PREPARED FOR

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

Generated 5/19/2023 2:40:29 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-184987-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 5/19/2023 2:40:29 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-184987-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-184987-1

Project/Site: Ford LTP - Off Site

Qualifiers

	VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

LOQ

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

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Limit of Quantitation (DoD/DOE)

MDL Method Detection Limit MLMinimum 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**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Cleveland

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Case Narrative

Client: ARCADIS US Inc

Job ID: 240-184987-1

Project/Site: Ford LTP - Off Site

Job ID: 240-184987-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-184987-1

Receipt

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

GC/MS VOA

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 460-909111 recovered outside control limits for the following analytes: cis-1,2-Dichloroethene and trans-1,2-Dichloroethene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

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Method Summary

Client: ARCADIS US Inc Job ID: 240-184987-1

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

5/19/2023

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Sample Summary

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

Job ID: 240-184987-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-184987-1	TRIP BLANK_92	Water	05/04/23 00:00	05/09/23 10:30
240-184987-2	MW-148S_050423	Water	05/04/23 08:25	05/09/23 10:30

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-184987-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_92 Lab Sample ID: 240-184987-1

No Detections.

Client Sample ID: MW-148S_050423 Lab Sample ID: 240-184987-2

No Detections.

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184987-1

Project/Site: Ford LTP - Off Site

Date Received: 05/09/23 10:30

Client Sample ID: TRIP BLANK_92

Lab Sample ID: 240-184987-1 Date Collected: 05/04/23 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 05/14/23 19:04 cis-1,2-Dichloroethene 1.0 U*+ 1.0 0.46 ug/L 05/14/23 19:04 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/14/23 19:04 trans-1,2-Dichloroethene 1.0 U*+ 1.0 0.51 ug/L 05/14/23 19:04 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/14/23 19:04 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/14/23 19:04 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 102 70 - 128 05/14/23 19:04 Dibromofluoromethane (Surr) 117 05/14/23 19:04 77 - 124 05/14/23 19:04 Toluene-d8 (Surr) 92 80 - 120 4-Bromofluorobenzene 109 76 - 120 05/14/23 19:04

Eurofins Cleveland

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184987-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-148S_050423

Date Collected: 05/04/23 08:25 Date Received: 05/09/23 10:30 Lab Sample ID: 240-184987-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/16/23 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		75 - 133			_		05/16/23 17:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/14/23 20:44	1
cis-1,2-Dichloroethene	1.0	U *+	1.0	0.46	ug/L			05/14/23 20:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 20:44	1
trans-1,2-Dichloroethene	1.0	U *+	1.0	0.51	ug/L			05/14/23 20:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 20:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/23 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 128			-		05/14/23 20:44	1
Dibromofluoromethane (Surr)	115		77 - 124					05/14/23 20:44	1
Toluene-d8 (Surr)	92		80 - 120					05/14/23 20:44	1
4-Bromofluorobenzene	105		76 - 120					05/14/23 20:44	1

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Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-184987-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)				
		DCA	DBFM	TOL	BFB	
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)	
240-184987-1	TRIP BLANK_92	102	117	92	109	
240-184987-2	MW-148S_050423	98	115	92	105	
LCS 460-909111/4	Lab Control Sample	97	115	93	110	
LCSD 460-909111/5	Lab Control Sample Dup	98	114	90	109	
MB 460-909111/11	Method Blank	101	121	93	108	
Surrogato Logond						

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)	
240-184987-2	MW-148S_050423	93	
LCS 460-909423/3	Lab Control Sample	96	
LCSD 460-909423/4	Lab Control Sample Dup	91	
MB 460-909423/7	Method Blank	92	

Surrogate Legend

BFB = 4-Bromofluorobenzene

Eurofins Cleveland

Client: ARCADIS US Inc Job ID: 240-184987-1

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

Lab Sample ID: MB 460-909111/11

Project/Site: Ford LTP - Off Site

Matrix: Water Analysis Batch: 909111

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/14/23 13:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/14/23 13:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 13:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/14/23 13:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 13:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/23 13:11	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 128	·	05/14/23 13:11	1
Dibromofluoromethane (Surr)	121		77 - 124		05/14/23 13:11	1
Toluene-d8 (Surr)	93		80 - 120		05/14/23 13:11	1
4-Bromofluorobenzene	108		76 - 120		05/14/23 13:11	1

Lab Sample ID: LCS 460-909111/4

Matrix: Water

Analysis Batch: 909111

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 20.0 21.8 109 68 - 133 1,1-Dichloroethene ug/L 20.0 22.2 cis-1,2-Dichloroethene ug/L 111 78 - 121 Tetrachloroethene 20.0 20.0 100 ug/L 70 - 127 74 - 126 trans-1,2-Dichloroethene 20.0 22.2 ug/L 111 Trichloroethene 20.0 17.8 89 71 - 121 ug/L Vinyl chloride 20.0 18.6 ug/L 93 55 - 144

Spike

Added

20.0

20.0

20.0

20.0

20.0

20.0

LCSD LCSD Result Qualifier

24.9

24.9

22 9

20.6

20.4

25.5 *+

ug/L

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 128
Dibromofluoromethane (Surr)	115		77 - 124
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene	110		76 - 120

Lab Sample ID: LCSD 460-909111/5

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 909111

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

			%Rec		RPD
Unit	D	%Rec	Limits	RPD	Limit
ug/L		124	68 - 133	13	30
ug/L		125	78 - 121	12	30
ug/L		114	70 - 127	13	30
ug/L		128	74 - 126	14	30
ug/L		103	71 - 121	15	30

55 - 144

102

LCSD	LC	SD
	_	

Surrogate	%Recovery Qua	alifier Limits
1,2-Dichloroethane-d4 (Surr)	98	70 - 128
Dibromofluoromethane (Surr)	114	77 - 124
Toluene-d8 (Surr)	90	80 - 120

Eurofins Cleveland

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Job ID: 240-184987-1

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

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

Lab Sample ID: LCSD 460-909111/5

Matrix: Water

Analysis Batch: 909111

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 109 76 - 120 Client Sample ID: Lab Control Sample Dup

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 Analyte Result Qualifier

1,4-Dioxane 2.0 U

MB MB

Surrogate %Recovery Qualifier

4-Bromofluorobenzene 92

Limits 75 - 133

Spike

Spike

Added

Limits

75 - 133

5.00

MDL Unit

0.86 ug/L

LCS LCS

LCSD LCSD

Result

5.66

Qualifier

Unit

ug/L

Prepared

%Rec

107

D

05/16/23 09:43

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

RL

2.0

Matrix: Water

Analysis Batch: 909423

Analyte Added Result Qualifier Unit 5.00 1,4-Dioxane 5.34 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

Analyte 1,4-Dioxane

LCSD LCSD

Surrogate %Recovery Qualifier 4-Bromofluorobenzene 91

Analyzed Dil Fac Prepared 05/16/23 09:43

Client Sample ID: Method Blank

Analyzed Dil Fac

Prep Type: Total/NA

Prep Type: Total/NA

%Rec

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Limits

57 - 124

%Rec RPD

%Rec Limits RPD Limit 57 - 124 30 113

Eurofins Cleveland

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-184987-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 909111

Lab Sample ID 240-184987-1	Client Sample ID TRIP BLANK_92	Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batch
240-184987-2	MW-148S_050423	Total/NA	Water	8260D	
MB 460-909111/11	Method Blank	Total/NA	Water	8260D	
LCS 460-909111/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-909111/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 909423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Pr	rep Batch
240-184987-2	MW-148S_050423	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: 240-184987-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_92

Lab Sample ID: 240-184987-1 Date Collected: 05/04/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	909111	AAT	EET EDI	05/14/23 19:04

Client Sample ID: MW-148S_050423 Lab Sample ID: 240-184987-2

Date Collected: 05/04/23 08:25 Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	909111	AAT	EET EDI	05/14/23 20:44
Total/NA	Analysis	8260D SIM		1	909423	SZD	EET EDI	05/16/23 17:54

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: 240-184987-1

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

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TestAmerica

MICHIGAN 190

Chain of Custody Record

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

TestAmerica Laboratories, Inc COC No: 5-18/23 / 1030 ps-04-23 1030 3 VOAs for 8260B 3 VOAs for 8260B SIM Sample Specific Notes / Special Instructions: 5 100 1 Trip Blank or lab use only Date/Time: 5/5/83 Valk-in client gnilqmes da ob/SDG No Date/Time Company: ETH Company. Months TINE NO Sample Disposal (A fee may be assessed if samples are retained longer than I month)
Return to Client

Disposal By Lab
Archive For Mo X MIS 809S8 ansxoid-4, Lab Contact: Mike DelMonico Vinyl Chloride 8260B Telephone: 330-497-9396 CE 8500B 240-184987 Chain of Custody OCE 8500B \times X 190928 300-7,1-8060 × cold Storage × × a-1,2-DCE 82608 1-DCE 8500B X Other NG <u>ග</u> C / Crab-G Z Filtered Sample (V / N) Site Contact: Christina Weave Analysis Turmeround Time Sther: RCRA Containers & Preservatives Received by Received by: Capres 2 weeks 1 week 2 days 1 day Telephone: 248-994-2240 HOW TAT if different from below /2VU/ HOEN NPDES 0 ЮH 10 day 1089 CONH 0501 1005 HZSO1 Other: 5/3/23 Date/Time: 5/8/13 Date/Time: 5/8/13 DW pilos Sample Name: наштра Unknown Email: kristoffer.hinskey@arcadis.com 0 snoonb Client Project Manager: Kris Hinskey 4IA Regulatory program: Sample Time Nethod of Shipment/Carrier: 835 Telephone: 248-994-2240 Company:
Company: Sample Address: 19.088 \$12WStQf Shipping/Tracking No: Company:
A (Oxd 15 Poison B 5/4/23 Sample Date 5/4/23 Skin Irritant Special Instructions/QC Requirements & Comments: dale Flammable Sample Identification mw-1485_050423 Client Contact Address: 28550 Cabot Drive, Suite 500 Project Number: 30167538.402.04 Project Name: Ford LTP Off-Site TRIP BLANK 92 Possible Hazard Identification Level IV Reporting requested City/State/Zip: Novi, MI, 48377 Company Name: Arcadis PO # 30167538.402.04 Phone: 248-994-2240 Non-Hazard Relinquished by Relinquished by: Relinquished by Page 17 of 21

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D2008 TestAmerica Laboratores, Inc. Afrights reserved TestAmerica & Design 1º are undernaris of TestAmerica Laboratorios, Ac

	161607
Eurofins - Canton Sample Receipt Form/Narrative Login # : Barberton Facility	[89984
	Cooler unpacked by:
Client Accadis Site Name	f. 1 M 1 = ++
Cooler Received on 05-09-23 Opened on 05-09-23	Lear- M. Smull
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Ott Receipt After-hours: Drop-off Date/Time Storage Location	ner
COOLANT: Wet Ice Blue Ice Dry Ice Water None	
	rm
IR GUN # (CF	Corrected Cooler Temp°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	No T
	No NA Tests that are not checked for pH by
· · ·	Receiving:
	No MA
3. Shippers' packing slip attached to the cooler(s)?	No VOAs Oil and Grease
4. Did custody papers accompany the sample(s)?	TOC
5. Were the custody papers relinquished & signed in the appropriate place? (b) Was/ware the payers (c) who collected the samples clearly identified on the COC?	No Loc
	No No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	No.
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and so	1.0
	D No
11. Sufficient quantity received to perform indicated analyses?	DNo
12. Are these work share samples and all listed on the COC?	(40)
If yes, Questions 13-17 have been checked at the originating laboratory.	
13. Were all preserved sample(s) at the correct pH upon receipt?	No NA pH Strip Lot# HC208070
14. Were VOAs on the COC?	. 110
15. Were air bubbles >6 mm in any VOA vials? Larger than this. 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 622 \ Yes	No NA
17. Was a LL Hg or Me Hg trip blank present? Yes	100
Contacted PM Date by via Verbal V	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 hold	
	l in a broken container.
Sample(s) were received with bubble >6 mm i	n diameter. (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s) were fur	ther preserved in the laboratory.
Sample(s)were fur Time preserved:Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login #: 184987

Cooler Description R Gun # (Circle) Temp ºC Coreted Coolent Circle) Temp ºC Circle Temp °C Temp °C Circle Temp °C		Eurofins - Canto	n Sample Receipt M	ultiple Cooler Form	
C C C C C C C C C C	Cooler Description				Coolant
C Cient Sox Other If GUN 9: 3 2 3 3 3 3 3 3 3 3	(Circle)	(Circle)		Temp °C	
C Cilent Box Other IR GUN 6 :	EC Client Box Other		2.7	2.8	Water None
C Client Box Other IR GUN 9:	EC Client Box Other	IR GUN #:		3.3	Water None
C C C C C C C C C C	(EC) Client Box Other	IR GUN #:	1.9		(Wet Ice) Blue Ice Dry Ice
EC Client Box Other IR GUN 6: Wel Ice Bulce Ex Other Worlder W	EC Client Box Other	IR GUN #:	4.2	4.3	
EC Client Sox Other IR GUN 9:	EC Client Box Other	IR GUN #:			
C. Client Box Other R GUN # : Wet to Blue loc Dy loc Wet	EC Client Box Other	IR GUN #:			
C C C C C C C C C C	EC Client Box Other				
EC Client Box Other R GUN 6:	EC Client Box Other	IR GUN #:			
EC Client Box Other R GUN 6: Well ce Blue Ice Oty Ice Well ce Blue Ice	EC Client Box Other	IR GUN #:			
EC Clear Box Other IR GUN 6	EC Client Box Other	IR GUN #:			
EC Client Box Other IR GUN 8:	EC Client Box Other	IR GUN #:			
R C Client Box Other R GUN 8:	EC Client Box Other	IR GUN #:			
RC Client Box Other R GUN 9:	EC Client Box Other	IR GUN #:			
EC	EC Client Box Other	IR GUN #:			
EC Client Box Other IR GUN #:	EC Client Box Other				
EC Client Box Other IR GUN 6:	EC Client Box Other	IR GUN #:			
BC Client Box Other IR GUN 6:	EC Client Box Other	IR GUN #:			
EC Client Box Other IR GUN 6:	EC Client Box Other				Water None
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WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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Chain of Custody Record

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

Eurofins Cleveland 180 S. Van Buren Avenue

eurofins | Environment Testing

TIIDITE: 330-497-9390 FAX: 330-497-0772												
Client Information (Sub Contract Lab)	Sampler:			Lab PM DelMo	Lab PM: DelMonico, Michael	ichael		Сапіе	Carrier Tracking No(s):		COC No: 240-167888.1	
Client Contact: Shipping/Receiving	Phone:			E-Mail Mich	hael.DelN	onico@et	E-Mail: Michael.DelMonico@et.eurofinsus.com		State of Origin: Michigan		Page: Page 1 of 1	
Company: Eurofins Environment Testing Northeast,					Accreditat	Accreditations Required (See note):	f (See note):				Job #: 240-184987-1	
Address: 777 New Durham Road, ,	Due Date Requested: 5/22/2023	ij					Analysis Requested	Reques	ed		ion Code	is: M - Hexane
City: Edison State, Zip:	TAT Requested (days):	ıys):									d d	N - None O - AsNaO2 P - Na2O4S
NJ, 08817 Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:					(as						u - nazso3 R - nazs203 S - H2SO4 T - TSP Dodecahydrate
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TRIP BLANK_92 (240-184987-1)	5/4/23	Eastern		Water		×						
MW-148S_050423 (240-184987-2)	5/4/23	08:25 Eastern		Water		×				9		
21												
										355		
										200		
										2.20		
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 listed above for analysis/leasts/matrix being analyzed, the shipped back to the Eurofins Environment Testing Orth Central, LLC laboratory or other instructions will be provided. Any changes to accorditation status should be brought to Eurofins Environment Testing North Central, LLC straining in according to according to the Eurofins Environment Testing North Central, LLC straining in according to according to the Eurofins Environment Testing North Central, LLC straining in according to the Eurofins Environment Testing North Central, LLC straining in according to the Eurofins Environment Testing North Central, LLC straining in according to the Eurofins Environment Testing North Central, LLC straining North Central, LLC straining in according to the Eurofins Environment Testing North Central, LLC straining North Central LLC str	nment Testing North Centrad above for analysis/tests	al, LLC places /matrix being a	the ownership analyzed, the sall requirested as	of method, ar amples must b	nalyte & acc	editation cor ack to the E	npliance upon our si irofins Environment	Decontract Is Testing Nor	boratories. This san to Central, LLC laboratories	ample shipmoratory or other	ent is forwarded under cha ner instructions will be prov	ain-of-custody. If the rided. Any changes to
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Unconfirmed			Return To Client	Disposal By Lab	Archive For	or	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Spe	Special Instructions/QC Requirements:	quirements:	ı		
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Custody Seals Intact: Custody Seal No.:	\\ \\		Cooler Temperature(s) °C and	Cooler Temperature(s) °C and Other Remarks: 4.1/4.1 5.1/5.2° C $\mp R$	8/15/14	2°C	7RF

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-184987-1

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

Creator: Armbruster, Chris

Creator: Armbruster, Chris		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s 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 <6 mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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DATA VERIFICATION REPORT



May 23, 2023

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

CADENA project ID: E203631

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

Project number: 30167538.402.04 off-site

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

Laboratory submittal: 184987-1 Sample date: 2023-05-04

Report received by CADENA: 2023-05-23

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

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

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

The following minor QC exceptions or missing information were noted:

GCMS VOC batch LCS or LCSD recoveries but not both or RPD only were outliers so for CIS and TRANS-1,2-DICHLOROETHENE so were not used to qualify client sample results based on these QC outliers alone.

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 $48108\ 517\text{-}819\text{-}0356$

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: 184987-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401849 5/4/202	9871						
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-826	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-184987-1

CADENA Verification Report: 2023-05-23

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49907R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-184987-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Ana	lysis	
Sample ID	Labib	Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_92	240-184987-1	Water	05/04/23		Х	
MW-148S_050423	240-184987-2	Water	05/04/23		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation		1			
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		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: Hrishikesh Upadhyaya

SIGNATURE:

DATE: June 09, 2023

Curuliland

PEER REVIEW: Andrew Korycinski

DATE: June 11, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190





Client Contact	Regulat	ory program:		-	DW		NPDE	ES	-	RC	RA		Oth	er										Turt America I about their In
Company Name: Arcadis	Client Project A	Manager: Kris	Hinsk	ey		Site	Conta	ct: C	hristi	na W	eaver				Lab	Conta	ct: M	ike De	iMon	co				TestAmerica Laboratories, L COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-1740			,	Tele	phone	. 249	- NO0-1	22.40					Tala	nkona	: 330-	107.0	306					
City/State/Zip: Novi, MI, 48377															Tene	Patoric	. 330							1 of 1 COCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	rom			Analy	NIS TE	urnar	oand	l'ame	-	16	\vdash			T		Analy	ses				For lab use only
	Sampler Name	:				TAT	if differ	rent fro				Į.		l										Walk-in client
Project Name: Ford LTP Off-Site	de	setn-	Tu	11	21	1	0 day			we eks we eks														Lab sampling
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:					Ĭ			we ek days		2	9	1		<u></u>			_	SIM				
PO # 30167538.402.04	Shipping/Track	uing No:								day		mbe (Y/N)	C/Grab-G	8	260B	E 8260			82606	8260B				Job/SDG No:
				N	latrix		Conta	daers	& Pre	serval	lves	二点		8260B	CE 8	P-DC	8	8	oride	ane 8				
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid Other:	H2SO4	HNO3	HCI	NaOH ZnAe/	Vapres	Other:	Filtered	Compos	1,1-DCE	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane				Sample Specific Notes / Special Instructions:
TRIP BLANK_ 92	5/4/23			1				1				-	I G	T		X	1					Ť	T	1 Trip Blank
MW-1485_050423	5/4/23	825		6				6				-	JG,	-	X	X	X	X	X	+			+	3 VOAs for 8260B 3 VOAs for 8260B SIM
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	kin Irritant 🕝 Poiso	on B	Unkr	own		5			to Cli		may be		ssea n		des ar		ined i Irchiv				n) onths			
Special Instructions/QC Requirements & Comments: Sample Address: 12088 B12WS44 Submit all results through Cadena at itomails@cr	rdenaco com Cadena i	E203631																						
Level IV Reporting requested.																		-						
Relinquished by:	Company: A Coold	15		5/5	3 /23	100 5	<u></u>		N	ed by: OV	Co	olo	L	Sta	OVO	98		Con	PA (ca	43	>		Date/Time: 5/5/23 100.5
Relinquished by:	Company:	rUIS		5/8	3/23/	ict	50	R	eceive	ed by	14	e	2			0		Con	apany:	EE	7.A			Date/Time: 5/8/23 / 1050
Relinquished by:	Company:	1		Date/1		105	0	R	lecejv	ed in I	Labora M.	tory	m m	#_				Con		TN				Date/Time: 05-09-23 1036
2008 TestAmenca Lagoratories, Inc. At rights reserved Laboratories, &c.				10/	1													1						
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184987-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_92

Lab Sample ID: 240-184987-1

Date Collected: 05/04/23 00:00 **Matrix: Water** Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/14/23 19:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/14/23 19:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 19:04	1
trans-1,2-Dichloroethene	1.0	U **	1.0	0.51	ug/L			05/14/23 19:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 19:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/23 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 128					05/14/23 19:04	1
Dibromofluoromethane (Surr)	117		77 - 124					05/14/23 19:04	1
Toluene-d8 (Surr)	92		80 - 120					05/14/23 19:04	1
4-Bromofluorobenzene	109		76 - 120					05/14/23 19:04	

Client Sample ID: MW-148S_050423 Lab Sample ID: 240-184987-2

Date Collected: 05/04/23 08:25 Date Received: 05/09/23 10:30

Method: SW846 8260D S	IM - Volatile Orga	anic Comp	ounds (GC/N	1S)					
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 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		75 - 133			-		05/16/23 17:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/14/23 20:44	1
cis-1,2-Dichloroethene	1.0	U **	1.0	0.46	ug/L			05/14/23 20:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 20:44	1
trans-1,2-Dichloroethene	1.0	U **	1.0	0.51	ug/L			05/14/23 20:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/23 20:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/23 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 2-Dichloroethane-d4 (Surr)			70 128					05/14/23 20:44	- 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	98		70 - 128		05/14/23 20:44	1	
Dibromofluoromethane (Surr)	115		77 - 124		05/14/23 20:44	1	
Toluene-d8 (Surr)	92		80 - 120		05/14/23 20:44	1	
4-Bromofluorobenzene	105		76 - 120		05/14/23 20:44	1	

Matrix: Water