908577/8

Matrix: Water Analysis Batch: 908577

Analyte

1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene

Trichloroethene

Vinyl chloride

мв	МВ							
	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.0	U	1.0	0.49	ug/L			05/11/23 20:32	1
1.0	U	1.0	0.46	ug/L			05/11/23 20:32	1
1.0	U	1.0	0.44	ug/L			05/11/23 20:32	1
1.0	U	1.0	0.51	ug/L			05/11/23 20:32	1

0.44 ug/L

0.45 ug/L

1.0 U MB MB

1.0 U

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	110		70 - 128		05/11/23 20:32	1
	Dibromofluoromethane (Surr)	99		77 - 124		05/11/23 20:32	1
	Toluene-d8 (Surr)	101		80 - 120		05/11/23 20:32	1
١	4-Bromofluorobenzene	117		76 - 120		05/11/23 20:32	1

1.0

1.0

Lab Sample ID: LCS 460-908577/2

Matrix: Water

Analysis Batch: 908577

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

05/11/23 20:32

05/11/23 20:32

Prep Type: Total/NA

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	20.0	19.8		ug/L		99	68 - 133
cis-1,2-Dichloroethene	20.0	19.7		ug/L		99	78 - 121
Tetrachloroethene	20.0	20.9		ug/L		105	70 - 127
trans-1,2-Dichloroethene	20.0	20.1		ug/L		101	74 - 126
Trichloroethene	20.0	19.7		ug/L		99	71 - 121
Vinyl chloride	20.0	19.0		ug/L		95	55 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 128
Dibromofluoromethane (Surr)	91		77 - 124
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene	118		76 - 120

Lab Sample ID: LCSD 460-908577/4

Matrix: Water

Analysis Batch: 908577

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Spike LCSD LCSD %Rec	RPD
Analyte Added Result Qualifier Unit D %Rec Limits RPD	Limit
1,1-Dichloroethene 20.0 20.0 ug/L 100 68 - 133 1	30
cis-1,2-Dichloroethene 20.0 20.5 ug/L 102 78 - 121 4	30
Tetrachloroethene 20.0 21.4 ug/L 107 70 - 127 2	30
trans-1,2-Dichloroethene 20.0 20.2 ug/L 101 74 - 126 0	30
Trichloroethene 20.0 20.1 ug/L 100 71 - 121 2	30
Vinyl chloride 20.0 20.0 ug/L 100 55 - 144 5	30

LCSD LCSD

Surrogate	%Recovery Qualifie	er Limits
1,2-Dichloroethane-d4 (Surr)	100	70 - 128
Dibromofluoromethane (Surr)	91	77 - 124
Toluene-d8 (Surr)	99	80 - 120

Eurofins Cleveland

Page 12 of 21

Job ID: 240-184629-1

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

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

Lab Sample ID: LCSD 460-908577/4 **Matrix: Water**

Analysis Batch: 908577

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 119 76 - 120

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

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Dil Fac

Dil Fac

Lab Sample ID: MB 460-907549/8

Matrix: Water

Analysis Batch: 907549

MB MB Analyte Result Qualifier

1,4-Dioxane 2.0 U MB MB

%Recovery

Surrogate 4-Bromofluorobenzene 105

Qualifier Limits

Spike

Added

5.00

75 - 133

RL

2.0

LCS LCS

LCSD LCSD

Result

4.20

Qualifier

4.09

Result Qualifier

Unit

ug/L

Unit

ug/L

MDL Unit

0.86 ug/L

Prepared

D

%Rec

%Rec

82

Prepared

D

05/07/23 00:11

Prep Type: Total/NA

Client Sample ID: Method Blank

Analyzed

05/07/23 00:11

Analyzed

Client Sample ID: Lab Control Sample

%Rec

Limits

57 - 124

Prep Type: Total/NA

Lab Sample ID: LCS 460-907549/4

Matrix: Water

1,4-Dioxane

Analysis Batch: 907549

Analyte

Surrogate

Lab Sample ID: LCSD 460-907549/5

4-Bromofluorobenzene

LCS LCS %Recovery Qualifier 107

Limits 75 - 133

Client Sample ID: Lab Control Sample Dup

%Rec

Limits

57 - 124

Prep Type: Total/NA

RPD

RPD

Limit

30

Matrix: Water

4-Bromofluorobenzene

Analysis Batch: 907549

Analyte 1,4-Dioxane

LCSD LCSD Surrogate %Recovery Qualifier

108

Limits 75 - 133

Spike

Added

5.00

Eurofins Cleveland

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-184629-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 907549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184629-2	MW-91S_050123	Total/NA	Water	8260D SIM	
MB 460-907549/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-907549/4	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 460-907549/5	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

Analysis Batch: 908577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184629-1	TRIP BLANK_106	Total/NA	Water	8260D	
240-184629-2	MW-91S_050123	Total/NA	Water	8260D	
MB 460-908577/8	Method Blank	Total/NA	Water	8260D	
LCS 460-908577/2	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-908577/4	Lab Control Sample Dup	Total/NA	Water	8260D	

3

4

£

9

11

13

14

Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-184629-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_106

Lab Sample ID: 240-184629-1 Date Collected: 05/01/23 00:00

Matrix: Water

Date Received: 05/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908577	SZD	EET EDI	05/11/23 23:56

Client Sample ID: MW-91S_050123 Lab Sample ID: 240-184629-2

Date Collected: 05/01/23 13:00 Matrix: Water

Date Received: 05/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908577	SZD	EET EDI	05/12/23 03:43
Total/NA	Analysis	8260D SIM		1	907549	KLB	EET EDI	05/07/23 06:39

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: 240-184629-1

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

3

4

5

8

9

a a

12

14

bal so	TestAmerica Laboratory Iocation: Brighton 10448 Clta	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	29-2763	THE LEADER IN ENVIRONMENTAL TEST
Client Contact	Regulatory program: DW	NPDES RCRA Cther		•
Address 28550 Caba Drive Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
CityKate/Zin: Navi MI 4877	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	900
Phone: 248.994.7240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Project Name: Ford LTP Off-Site Project Number: 30167538.402.04	Sampler Name: 52th Wrndf Method of Shipment Carrier:	()		Walk-in client Lab sampling
PO # 30167538.402.04	Shipping/Tracking No:	nple (Y /	© 8500B	Job/SDG No:
Sample identification	Sample Date Sample Time Adverses Solid Other:	HCO3 HCO3 HCO3 HCO4 HCC Composite Other:	r, 1-DCE 8260 cis-1, 2-DCE Trans-1, 2-DC Vinyl Chlorid	Sample Specific Notes / Special Instructions:
Ø TRIP BLANK_ \06	5/1/23 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	× × × ×	1 Trip Blank
6 MW-915_050123	5/1/23 1300 6	79	× × × × × ×	3 VOAs for 8260B 3 VOAs for 8260B SIM
				MOHIGAN
		240-184629 Chain of Custody		130
Possible Hazard Identification Non-Hazard Flammable Skin 1	Skin Irritant Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client	mples are retailed longer than 1 month)	
s/QC Requirements & Comments 人の3件 写 代 いらその through Cadena at Itomalia@ g requested.				
ReInquished by: AWTWW		1,011	Storage Company:	Date/Time: 5/2/3/ 1600
Relinquished by	Company: Date/Time: 5/3/23	3	Company:	Date/Time: 5/3/23 1237
7 Comments	The Colors	Received in Laboratory by	Company	Date/Time:

	16 6
Eurofins - Canton Sample Receipt Form/Narrative Barberton Facility	Login # : 184629
Client Arcadis Site Name	Cooler unpacked by:
Cooler Received on 5 4 23 Opened on 5 4 5	Bachelle HAidet
	s Courier Other
	rage Location
	Other
Packing material used: Bubble Wrap Foam Plastic Bag None COOLANT: Wet Ice Blue Ice Dry Ice Water None	Other
1. Cooler temperature upon receipt	Multiple Cooler Form
IR GUN # (CF	°C Corrected Cooler Temp°C
 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantite -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? Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (YN), # of container 10. Were correct bottle(s) used for the test(s) indicated? Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory. Were all preserved sample(s) at the correct pH upon receipt? Were VOAs on the COC? Were air bubbles >6 mm in any VOA vials?	Yes No NA Yes No NA Yes No NA Yes No Ces No Ces No Yes No
17. Was a LL Hg or Me Hg trip blank present?	Yes Yo
Contacted PM by	via Verbal Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Samples processed by:
19. SAMPLE CONDITION Sample(s) were received after the record sample(s) Sample(s) were received with b	were received in a broken container.
	,
20. SAMPLE PRESERVATION	
Sample(s)	were further preserved in the laboratory.
Sample(s)Preservative(s) added/Lot number(s):	•
NO. C. I. D. W. HOLD	

Login #: 184429

				Eurofine Contor	Sample Receipt M	ultiple Cooler Form	
-	-la-D-		41	IR Gun #	Observed	Corrected	Coolant
Co	oler De		tion		Temp °C		(Circle)
	(Circ	:10)		(Circle)		Temp °C	Wet ice Blue Ice Dry Ice
(EC	Client	Box	Other	IR GUN #:	1.2	1.2	Water None
13	Client	Вох	Other	IR GUN #:	1.6	1-6	Wet ice Blue 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 Water None
EC	Client	Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC	Cilent	Box	Other	IR GUN #:			Wet ice Blue 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 Water None
EC	Client	Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC	Client	Вох	Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #:	(15 <u>) </u>		Wet ice Blue 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 Water None
EC	Client	Box	Other	IR GUN #:			Wet ice Sive ice Dry ice 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 Stue Ice Dry Ice 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 Sive ice Dry ice Water None
EC	Client	Box	Other	IR GUN #:			Wet ice Sive ice Dry ice 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 Water None
€C	Client	Box	Other	IR GUN #:	_		Wet Ice Blue Ice Dry Ice Water None
€C	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 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 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 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 Water None
EC	Client	Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
						☐ See Tempe	rature Excursion Form

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

Eurofins Cleveland 180 S. Van Buren Avenue

Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

Environment Testing

eurofins 💸

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 does not currently maintain 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 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. TSP Dodecahydrate Special Instructions/Note: Z - other (specify) P - Na2O4S Q - Na2SO3 R - Na2S2O3 U - Acetone V - MCAA W - pH 4-5 0 - AsNa02 Months S - H2SO4 Y - Trizma Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Sompany Company Sompany Preservation Codes G - Amchlor H - Ascorbic Acid COC No: 240-167561.1 240-184629-1 D - Nitric Acid E - NaHSO4 C - Zn Acetate Page 1 of 1 I - Ice J - DI Water K - EDTA L - EDA Ó A - HCL B - NaOH F - MeOH redex 9 Total Number of containers Method of Shipment: Date/Time: Carrier Tracking No(s): 5 State of Origin: Michigan **Analysis Requested** Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: Received by: E-Mail: Michael. Del Monico@et.eurofinsus.com 500 Accreditations Required (See note) Received by: × Lab PM: DelMonico, Michael 3560D_SIM/5030C × × S60D/5030C (MOD) VOCs (Short List) (off to self) (New or No) Time: Filtered Sample (Yes or No) Preservation Code: (Wewater, Sesolid, Oewaste/oll, BT=Tissue, Water Water Company A=Ak) Company (C=comb, Sample G=grab) Type とせ Primary Deliverable Rank: 2 Eastern Eastern Sample 13:00 Time Date: (days): Due Date Requested: Sample Date 5/1/23 5/1/23 Project #: 24015353 5/17/2023 Date/Time: Phone: ₩OW Client Information (Sub Contract Lab) Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. Sample Identification - Client ID (Lab ID) Eurofins Environment Testing Northeast, 732-549-3900(Tel) 732-549-3679(Fax) TRIP BLANK_106 (240-184629-1) MW-91S_050123 (240-184629-2) Possible Hazard Identification EmphyKit Relinquished by: Custody Seals Intact: 777 New Durham Road, Shipping/Receiving △ Yes △ No Project Name: Ford LTP - Off Site Relinquished by: Jnconfirmed State, Zip: NJ, 08817 Edison mail: Page 20 of 21 5/18/2023

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-184629-1

List Source: Eurofins Edison
List Number: 2
List Creation: 05/05/23 12:42 PM

Creator: Armbruster, Chris

Cleator. Armbruster, Chris	
Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</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
Is 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

3

4

6

8

16

13

DATA VERIFICATION REPORT



May 18, 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: 184629-1 Sample date: 2023-05-01

Report received by CADENA: 2023-05-18

Initial Data Verification completed by CADENA: 2023-05-18

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: 184629-1

	Sample Name: TRIP BLANK_106								
	Lab Sample ID:	2401846	5291			2401846	5292		
	Sample Date:	5/1/202	3			5/1/202	3		
			Report		Valid		Report		Valid
Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC									
OSW-8260D									
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-8260DSIM									
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 # 240-184629-1

CADENA Verification Report: 2023-05-18

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49777R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-184629-1 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 Collection		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_106	240-184629-1	Water	05/01/23		Х	
MW-91S_050123	240-184629-2	Water	05/01/23		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep		mance ptable	Not	
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
Master tracking list		Х		Х	
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 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 eptable	Not
	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: Dilip Kumar

SIGNATURE:

DATE: June 12, 2023

PEER REVIEW: Andrew Korycinski

DATE: June 21, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record



Date/l'ime:

TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, Mt 48116 / 810-229-2763 Client Contact Regulatory program: NPDES RCRA Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs 1 of 1 Analysis Turnaround Time Email: kristoffer.hinskey@arcadis.com Analyses For lab use only Phone: 248-994-2240 Sampler Name: TAT if different from below Walk-in client Project Name: Ford LTP Off-Site 3 weeks Setn lurner Lab sampling Project Number: 30167538.402.04 Method of Shipment/Carrier: 1 week SIN Filtered Sample (Y / N) 2 days Vinyl Chloride 8260B 8260B PO # 30167538.402.04 Shipping/Tracking No: ☐ I day Job/SDG No: Matrix Containers & Preservatives Sample Specific Notes / HC Special Instructions: Sample Date Sample Time Sample Identification NG Х TRIP BLANK Χ Х X 1 Trip Blank MW-915_050123 6 3 VOAs for 8260B NG X X 3 VOAs for 8260B SIM Page of 478 240-184629 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Skin Irritant Non-Hazard Flammable Poison B Unknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Sample Address: 12034 M (2w5+0/ Submit all results through Cadena at itomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by: Arcadis cold storage Alladis Relinquished by Date/Time 5/3/23

2740

008, TestAmenca Laboratories, Inc. All rights reserved. IfAmerica & Design ^{1M} are trademarks of TestAmerica Laboratories, Inc.

Relinquished by

Eurofins Cleveland

180 S. Van Buren Avenue Barberton, OH 44203

Chain of Custody Record



eurofins

Environment Testing

Phone: 330-497-9396 Fax: 330-497-0772														E .					
Client Information (Sub Contract Lab)	Sampler:				ab PM: Del M on	nico,	Mich	ael				C	Carrier ⁻	Tracking	No(s):			COC No: 240-167561.1	
Client Contact: Shipping/Receiving	Phone:				-Mail: ⁄Iichae		_			_			State of Michig					Page: Page 1 of 1	
Company: Eurofins Environment Testing Northeast,					Acc	credi	tations	Requi	red (See	e note):								Job #: 240-184629-1	
Address:	Due Date Requeste	ed:			\top					A l		5						Preservation Cod	
777 New Durham Road, , Citv:	5/17/2023 TAT Requested (date)	ane).	-		160					Anai	ysis	Requ	Jeste	a			252.5	A - HCL	M - Hexane N - None
City: Edison																		B - NaOH C - Zn Acetate	O - AsNaO2 P - Na2O4S
State, Zip: NJ, 08817																		D - Nitric Acid E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:				2		<u>ੂ</u>											G - Amchlor	S - H2SO4 T - TSP Dodecahydrate
Email:	WO #:				S or No	No)	(Short List)										20	H - Ascorbic Acid I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: Ford LTP - Off Site	Project #: 24015353	****			100	00 80	VOCs (S										taine	K - EDTA L - EDA	W - pH 4-5 Y - Trizma Z - other (specify)
Site:	SSOW#:				dia	50	١٥٥										fcol	Other:	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab) Preservati	Water S=solid, O=waste/o BT=Tissue A=Air)	Field Filtere	Perform MS/MS	8260D/5030C (MOD)	8260D_SIM/5030C									Total Number o	Special Ins	structions/Note:
RIP BLANK 106 (240-184629-1)	5/4/00		Fleservati			*		200	-50		8 5533	0.00			1000		A		
	5/1/23	Eastern		Water			×	_	\perp	_	\perp	\vdash				\perp	1		
MW-91S_050123 (240-184629-2)	5/1/23	13:00 Eastern		Water			X	Х									6		
4 7 8 · · · · · · · · · · · · · · · · · ·																			
						L													
									\perp	_	_	\sqcup		_					
										\perp									
Note: Since laboratory accreditations are subject to change, Eurofins Environmer laboratory does not currently maintain accreditation in the State of Origin listed at accreditation status should be brought to Eurofins Environment Testing North Ce	ove for analysis/tests	s/matrix being	analyzed, the sa	moles mu	ist ha sh	hinne	d back	to the	Furnfine	s Envir	onmeni	Testing	n North	Central		horston	or othe	or instructions will be a	rouided Any changes to
Possible Hazard Identification Unconfirmed						Sai	mple	Disp	osal (To Clie	A fee	may [be as	Sess	ed if s	ample	s are r		ned longer than 1 hive For	
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	2			1-			ctions/					гвус	au		Arci	Tive For	Months
Empty Kit Relinquished by:		Date:			Tir	me:							Me	ethod of	Shipme	ent:	-e	dex	
Refinquished by:	Date/Time:	14	00 F	ompany ompany	πV	/		ved by	20	Jì.	sh	0_			Date/T	5/2	3	10:10	Company
Relinquished by:	Date/Time:		c	ompany				ved by			•				Date/T	ime:			Company
ວ Custody Seals Intact: Custody Seal No.:							Coole	r Temp	erature	(s) °C a	and Oth	ner Rem	narks:		<u></u>				
Δ Yes Δ No							L	1	R:	9	_2	1	è	2	١ċ				

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184629-1

Client Sample ID: TRIP BLANK_106

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-184629-1

Date Collected: 05/01/23 00:00 **Matrix: Water** Date Received: 05/04/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/11/23 23:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 23:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 23:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 128			-		05/11/23 23:56	1
Dibromofluoromethane (Surr)	99		77 - 124					05/11/23 23:56	1
Toluene-d8 (Surr)	100		80 - 120					05/11/23 23:56	1
4-Bromofluorobenzene	117		76 - 120					05/11/23 23:56	1

Lab Sample ID: 240-184629-2 Client Sample ID: MW-91S_050123

Date Collected: 05/01/23 13:00 Date Received: 05/04/23 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) Result Qualifier Analyte MDL Unit Analyzed D Prepared Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/07/23 06:39

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		75 - 133			-		05/07/23 06:39	1
Method: SW846 8260D - Volat	ile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/12/23 03:43	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/12/23 03:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 03:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 03:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 03:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 03:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 03:43	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	108		70 - 128		05/12/23 03:43	1
	Dibromofluoromethane (Surr)	96		77 - 124		05/12/23 03:43	1
	Toluene-d8 (Surr)	99		80 - 120		05/12/23 03:43	1
L	4-Bromofluorobenzene	116		76 - 120		05/12/23 03:43	1

Matrix: Water