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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: 240-166350-1

Client Project/Site: Ford LTP - Off Site

For:

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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: 5/25/2022 10:54:14 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

Qualifiers		 3
GC/MS VOA		
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
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	 0
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
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"	13
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDI	Method Detection Limit	

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: 240-166350-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-166350-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/11/2022 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 was 0.3° C.

GC/MS VOA

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

VOA Prep

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

Job ID: 240-166350-1

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	TAL CAN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030C	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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-166350-1	TRIP BLANK_78	Water	05/09/22 00:00	05/11/22 08:00
240-166350-2	MW-117S_050922	Water	05/09/22 13:50	05/11/22 08:00

Detection Summary

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

Client Sample ID: TRIP BLANK_78

No Detections.

Client Sample ID: MW-117S_050922 Lab Sample ID: 240-166350-2									
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.45	J	1.0	0.44	ug/L	1	_	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

K 78

Job ID: 240-166350-1

Lab Sample ID: 240-166350-1

Client Sample ID: TRIP BLANK_78 Date Collected: 05/09/22 00:00 Date Received: 05/11/22 08:00

.lob	ıח	240-1	66350-1
000	ID.	240-1	00000-1

Lab Sample ID: 240-166350-1

Matrix: Water

5 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/22 15:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 15:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 15:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 15:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 15:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		05/18/22 15:49	1
4-Bromofluorobenzene (Surr)	103		56 - 136					05/18/22 15:49	1
Toluene-d8 (Surr)	96		78 - 122					05/18/22 15:49	1
Dibromofluoromethane (Surr)	112		73 - 120					05/18/22 15:49	1

Client Sample ID: MW-117S_050922 Date Collected: 05/09/22 13:50 Date Received: 05/11/22 08:00

Lab Sample ID: 240-166350-2 Matrix: Water

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/14/22 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120			-		05/14/22 02:51	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			05/18/22 16:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 16:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 16:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 16:13	1
Trichloroethene	0.45	J	1.0	0.44	ug/L			05/18/22 16:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		05/18/22 16:13	1
4-Bromofluorobenzene (Surr)	101		56 - 136					05/18/22 16:13	1
Toluene-d8 (Surr)	93		78 - 122					05/18/22 16:13	1
Dibromofluoromethane (Surr)	110		73 - 120					05/18/22 16:13	1

Surrogate Summary

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

			Pe	ercent Surre	gate Recovery (Accepta	ance Limits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-166329-F-5 MS	Matrix Spike	93	109	101	99	
240-166329-I-5 MSD	Matrix Spike Duplicate	91	108	99	99	
240-166350-1	TRIP BLANK_78	106	103	96	112	
240-166350-2	MW-117S_050922	103	101	93	110	
LCS 240-526882/5	Lab Control Sample	89	108	100	97	
MB 240-526882/8	Method Blank	103	103	95	111	
Surrogate Legend						
DCA = 1,2-Dichloroeth	nane-d4 (Surr)					
BFB = 4-Bromofluorol	penzene (Surr)					
TOL = Toluene-d8 (Su	ırr)					
DBFM = Dibromofluor	omethane (Surr)					
lethod: 8260D S	IM - Volatile Organic	Compoun	ds (GC/	MS)		
latrix: Water						Prep Type: Total

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(66-120)		
240-166341-G-2 MS	Matrix Spike	89		
240-166341-M-2 MSD	Matrix Spike Duplicate	90		
240-166350-2	MW-117S_050922	84		
LCS 240-526434/3	Lab Control Sample	86		
MB 240-526434/4	Method Blank	88		
Surrogate Legend				

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

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Job ID: 240-166350-1

Prep Type: Total/NA

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

Lab Sample ID: MB 240-526882/8 Matrix: Water

Analysis Batch: 526882

1	ИВ МВ							
Analyte Res	ult Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0 U	1.0	0.49	ug/L			05/18/22 10:26	1
cis-1,2-Dichloroethene	1.0 U	1.0	0.46	ug/L			05/18/22 10:26	1
Tetrachloroethene	1.0 U	1.0	0.44	ug/L			05/18/22 10:26	1
trans-1,2-Dichloroethene	1.0 U	1.0	0.51	ug/L			05/18/22 10:26	1
Trichloroethene	1.0 U	1.0	0.44	ug/L			05/18/22 10:26	1
Vinyl chloride	1.0 U	1.0	0.45	ug/L			05/18/22 10:26	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		05/18/22 10:26	1
4-Bromofluorobenzene (Surr)	103		56 - 136		05/18/22 10:26	1
Toluene-d8 (Surr)	95		78 - 122		05/18/22 10:26	1
Dibromofluoromethane (Surr)	111		73 - 120		05/18/22 10:26	1

Lab Sample ID: LCS 240-526882/5 Matrix: Water Analysis Batch: 526882

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	21.8		ug/L		109	63 - 134	
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	77 - 123	
Tetrachloroethene	20.0	20.2		ug/L		101	76 - 123	
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	75_124	
Trichloroethene	20.0	20.0		ug/L		100	70 - 122	
Vinyl chloride	20.0	15.1		ug/L		76	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-166329-F-5 MS **Matrix: Water** Analysis Batch: 526882

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	22.1		ug/L		110	56 - 135	
cis-1,2-Dichloroethene	35		20.0	51.1		ug/L		82	66 - 128	
Tetrachloroethene	1.0	U	20.0	19.5		ug/L		97	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	20.6		ug/L		103	56 - 136	
Trichloroethene	1.0	U	20.0	19.3		ug/L		97	61 - 124	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

Ganogato	<i>/////////////////////////////////////</i>	Quanner	Emito
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	109		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analysis Batch: 526882

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

Lab Sample ID: 240-166329-I-5 MSD
Matrix: Water

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

	Sample	Sample	Spike	MSD	MSD				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
1,1-Dichloroethene	1.0	U	20.0	22.7		ug/L		113	56 - 135	3
cis-1,2-Dichloroethene	35		20.0	53.0		ug/L		91	66 - 128	3
Tetrachloroethene	1.0	U	20.0	20.1		ug/L		100	62 - 131	3
trans-1,2-Dichloroethene	1.0	U	20.0	21.7		ug/L		109	56 - 136	5
Trichloroethene	1.0	U	20.0	20.2		ug/L		101	61 - 124	4
	MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	91		62 - 137							
4-Bromofluorobenzene (Surr)	108		56 - 136							
Toluene-d8 (Surr)	99		78_122							
Dibromofluoromethane (Surr)	99		73 - 120							

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

Lab Sample ID: MB 240-5 Matrix: Water	20434/4									U	me	ant Salli	ple ID: Method Prep Type: To	
Analysis Batch: 526434														
-		MB	MB											
Analyte	Re	sult	Qualifier		RL		MDL	Unit		D	Pr	repared	Analyzed	Dil Fac
1,4-Dioxane		2.0	U		2.0		0.86	ug/L					05/13/22 20:29	
		MB	MB											
Surrogate	%Reco	very	Qualifier	Lii	mits						PI	repared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)		88		66	- 120								05/13/22 20:29	
Lab Sample ID: LCS 240-	526434/3								Cli	ient S	Sar	nole ID:	: Lab Control S	Sample
Matrix: Water													Prep Type: To	
Analysis Batch: 526434														
				Spike		LCS	LCS	;					%Rec	
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
1,4-Dioxane				10.0		10.4			ug/L		_	104	80 - 122	
	LCS	LCS	;											
Surrogate	%Recovery	Qua	lifier	Limits										
1,2-Dichloroethane-d4 (Surr)	86			66 - 120)									
Lab Sample ID: 240-16634	41-G-2 MS										СІ	ient Sar	mple ID: Matrix	c Spike
Matrix: Water													Prep Type: To	
Analysis Batch: 526434														
	Sample	Sam	nple	Spike		MS	MS						%Rec	
Analyte	Result	Qua	lifier	Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
1,4-Dioxane	2.0	U		10.0		10.4			ug/L		_	104	51 - 153	
	MS	мs												
Surrogate	%Recovery	Qua	lifier	Limits										
1,2-Dichloroethane-d4 (Surr)	89	-		66 - 120)									

5 6 7

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

Lab Sample ID: 240-166341-M-2 MSD Matrix: Water Analysis Batch: 526434							le ID: N			
Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2.0	U	10.0	11.1		ug/L		111	51 - 153	7	16
MSD	MSD									
%Recovery	Qualifier	Limits								
90		66 - 120								
	Sample Result 2.0 MSD %Recovery	Sample Sample Result Qualifier 2.0 U MSD MSD %Recovery Qualifier	SampleSampleSpikeResultQualifierAdded2.0U10.0MSDMSD%RecoveryQualifierLimits	SampleSampleSpikeMSDResultQualifierAddedResult2.0U10.011.1MSDMSD%RecoveryQualifierLimits	Sample ResultSample QualifierSpike AddedMSD ResultMSD Qualifier2.0U10.011.1QualifierMSDMSD11.1LimitsIndext	Sample ResultSample QualifierSpike AddedMSD ResultMSD QualifierUnit ug/L2.0U10.011.1Qualifier ug/LUnit ug/LMSD %RecoveryQualifierLimits	Sample ResultSample QualifierSpike AddedMSD ResultMSD QualifierUnit UD2.0U10.011.1Qualifier ug/LUnit UDMSD %RecoveryMSD QualifierLimitsLimits	SampleSampleSpikeMSDMSDResultQualifierAddedResultQualifierUnitD%Rec2.0U10.011.1ug/LD%Rec111MSDMSDLimitsLimitsLimitsLimitsLimitsLimits	Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier Unit D %Rec 2.0 U 10.0 11.1 Qualifier Unit D %Rec MSD MSD 11.1 Qualifier Unit U 111 51 - 153 MSD MSD MSD Qualifier Limits	Sample Sample Spike MSD MSD MSD Result Qualifier Added Result Qualifier Unit D %Rec 2.0 U 10.0 11.1 Qualifier Unit D %Rec MSD MSD 11.1 Qualifier Unit Unit D %Rec MSD MSD MSD 11.1 Yes Yes Yes

QC Association Summary

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

GC/MS VOA

Analysis Batch: 526434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166350-2	MW-117S_050922	Total/NA	Water	8260D SIM	
MB 240-526434/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-526434/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-166341-G-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-166341-M-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-166350-1	TRIP BLANK_78	Total/NA	Water	8260D	
240-166350-2	MW-117S_050922	Total/NA	Water	8260D	
MB 240-526882/8	Method Blank	Total/NA	Water	8260D	
LCS 240-526882/5	Lab Control Sample	Total/NA	Water	8260D	
240-166329-F-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-166329-I-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Job ID: 240-166350-1

Matrix: Water

Lab Sample ID: 240-166350-1

Client Sample ID: TRIP BLANK_78 Date Collected: 05/09/22 00:00 Date Received: 05/11/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			526882	05/18/22 15:49	TJL1	TAL CAN
lient Sam	ple ID: MW	-117S_050922					Lab Sa	mple ID: 240-166350-
ate Collecte	d: 05/09/22 1	3:50						- Matrix: Wate
ato Rocoivo	d: 05/11/22 0	8-00						

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	526882	05/18/22 16:13	TJL1	TAL CAN
Total/NA	Analysis	8260D SIM		1	526434	05/14/22 02:51	CS	TAL CAN

Laboratory References:

TAL 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

aboratory: Eurofins C			to the second	
accreditations/certifications neigib	y this laboratory are listed. Not all ac	ccreditations/certifications are applicable to	o this report.	
Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23	
Connecticut	State	PH-0590	12-31-23	
Florida	NELAP	E87225	06-30-22	
Georgia	State	4062	02-23-22 *	
Illinois	NELAP	200004	07-31-22	
Iowa	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	06-30-22	
New York	NELAP	10975	04-01-23	
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	T104704517-22-16	08-31-22	
Virginia	NELAP	11570	09-14-22	1
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	

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

Regulation program: DW VDDS RCM Determined Determined <thdetermined< th=""></thdetermined<>	Contraction in	AICHIGAN	TestAmerica Laboratory location: Brighton 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	COTU ICSIATION (COLOR)	
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Mathematical Analysis	Market Andread Andread <th< td=""><td>v/State/Zin: Novi, MI 48377</td><td></td><td>Telephone: 330-966-9783</td><td></td></th<>	v/State/Zin: Novi, MI 48377		Telephone: 330-966-9783	
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-Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? -Were tamper/custody seals intact and uncompromised? -Were tamper/custo	CARLOR FACILITY		eipt Form/Narrativ			Lugin # :	16622
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1. Cooler temperature upon receipt □ Set Multiple Cooler Temp. 0.3 °C Corrected Cooler Temp. °C Corrected Cooler Temp. °C 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity ✓ <td></td> <td></td> <td></td> <td></td> <td>ther</td> <td></td> <td></td>					ther		
IR GUN# IR-13 (CF 0.0 °C) Observed Cooler Temp. 0.3 °C Corrected Cooler Temp. °C IR GUN #IR-13 (CF 0.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity / Ge No NA "Were tamper/custody seals in the bottle(s) or bottle kits (LLHg/MeHg)? "Were tamper/custody seals intet and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottle basic (DD/Date/Time) be reconciled with the COC? 9. For each sample, does the COC specify preservatives (DN), # of containers (DN), and ample type of grab/comp(10. Were to custody papers and all listed on the COC? 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 cortex H upon receipt? 14. Were VOAs on the COC? 15. Were as a VOA trip blank present in the cooler(s)? Trip Blank Lot # COULUM 15. Were as a VOA trip blank present in the cooler(s)? Trip Blank Lot # COULUM 16. Was a UL Hg or Me Hg trip blank present? 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page 19. SAMPLE CONDITION 5. Sample(s)			Dry Ice Water				
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20. SAMPLE PRESERVATION Sample(s)	17. Was a LL Hg or Contacted PM Concerning 18. CHAIN OF CU 19. SAMPLE CON Sample(s)	USTODY & SAMPLE DIS	CREPANCIES	additional next	page ed holdin	Samples pro	kpired.
Sample(s) were further preserved in the labor Time preserved:Preservative(s) added/Lot number(s):	17. Was a LL Hg or Contacted PM Concerning 18. CHAIN OF CU	USTODY & SAMPLE DIS	CREPANCIES	additional next	page ed holdin received	Samples pro	xpired.
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VUA Sample Preservation - Date/Time VUAs Frozen:	17. Was a LL Hg or Contacted PM Concerning 18. CHAIN OF CU 18. CHAIN OF CU 19. SAMPLE CON Sample(s) Sample(s) Sample(s) 20. SAMPLE PRES	USTODY & SAMPLE DIS	CREPANCIES	additional next additional next the recommende were r ed with bubble >	page ed holdin received 6 mm in	Samples pro	kpired. ontainer. otify PM)
	17. Was a LL Hg or Contacted PM Concerning 18. CHAIN OF CU 18. CHAIN OF CU 19. SAMPLE CON Sample(s) Sample(s) Sample(s) 20. SAMPLE PRES Sample(s) Time preserved:	USTODY & SAMPLE DIS IDITION SERVATION Preservative(s) a	CREPANCIES	additional next additional next the recommende were r ed with bubble > v	page ed holdin eccived 6 mm in	Samples pro	xpired. ontainer. lotify PM) in the laborator
	17. Was a LL Hg or Contacted PM Concerning 18. CHAIN OF CU 18. CHAIN OF CU 19. SAMPLE CON Sample(s) Sample(s) Sample(s) 20. SAMPLE PRES Sample(s) Time preserved:	USTODY & SAMPLE DIS IDITION SERVATION Preservative(s) a	CREPANCIES	additional next additional next the recommende were r ed with bubble > v	page ed holdin eccived 6 mm in	Samples pro	xpired. ontainer. lotify PM) in the laborator

DATA VERIFICATION REPORT



May 25, 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: 166350-1 Sample date: 2022-05-09 Report received by CADENA: 2022-05-25 Initial Data Verification completed by CADENA: 2022-05-25 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, 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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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 - Barberton Laboratory Submittal: 166350-1

Analyte GC/MS VOC <u>OSW-8260D</u> 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401663 5/9/202	3501			MW-117 2401663 5/9/202				
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-826</u>	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		0.45	1.0	ug/l	J
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-826</u>	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-166350-1 CADENA Verification Report: 2022-05-25

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 45743R Review Level: Tier III Project: 30080642.402.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-166350-1 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_78	240-166350-1	Water	05/09/22		Х	
-	MW-117S_050922	240-166350-2	Water	05/09/22		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		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 is 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.

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

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

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	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					·
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

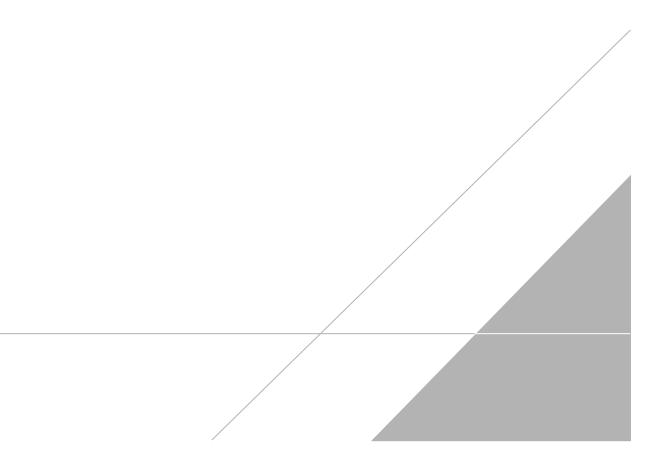
VALIDATION PERFORMED BY:	Vinayak Hegde
SIGNATURE:	V Gresci
DATE:	June 8, 2022

PEER REVIEW: Andrew Korycinski

DATE: June 12, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



AICHIGAN 190 Client Contact	TestAmerica Labora	tory location: ory program:			DW		NPDI			RCRA		16 / 81	-	-2763		_	_		_			1+16	LEADER IN ENVIRONMENTAL 1
ompany Name: Arcadis																						_	TestAmerica Laboratorie
ddress: 28550 Cabot Drive, Suite 500	Client Project N	lanager: Kris	Hinsk	ey		Site	Conta	ict: Ch	ristin	a Weav	er			Lab (ontac	t: Mik	e Dell	Monic	0				COC No:
ty/State/Zip: Novi, MI, 48377	Telephone: 269	-832-7478				Tel	ephone	: 248-	994-23	29				Telep	hone:	330-9	66-97	83					1 of 1 COCs
one: 248-994-2240	Email: Kristof	er.Hinskey@a	rcadis	.com		F	Analy	sis Tu	narou	nd Tim	e	T			_		A	nalys	es			=	For lab use only
oject Name: Ford LTP Off-Site	Sampler Name	1		,	/	TA	F if diffe		below 3 we	L													Walk-in client
		Ion G	21	rle	0		10 day	-	2 we	eeks													Lab sampling
oject Number: 30080642.402.04	Method of Ship	ment/Carrier:		_					l we 2 da			P=Q			0			0	SIM				
) # 30080642.402.04	Shipping/Track	ing No:						T	i da	У		Filtered Sample (Y/N) Composite=C/Grab=G	9	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D			8260D	8260D				Job/SDG No:
				Ma	trix	-	Conts	iners &	& Prese	rvatives		Sanp	8260	CE 8	S-DCI	8	0	Chloride 8	ane 8				
				Aqueous Sediment		5	8	Ŧ		sa u		nposi	1,1-DCE 8260D	1.2-D	1-5-1	PCE 8260D	8260D	1 Chi	1.4-Dioxane				Sample Specific Notes
Sample Identification	Sample Date	Sample Time	À.	Sedi	Solid Other:	H2SO4	HNO3	HCI NaOI	ZaAc/ NaOH	Unpre		Cor Fit	÷	CIS-	Trar	PCE	TCE	Vinyl	1,4-				Special Instructions:
TRIP BLANK_7-8	/	/		X				$l \square$			/	NG	X	X	Х	X	х	Х					1 Trip Blank
TRIP BLANK_78 UW-1175_USUGDL	5/4/22	1350		P				6				NG	K	x	x	X	٢	×	X				3 VOAs for 8260D 3 VOAs for 8260D S
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Possible Hazard Identification																						-	-
Non-Hazard Flammable Skin	Irritant Poiso	n B	Unkr	own				cturn t				sessed i posal B		oles are		rchive		han I	Month)	ths			
ecial Instructions/QC Requirements & Comments: mple Address: 12089 BOSTON Ibmit all results through Cadena at jtomalla@cade	POST																						
bmit all results through Cadena at jtomalia@cade vel IV Reporting requested.	naco.com. Cadena #	E203631																					
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Client Sample ID: TRIP BLANK_78 Date Collected: 05/09/22 00:00 Date Received: 05/11/22 08:00

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000	ID.	240-1	00000-1

Lab Sample ID: 240-166350-1

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/22 15:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 15:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 15:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 15:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 15:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		05/18/22 15:49	1
4-Bromofluorobenzene (Surr)	103		56 - 136					05/18/22 15:49	1
Toluene-d8 (Surr)	96		78 - 122					05/18/22 15:49	1
Dibromofluoromethane (Surr)	112		73 - 120					05/18/22 15:49	1

Client Sample ID: MW-117S_050922 Date Collected: 05/09/22 13:50 Date Received: 05/11/22 08:00

Lab Sample ID: 240-166350-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/14/22 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120			-		05/14/22 02:51	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			05/18/22 16:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 16:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 16:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 16:13	1
Trichloroethene	0.45	J	1.0	0.44	ug/L			05/18/22 16:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		05/18/22 16:13	1
4-Bromofluorobenzene (Surr)	101		56 - 136					05/18/22 16:13	1
Toluene-d8 (Surr)	93		78 - 122					05/18/22 16:13	1
Dibromofluoromethane (Surr)	110		73 - 120					05/18/22 16:13	1