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Environment Testing America

ANALYTICAL REPORT

Eurofins Canton 180 S. Van Buren Avenue Barberton, OH 44203 Tel: (330)497-9396

Laboratory Job ID: 240-171939-1

Client Project/Site: Ford LTP - Off Site

For:

..... Links

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Ask— The Expert ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mole Del your

Authorized for release by: 9/6/2022 7:59:33 AM

Michael DelMonico, Project Manager I (330)497-9396 Michael.DelMonico@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA	Qualifier Description
Qualifier	Qualifier Description Indicates the analyte was analyzed for but not detected.
0	
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)

TEQToxicity Equivalent Quotient (Dioxin)TNTCToo Numerous To Count

Job ID: 240-171939-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-171939-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 8/23/2022 9:30 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 2.7° C, 3.9° C, 3.9° C and 4.1° C.

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-540141.

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

VOA Prep

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

Job ID: 240-171939-1

Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-171939-1	TRIP BLANK_106	Water	08/17/22 00:00	08/23/22 09:30
240-171939-2	MW-223S_081722	Water	08/17/22 14:01	08/23/22 09:30
240-171939-3	MW-215S_081722	Water	08/17/22 15:26	08/23/22 09:30

Detection Sum	mary
Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site	Job ID: 240-171939-1
Client Sample ID: TRIP BLANK_106	Lab Sample ID: 240-171939-1
No Detections.	
Client Sample ID: MW-223S_081722	Lab Sample ID: 240-171939-2
No Detections.	
Client Sample ID: MW-215S_081722	Lab Sample ID: 240-171939-3
No Detections.	

Client Sample ID: TRIP BLANK_106 Date Collected: 08/17/22 00:00 Date Received: 08/23/22 09:30

Job	ID:	240-1	71	939-1	
000	ю.	270 1		000 1	

Lab Sample ID: 240-171939-1

Matrix: Water

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/25/22 20:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/25/22 20:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 20:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/25/22 20:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 20:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/25/22 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		08/25/22 20:24	1
4-Bromofluorobenzene (Surr)	96		56 - 136					08/25/22 20:24	1
Toluene-d8 (Surr)	97		78 - 122					08/25/22 20:24	1
Dibromofluoromethane (Surr)	96		73 - 120					08/25/22 20:24	1

Client Sample ID: MW-223S_081722 Date Collected: 08/17/22 14:01 Date Received: 08/23/22 09:30

Job ID: 240-171939-1

Lab Sample ID: 240-171939-2 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			08/26/22 22:29	1	ĩ
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	74		66 - 120			-		08/26/22 22:29	1	
Method: 8260D - Volatile Or	ganic Compo	unds by G	C/MS							ĥ
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
I,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/25/22 20:46	1	ĩ
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/25/22 20:46	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 20:46	1	ŝ
rans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/25/22 20:46	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 20:46	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/25/22 20:46	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/25/22 20:46	1	
4-Bromofluorobenzene (Surr)	90		56 - 136					08/25/22 20:46	1	1
Toluene-d8 (Surr)	94		78 - 122					08/25/22 20:46	1	
Dibromofluoromethane (Surr)	92		73 - 120					08/25/22 20:46	1	5

Client Sample ID: MW-215S_081722 Date Collected: 08/17/22 15:26 Date Received: 08/23/22 09:30

Lab Sample ID: 240-171939-3 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			08/26/22 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		66 - 120			-		08/26/22 22:53	1
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/25/22 21:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/25/22 21:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 21:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/25/22 21:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 21:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/25/22 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		08/25/22 21:08	1
4-Bromofluorobenzene (Surr)	92		56 - 136					08/25/22 21:08	1
Toluene-d8 (Surr)	94		78 - 122					08/25/22 21:08	1
Dibromofluoromethane (Surr)	96		73 - 120					08/25/22 21:08	1

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Surrogate Summary

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

			Pe	ercent Surre	gate Recovery (Acceptance	e Limits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-171939-1	TRIP BLANK_106	105	96	97	96	
240-171939-2	MW-223S_081722	104	90	94	92	
240-171939-3	MW-215S_081722	106	92	94	96	
LCS 240-540141/5	Lab Control Sample	94	90	91	90	
MB 240-540141/8	Method Blank	102	91	95	96	
Surrogate Legend						
DCA = 1,2-Dichloroet	nane-d4 (Surr)					
BFB = 4-Bromofluorol	penzene (Surr)					
TOL = Toluene-d8 (Su	ırr)					
DREM - Dibromofluo	omethane (Surr)					

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(66-120)		
240-171939-2	MW-223S_081722	74		
240-171939-3	MW-215S_081722	72		
240-171965-G-5 MS	Matrix Spike	83		
240-171965-M-5 MSD	Matrix Spike Duplicate	77		
LCS 240-540396/3	Lab Control Sample	70		
MB 240-540396/4	Method Blank	71		
Surrogate Legend				

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

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Job ID: 240-171939-1

Prep Type: Total/NA

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

Lab Sample ID: MB 240-540141/8

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

Matrix: Water Analysis Batch: 540141

-	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/25/22 13:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/25/22 13:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 13:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/25/22 13:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 13:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/25/22 13:45	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		08/25/22 13:45	1
4-Bromofluorobenzene (Surr)	91		56 - 136		08/25/22 13:45	1
Toluene-d8 (Surr)	95		78 - 122		08/25/22 13:45	1
Dibromofluoromethane (Surr)	96		73 - 120		08/25/22 13:45	1

Lab Sample ID: LCS 240-540141/5 Matrix: Water Analysis Batch: 540141

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	21.6		ug/L		108	63 - 134	
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	77 - 123	
Tetrachloroethene	20.0	19.2		ug/L		96	76 - 123	
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	75 - 124	
Trichloroethene	20.0	19.5		ug/L		98	70 - 122	
Vinyl chloride	20.0	17.2		ug/L		86	60 - 144	
	LCS LCS							

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	91		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

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

Lab Sample ID: MB 240-540396/4 Matrix: Water Analysis Batch: 540396							Client Sam	ple ID: Method Prep Type: To	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/26/22 21:41	1
	MB	MB							
Surrogate %	Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	71		66 - 120					08/26/22 21:41	1

5 10 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

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Job ID: 240-171939-1

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

Lab Sample ID: LCS 240-	-540396/3					Clie	ent Sai	nple ID	: Lab Con		
Matrix: Water Analysis Batch: 540396									Prep Ty	pe: 10t	al/NA
Analysis Datch. 540390			Spike	LCS	LCS				%Rec		
Analyte			Added	-	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	9.61		ug/L		96	80 - 122		
	LCS	LCS									
Surrogate	%Recovery		Limits								
1,2-Dichloroethane-d4 (Surr)	70		66 - 120								
Lab Sample ID: 240-1719	65-G-5 MS						CI	ient Sa	mple ID: I	Matrix 3	Spike
Matrix: Water									Prep Ty		
Analysis Batch: 540396										•	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	11.0		ug/L		110	51 - 153		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	83		66 - 120								
Lab Sample ID: 240-1719	65-M-5 MSD					Client	Samp	le ID: N	latrix Spil	ke Dup	licate
Matrix: Water									Prep Ty		
Analysis Batch: 540396										-	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPI
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
1,4-Dioxane	2.0	U	10.0	10.6		ug/L		106	51 - 153	4	1
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	77		66 - 120								

QC Association Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 540141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-171939-1	TRIP BLANK_106	Total/NA	Water	8260D	
240-171939-2	MW-223S_081722	Total/NA	Water	8260D	
240-171939-3	MW-215S_081722	Total/NA	Water	8260D	
MB 240-540141/8	Method Blank	Total/NA	Water	8260D	
LCS 240-540141/5	Lab Control Sample	Total/NA	Water	8260D	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-171939-2	MW-223S_081722	Total/NA	Water	8260D SIM	
240-171939-3	MW-215S_081722	Total/NA	Water	8260D SIM	
MB 240-540396/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-540396/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-171965-G-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-171965-M-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Sample ID: 240-171939-1 Client Sample ID: TRIP BLANK 106 Date Collected: 08/17/22 00:00 Matrix: Water Date Received: 08/23/22 09:30 Batch Batch Dilution Batch Prepared Method Factor Number Analyst or Analyzed Prep Type Туре Run Lab 08/25/22 20:24 Total/NA Analysis 8260D 540141 TJL1 EET CAN 1 Client Sample ID: MW-223S 081722 Lab Sample ID: 240-171939-2 Date Collected: 08/17/22 14:01 Matrix: Water Date Received: 08/23/22 09:30 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 08/25/22 20:46 Total/NA Analysis 8260D 1 540141 TJL1 EET CAN Total/NA Analysis 8260D SIM 1 540396 CS EET CAN 08/26/22 22:29 Client Sample ID: MW-215S 081722 Lab Sample ID: 240-171939-3 Date Collected: 08/17/22 15:26 Matrix: Water Date Received: 08/23/22 09:30 Batch Dilution Batch Batch Prepared Number Analyst Method or Analyzed Prep Type Type Run Factor Lab 08/25/22 21:08 Total/NA Analysis 8260D 540141 TJL1 EET CAN 1 Total/NA Analysis 8260D SIM 540396 CS EET CAN 08/26/22 22:53 1

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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

Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23	
Connecticut	State	PH-0590	12-31-23	
Florida	NELAP	E87225	06-30-23	
Georgia	State	4062	02-27-23	
Illinois	NELAP	200004	07-31-23	
lowa	State	421	06-01-23	
Kentucky (UST)	State	112225	02-27-23	
Kentucky (WW)	State	KY98016	12-31-22	
Minnesota	NELAP	039-999-348	12-31-22	
Minnesota (Petrofund)	State	3506	08-01-23	
New Jersey	NELAP	OH001	06-30-23	
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-23-23	
Ohio VAP	State	CL0024	02-27-23	
Oregon	NELAP	4062	08-31-22	
Pennsylvania	NELAP	68-00340	08-31-23	
Texas	NELAP	T104704517-22-17	08-31-22	
Virginia	NELAP	11570	09-14-22	
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	

HIGAN		Chain of Custody Record		TestAmerica
Te Cline Control	Brighton	200 / Brighton, MI 48116	-2763	THE LEADER IN ENVIRONMENTAL TESTING
Company Name: Arcadis		NTDES KUNA URBER		TestAmerica Lahoratories. Inc.
Address: 28550 Cabot Drive Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
	Telephone: 269-832-7478	Telephone: 248-994-2329	Telephone: 330-966-9783	
City/State/Zip: Novi, MI, 48377	Email: Kristaffar Hinchau@arondis ann.	Analysis litrnaround line	Апајусес	Earlich und and
Phone: 248-994-2240				
Project Name: Ford LTP Off-Site	_	A1 if different from below		Walk-in client
Project Number: 30080642.402.04	Method of Shipment/Carrier:	L weeks		Lab sampling
P() # 30080642.402.04	Shipping/Tracking No:	· Crab	8260C	Job/SDG No:
	Matrix	D=stie	s-DCI 60D 1001de	
Sample Identification	Sample Date Sample Time Advent	4'1-DCE <u>сошьог</u> <u>р.</u> пиес: <u>0.прес:</u> <u>0.прес:</u> <u>халс</u> <u>изон</u> <u>изон</u> <u>Изон</u> <u>Н</u> СО <u>H</u> ZO4	cis-1.2-[Trans-1, PCE 82t Vinyl Ch 1,4-Diox	Sample Specific Notes / Special Instructions:
rtrip BLANK_ ;Olg	8/(1/12 - 12/1/18	1 NG X		1 Trip Blank
2 MW - 2355 - 081732	× 1401 xe/ Livo	X S N C X		3 VOAs for 8260D 3 VOAs for 8260D SIM
B MW - 2155 - 081722	15 al 15 al	N C X	X X X X X	
17 o				
19				
	240-171939 Chain of Custody			
rossible Hazard Identification ▼ Non-Hazard Elammable Skin Irritant	ritant 🔽 Poison B 🗌 🗌 Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client P Disposal By Lab P Archive For Mo	ples are retained longer than I month) Archive For For Months	
Special Instructions/OC Requirements & Comments: Sample Address: Comm&YC-Ic/ Pvbperty 35000 Submit all results through Cadena at ftomalia@caderraco.com, Cadena #E203631 Level IV Reporting requested.	PLY			
Relinquished by		1636 Novi, Calo	Company:	Date Time/ 1/21
Relinquished by	D Inter	Dry Noutr	Company Company	Date/Time: 120
Belimuistration		Alexandred in Alexander Day	RAD BETAL	BreefTime
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201				

9/6/2022

Eurofins - Canton Sample Receipt Form/Narrative Barberton Facility	Login # :	1	
lient R Ai S Site Name		Cooler ur	packed by:
ooler Received on 8 23-22 Opened on 8 23	-50	Rock	elle Haidel
		her	
	Storage Location		
urofins Cooler # Foam Box Client Cooler Box	Other		
	Correction of Co		
COOLANT: Wet Ice Blue Ice Dry Ice Water N			
. Cooler temperature upon receipt IR GUN# IR-13 (CF 0.0 °C) Observed Cooler Temp°C (See Multiple Cooler Fo		С
IR GUN #IR-15 (CF -0.7°C) Observed Cooler Temp°C	Corrected Cooler		C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Qui		No	Tests that are sol
-Were the seals on the outside of the cooler(s) signed & dated?		No NA	checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/Me	•/	No	Receiving:
-Were tamper/custody seals intact and uncompromised?		No.NA	VOAs
 Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? 		No	Oil and Grease
 Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place 	2 Yes	No	тос
6. Was/were the person(s) who collected the samples clearly identified on		No	
7. Did all bottles arrive in good condition (Unbroken)?	ीन		
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No	
9. For each sample, does the COC specify preservatives () (1) of conta		•	rab/comp(YN)?
10. Were correct bottle(s) used for the test(s) indicated? $JH g-3 \sigma-2$ 11. Sufficient quantity received to perform indicated analyses?	2 Yes) NO	
12. Are these work share samples and all listed on the COC?		No	
If yes, Questions 13-17 have been checked at the originating laboratory			28679
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pł	Strip Lot# HC39999
14. Were VOAs on the COC?	Yes		
15. Were air bubbles >6 mm in any VOA vials? Larger than th		No NA	
	Yes	NO	
	Yes	No	
7. Was a LL Hg or Me Hg trip blank present?	Yes	No	ſ
7. Was a LL Hg or Me Hg trip blank present?	Yes	No	я
7. Was a LL Hg or Me Hg trip blank present?	Yes	No	r
17. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by Concerning	Yes	No) ice Mail Othe	
7. Was a LL Hg or Me Hg trip blank present?	Yes	No	
7. Was a LL Hg or Me Hg trip blank present? Contacted PM	Yes	No) ice Mail Othe	
17. Was a LL Hg or Me Hg trip blank present? Contacted PM	Yes	No) ice Mail Othe	
17. Was a LL Hg or Me Hg trip blank present? Contacted PM	Yes	No) ice Mail Othe	
17. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by Concerning 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES addit	Yes	No) ice Mail Othe	
17. Was a LL Hg or Me Hg trip blank present? Contacted PM Date Date by Concerning 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 19. SAMPLE CONDITION	Yes	No ice Mail Othe Samples proce	essed by:
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17. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by Concerning	Yes via Verbal Vo ional next page	No ice Mail Othe Samples proce g time had exp a broken con	essed by:
17. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by Concerning	Yes via Verbal Vo ional next page	No ice Mail Othe Samples proc g time had exp a broken con diameter. (Not	ired. tainer. ify PM()
17. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by Concerning	Yes via Verbal Vo ional next page	No ice Mail Othe Samples proc g time had exp a broken con diameter. (Not	essed by:
17. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by Concerning Concerning 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 19. SAMPLE CONDITION Sample(s) Sample(s) Sample(s) Sample(s) Were received after the received with	Yes (No ice Mail Othe Samples proce g time had exp a broken con diameter. (Not	ired. tainer. ify PM()
17. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by Concerning	Yes via Verbal Vo ional next page	No ice Mail Othe Samples proce g time had exp a broken con diameter. (Not	ired. tainer. ify PM()
Concerning	Yes (No ice Mail Othe Samples proce g time had exp a broken con diameter. (Not	ired. tainer. ify PM()

Login # : _

Cooler Description (Circle)	IR Gun # (Circle)	on Sample Receipt M Observed Temp °C	Corrected Temp °C	Coolant (Circle)
A Client Box Other	HR-13 48-15	39	3.9	Wet Ice Blue Ice Dry
	IR-13 12-15)	3-1		Water None
A) Client Box Other		H	4.6	Water None
A Client Box Other	IR-13 (-15)	3.9	3.9	Wellice Blue Ice Dry Water None
A Client Box Other	IR-13 (R-15)	2.7	27	Water None
A Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry Water None
A Client Box Other	IR-13 IR-16			Wellice Bluelice Dry I
	IR-13 IR-15			Water None Wet Ice Blue Ice Dry
A Client Box Other	IR-13 IR-15			Water None Watice Blue ice Dry
A Client Box Other				Water None
A Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry I Water None
A Client Box Other	IR-13 IR-15		1	Wet ice live ice Dry I Water None
A Client Box Other	IR-13 IR-15			Wellice Bluelice Dry I Water None
A Client Box Other	IR-13 IR-15			Welice Blueice Dry I
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A Client Box Other				Water None
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A Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry I Water None
A Client Box Other	IR-13 IR-15			Wellice Sivelice Dry is Water None
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	IR-13 IR-15			Water None Wet ice Blue ice Dry k
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	IR-13 IR-15			Water None Watice Blue ice Dry ic
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A Client Box Other	IR-13 IR-15			Water None Wetice Blue ice Dry ic
A Client Box Other			an a	Water None Wet Ice Blue Ice Dry Ice
A Client Box Other	IR-13 IR-15			Water None
A Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry ice Water None

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

DATA VERIFICATION REPORT



September 06, 2022

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: 30080642.402.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory submittal: 171939-1 Sample date: 2022-08-17 Report received by CADENA: 2022-09-06 Initial Data Verification completed by CADENA: 2022-09-06 Number of Samples:3 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, 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 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
ЛН	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 - Barberton Laboratory Submittal: 171939-1

		Sample Name: Lab Sample ID: Sample Date:	b Sample ID: 2401719391 2401719392											
			D II	Report		Valid		Report		Valid	D !!	Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
<u>OSW-82</u>	<u>60D</u>													
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		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		ND	1.0	ug/l	
<u>OSW-82</u>	60DSIM													
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-171939-1

CADENA Verification Report: 2022-09-06

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 46954R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-171939-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

			Sample Collection		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_106	240-171939-1	Water	08/17/22		Х	
MW-223S_081722	240-171939-2	Water	08/17/22		Х	Х
MW-215S_081722	240-171939-3	Water	08/17/22		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		rmance 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	

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 of October 1999.

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.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - 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.

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

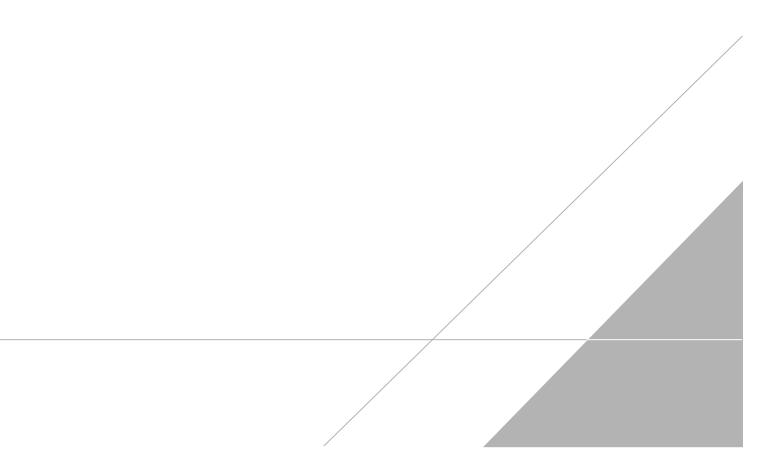
- RPD Relative percent difference
- %D Percent difference

VALIDATION PERFORMED BY: Vinayak Hegde
SIGNATURE:
DATE: September 26, 2022

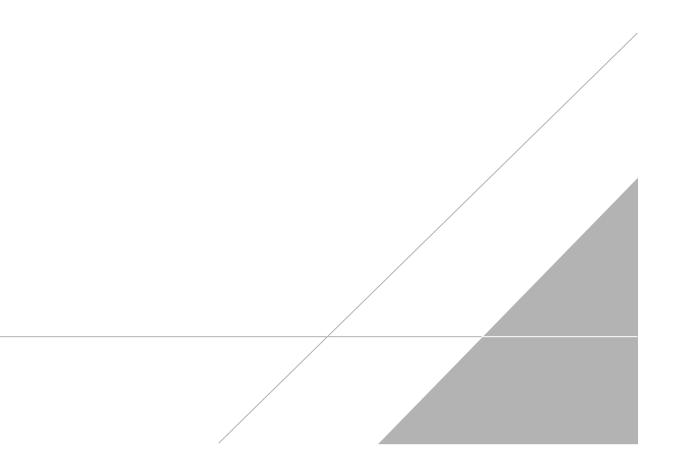
PEER REVIEW: Andrew Korycinski

DATE: September 28, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record



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

	Client Contact	Regulat	ory program:		1	DW		NPI	DES		R	RA	Г	Othe	er 🗌											
	Company Name: Arcadis	Client Project N	lanager: Kris	Hinske	v		Is	ite Con	tact: C	Chris	tina W	eaver				Lab (onta	t: Mil	e Del	Monic	0			 TestAmeric: COC No:	a Laborato	ories, Inc
	Address: 28550 Cabot Drive, Suite 500	Telephone: 269						elepho										: 330-9								_
	City/State/Zip: Novi, MI, 48377						_		vsis T			N				relet	none	. 330-3						1 of		OCs
	Phone: 248-994-2240	Email: Kristoff	er.Hinskey@a	rcadis.	com			Ana	IYSIS T	urna	round	Tribe	4						A	nalys	l			 For lab use on	ily	
	Project Name: Ford LTP Off-Site	Sampler Name		ev			I	AT if di 10 da		- 3	ow weeks weeks		-											Walk-in client		
	Project Number: 30080642.402.04	Grary Method of Ship	ment/Carrier:	<u>Cr</u>				10 46	y	Ε.	week days		Î	ų			0				SIM			Lao sampling		1. 19.
	PO # 30080642.402.04	Shipping/Track	ing No:				-			1			mple (Y / N)	Grab		60D	8260D			3260C	60D			Job/SDG No:		
	1979 - Contra Cont				Ms	trix		Col	ntainers	s & P	reserva	tives	ampl	r=C /	3260[E 82	DCE	0	0	ride (1e 82					
	Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid		H2SO4 HNO3	HCI	NaOH	Vapres Under	Other:	Filtered Sa		1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D				Specific Ne al Instructio	
8	TRIP BLANK_ OLG	8/17/22		ĪĪ	X								K		X	X	X	X	X	X				1 Trip E	Blank	
0	MW-2235_081722	08/17/22	1401		X				6				N		X	X	X	X	X	X	X				for 8260[for 8260[
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Page 17 of 19					T								Τ						-							
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	Possible Hazard Identification Von-Hazard Flammable Skin Irri	tant Poiso	n B	Unkn		<u> </u>			le Disp Return			may b	e asses Dispo			les ar		ined lo archive		than 1			<u>. </u>			_
	Special Instructions/QC Requirements & Comments: Sample Address: Commerceral Prope Submit all results through Cadena at Jtomalia@cadenac Level IV Reporting requested.	1	000 P			JT7			Ketuii	110 (nem		Dispo	isar by	/ Lao			archive	FOF		M	lonths				
	Relinquished by:	Company: Arcad	lis		Date Tin	1/22)	636		Recei	ved by VOL	i's a	cole)	54	ore	(a.a.)		Com	nany: NtG	a()	i.s		Date/Time/	2 16	150
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Client Sample ID: TRIP BLANK_106 Date Collected: 08/17/22 00:00 Date Received: 08/23/22 09:30

Job ID: 240-171939-1

Lab Sample ID: 240-171939-1

Matrix: Water

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/25/22 20:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/25/22 20:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 20:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/25/22 20:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 20:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/25/22 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		08/25/22 20:24	1
4-Bromofluorobenzene (Surr)	96		56 - 136					08/25/22 20:24	1
Toluene-d8 (Surr)	97		78 - 122					08/25/22 20:24	1
Dibromofluoromethane (Surr)	96		73 - 120					08/25/22 20:24	1

Client Sample ID: MW-223S_081722 Date Collected: 08/17/22 14:01 Date Received: 08/23/22 09:30

Job ID: 240-171939-1

Lab Sample ID: 240-171939-2 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
I,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/26/22 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		66 - 120			-		08/26/22 22:29	1
Method: 8260D - Volatile Or	ganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
I,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/25/22 20:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/25/22 20:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 20:46	1
rans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/25/22 20:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 20:46	1
/inyl chloride	1.0	U	1.0	0.45	ug/L			08/25/22 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/25/22 20:46	1
4-Bromofluorobenzene (Surr)	90		56 - 136					08/25/22 20:46	1
Toluene-d8 (Surr)	94		78 - 122					08/25/22 20:46	1
Dibromofluoromethane (Surr)	92		73 - 120					08/25/22 20:46	1

Client Sample ID: MW-215S_081722 Date Collected: 08/17/22 15:26 Date Received: 08/23/22 09:30

Lab Sample ID: 240-171939-3 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			08/26/22 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		66 - 120			-		08/26/22 22:53	1
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/25/22 21:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/25/22 21:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 21:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/25/22 21:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/25/22 21:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/25/22 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		08/25/22 21:08	1
4-Bromofluorobenzene (Surr)	92		56 - 136					08/25/22 21:08	1
Toluene-d8 (Surr)	94		78 - 122					08/25/22 21:08	1
Dibromofluoromethane (Surr)	96		73 - 120					08/25/22 21:08	1

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