

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/17/2023 7:19:43 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-184549-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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Authorization

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

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3

Qualifiers

Quannoro	
GC/MS VOA Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Job ID: 240-184549-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-184549-1

Receipt

The samples were received on 5/3/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

GC/MS VOA

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

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Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-184549-1	TRIP BLANK_03	Water	05/01/23 00:00	05/03/23 08:00
240-184549-2	MW-135S_050123	Water	05/01/23 13:38	05/03/23 08:00

Client Sample ID: TRIP BLANK_03

No Detections.

Client Sample ID: MW-135S_050123

No Detections.

Lab Sample ID: 240-184549-1

Lab Sample ID: 240-184549-2

This Detection Summary does not include radiochemical test results.

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Client Sample ID: TRIP BLANK_03 Date Collected: 05/01/23 00:00 Date Received: 05/03/23 08:00

Job ID: 240-184549-1

Lab Sample ID: 240-184549-1

Matrix: Water

5 6

8 9

Method: SW846 8260D - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/11/23 21:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 21:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 21:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 21:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 21:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 128					05/11/23 21:17	1
Dibromofluoromethane (Surr)	98		77 - 124					05/11/23 21:17	1
Toluene-d8 (Surr)	103		80 - 120					05/11/23 21:17	1
4-Bromofluorobenzene	117		76 - 120					05/11/23 21:17	1

Client Sample ID: MW-135S_050123 Date Collected: 05/01/23 13:38 Date Received: 05/03/23 08:00

Lab Sample ID: 240-184549-2 Matrix: Water

Matrix: Water

5 6

8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/07/23 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		75 - 133					05/07/23 03:04	1
Method: SW846 8260D - Vo	latile Organic	Compound	ds bv 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 01:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 01:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 01:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 01:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 01:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			70 - 128					05/12/23 01:04	1
Dibromofluoromethane (Surr)	98		77 - 124					05/12/23 01:04	1
Toluene-d8 (Surr)	102		80 - 120					05/12/23 01:04	1
4-Bromofluorobenzene	119		76 - 120					05/12/23 01:04	1

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Surrogate Summary

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

Lab Control Sample Dup

Method Blank

Prep Type: Total/NA

			Pe	ercent Surre	ogate Recovery (Ad	ceptance Limits)	
		DCA	DBFM	TOL	BFB		
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)		
240-184549-1	TRIP BLANK_03	108	98	103	117		_
240-184549-2	MW-135S_050123	110	98	102	119		
LCS 460-908577/2	Lab Control Sample	101	91	100	118		
LCSD 460-908577/4	Lab Control Sample Dup	100	91	99	119		
MB 460-908577/8	Method Blank	110	99	101	117		
Surrogate Legend							
DCA = 1,2-Dichloroet	thane-d4 (Surr)						
DBFM = Dibromofluo	romethane (Surr)						
TOL = Toluene-d8 (S	urr)						
BFB = 4-Bromofluoro	benzene						
Method: 8260D S	SIM - Volatile Organic	Compoun	ds (GC/	MS)			_
Matrix: Water						Prep Type: Total/I	NA
			P	ercent Surre	ogate Recovery (Ac	ceptance Limits)	
		BFB					
Lab Sample ID	Client Sample ID	(75-133)					1
240-184549-2	MW-135S_050123	108					_
LCS 460-907549/4	Lab Control Sample	107					

108

105

Surrogate Legend

LCSD 460-907549/5

MB 460-907549/8

BFB = 4-Bromofluorobenzene

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

Lab Sample ID: MB 460-908577/8 Matrix: Water

Analysis Batch: 908577

	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			05/11/23 20:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 20:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 20:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 20:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 20:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 20:32	1

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

Lab Sample ID: LCS 460-908577/2 Matrix: Water Analysis Batch: 908577

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

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

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

Spil	ke LCSD	LCSD			%Rec		RPD
Analyte Adde	ed Result	Qualifier U	Jnit D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene 20	.0 20.0	u	ıg/L	100	68 - 133	1	30
cis-1,2-Dichloroethene 20	.0 20.5	u	ıg/L	102	78 - 121	4	30
Tetrachloroethene 20	.0 21.4	u	ıg/L	107	70 - 127	2	30
trans-1,2-Dichloroethene 20	.0 20.2	u	ıg/L	101	74 - 126	0	30
Trichloroethene 20	.0 20.1	u	ıg/L	100	71_121	2	30
Vinyl chloride 20	.0 20.0	u	ıg/L	100	55 - 144	5	30

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

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

Job ID: 240-184549-1

Prep Type: Total/NA

Client Sample ID: Method Blank

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

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QC Sample Results

		Q	C Samp	le Resi	ults							1
Client: ARCADIS US Inc Project/Site: Ford LTP - Off S	Site								Job ID: 2	40-184	549-1	
Method: 8260D - Volati	le Organic	: Compc	ounds by	GC/MS (Contin	ued)						
Lab Sample ID: LCSD 460 Matrix: Water Analysis Batch: 908577	-908577/4				C	Client Sa	ample	ID: Lab	Control Prep Ty			
Surrogate	LCSD %Recovery		Limits									5
4-Bromofluorobenzene	119	Quaimer	76 - 120									
lethod: 8260D SIM - V	/olatile Orç	anic Cc	mpound	s (GC/M	S)							
Lab Sample ID: MB 460-90 Matrix: Water		·	_ .				Clie	ent Sam	ple ID: M Prep Ty			8
Analysis Batch: 907549		МВ МВ							-			9
Analyte		esult Qualifie	er	RL M	MDL Unit	_	D P	Prepared	Analyz	zed	Dil Fac	
1,4-Dioxane		2.0 U		2.0	0.86 ug/L				05/07/23	00:11	1	1
		MB MB										
Surrogate		very Qualifie					P	Prepared	Analyz		Dil Fac	
4-Bromofluorobenzene		105	75 - 1	33		0.1		. 15	05/07/23		7	
Lab Sample ID: LCS 460-9 Matrix: Water	07549/4					Clie	ent Sar	mple וט:	: Lab Cor Prep Ty			1
Analysis Batch: 907549			Spiko	201	LCS				%Rec			
Analyte			Spike Added	-	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
1,4-Dioxane			5.00	4.09		ug/L		82	57 - 124			
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene	107		75 - 133									
Lab Sample ID: LCSD 460 Matrix: Water	- 907549/5				C	Client S	ample	ID: Lab	Control S Prep Ty			
Analysis Batch: 907549												
A			Spike		LCSD Qualifier	11		^{0/} Doo	%Rec	חחם	RPD Limit	
Analyte 1,4-Dioxane			Added	4.20	Qualifier	Unit ug/L	<u> </u>	%Rec 84	Limits 57 - 124	RPD 2	Limit 30	
.,	LCSD	1000				- 3.		-				
Surrogate	%Recovery		Limits									
Junogate	108	Quanner	75 - 133									

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GC/MS VOA

Analysis Batch: 907549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184549-2	MW-135S_050123	Total/NA	Water	8260D SIM	
VB 460-907549/8	Method Blank	Total/NA	Water	8260D SIM	
CS 460-907549/4	Lab Control Sample	Total/NA	Water	8260D SIM	
CSD 460-907549/5	Lab Control Sample Dup	Total/NA	Water	8260D SIM	
nalysis Batch: 908		Pron Type	Matrix	Mothod	Prop Bata
_ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
-ab Sample ID		Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batch
	Client Sample ID				Prep Batch
ab Sample ID 40-184549-1 40-184549-2	Client Sample ID TRIP BLANK_03	Total/NA	Water	8260D	Prep Batcl
- ab Sample ID 240-184549-1	Client Sample ID TRIP BLANK_03 MW-135S_050123	Total/NA Total/NA	Water	8260D 8260D	Prep Batcl

Matrix: Water

Lab Sample ID: 240-184549-1

Client Sample ID: TRIP BLANK_03 Date Collected: 05/01/23 00:00 Date Received: 05/03/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			908577	SZD	EET EDI	05/11/23 21:17
Client Sam	lient Sample ID: MW-135S 050123						Lab	Sample ID: 240-18454
Date Collecte	d: 05/01/23 1	3:38						Matrix: W
Date Receive	d: 05/03/23 0	8:00						
_	Batch	Batch		Dilution	Batch			Prepared

	Daten	Datch		Dilution	Daton			Fiepaieu
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908577	SZD	EET EDI	05/12/23 01:04
Total/NA	Analysis	8260D SIM		1	907549	KLB	EET EDI	05/07/23 03:04

Laboratory References:

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

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-184549-1

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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	and an and a second second second	COC No:		For lab use only	Walk-in client Lab sampling	Job/SDC No:	Sample Specific Notes / Special Instructions:	1 Trip Blank	3 VOAs for 8260B 3 VOAs for 8260B SIM	15,	5/2/2/ 1005 005 005 005
2-2763		Lab Contact: Mike DelMonico	Telephone: 330-497-9396	Analyses		8360B E 8260B S60B	Cisco 2006 8200 Cisco 2.1.2-DCE 8 Trans-1.2-DCi PCE 82608 TCE 82608 Vinyl Chloride Vinyl Chloride 8		(XXXXXX)	240-184549 Chain of Custody dif samples are retained longer than 1 month) By Lab Archive For Months	Rey Q. Company: The
Chain of Custody Record 1048 Clation Drive, Suite 2007 Brighton, MI 48116 / 810-229-2763	NPDES RCRA Other	Site Contact: Christina Weaver	Telephone: 248-994-2240	Analysis Turnaround Time	TAT if different trans below 3 weeks 10 day \sim 2 weeks	/ Crab=G	Composite Compos		X B M B	le Disposal (A fee may be assesse le Disposal (A fee may be assesse Recorved by Ud S Received by Ud S	NWO Revert in Laboratory by:
Chain C C-2/0-7 Chain C IrstAmerica Laboratory location: Brighton 10448 Citation	L	Client Project Manager: Kris Hinskey	Telephone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	re temen	Method of Shipnwat/Carrier: Shipping/Tracking No:	Sample Date Sample Time Air	s//r3 1	x5/01/23 13 38 6		5/2/23 (10)
NICHIGAN 190	Company Name: Arcadis	ive. Suite 500				Project Number: 30167538.402.04 PO # 30167538.402.04 S	Sample Identification	15.03	· WW-1355-050123	Possible Hazard Identification Possible Hazard Identification Possible Address: Stimple Address: Sample Address: Stimple Address: Common: Event IV Reporting requested. Relinquishedory Possible Address: Computy Possible Address:	Refinquistants, Represent to a contract the find the find of the f

Eurofins - Canton Sample Receipt Form/Narrative Login # : 189599
Client ArCadi S Site Name Cooler unpacked by:
Cooler Received on 5-3-23 Opened on 5-3-23 Varm/ hage
FedEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/NimeStorage Location
Eurofins Cooler # Foam Box Client Cooler Box Other Packing material used: Foam Plastic Bag None Other COOLANT: Vicilie Blue lee Dry Ice Water None 1. Cooler temperature upon receipt See Multiple Cooler Form IR GUN # (CF O_ °C) Observed Cooler Temp °C C Corrected Cooler Temp °C 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity No Were tamper/custody seals on the obtile(s) or bottle kits (LLHg/MeHg)? Were tamper/custody seals intact and uncompromised? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottle labels (ID/Date/Time) be reconciled with the COC? 7. Did all bottle labels (ID/Date/Time) be reconciled with the COC? 7. For each sample, does the COC specify preservative? (Y/N), # of container (Y/N), and cample type of grab/comb(Y/N)? 10. Were correct bottle(s) used for the test(s) indicated? 11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? 13. Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? 15. Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? 15. Were all preserved sample(s) at the correct pH upon receipt? 15. Were all preserved sample(s) at the correct pH upon receipt? 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory.
Sample(s) were further preserved in the laboratory. Time preserved: Preservative(s) added/Lot number(s):
VOA Sample Preservation - Date/Time VOAs Frozen:

rofins Cleveland	S. Van Buren Avenue
Eurofi	180 S. Va

Chain of Custody Record



🐝 eurofins

Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772)			ini ol custouy recolu	202					Environment Testing
Client Information (Sub Contract Lab)	Sampler:			Lab PM: DelMoni	Lab PM: DelMonico, Michael	e	Carrier Tracking No(s)	No(s):	COC No: 240-167460.1	
Client Contact: Shipping/Receiving	Phone:			E-Mait: Michael.	DelMonic	E-Mail: Michael.DelMonico@et.eurofinsus.com	State of Origin: Michigan		Page: Page 1 of 1	
Company: Eurofins Environment Testing Northeast,				Aco	reditations F	(equired (See note):			Job #: 240-184549-1	
Address: 777 New Durham Road,	Due Date Requested: 5/16/2023	÷				Analysis	Analysis Requested		Preservation Codes:	les: M - Hexane
City: Edison	TAT Requested (days):	(s):							B - NUCL B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zp: NJ, 08817									D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2SO3 R - Na2S2O3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	#04			(0	()s				F - MeOH G - Amchlor H Accordio Acid	S - H2SO4 T - TSP Dodecahydrate
Email:	₩O #;			N JOI				8.	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: Ford LTP - Off Site	Project #: 24015353			5.V.S				19nist	K - EDTA L - EDA	W - pH 4-5 Y - Trizma Z - other (snecifv)
Site:	:#MOSS			Idme	00) AC			of con	Other:	
Samole Identification - Client ID /I ah ID)	Samula Data	Sample	Sample Type (C=comp,	Matrix (W-water, S=colid, S=colid, BT-fibred, BT-fibred,	560D/5030C (M	0602/MI2_0030		admuN lejo		
		X	Preservation Code:		8	8			opecial II	Special Instructions/Note:
TRIP BLANK_03 (240-184549-1)	5/1/23	Eastern		Water	×			-		
MW-135S_050123 (240-184549-2)	5/1/23	13:38 Eactorn		Water	×	×		9		
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 laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/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.	ant Testing North Centra bove for analysis/tests/ entral, LLC attention im	II, LLC places matrix being a mediately. If a	the ownership nalyzed, the sa It requested ac	of method, analyte imples must be shi creditations are cu	& accredital pped back to rrent to date	tion compliance upon our the Eurofins Environme , retum the signed Chain	subcontract laboratories it Testing North Central, of Custody attesting to s	. This sample shipme LLC laboratory or oth aid compliance to Eur	nt is forwarded under ar instructions will be ofins Environment Te	chain-of-custody. If the rovided. Any changes to ting North Central, LLC.
Possible Hazard Identification					Sample L	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	/ be assessed if se	mples are retain	ed longer than '	month)
Unconfirmed Deliverable Requested: 1, 11, 11, Other (snecify)	Primary Deliverable	ble Rank: 2			Chacial In	Return To Client Disp	Disposal By Lab		Archive For	Months
						sirucijoris/ac requ				
Empty kit Relinquished by:		Date:		Time:	le:		Method of Shipment:	1	ader	
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Relinquished by:	Date/Time:		0	Company	Received by:	by:		Date/Time:		Company

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Cooler Temperature(s) °C and Other Remarks:

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Login Sample Receipt Checklist

Client: ARCADIS US Inc

Login Number: 184549 List Number: 2 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	

Job Number: 240-184549-1

List Source: Eurofins Edison

List Creation: 05/04/23 12:14 PM

DATA VERIFICATION REPORT



May 17, 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: 184549-1 Sample date: 2023-05-01 Report received by CADENA: 2023-05-17 Initial Data Verification completed by CADENA: 2023-05-17 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 184549-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401845 5/1/202	5491			MW-135 2401845 5/1/202		23	
		.	. .	Report		Valid	- II	Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u> </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	
<u>OSW-8260</u>	DDSIM									
	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 # 240-184549-1 CADENA Verification Report: 2023-05-17

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49767R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-184549-1 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	mple Collection		lysis
	Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
	TRIP BLANK_03	240-184549-1	Water	05/01/23		Х	
-	MW-135S_050123	240-184549-2	Water	05/01/23		Х	Х

DATA REVIEW

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
1. Sample receipt condition		Х		Х	
2. Requested analyses and sample results		Х		Х	
3. 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	
9. Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
11. Narrative summary of Quality Assurance or sample problems provided		х		х	
12. Data Package Completeness and Compliance		Х		Х	

DATA REVIEW

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 HCI

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.

DATA REVIEW

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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Requireu
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation					
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		х	
D. Transcription/calculation errors present		Х		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:	Pinter
DATE:	June 12, 2023

PEER REVIEW: Andrew Korycinski

DATE: June 21, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



MICHIGAN 190

0.2/0.2

Chain of Custody Record



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

Client Contact	Regula	tory program:			DW	(NPD	ES	- F -	RCI	RA		Othe	r												
Company Name: Arcadis		_			_				_																Test	America La	aboratori
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinske	у			Site	Conta	act: C	hristin	a We	aver				Lab C	Contac	et: Mi	ke Del	Monio	c0				COC	No:	
	Telephone: 248	Telephone: 248-994-2240 T				Tel	lephone: 248-994-2240 Telephone: 330-497-9396						Felephone: 330-497-9396														
City/State/Zip: Novi, MI, 48377	Empile Imistof	Email: kristoffer.hinskey@arcadis.com				Analysis Turnaround Time Analyses			Analyses								-	1 of 1	COC								
Phone: 248-994-2240	Elinan: Kriston	er.muskey@ar	cauls.c	om								Inc			1			1			505	T	<u> </u>		Forl	ab use only	
Design Marrier Paral I (PD OR Sto	Sampler Name	1 0/2	-	_	<u>r</u>			f ir diff.	erent fro	m helow															Wall	-in client	
Project Name: Ford LTP Off-Site		Lehiu	101	· -	te	mem		10 day	,	3 w			23												Lab	sampling	
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:					1			l w			2	Q			m				SIM					amp mg	
PO # 30167538.402.04	Shipping/Tracl	ung No:								2 da 1 da			N	rab		в	8260B			608	BS				lob/	SDG No:	
					_			0					Filtered Sample (Y / N)	-C / Grab=G	BO	cis-1.2-DCE 8260B	СE 8			Vinyl Chloride 8260B	8260B				5001	500 110.	
				Ma	trix			Cont	ainers	& Pres	ervati	ves	Sam		8260B	Ш	2-DC	80	BB	orid	ane				1.00		1. 1.
				ous	1_	E	3	8	:	=	s	i i	bred	Composite	1,1-DCE	.2-D	Irans-1,2-DCE	8260B	TCE 8260B	Ch	1,4-Dioxane					Sample Spe	
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid	Other:	H2SO4	HN03	HCH	ZaAc ⁷ NaOH	Unpres	Other:	Filte	Col	1,1-1	cis-1	Tran	PCE	UH UH	Viny	1.4					Special In	structions
TRIP BLANK CE TRIP BLANK_03	5/1/23			1					1				N	G	Х	Х	Х	X	X	X	~	(En)		1	1	Trip Bla	nk
MW-1355-050123	05/01/2.	1228		1	1				1		1		W	6	V	X	X	X	x	x	\downarrow	-			3	VOAs for	8260B
MW-1095-060163	1.10	1338	\downarrow	6					10				ľ	2	X	X	~	X		1	r					VOAs for	
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Possible Hazard Identification					-		8					may be				es are	retai	ined la	nger	than 1	mont	:h)					
Non-Hazard Flammable Skin Irrit Special Instructions/QC Requirements & Comments:	tant 🔽 Poise	on B	Unkn	own				ŀ	Return	to Clie	nt	V .	Dispos	sal By	Lab		A	rchive	For		N	Ionths					
Sample Address: STARK ROW																											
Submit all results through Cadena at itomalia@cadenac	o.com. Cadena #	E203631																									
Level IV Reporting requested.		0	10						- 10					- , -													
Relinguistical by: Lehina Ferrein	Company:	líζ		Date Ty	01	23,	17	(0				(de	d.	she	na	ŝl						di	j				23 1
Relinquished by:) function	Company:	ADIS		$\frac{5k}{5k}$. Z	31	17	205		eceive	i	A	a	l					Com	pany: EEI	TA				Date	12/23	110
Relinquished by: fei Harl	Company:			Date/Tin	23	1	105	5	R	Ariye	lin L	aborat	ory by	y:		h	70	a	Com	pany:	T	N	-		Date	11'inte:	3 80
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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 F Dell	M: Nonic	o, Mic	chael					Carrie	r Trackin	g No(s):			COC No: 240-167460.1	
	Client Contact: Shipping/Receiving	Phone:			E-Ma	il:			Det.ei	urofins	sus co		State Mich	of Origin:				Page: Page 1 of 1	
	Company:					_				See not				gan				Job #:	
	Eurofins Environment Testing Northeast,	1																240-184549-1	
	Address: 777 New Durham Road, ,	Due Date Request 5/16/2023								Ana	alysi	s Re	ques	ted				Preservation Cod A - HCL	M - Hexane
	City: Edison	TAT Requested (d	ays):										Π					B - NaOH C - Zn Acetate	N - None O - AsNaO2
	State, Zip: NJ, 08817																	D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3 R - Na2S2O3
	Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:				(0	st)									0		F - MeOH G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
	Email:	WO #:				Or N	iort LI										-	I - Ice J - DI Water	U - Acetone V - MCAA
	Project Name: Ford LTP - Off Site	Project #: 24015353				Sample (Yes or No) Ish (Yes or No)	(MOD) VOCs (Short List)										container	K - EDTA L - EDA	W - pH 4-5 Y - Trizma Z - other (specify)
	Site:	SSOW#:				Samp		l g									of co	Other:	
Ŧ	Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tiesue, A=Air)	Field Filtered Redeem Man	60D/5030C	SIM/5									Total Number	Special In:	structions/Note:
Page		> <	\times	Preserva	ation Code:	\mathbb{X}											X		
e 19	TRIP BLANK_03 (240-184549-1)	5/1/23	Eastern		Water		×	+					\square				1		
9 of	MW-135S_050123 (240-184549-2)	5/1/23	13:38 Eastern		Water	Ш	×	X									6		
f 20																			
-																			
						H						1	\uparrow			+			
						H	+			-	+	+	+		+				
						H	+	-		-	+	+	+		+				
	Note: Since laboratory accreditations are subject to change, Eurofins Environm laboratory does not currently maintain accreditation in the State of Origin listed accreditation status should be brought to Eurofins Environment Testing North C	above for analysis/test	s/matrix being	analyzed, the	samples must be	e shinr	ed bac	sk to th	e Euro	fins En	vironm	ent Tes	ing Nor	h Centra	I II C lab	oraton	or othe	r instructions will be n	rovided Any changes to
	Possible Hazard Identification					s	ampl	e Dis	posa	I (A f	ee ma	y be	asses	sed if s	ample	are r	etain	ed longer than 1	month)
	Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Drimon (Dolivor	able Dealu	0						Client	D			al By L	.ab		Arch	nive For	Months
		Primary Deliver		۲ 		s	pecia	i instr	UCTION	ns/QC	Req	Jireme	ents:						
	Empty Kit Relinquished by:		Date:		10	Time			_				1	Vethod o	f Shipme		Fe	eder	
	Relinquighed by:		> 15	JO.	EET	X	Rec	eived t		2	tic	n	_		Date/T	me: Uz	23	10:01	Company
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5/17/2023	Relinquished by:	Date/Time:			Company		Rec	eived b	oy:						Date/T	me:			Company
023	Custody Seals Intact: Custody Seal No.:					$\overline{\tau}$				ure(s) °	C and		emarks:						
						ð	14				_ C			ى	00	7	6	4 ru a	ω Ν.

Client Sample ID: TRIP BLANK_03 Date Collected: 05/01/23 00:00 Date Received: 05/03/23 08:00

Job ID: 240-184549-1

Lab Sample ID: 240-184549-1

Matrix: Water

5 6

8 9

Method: SW846 8260D - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/11/23 21:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 21:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 21:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 21:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 21:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 128					05/11/23 21:17	1
Dibromofluoromethane (Surr)	98		77 - 124					05/11/23 21:17	1
Toluene-d8 (Surr)	103		80 - 120					05/11/23 21:17	1
4-Bromofluorobenzene	117		76 - 120					05/11/23 21:17	1

Client Sample ID: MW-135S_050123 Date Collected: 05/01/23 13:38 Date Received: 05/03/23 08:00

Lab Sample ID: 240-184549-2

Matrix: Water

5 6 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/07/23 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		75 - 133					05/07/23 03:04	1
Method: SW846 8260D - Vo	latile Organic	Compound	ds bv 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 01:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 01:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 01:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 01:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 01:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			70 - 128					05/12/23 01:04	1
Dibromofluoromethane (Surr)	98		77 - 124					05/12/23 01:04	1
Toluene-d8 (Surr)	102		80 - 120					05/12/23 01:04	1
4-Bromofluorobenzene	119		76 - 120					05/12/23 01:04	1

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