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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/18/2023 4:20:15 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-184788-1

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 4:20:15 PM

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: 240-184788-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-184788-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or r	may not be present in this report
Abbreviation	These confinionly used appreviations may of i	nay 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

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Case Narrative

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

Job ID: 240-184788-1

Job ID: 240-184788-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-184788-1

Receipt

The samples were received on 5/5/2023 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 1.0°C and 1.8°C

GC/MS VOA

Method 8260D: Surrogate recoveries for the following sample were outside the upper control limit: TRIP BLANK_159 (240-184788-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Method Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

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

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

Eurofins Cleveland

Job ID: 240-184788-1

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Sample Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-184788-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-184788-1	TRIP BLANK_159	Water	05/03/23 00:00	05/05/23 08:00
240-184788-2	MW-88S_050323	Water	05/03/23 12:20	05/05/23 08:00

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-184788-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_159 Lab Sample ID: 240-184788-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184788-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_159

Date Collected: 05/03/23 00:00 Date Received: 05/05/23 08:00 Lab Sample ID: 240-184788-1

Matrix: Water

Method: SW846 8260D - Vo Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/12/23 15:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 15:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 15:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 15:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 15:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 128			•		05/12/23 15:58	1
Dibromofluoromethane (Surr)	125	S1+	77 - 124					05/12/23 15:58	1
Toluene-d8 (Surr)	122	S1+	80 - 120					05/12/23 15:58	1
4-Bromofluorobenzene	121	S1+	76 - 120					05/12/23 15:58	1

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184788-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-88S_050323

Date Collected: 05/03/23 12:20 Date Received: 05/05/23 08:00

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

4-Bromofluorobenzene

Lab Sample ID: 240-184788-2

05/12/23 17:03

05/12/23 17:03

05/12/23 17:03

Matrix: Water

Method: SW846 8260D SIN	I - Volatile Orga	anic Comp	ounds (GC/M	S)					
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 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		75 - 133					05/16/23 12:57	1
- Method: SW846 8260D - Vo	olatile Organic	Compoun	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 17:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 17:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 17:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 17:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 17:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 128					05/12/23 17:03	1

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80 - 120

76 - 120

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Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-184788-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Rec
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)
240-184788-1	TRIP BLANK_159	81	125 S1+	122 S1+	121 S1+
240-184788-2	MW-88S_050323	100	104	105	103
LCS 460-908741/4	Lab Control Sample	97	97	104	98
LCSD 460-908741/5	Lab Control Sample Dup	101	99	105	101
MB 460-908741/9	Method Blank	99	98	103	94

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)	
240-184788-2	MW-88S_050323	94	
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

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Client: ARCADIS US Inc Job ID: 240-184788-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 460-908741/9

Matrix: Water

Analysis Batch: 908741

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

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 05/12/23 11:09 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/12/23 11:09 1.0 U 0.44 ug/L Tetrachloroethene 1.0 05/12/23 11:09 0.51 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 05/12/23 11:09 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/12/23 11:09 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/12/23 11:09

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 99 70 - 128 1,2-Dichloroethane-d4 (Surr) 05/12/23 11:09 Dibromofluoromethane (Surr) 98 77 - 124 05/12/23 11:09 103 80 - 120 Toluene-d8 (Surr) 05/12/23 11:09 4-Bromofluorobenzene 94 76 - 120 05/12/23 11:09

Lab Sample ID: LCS 460-908741/4

Matrix: Water

Analysis Batch: 908741

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Limits Analyte Result Qualifier Unit %Rec 1,1-Dichloroethene 20.0 98 68 - 133 19.6 ug/L cis-1,2-Dichloroethene 20.0 20.7 ug/L 104 78 - 121 Tetrachloroethene 20.0 20.9 104 ug/L 70 - 127 74 - 126 trans-1.2-Dichloroethene 20.0 19.8 ug/L 99 Trichloroethene 20.0 19.3 ug/L 96 71 - 121 Vinyl chloride 20.0 20.5 ug/L 102 55 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 97 70 - 128 Dibromofluoromethane (Surr) 97 77 - 124 Toluene-d8 (Surr) 104 80 - 120 76 - 120 4-Bromofluorobenzene 98

Lab Sample ID: LCSD 460-908741/5

Matrix: Water

Analysis Batch: 908741

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	19.7		ug/L		99	68 - 133	1	30
cis-1,2-Dichloroethene	20.0	21.2		ug/L		106	78 - 121	2	30
Tetrachloroethene	20.0	21.6		ug/L		108	70 - 127	4	30
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	74 - 126	3	30
Trichloroethene	20.0	19.3		ug/L		97	71 - 121	0	30
Vinyl chloride	20.0	20.7		ug/L		104	55 - 144	1	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 128
Dibromofluoromethane (Surr)	99		77 - 124
Toluene-d8 (Surr)	105		80 - 120

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Client: ARCADIS US Inc Job ID: 240-184788-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCSD 460-908741/5

Matrix: Water

Analysis Batch: 908741

LCSD LCSD

Surrogate%RecoveryQualifierLimits4-Bromofluorobenzene10176 - 120

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: MB 460-909423/7

Matrix: Water

Analysis Batch: 909423

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac
4-Bromofluorobenzene 92 75 - 133 05/16/23 09:43 1

Lab Sample ID: LCS 460-909423/3

Matrix: Water

Analysis Batch: 909423

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 5.00 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

Matrix: Water

Analysis Batch: 909423

Spike LCSD LCSD **RPD** %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 1.4-Dioxane 5.00 5.66 ug/L 113 57 - 124

LCSD LCSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene
 91
 75 - 133

Eurofins Cleveland

QC Association Summary

Client: ARCADIS US Inc

Job ID: 240-184788-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 908741

Lab Sample ID 240-184788-1	Client Sample ID TRIP BLANK_159	Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batch
240-184788-2	MW-88S_050323	Total/NA	Water	8260D	
MB 460-908741/9	Method Blank	Total/NA	Water	8260D	
LCS 460-908741/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-908741/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 909423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184788-2	MW-88S_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	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-184788-1

Project/Site: Ford LTP - Off Site

Date Received: 05/05/23 08:00

Client Sample ID: TRIP BLANK_159

Lab Sample ID: 240-184788-1 Date Collected: 05/03/23 00:00 **Matrix: Water**

Batch Batch Dilution Batch Prepared **Prep Type** Method Run **Factor** Number Analyst or Analyzed Type Lab 05/12/23 15:58 Total/NA Analysis 8260D 908741 MZS EET EDI

Client Sample ID: MW-88S_050323 Lab Sample ID: 240-184788-2

Date Collected: 05/03/23 12:20 **Matrix: Water**

Date Received: 05/05/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908741	MZS	EET EDI	05/12/23 17:03
Total/NA	Analysis	8260D SIM		1	909423	SZD	EET EDI	05/16/23 12:57

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-184788-1

Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Edison

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

Authority			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		

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Client Contact	Regulatory program: DW	NPDES RCRA Other		
Company Name: Arcadis				TestAmerica Laboratories Inc
Add Some Color of the Color of the Color	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
Address: 28550 Cabot Drive, Suite 500	Tolumbone, 249 004 3240	07-1	00 4 4	
City/State/Zip: Novi, MI, 48377	l elephone: 748-954-2240	1 elephone: 248-494-2240	Telephone: 330-497-9396	1 of 1 COC
Physics 749, 604, 2740	Email: kristoffer.hinskey@arcadis.com	Assiyats Turnaround Time	Analyses	kļu
Project Name: Ford LTP Off-Site	Sampler Name:	TAT if different from below 3 weeks		Walk-in client
Project Number: 30167538.402.04	Method of Shipment/Carrier:	(Lab sampling
PO#30167538.402.04	Shipping/Tracking No:	-den3	80928	Johns DG No:
	Matrix	/3-	B B uide E	
Sample Identification	Sample Date Sample Time Ar Solid	H2SO4 H2SO4 NaOH NaOH Capres Compess Filtered 8 Filtered 8	cis-1,2-DC FCE 8260 TCE 8260 Vinyl Chlo	Sample Specific Notes / Special Instructions:
• TRIP BLANK_ 159	1 12/5/5	× 0 Z	×	1 Trip Blank
0 171W-885-050323	9) 0221 86/8/5	NGX NGX	× × × ×	3 VOAs for 8260B
F				
Page				
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f 21				
		240-184788 Chain of Custody	ustody	HIGAN
				190
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	itant Poison B Unknown	Sample Disposal (A fee may be assessed If sample Return to Client Disposal By Lab	may be assessed if samples are retained longer than I month) V. Disnosal By Lab. Archive For Months	
os/QC Requirements & Compounts: 3: 4965 Its through Cadena at jtomalia(
Relinquished by: Lespe		1805 Received by Cold	Strace Company:	Date/Time:
Reinquished by Man	Company: Date/Time:	1035 Received by 1	Company:	Time:
Relinquished by:		10,40 Received in Laboratory by:	RL COMPANY	C-23
COOOD, Taukhwatez Leboratons, hc. Al 19th meanwel. Taukhwatez & Compy — are tendinasts of fest/stress absorate on hc.				

TestAmerica

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

Chain of Custody Record

	10.1006
Eurofins - Canton Sample Receipt Form/Narrative Login # :_ Barberton Facility	184.180
Client AYCOUS Site Name	Cooler unpacked by:
Cooler Received on 5 · 5 · 23 Opened on 5 · 5 · 23	Manaletyn Bla
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Oth	er
Receipt After-hours: Drop-off Date/Time Storage Location	
Eurofins Cooler # Foam Box Client Cooler Box Other	
COOLANT: Wel Ice Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt See Multiple Cooler For	
IR GUN # (CF°C) Observed Cooler Temp °C C	orrected Cooler Temp°C
14. Were VOAs on the COC? 15. Were air bubbles >6 mm in any VOA vials? 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	No NA No
17. Was a LL Hg or Me Hg trip blank present? Yes	Ng
Contacted PM Date by via Verbal Ve	oice 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	ng time had expired.
	in a broken container.
Sample(s) were received with bubble >6 mm in	diameter. (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s)	1
Sample(s) were further time preserved: Preservative(s) added/Lot number(s):	her preserved in the laboratory.
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login #: 184788

Cooler D	opprintie-		Sample Receipt Mu		Coolant
	escription rcle)	IR Gun #	Observed Temp °C	Corrected Temp °C	(Circle)
EC Client	Box Other	(Circle) IR GUN #:	/ <u>·</u> ()		Wet ice Bive ice Dr
	~-	IR GUN #: 20		1.0	Wet ice Blue ice Dr
EC Client	Box Other		1.8	1.8	Water None
EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry Water None
EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry Water None
EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry Water None
EC Client	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Water None
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EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry Water None
EC Client	Box Other	IR GUN #:			Wet Ice Blue Ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry Water None
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EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry Water None
EC Client	Box Other	IR GUN #:			Wet Ice Blue Ice Dry Water None
EC Client	Box Other	IR GUN #:			Wet Ice Blue Ice Dry
EC Client	Box Other	IR GUN #:			Wet Ice Blue Ice Dry
EC Client	Box Other	IR GUN #:			Wet ice Blue ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet Ice Stue Ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet ice Blue ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet ice Blue ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet ice Blue ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry
	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet ice Blue ice Dry
EC Client	Box Other	IR GUN #:			Water None Wet ice Blue ice Dry
EC Client		IR GUN #:			Water None Wet ice Blue ice Dry
	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry I
EC Client	Box Other	IR GUN #:			Water None Wet Ice Blue Ice Dry I
EC Client	Box Other			☐ See Tem	Water None perature Excursion Form

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

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Eurofins Cleveland

Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772 180 S. Van Buren Avenue

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 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. TSP Dodecahydrate Special Instructions/Note: Z - other (specify) Q - Na2SO3 R - Na2S2O3 U - Acetone V - MCAA W - pH 4-5 Months 0 - AsNa02 P - Na204S 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 Mon Preservation Codes COC No: 240-167789.1 H - Ascorbic Acid 240-184788-1 C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH Page 1 of 1 J - DI Water K - EDTA L - EDA G - Amchlor B - NaOH A - HCL Archive For 9 Total Number of containers Carrier Tracking No(s): State of Origin: Michigan **Analysis Requested** Special Instructions/QC Requirements: Michael.DelMonico@et.eurofinsus.com Accreditations Required (See note) Return To Client × Lab PM: DelMonico, Michael × × 3560D/5030C (MOD) VOCs (Short List) ILLE MENNISD (Yes OF NO) Filtered Sample (Yes or No). E-Mail: Sesolid, Oewaste/oil, BT=Tissue, Preservation Code: Water Water A=AF) (C=comp, Sample G=grab) Type Primary Deliverable Rank: 2 Eastern Sample Eastern Time 12:20 AT Requested (days) Due Date Requested: 5/18/2023 Sample Date 5/3/23 5/3/23 Project #: 24015353 Phone: # OM Client Information (Sub Contract Lab) Deliverable Requested: I, II, III, IV, Other (specify) Sample Identification - Client ID (Lab ID) Eurofins Environment Testing Northeast, 732-549-3900(Tel) 732-549-3679(Fax) TRIP BLANK_159 (240-184788-1) MW-88S_050323 (240-184788-2) Possible Hazard Identification Empty Kit Relinquished by: 777 New Durham Road Shipping/Receiving Project Name: Ford LTP - Off Site Jnconfirmed State, Zip: NJ, 08817 Edison Email:

Company Company Company 10,30 Peder 10 Date/Time: Method of Shipment: Cooler Temperature(s) °C and Other Remarks: eni s Received by: Time: Company 1333 Date: Date/Time: Custody Seal No. Custody Seals Intact: Relinquished by:

5/18/2023

Client: ARCADIS US Inc Job Number: 240-184788-1

Login Number: 184788 List Source: Eurofins Edison
List Number: 2 List Creation: 05/09/23 01:20 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	
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	

DATA VERIFICATION REPORT



May 19, 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: 184788-1 Sample date: 2023-05-03

Report received by CADENA: 2023-05-18

Initial Data Verification completed by CADENA: 2023-05-19

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

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

The following minor QC exceptions or missing information were noted:

GCMS VOC sample -001 SURROGATE recoveries were outliers biased high for at least 1 surrogate. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

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 Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 184788-1

		Sample Name:	TRIP BLA	ANK_159)		MW-88S_050323						
		Lab Sample ID:	2401847	7881			2401847	7882					
		Sample Date:	5/3/202	.3			5/3/2023						
				Report		Valid		Report		Valid			
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier			
GC/MS VOC													
OSW-8260	<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-8260	<u>ODSIM</u>												
	1,4-Dioxane	123-91-1					ND	2.0	ug/l				



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-184788-1

CADENA Verification Report: 2023-05-19

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49786R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-184788-1 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	ysis	
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM	
TRIP BLANK_159	240-184788-1	Water	05/03/23		Х		
MW-88S_050323	240-184788-2	Water	05/03/23		X	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		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.

All identified compounds met the specified criteria.

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		X		Х	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:

DATE: June 19, 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

TestAmerica

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

Client Project Manager: Kris Hinskey Client Project Manager: Kris Hinskey Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 Telephone: 330-497-9396 Telephone: 330-497-9396 Telephone: 330-497-9396 Telephone: 330-497-9396 Total Turnaround Time Analyses For lab use only TAT if different form below 3 weeks 10 day 2 weeks 1 week 2 days 2 days 1 day Telephone: 330-497-9396 Total Turnaround Time Analyses For lab use only Walk-in client Lab sampling Joh/SDG No: Sample Date Sample Tracking No: TRIP BLANK 159 TRIP BLANK 159 TRIP BLANK 159 TRIP BLANK Telephone: 248-994-2240 Telephone: 348-994-2240 Telephone: 330-497-9396 Telephone: 330-497-9396 Telephone: 330-497-9396 Telephone: 348-994-2240 Telephone: 330-497-9396 Telephone: 348-994-2240 Telephone: 330-497-9396 Telephone: 348-994-2240 Telephone: 330-497-9396 Total Turnaround Time Analyses For lab use only Walk-in client Lab sampling Joh/SDG No: Sample Date Sample Time Telephone: 348-994-2240 TAT if different form below 3 weeks 1 week 2 days 2 days 2 days 3 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Client Contact Company Name: Arcadis	Regulate	ory program:	:	1	DW		NPDES		1 1	RCRA		0	ther											
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Project Manufact Food Stamplet Name Samplet Name	City/State/Zip: Novi, MI, 48377	I elepnone: 248-	-994-2240				Tele	phone: .	248-9	94-224	10				Tel	ephon	e: 330	497-9	396						1 of 1 COCs
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Eurofins Cleveland

180 S. Van Buren Avenue Barberton, OH 44203

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

Chain of Custody Record



eurofins

Environment Testing

Client Information (Sub Contract Lab)	Sampler: Lab					PM: Monico, Michael					Сап	Carrier Tracking No(s):				COC No: 240-167789.1				
Client Contact: Shipping/Receiving	Phone: E-M Mic						: ael.DelMonico@et.eurofinsus.com						State of Origin: Michigan					Page: Page 1 of 1		
Company: Eurofins Environment Testing Northeast,									d (See i				3					Job #: 240-184788-1		
Address:	Due Date Requeste	ed:			+	Preservation Codes:														
777 New Durham Road, , City:	5/18/2023 TAT Requested (da	rys):			180		Analysis R						Requested				100.00	A - HCL B - NaOH	M - Hexane N - None	
Edison State, Zip:																		C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S	
NJ, 08817																		E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3	
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:				6		et)											G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodeca	ahydrate
Email:	WO #:					•	MASD (Yes or No.) (MOD) VOCs (Short List) 330C										I - Ice U - Aceton J - DI Water V - MCAA	U - Acetone V - MCAA		
Project Name:	Project #:					O	s (Sh										liner	K - EDTA L - EDA	W - pH 4-5 Y - Trizma	
Ford LTP - Off Site Site:	24015353 SSOW#:					٤	000					1					cont	Other:	Z - other (specif	fy)
	Matrix					MOD	S030C (MOD							rof						
			Sample	(W=water, S=solid.	8			SIM/50									nmp			
		Sample	Type (C=comp,	O=waste/oil, BT=Tissue,		1	8260D/5030C	8260D_3									Total Nu			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	A=Ar) tion Code:		â	82	82									5	Special Ins	tructions/No	ote:
TRIP BLANK_159 (240-184788-1)	5/3/23	Eastern	11000110	Water			x	1000	100			90 POT		1900	(SE) (SE)			NA PARENT		
MW-88S_050323 (240-184788-2)	5/3/23	12:20		Water	Н		-	x	+		+	+-		\dashv	+	\vdash	6			
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Note: Since laboratory accreditations are subject to change, Eurofins Environmer laboratory does not currently maintain accreditation in the State of Origin listed ab	nt Testing North Cent	al, LLC places	the ownership	o of method,	analyte	& ac	credita	tion co	mpliance	e upon	our sub	contract	laborate	ories.	This san	nple shi	pmen	nt is forwarded under o	hain-of-custody.	If the
accreditation status should be brought to Eurofins Environment Testing North Ce	ntral, LLC attention in	mediately. If	all requested a	ccreditations	are cu	ment i	to date	e, return	the sig	ned Ch	ment 16 ain of C	ustody a	orth Cen attesting	trai, Li to sai	d compli	atory or ance to	Euro	r instructions will be p fins Environment Tes	rovided. Any cha ting North Centra	anges to al, LLC.
Possible Hazard Identification						Sam					nay be	1					taine	ed longer than 1	month)	
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	able Rank: 3	2		\dashv	Spec			o Clier		Quiren		osal B	/ Lab	1	<u> </u>	Arch	ive For	Months	
Empty Kit Relinquished by:					1		orar iii	.50.00	101137	20110	quiren	ionio.	Ina	1 . (0)		717				
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Relinquished by:	Date/Time:			Company		F	Receive	ed by:						C	ate/Time	9 :			Company	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No							Cooler	Tempe	rature(s	s) °C and	Other	Remark	s:							
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184788-1

Client Sample ID: TRIP BLANK_159

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-184788-1

Date Collected: 05/03/23 00:00 **Matrix: Water** Date Received: 05/05/23 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			05/12/23 15:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 15:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 15:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 15:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 15:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 128					05/12/23 15:58	1
Dibromofluoromethane (Surr)	125	S1+	77 - 124					05/12/23 15:58	1
Toluene-d8 (Surr)	122	S1+	80 - 120					05/12/23 15:58	1
4-Bromofluorobenzene	121	S1+	76 - 120					05/12/23 15:58	1

Client Sample ID: MW-88S_050323 Lab Sample ID: 240-184788-2

Date Collected: 05/03/23 12:20 Date Received: 05/05/23 08:00

Method: SW846 8260D SIM	/I - Volatile Orga	anic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/16/23 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		75 - 133			-		05/16/23 12:57	1

Method: SW846 8260D - \	Volatile Organic	Compound	ds by GC/MS						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/12/23 17:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 17:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 17:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 17:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 17:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 17:03	1
Surrogate	%Recovery	Qualifier	l imite				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	100		70 - 128		05/12/23 17:03	1	
Dibromofluoromethane (Surr)	104		77 - 124		05/12/23 17:03	1	
Toluene-d8 (Surr)	105		80 - 120		05/12/23 17:03	1	
4-Bromofluorobenzene	103		76 - 120		05/12/23 17:03	1	

Matrix: Water