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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: 240-163280-1

Client Project/Site: Ford LTP - Off Site

For:

ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mole Del your

Authorized for release by: 3/18/2022 9:55:14 AM

Michael DelMonico, Project Manager I (330)497-9396 Michael.DelMonico@Eurofinset.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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3

Qualifiers

GC/MS VOA		
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	_
U	Indicates the analyte was analyzed for but not detected.	5

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: 240-163280-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-163280-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 3/4/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.6° C, 2.2° C and 2.8° C.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 519393 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK_113 (240-163280-1) and MW-168S_022822 (240-163280-2).

Method 8260B: The laboratory control sample (LCS) for 519393 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported: TRIP BLANK_113 (240-163280-1), MW-168S 022822 (240-163280-2) and (LCS 240-519393/5).

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.

Method Summary

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

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL 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
240-163280-1	TRIP BLANK_113	Water	02/28/22 00:00	03/04/22 08:00
240-163280-2	MW-168S_022822	Water	02/28/22 10:40	03/04/22 08:00

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

Client Sample ID: TRIP BLANK_113

No Detections.

Client Sample ID: MW-168S_022822

No Detections.

Lab Sample ID: 240-163280-1

Lab Sample ID: 240-163280-2

This Detection Summary does not include radiochemical test results.

1.0

1.0

1.0

1.0

Limits

62 - 137

56 - 136

78 - 122

73 - 120

1.0 U

1.0 U

1.0 U*+

1.0 U*+

%Recovery Qualifier

75

113

86

96

Tetrachloroethene

Trichloroethene

Toluene-d8 (Surr)

Vinyl chloride

Surrogate

trans-1,2-Dichloroethene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: TRIP BLANK_113 Date Collected: 02/28/22 00:00 Date Received: 03/

Date Received: 03/04/22 08:00									
Method: 8260B - Volatile C	Prganic Compo	unds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/22 16:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 16:35	1

0.44 ug/L

0.51 ug/L

0.44 ug/L

0.45 ug/L

Lab Sample ID: 240-163280-1

03/08/22 16:35

03/08/22 16:35

03/08/22 16:35

03/08/22 16:35

Analyzed

03/08/22 16:35

03/08/22 16:35

03/08/22 16:35

03/08/22 16:35

Prepared

Matrix: Water

1

1

1

1

1

1

1

1

Dil Fac

8

RL

2.0

RL

1.0

1.0

1.0

1.0

1.0

1.0

Limits

62 - 137

56 - 136

78 - 122

73 - 120

Limits

66 - 120

MDL Unit

0.86 ug/L

MDL Unit

0.49 ug/L

0.46 ug/L

0.44 ug/L

0.51 ug/L

0.44 ug/L

0.45 ug/L

Analyte

1,4-Dioxane

Surrogate

Analyte

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Toluene-d8 (Surr)

Vinyl chloride

Surrogate

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: MW-168S_022822 Date Collected: 02/28/22 10:40 Date Received: 03/04/22 08:00

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

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

Result Qualifier

Result Qualifier

1.0 U

1.0 U

1.0 U

1.0 U

79

114

81

95

1.0 U*+

1.0 U*+

Qualifier

Qualifier

2.0 U

80

%Recovery

%Recovery

D

D

Prepared

Prepared

Prepared

Prepared

Job ID: 240-163280-1

Lab Sample ID: 240-163280-2 Matrix: Water

Analyzed

03/09/22 00:19

Analyzed

03/09/22 00:19

Analyzed

03/08/22 16:59

03/08/22 16:59

03/08/22 16:59

03/08/22 16:59

03/08/22 16:59

03/08/22 16:59

Analyzed

03/08/22 16:59

03/08/22 16:59

03/08/22 16:59

03/08/22 16:59

Dil Fac

Dil Fac

Dil Fac

1

1

1

1

1

1

1

1

1

1

1

Dil Fac

Surrogate Summary

Method: 8260B - Volatile Organic Compounds (GC/MS) Matrix: Water

		Percent Surrogate Recovery (Acceptance Limit				
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-163280-1	TRIP BLANK_113	75	113	86	96	
240-163280-2	MW-168S_022822	79	114	81	95	
240-163304-E-4 MS	Matrix Spike	70	113	79	87	
240-163304-K-4 MSD	Matrix Spike Duplicate	78	114	81	91	
LCS 240-519393/5	Lab Control Sample	71	117	82	92	
MB 240-519393/8	Method Blank	80	110	83	92	
Surrogate Legend						
DCA = 1,2-Dichloroeth	ane-d4 (Surr)					
BFB = 4-Bromofluorob	enzene (Surr)					
TOL = Toluene-d8 (Su	rr)					
DBFM = Dibromofluor	omethane (Surr)					

		DCA	Percent Surrogate Recovery (Acceptance Limits)	1
Lab Sample ID	Client Sample ID	(66-120)		
240-163280-2	MW-168S_022822	80		
240-163307-G-3 MS	Matrix Spike	82		
240-163307-M-3 MSD	Matrix Spike Duplicate	82		
LCS 240-519472/4	Lab Control Sample	80		
MB 240-519472/5	Method Blank	80		
Surrogate Legend				

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

Job ID: 240-163280-1

Prep Type: Total/NA

5

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

Lab Sample ID: MB 240-519393/8

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

Matrix: Water Analysis Batch: 519393

-	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			03/08/22 12:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 12:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 12:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 12:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 12:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/22 12:57	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		62 - 137		03/08/22 12:57	1
4-Bromofluorobenzene (Surr)	110		56 - 136		03/08/22 12:57	1
Toluene-d8 (Surr)	83		78 - 122		03/08/22 12:57	1
Dibromofluoromethane (Surr)	92		73 - 120		03/08/22 12:57	1

Lab Sample ID: LCS 240-519393/5 Matrix: Water Analysis Batch: 519393

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	24.3		ug/L		121	63 - 134	
cis-1,2-Dichloroethene	20.0	23.4		ug/L		117	77 - 123	
Tetrachloroethene	20.0	19.2		ug/L		96	76 - 123	
trans-1,2-Dichloroethene	20.0	24.8		ug/L		124	75 - 124	
Trichloroethene	20.0	24.9	*+	ug/L		125	70 - 122	
Vinyl chloride	20.0	29.2	*+	ug/L		146	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	71		62 - 137
4-Bromofluorobenzene (Surr)	117		56 - 136
Toluene-d8 (Surr)	82		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

113

79

Lab Sample ID: 240-163304-E-4 MS **Matrix: Water** Analysis Batch: 519393

4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

· ·····, ···· · · · · · · · · · · · · ·	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	20.0	23.3		ug/L		117	56 - 135
cis-1,2-Dichloroethene	0.65	J	20.0	21.9		ug/L		106	66 - 128
Tetrachloroethene	1.0	U	20.0	17.3		ug/L		86	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	22.5		ug/L		113	56 - 136
Trichloroethene	1.0	U *+	20.0	21.8		ug/L		109	61 - 124
Vinyl chloride	1.0	U *+	20.0	26.8		ug/L		134	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	70		62 - 137						

	03/08/22 12:	57 1
Client Sample ID:	Lab Contro	ol Sample

Prep Type: Total/NA

Client Sample ID: Matrix Spike Prep Type: Total/NA

Eurofins Canton

56 - 136

78 - 122

Lab Sample ID: 240-163304-E-4 MS

QC Sample Results

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Client Sample ID: Matrix Spike

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

Matrix: Water Prep Type: Total/NA Analysis Batch: 519393 MS MS %Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 87 73 - 120 **Client Sample ID: Matrix Spike Duplicate** Lab Sample ID: 240-163304-K-4 MSD Matrix: Water Prep Type: Total/NA Analysis Batch: 519393 Sample Sample Spike MSD MSD %Rec. RPD **Result Qualifier** Added Limits RPD Limit Analyte **Result Qualifier** Unit D %Rec 1.0 U 1,1-Dichloroethene 20.0 24.2 ug/L 121 56 - 135 4 26 cis-1,2-Dichloroethene ug/L 0.65 J 20.0 23.5 114 66 - 128 7 14 Tetrachloroethene 1.0 U 20.0 17.5 ug/L 87 62 - 131 20 1 trans-1.2-Dichloroethene 1.0 U 20.0 24.4 122 15 ug/L 56 - 136 8 Trichloroethene 1.0 U*+ 20.0 23.1 ug/L 115 61 - 124 6 15 Vinyl chloride 1.0 U*+ 20.0 26.6 ug/L 133 43 - 157 24 1 MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 78 62 - 137 4-Bromofluorobenzene (Surr) 114 56 - 136 Toluene-d8 (Surr) 81 78 - 122 Dibromofluoromethane (Surr) 91 73 - 120 Method: 8260B SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-519472/5 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA** Analysis Batch: 519472 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 03/08/22 22:14 1,4-Dioxane 2.0 U 2.0 0.86 ug/L MB MB Qualifier Dil Fac Surrogate %Recoverv Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 80 66 - 120 03/08/22 22:14 1 Lab Sample ID: LCS 240-519472/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 519472 Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 9.05 ug/L 90 80 - 122 LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 80 **Client Sample ID: Matrix Spike** Lab Sample ID: 240-163307-G-3 MS Prep Type: Total/NA Matrix: Water Analysis Batch: 519472 Sample Sample Spike MS MS %Rec. **Result Qualifier** Added **Result Qualifier** Limits Analyte Unit D %Rec 1,4-Dioxane 2.0 U 10.0 10.1 ug/L 101 51 - 153

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

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	82		66 - 120									
Lab Sample ID: 240-1633	07-M-3 MSD					Client	Samn		latrix Spil	ke Dun	licate	
Matrix: Water						Unon	oump		Prep Ty			
Analysis Batch: 519472												
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	-
1,4-Dioxane	2.0	U	10.0	10.5		ug/L		105	51 - 153	4	16	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	82		66 - 120									

GC/MS VOA

Analysis Batch: 519393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-163280-1	TRIP BLANK_113	Total/NA	Water	8260B	
240-163280-2	MW-168S_022822	Total/NA	Water	8260B	
MB 240-519393/8	Method Blank	Total/NA	Water	8260B	
LCS 240-519393/5	Lab Control Sample	Total/NA	Water	8260B	
240-163304-E-4 MS	Matrix Spike	Total/NA	Water	8260B	
240-163304-K-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 519472

Lab Sample ID 240-163280-2	Client Sample ID MW-168S_022822	Prep Type Total/NA	Matrix Water	Method 8260B SIM	Prep Batch
MB 240-519472/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-519472/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-163307-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-163307-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Job ID: 240-163280-1

Matrix: Water

Lab Sample ID: 240-163280-1

Client Sample ID: TRIP BLANK_113 Date Collected: 02/28/22 00:00 Date Received: 03/04/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519393	03/08/22 16:35	LEE	TAL CAN
	ple ID: MW d: 02/28/22 1	/-168S_022822 0:40	2				Lab Sa	mple ID: 240-1632 Matrix: V
oate Receive	d: 03/04/22 0	8:00						
-	Batch	Batch		Dilution	Batch	Prepared		

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519393	03/08/22 16:59	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	519472	03/09/22 00:19	CS	TAL CAN

Laboratory References:

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

12 13

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

Laboratory: Eurofins Canton

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22 *
Connecticut	State	PH-0590	12-31-21 *
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22 *
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22 *
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	11-06-22
New York	NELAP	10975	03-31-22
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-21-14	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Z	Chair TestAmerica Laboratory location <u>Brighton</u> 10448 Citati	Chain of Custody Record 10448 Citation Drive Suite 2007 Brighton, MI 48116 / 810-229-2763	29-2763	TestAmerica
Client Contact Company Name Arcadis		NPDES RCRA Other		2 7
Address. 28550 Cabot Drive, Suite 500	Client Project Manager Kris Hinskey	Site Contact [.] Julia McClafferty	Lab Contact- Mike DelMonico	TestAmerica Laboratories, Inc. COC No [.]
City/State/Zip: Novi, MI, 48377	Telephone 248-994-2240	Telephone 734-644-5131	Telephone 330-497-9396	8
Phone 248-994-2240	Email kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	1 of 1 COCs For lab use only
Project Name Ford LTP Off-Site	Sampler Name	ant from b		Walk-in client
Project Number 30080642.402.04	Method of Shipment/Carrier	4) N		Ľab sampling
PO # 30080642.402.04	Shipping/Tracking No	Crab=	8260B 8260B 8260B	Job/SDG No
	Matrix	/)= \$}	ouqe 8 08 5-DCE CE 85	
Sample Identification	Sample Date Sample Time it Aqueous Solide	Сошрозі Ціцєссец : лион лион Исі НКОЗ НХО4	1 1-DCE cis-1,2 D PCE 8266 Vinyl Chid Vinyl Chid	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 13			××	1 Trip Blank
MW-1685-022822	0728/22 1040 6	6 N V C	X X X X X X X X X X X X X X X X X X X	3 VOAs for 8260B
		240-	240-163280 Chain of Custody	
Possible Hazard Identification Von-Hazard Elammable Skin I	Skin Irritant Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	mples are retained longer than 1 month)	
Special Instructions/QC Requirements & Comments Sample Address $3AA\phi_C$ (CAp_1To_1 Submit all results through Cadena at jtomalia@cadenaco com Cadena #E203631 Level IV Reporting requested		A for the second s	40 Archive For 1 Months	
ketinquished w	Date/Time	12 45 Received by Colol	the case Company with	
Relinquished by Adv R	Date/Time	Received by		Date/Time
Reingustred by			Company FETAL	
82008. TestAmerica Laboratorias. Inc., All rights reserved. LestAmerica & Ubespn ** are Iraxiemansk cel lestAmerica Laboratores, Inc.		(All I I IN	

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No.

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Eurofins TestAmerica C	anton Sample Recei	ipt Form/Narrativ	/e	Login #	16200
Canton Facility			······	Castari	inpacked by.
Client Avcadis	1	Site Name		Coolert	шраскей бу
Cooler Received on <u><u></u>-L</u>	1-22	Opened on <u>3</u> -	4-22	Ada	meanat
FedEx. 1 st Grd Exp [>Client Drop Off			<u>í</u>
Receipt After-hours Droj			Storage Locati		201
TestAmerica Cooler # Packing material used COOLANT: C 1. Cooler temperature up IR GUN# IR-14 (CF IR GUN #IR-15 (CF 2 Were tamper/custody s -Were the seals on th -Were tamper/custod 3. Shippers' packing slip a 4. Did custody papers acc 5. Were the custody paper 6. Was/were the person(s) 7. Did all bottles arrive in 8. Could all bottle labels (9. For each sample, does t 10. Were correct bottle(s) u 11. Sufficient quantity rece 12 Are these work share sa 15 yes, Questions 13-17 13 Were all preserved sam 14 Were VOAs on the CC 15. Were air bubbles >6 m	Foam Boy Tubble Wrap F Wet De Blue Ice on receipt -0.2 °C) Observed C -0.7 °C) Observed C seals on the outside of the e outside of the cooler y seals on the bottle(s) y seals intact and unco tached to the cooler(s) ompany the sample(s)? rs relinquished & signe who collected the sam good condition (Unbro ID/Date/Time) be recc the COC specify preserved used for the test(s) indicated ived to perform indicated amples and all listed or 7 have been checked at ple(s) at the correct pro- DC? m in any VOA vials?	coam Plastic Bag Dry Ice Water Cooler Temp.	Box Other None Other None Other See Multiple Coo °C Corrected Coo °C Corrected Coo °C Corrected Coo °C Corrected Coo °C Corrected Coo °C Quantity (14) (g/MeHg)?	ler Form oler Temp oler Temp Yes No Yes No	_°C _°C Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC
16 Was a VOA trip blank17. Was a LL Hg or Me Hg)? Trip Blank Lot #		Yes No Yes No	
Contacted PM		by			ther
18. CHAIN OF CUSTOD	Y & SAMPLE DISC	REPANCIES	additional next pag	ge Samples pr	ocessed by
19. SAMPLE CONDITIO			-		
Sample(s)					
Sample(s)				eived in a broken o	
Sample(s)		were receiv	ea with bubble >6 n	nm in diameter (1	Notity PM)
20. SAMPLE PRESERVA	ATION				
Sample(s)			Wer	e further preserve	d in the laboratory
Sample(s) Time preserved	Preservative(s) ad	ded/Lot number(s)		e furtiler preserve	a in the incontroly
· · · · · · · · · · · · · · · · · · ·		(0)			
VOA Sample Preservation -	· Date/Time VOAs Fro	ozen			

Login # : _____

	IR Gun #	Canton Sample Rece Observed	Corrected	
Cooler Description (Circle)	(Circle)	Temp °C	Temp °C	Coolant (Circle)
TA Client Box Other	(IR-14) IR-15	3-0	~	Wet Ice Blue Ice Dry k
\leq	(R-14) IR-15		2.8	Water None Wet Ice Blue Ice Dry Ic
A Gliert Box Other	(R-)4 IR-15	1-8		Water None
(TÀ) Client Box Other		2-4	<u> </u>	Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
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TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic
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TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
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TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice
TA Client Box Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry Ice
	IR-14 IR-15			Water None Wet Ice Blue Ice Dry Ice
	IR-14 IR-15			Water None Wet Ice Blue Ice Dry Ice
TA Client Box Other			See Tem	Water None

W1-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

DATA VERIFICATION REPORT



March 18, 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 WA04 OFF-SITE GW Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - North Central Laboratory submittal: 163280-1 Sample date: 2022-02-28 Report received by CADENA: 2022-03-18 Initial Data Verification completed by CADENA: 2022-03-18 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch 519393 LCS recoveries were outliers biased high for the following analytes: TRICHLOROETHENE and VINYL CHORIDE. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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
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 - North Central Laboratory Submittal: 163280-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_113 2401632801 2/28/2022				MW-1685_022822 2401632802 2/28/2022						
				Report		Valid		Report		Valid			
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier			
GC/MS VOC													
<u>OSW-8260B</u>													
1,1	1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l				
cis	s-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l				
Te	trachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l				
tra	ans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l				
Tri	ichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l				
Vir	nyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l				
<u>OSW-8260BBS</u>	<u>Sim</u>												
1,4	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 # 240-163280-1 CADENA Verification Report: 2022-03-18

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 45036R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-163280-1 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_113	240-163280-1	Water	02/28/2022		Х	
MW-168S_022822	240-163280-2	Water	02/28/2022		Х	Х

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		X		X	
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 8260B and 8260B 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 8260B/8260B-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, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK 113		Vinyl chloride	+32.3%
MW-168S_022822	Continuous Calibration Verification %D	1,1-Dichloroethene	+25.5%
		Trichloroethene	+23%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.05	Non-detect	R
Initial and Continuing	KKF ~0.05	Detect	J
Calibration	RRF <0.01 ¹	Non-detect	R
	KKF \$0.01	Detect	J

Initial/Continuing	Initial/Continuing Criteria						
		Non-detect					
	RRF >0.05 or RRF >0.01 ¹	Detect	No Action				
	%RSD > 20% or a correlation coefficient	Non-detect	UJ				
	<0.99	Detect	J				
Initial Calibration		Non-detect	R				
	%RSD > 90%	Detect	J				
		Non-detect	No Action				
	%D >20% (increase in sensitivity)	Detect	J				
		Non-detect	UJ				
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J				
		Non-detect	R				
	%D > 90% (increase/decrease in sensitivity)	Detect	J				

Note:

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

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 is 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: 8260B/8260B-SIM	Rep	orted	Perfo Acce	Not Required	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation					1
System performance and column resolution		Х		X	
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

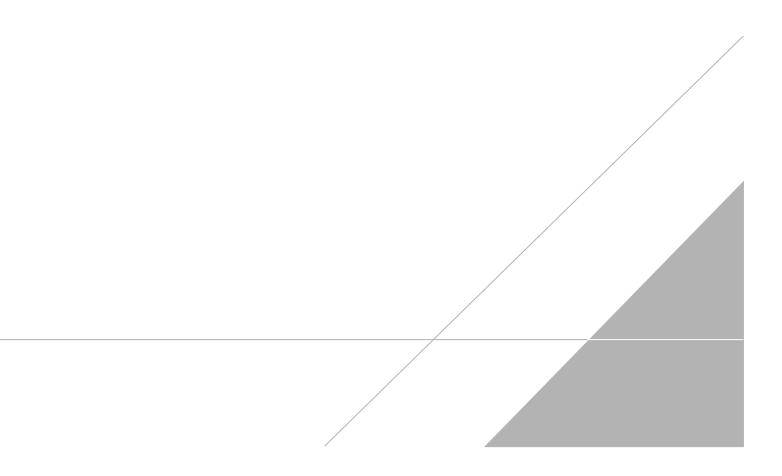
%D Percent difference

VALIDATION PERFORMED BY:	Bhagyashree Fulzele
SIGNATURE:	Brutzele
DATE:	March 29, 2022

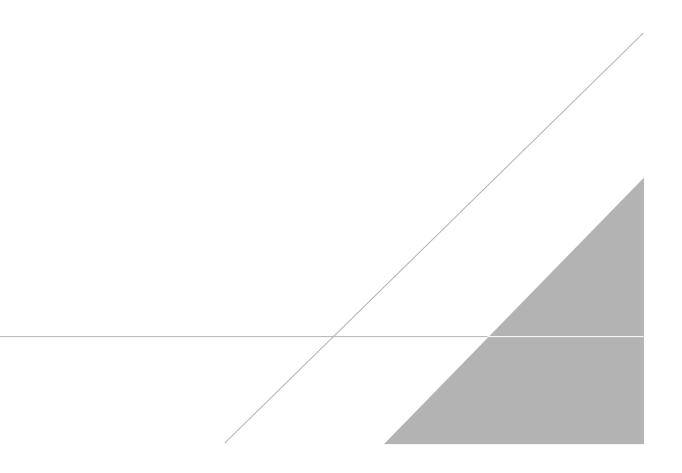
PEER REVIEW: Andrew Korycinski

DATE: March 30, 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

Company Name Arcadis	Client Project	Manager Kris	Hinsl	kev			Is;	te Co	ntacti	Inlia	MaCk	Contri			h			Lab Cash a Mile Duble							aboratories, Ir
ddress. 28550 Cabot Drive, Suite 500															La	Lab Contact [,] Mike DelMonico						COC No			
ity/State/Zip: Novi, MI, 48377	Telephone 248	5-994-2240					T	Telephone 734-644-5131 T							Te	Telephone 330-497-9396									
hone 248-994-2240	Email kristoff	er.hinskey@ar	cadis	.com			Ē	An	alysis	Turn	around	Time	<u> </u>	T		Analyses							1 of 1 For lab use only	COCs	
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O # 30080642.402.04	Shipping/Tracking No					-				2 days 1 day		S.	rap	a	avace	0070			8260B	OB S			Job/SDG No		
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Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Other	FUSCH	HN03	нсі	NaOH	ZnAc/ NaOH Undres	Other	Filtered Sample (Y / N)	Composite=C / Grab=G	1 1-UCE 8260B	Trans 1 of CE			TCE 8260B	Vinyl Chloride	1 4-Dioxane 8260B SIM				ecific Notes / nstructions:
TRIP BLANK_ 11.3 MW-1685-022822			Ť	i		T	T		1			1			XX		_		T	×			┿	1 Trip Bla	ank
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pecial Instructions/OC Requirements & Comments			Unk	nown	-				Retur	n to	Chent	- 1	Disposal	By L	ab		Arch	ive Fe	or 🔽		Months				
ample Address 34490 (apito) ubmit all results through Cadena at itomalia@cadena	ico.com Cadena#	E203631																							
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©2008, TestAmerica Laboratories, Inc., All rights reserved. IestAmerica & Design * are trademarks of TestAmerica Laboratories, Inc.									é	$\overline{}$	Tud	-	, ~~	- V	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	X					V				<u> </u>

3/18/2022

1.0 U*+

1.0 U*+

%Recovery Qualifier

75

113

86

96

Trichloroethene

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Vinyl chloride

Surrogate

Client Sample ID: TRIP BLANK_113 Date Collected: 02/28/22 00:00 **Date Received:** 02/04/22 00.00

Date Received: 03/04/22 08:00													
Method: 8260B - Volatile Organic Compounds (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			03/08/22 16:35	1				
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 16:35	1				
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 16:35	1				
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 16:35	1				

0.44 ug/L

0.45 ug/L

1.0

1.0

Limits

62 - 137

56 - 136

78 - 122

73 - 120

Job	ID:	240-	1632	80-1

03/08/22 16:35

03/08/22 16:35

Analyzed

03/08/22 16:35

03/08/22 16:35

03/08/22 16:35

03/08/22 16:35

Prepared

Lab Sample ID: 240-163280-1 Matrix: Water

1

1

1

1

1

1

Dil Fac

8

12 13

Client Sample ID: MW-168S_022822 Date Collected: 02/28/22 10:40 Date Received: 03/04/22 08:00

Job ID: 240-163280-1

Lab Sample ID: 240-163280-2 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			03/09/22 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		66 - 120			-	· · ·	03/09/22 00:19	1
Method: 8260B - Volatile O	rganic Compo	unds (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			03/08/22 16:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 16:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 16:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 16:59	1
Trichloroethene	1.0	U * 	1.0	0.44	ug/L			03/08/22 16:59	1
Vinyl chloride	1.0	U *+	1.0	0.45	ug/L			03/08/22 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		62 - 137			-		03/08/22 16:59	1
4-Bromofluorobenzene (Surr)	114		56 - 136					03/08/22 16:59	1
Toluene-d8 (Surr)	81		78 - 122					03/08/22 16:59	1
Dibromofluoromethane (Surr)	95		73 - 120					03/08/22 16:59	1