

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/20/2025 6:26:59 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-220141-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)966-9783

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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		6
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)	
MDL	Method Detection Limit	

Glossary

Example 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 CDI Colony Forming Unit DDFR Duplicate Error Ratio (normalized absolute difference) DDI Fac Diution Factor DL Detection Limit (Do/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) LOQ Limit of Detection (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDL Method Detection Limit MDA Minimum Detectable Activity (Radiochemistry) MDL Method Detection Limit ML Minimum Detectable Activity (Radiochemistry) MDL Method Quantitation Limit ML Minimum Detectable Activity (Radiochemistry) MDL Method Quantitation Limit NO <th>Abbreviation</th> <th>These commonly used abbreviations may or may not be present in this report.</th>	Abbreviation	These commonly used abbreviations may or may not be present in this report.
KR Percent Recovery CFL Contains Free Liquid CFL Colony Forming Unit Colony Forming Unit Colony Forming Unit CNFL Contains No Free Liquid DER Dilution Factor Dilution Factor Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Desion Level Concentration (Radiochemistry) DLC Estimated Delection Limit (Dol/DOE) MCL Minimum Detectable Activity (Radiochemistry) MDL	÷	
CFLContains Fire LiquidCFUConvorsing UnitCFUConvorsing UnitCFUContains Nere LiquidDFLContains Nere LiquidDFLDilloca Eror Ratio (cormalized absolute difference)DFLDilloca Eror Ratio (cormalized absolute difference)DFLDilloca Eror Ratio (cormalized absolute difference)DFLDilloca Eror Ratio (cormalized absolute difference)DFLDidloca Eror Ratio (Cormalized absolute difference)DFLDifferenceDFLCorecontration (Radiochemistry)DFLMinium Detectable Active (Radiochemistry)DFLMinium Detectab	%R	
CFUColory Forming UnitCNFColory Forming UnitCNFColorians No Free LiquidDERDilutote Error Ratio (normalized absolute difference)Dil FaceDilutote FaceDil FaceDilution FaceDLA face </td <td>CFL</td> <td></td>	CFL	
CNFContains No Free LiquidDERDulcate Error Ratio (normalized absolute difference)DERDiluton FactrDil FaceDiluton FactrDotDetection Init (DoDDC)DL, RA, RE, INIndicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sampleDLCDetection Limit (DoDDC)DLCEstimated Detection (DoDDDC)LDQLimit of Detection (DoDDDC)LDQLimit of Detection (DoDDDC)LDQLimit of Detection (DoDDDC)LDQMinum Detectable Activity (Radiochemistry)MDAMinum Detectable Activity (Radiochemistry)MDAMinum Detectable Activity (Radiochemistry)MDAMinum Detectable Activity (Radiochemistry)MDAMinum Detectable Concentration (Radiochemistry)MDAMinum Detectable Concentration (Radiochemistry)MDAMinum Detectable Concentration (Radiochemistry)MDAMinum Detectable Concentration (Radiochemistry)MDAMotor Detection LimitMDAMotor Detection LimitMDAMotor Detection LimitNDANo Strobable NumberNDANo Strobable Number <td>CFU</td> <td></td>	CFU	
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Dil FacDilution FactorDLDetection Limit (DoD/DOE)DL, RA, RE, INIndicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sampleDL, CADecision Level Concentration (Radiochemistry)EDLDecision Level Concentration (Radiochemistry)EDLStimated Detection Limit (Dioxin)LOQLimit of Detection (DoD/DOE)LOQLimit of Cuantitation (DoD/DOE)LOQEPA recommended "Maximum Contaminant Level"MDAMinimum Detectable Activity (Radiochemistry)MDCMinimum Detectable Concentration (Radiochemistry)MDCMinimum Detectable Concentration (Radiochemistry)MDLMethod Detection LimitMDAMotor Detectable Concentration (Radiochemistry)MDLMotor Detectable Concentration (Radiochemistry)MDLMotor Detectable Concentration (Radiochemistry)MDLMotor Detectable NumberMDLMotor Detectable NumberMDLMotor Dotable NumberMDLMotor Detectable NumberNDLNo CalculatedNDLNo Calculated the reporting limit (or MDL or EDL if shown)NCNo Calculated Intimit (or MDL or EDL if shown)NCNo Calculated Intimit (or MDL or EDL if shown)NCNo Stative / PresentPOSOPacital Quantitation LimitPRESPacital Quantitation Limit (addochemistry)RERRelative Error Ratio (Radiochemistry)RERRelative Error Ratio (Radiochemistry)RPDRelative Cirocani Difference, a measure o	DER	
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LOQLimit of Quantitation (DoD/DOE)MCLEPA recommended "Maximum Contaminant Level"MDAMinimum Detectable Activity (Radiochemistry)MDCMinimum Detectable Concentration (Radiochemistry)MDLMethod Detection LimitMLMethod Detection LimitMLMost Probable NumberMQLMethod Quantitation LimitNCNot CalculatedNDLNot CalculatedNDLNot CalculatedNDLNot CalculatedNDLNot CalculatedNDLNot CalculatedNDLNot CalculatedNDLNot CalculatedNDLNot CalculatedNDLRegative / AbsentPOSPositive / PresentPOLPractical Quantitation LimitPRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RERRelative Error Ratio (Radiochemistry)RPDRelative Precent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Actor (Dioxin)	EDL	Estimated Detection Limit (Dioxin)
MCLEPA recommended 'Maximum Contaminant Level"MDAMinimum Detectable Activity (Radiochemistry)MDCMinimum Detectable Concentration (Radiochemistry)MDLMethod Detection LimitMLMinimum Level (Dioxin)MDLMost Probable NumberMQLMethod Quantitation LimitMQLMethod Quantitation LimitNCNot CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNogative / AbsentPOSPositive / PresentPOLPractical Quantitation LimitPQLQuality ControlRERRelative Error Ratio (Radiochemistry)RERRelative Error Ratio (Radiochemistry)RERRelative Error Ratio (Radiochemistry)REPRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Quotient (Dioxin)	LOD	Limit of Detection (DoD/DOE)
MDAMinimum Detectable Activity (Radiochemistry)MDCMinimum Detectable Concentration (Radiochemistry)MDLMethod Detection LimitMLMinimum Level (Dioxin)MPNMost Probable NumberMQLMethod Quantitation LimitNCNot CalculatedNDNot CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNegative / AbsentPOSPositive / PresentPOLPractical Quantitation LimitPQLQuality ControlRERRelative Error Ratio (Radiochemistry)RERRelative Error Ratio (Radiochemistry)RLRelative Error Latif (Radiochemistry)RLRelative Procent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Louist (Dioxin)	LOQ	Limit of Quantitation (DoD/DOE)
MDCMinimum Detectable Concentration (Radiochemistry)MDLMethod Detection LimitMLMinimum Level (Dioxin)MPNMost Probable NumberMQLMethod Quantitation LimitNCNot CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNegative / AbsentPOSPositive / PresentPQLPractical Quantitation LimitQQQuality ControlRERRelative Error Ratio (Radiochemistry)RLRelative Error Ratio (Radiochemistry)RLRelative Procent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)	MCL	EPA recommended "Maximum Contaminant Level"
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 Present Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin)	MDA	Minimum Detectable Activity (Radiochemistry)
MLMinimu Level (Dioxin)MPNMost Probable NumberMQLMethod Quantitation LimitNQLNot CalculatedNCNot CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNegative / AbsentPOSPositive / PresentPQLPresungtive and autiation LimitPRESPresungtiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLRelative Procent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	MDC	Minimum Detectable Concentration (Radiochemistry)
MPNMost Probable NumberMQLMethod Quantitation LimitNCNot CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNegative / AbsentPOSPositive / PresentPQLPractical Quantitation LimitPRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RLPRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)	MDL	Method Detection Limit
MQLMethod Quantitation LimitNCNot CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNegative / AbsentPOSPositive / PresentPQLPractical Quantitation LimitPRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Precent Difference, a measure of the relative difference between two pointsTEQToxicity Equivalent Quotient (Dioxin)	ML	Minimum Level (Dioxin)
NCNd CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNegative / AbsentPOSPositive / PresentPQLPractical Quantitation LimitPRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Present Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)	MPN	Most Probable Number
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NEGNegative / AbsentPOSPositive / PresentPQLPractical Quantitation LimitPRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	NC	Not Calculated
POSPositive / PresentPQLPractical Quantitation LimitPRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQLPractical Quantitation LimitPRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	NEG	Negative / Absent
PRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	POS	Positive / Present
QCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	PQL	Practical Quantitation Limit
RERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	PRES	Presumptive
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)	QC	Quality Control
RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	RER	Relative Error Ratio (Radiochemistry)
TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	RL	Reporting Limit or Requested Limit (Radiochemistry)
TEQ Toxicity Equivalent Quotient (Dioxin)	RPD	Relative Percent Difference, a measure of the relative difference between two points
	TEF	Toxicity Equivalent Factor (Dioxin)
TNTC Too Numerous To Count	TEQ	Toxicity Equivalent Quotient (Dioxin)
	TNTC	Too Numerous To Count

Job ID: 240-220141-1

Job ID: 240-220141-1

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Job Narrative 240-220141-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/8/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C.

GC/MS VOA

Method 8260D: No MS/MSD due to instrument failure. TRIP BLANK_72 (240-220141-1)

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

Eurofins Cleveland

Client: Arcadis US Inc. Project/Site: Ford LTP

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

Protocol References:

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

Laboratory References:

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

Client: Arcadis US Inc. Project/Site: Ford LTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-220141-1	TRIP BLANK_72	Water	03/05/25 00:00	03/08/25 08:00
240-220141-2	MW-168S_030525	Water	03/05/25 09:29	03/08/25 08:00

Detection Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_72

Job ID: 240-220141-1

Lab Sample ID: 240-220141-1

No Detections.

Client Sample ID: MW-168S_030525 Lab Sample ID: 240-220141-2								
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
cis-1,2-Dichloroethene	0.93	J	1.0	0.46	ug/L	1	8260D	Total/NA

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_72

Date Collected: 03/05/25 00:00 Date Received: 03/08/25 08:00

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/15/25 17:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/15/25 17:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 17:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/15/25 17:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 17:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/15/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			-		03/15/25 17:01	1
4-Bromofluorobenzene (Surr)	90		56 - 136					03/15/25 17:01	1
Toluene-d8 (Surr)	97		78 - 122					03/15/25 17:01	1
Dibromofluoromethane (Surr)	95		73 - 120					03/15/25 17:01	1

Job ID: 240-220141-1

3/20/2025

Client Sample ID: MW-168S_030525

Date Collected: 03/05/25 09:29 Date Received: 03/08/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/12/25 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		68 - 127			-		03/12/25 22:55	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds 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			03/18/25 18:57	1
cis-1,2-Dichloroethene	0.93	J	1.0	0.46	ug/L			03/18/25 18:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/18/25 18:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/18/25 18:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/18/25 18:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/18/25 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			-		03/18/25 18:57	1
4-Bromofluorobenzene (Surr)	96		56 - 136					03/18/25 18:57	1
Toluene-d8 (Surr)	100		78 - 122					03/18/25 18:57	1
Dibromofluoromethane (Surr)	94		73 - 120					03/18/25 18:57	1

3/20/2025

Lab Sample ID: 240-220141-2 Matrix: Water

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

latrix: Water						Prep Type: Total/NA
				Percent Su	rrogate Recovery (Accep	tance Limits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-220133-E-3 MS	Matrix Spike	100	100	108	96	
240-220133-E-3 MSD	Matrix Spike Duplicate	99	98	107	97	
240-220141-1	TRIP BLANK_72	98	90	97	95	
240-220141-2	MW-168S_030525	99	96	100	94	
LCS 240-648348/5	Lab Control Sample	100	108	107	97	
LCS 240-648627/5	Lab Control Sample	95	98	104	98	
MB 240-648348/9	Method Blank	100	96	101	97	
MB 240-648627/9	Method Blank	101	102	102	99	
Surrogate Legend						
DCA = 1,2-Dichloroetha	ane-d4 (Surr)					
BFB = 4-Bromofluorobe	enzene (Surr)					
TOL = Toluene-d8 (Sur	r)					
DBFM = Dibromofluoro	methane (Surr)					
lethod: 8260D SIN	/ - Volatile Organic Com	nounds (GC	(MS)			
latrix: Water						Prep Type: Total/NA
-				Percent Su	rrogate Recovery (Accep	
				r ercent Su	iogale Recovery (Accep	

			Fercent Surroyate Recovery	(Acceptance Linit
		DCA		
b Sample ID	Client Sample ID	(68-127)		
-220134-E-2 MS	Matrix Spike	86		
-220134-E-2 MSD	Matrix Spike Duplicate	83		
-220141-2	MW-168S_030525	82		
240-647989/7	Lab Control Sample	89		
240-647989/9	Method Blank	84		

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

3/20/2025

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

Lab	Sample	ID:	MB	240-648348/9	

Matrix: Water Analysis Batch: 648348

	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			03/15/25 13:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/15/25 13:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 13:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/15/25 13:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 13:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/15/25 13:55	1

	MID					
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137		03/15/25 13:55	1
4-Bromofluorobenzene (Surr)	96		56 - 136		03/15/25 13:55	1
Toluene-d8 (Surr)	101		78 - 122		03/15/25 13:55	1
Dibromofluoromethane (Surr)	97		73 - 120		03/15/25 13:55	1

MB MB

Lab Sample ID: LCS 240-648348/5 Matrix: Water Analysis Batch: 648348

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.7		ug/L		88	63 - 134	
cis-1,2-Dichloroethene	20.0	18.5		ug/L		92	77 - 123	
Tetrachloroethene	20.0	19.3		ug/L		97	76 - 123	
trans-1,2-Dichloroethene	20.0	17.7		ug/L		89	75 - 124	
Trichloroethene	20.0	17.7		ug/L		89	70 - 122	
Vinyl chloride	20.0	15.5		ug/L		78	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 _ 137
4-Bromofluorobenzene (Surr)	108		56 _ 136
Toluene-d8 (Surr)	107		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: MB 240-648627/9 Matrix: Water

Analysis Batch: 648627 Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/18/25 12:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/18/25 12:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/18/25 12:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/18/25 12:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/18/25 12:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/18/25 12:58	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		03/18/25 12:58	1
4-Bromofluorobenzene (Surr)	102		56 - 136					03/18/25 12:58	1
Toluene-d8 (Surr)	102		78 - 122					03/18/25 12:58	1

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

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

Eurofins Cleveland

10

Job ID: 240-220141-1

Analysis Detals 040007

Matrix: Water

Lab Sample ID: MB 240-648627/9

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

98

Prep Type: Total/NA

Client Sample ID: Method Blank

	Л	MB MB								
Surrogate	%Recove	ery Qualifier	Limits				F	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)		99	73 - 120	•					03/18/25 12:58	1
Lab Sample ID: LCS 240-648627/	/5						Client	t Sample	e ID: Lab Control	Sample
Matrix: Water									Prep Type: ⁻	Total/NA
Analysis Batch: 648627										
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene			20.0	17.6		ug/L		88	63 - 134	
cis-1,2-Dichloroethene			20.0	17.6		ug/L		88	77 - 123	
Tetrachloroethene			20.0	19.6		ug/L		98	76 - 123	
trans-1,2-Dichloroethene			20.0	18.5		ug/L		92	75 - 124	
Trichloroethene			20.0	18.0		ug/L		90	70 - 122	
Vinyl chloride			20.0	19.1		ug/L		96	60 - 144	
	LCS L	.cs								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	95		62 - 137							
4-Bromofluorobenzene (Surr)	98		56 - 136							
Toluene-d8 (Surr)	104		78 - 122							

QC Sample Results

Lab Sample ID: 240-220133-E-3 MS Matrix: Water Analysis Batch: 648627

Dibromofluoromethane (Surr)

•	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	500	U	10000	8600		ug/L		86	56 - 135
cis-1,2-Dichloroethene	30000		10000	38000		ug/L		85	66 - 128
Tetrachloroethene	500	U	10000	9770		ug/L		98	62 - 131
trans-1,2-Dichloroethene	500	U	10000	9200		ug/L		92	56 - 136
Trichloroethene	500	U	10000	8760		ug/L		88	61 - 124
Vinyl chloride	7300		10000	17600		ug/L		104	43 - 157

73 - 120

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-220133-E-3 MSD Matrix: Water Analysis Batch: 648627

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	500	U	10000	8720		ug/L		87	56 - 135	1	26
cis-1,2-Dichloroethene	30000		10000	37900		ug/L		83	66 - 128	0	14
Tetrachloroethene	500	U	10000	9880		ug/L		99	62 - 131	1	20
trans-1,2-Dichloroethene	500	U	10000	9210		ug/L		92	56 - 136	0	15
Trichloroethene	500	U	10000	9210		ug/L		92	61 - 124	5	15

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

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

10

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

Lab Sample ID: 240-220133- Matrix: Water	E-3 MSD						Clie	nt Sa	ample IE): Matrix Sp Prep T	oike Dup 'ype: To	
Analysis Batch: 648627												
	Sample	Sample	Spike	MSD	MSD					%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Vinyl chloride	7300		10000	17100		ug/L			99	43 - 157	3	2
	MSD											
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	99		62 - 137									
4-Bromofluorobenzene (Surr)	98		56 - 136									
Toluene-d8 (Surr)	107		78 - 122									
Dibromofluoromethane (Surr)	97		73 - 120									
lethod: 8260D SIM - Vol	atile Organic	; Compou	nds (GC/MS)									
Lab Sample ID: MB 240-647	989/9								Client S	Sample ID: I		
Matrix: Water										Prep T	ype: To	tal/N
Analysis Batch: 647989												
		MB MB										
Analyte	R	esult Qualifier	r RL		MDL Unit		_ <u>D</u>	P	repared	Analyz	ed	Dil F
1,4-Dioxane		2.0 U	2.0		0.86 ug/L					03/12/25	17:27	
		MB MB										
Surrogate	%Reco		r Limits					D	repared	Analyz	od	Dil F
1,2-Dichloroethane-d4 (Surr)	////////	84	68 - 127						repareu	03/12/25		יווס
,2-Dichloroethane-u+ (Sun)		04	00 - 727							00/12/20	11.21	
Lab Sample ID: LCS 240-64	7989/7						С	lient		D: Lab Co	ontrol S	amp
Matrix: Water											ype: To	
Analysis Batch: 647989											,,	
,,			Spike	LCS	LCS					%Rec		
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
1,4-Dioxane			10.0	9.36		ug/L			94	75 - 121		
.,						3						
		105										
	LCS	200										
Surrogate	LCS Recovery		Limits									
-			Limits 68 - 127									
1,2-Dichloroethane-d4 (Surr)												0.11
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134									Client	Sample ID:		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water									Client		: Matrix ype: To	
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water									Client	Prep T		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water	<u>%Recovery</u> 89 E-2 MS			MS	MS				Client			
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989	- <u>%Recovery</u> 89 E-2 MS Sample	Qualifier	68 - 127		MS Qualifier	Unit		D	Client %Rec	Prep T		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134 Matrix: Water Analysis Batch: 647989 Analyte	- <u>%Recovery</u> 89 E-2 MS Sample	Qualifier Sample Qualifier	68 - 127 Spike			Unit ug/L		<u>D</u>		Prep T %Rec		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134 Matrix: Water Analysis Batch: 647989 Analyte	- %Recovery 89 •E-2 MS Sample Result 2.0	Qualifier Sample Qualifier U	68 - 127 Spike Added	Result				_ <u>D</u>	%Rec	Prep T %Rec Limits		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989 Analyte 1,4-Dioxane		Qualifier Sample Qualifier U MS	68 - 127 Spike Added 10.0	Result				_ <u>D</u>	%Rec	Prep T %Rec Limits		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989 Analyte 1,4-Dioxane Surrogate	%Recovery 89 E-2 MS Sample Result 2.0 MS %Recovery	Qualifier Sample Qualifier U	68 - 127 Spike Added 10.0	Result				<u>D</u>	%Rec	Prep T %Rec Limits		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989 Analyte 1,4-Dioxane Surrogate		Qualifier Sample Qualifier U MS	68 - 127 Spike Added 10.0	Result				D	%Rec	Prep T %Rec Limits		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr)	*Recovery 89 •E-2 MS Sample Result 2.0 MS %Recovery 86	Qualifier Sample Qualifier U MS	68 - 127 Spike Added 10.0	Result			Clie		%Rec 95	Prep T %Rec Limits	уре: То	tal/N
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134-	*Recovery 89 •E-2 MS Sample Result 2.0 MS %Recovery 86	Qualifier Sample Qualifier U MS	68 - 127 Spike Added 10.0	Result			Clie		%Rec 95	Prep T %Rec Limits 20 - 180	ype: To 	blica
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water	*Recovery 89 •E-2 MS Sample Result 2.0 MS %Recovery 86	Qualifier Sample Qualifier U MS	68 - 127 Spike Added 10.0	Result			Clie		%Rec 95	Prep T %Rec Limits 20 - 180	уре: То	blica
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water	<pre>%Recovery 89 E-2 MS Sample Result 2.0 MS %Recovery 86 E-2 MSD</pre>	Qualifier Sample Qualifier U MS Qualifier	68 - 127 Spike Added 10.0 <u>Limits</u> 68 - 127	Result 9.50			Clie		%Rec 95	Prep T %Rec Limits 20 - 180 D: Matrix Sp Prep T	ype: To 	blicat
Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989 Analyte	*Recovery 89 •E-2 MS Sample Result 2.0 MS %Recovery 86 •E-2 MSD Sample	Qualifier Sample Qualifier U MS	68 - 127 Spike Added 10.0	Result 9.50	Qualifier		Clie		%Rec 95	Prep T %Rec Limits 20 - 180	ype: To 	blicat

Eurofins Cleveland

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

Lab Sample ID: 240-220134- Matrix: Water Analysis Batch: 647989	E-2 MSD	Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA		
	MSD	MSD		
Surrogate	%Recovery	Qualifier	Limits	
1,2-Dichloroethane-d4 (Surr)	83		68 - 127	

Eurofins Cleveland

Prep Batch

Prep Batch

GC/MS VOA Analysis Batch: 647989

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method
240-220141-2	MW-168S_030525	Total/NA	Water	8260D SIM
MB 240-647989/9	Method Blank	Total/NA	Water	8260D SIM
LCS 240-647989/7	Lab Control Sample	Total/NA	Water	8260D SIM
240-220134-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM
240-220134-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM
Analysis Batch: 648348	В			
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method
240-220141-1	TRIP BLANK_72	Total/NA	Water	8260D
MB 240-648348/9	Method Blank	Total/NA	Water	8260D
LCS 240-648348/5	Lab Control Sample	Total/NA	Water	8260D

Analysis Batch: 648627

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-220141-2	MW-168S_030525	Total/NA	Water	8260D	
MB 240-648627/9	Method Blank	Total/NA	Water	8260D	
LCS 240-648627/5	Lab Control Sample	Total/NA	Water	8260D	
240-220133-E-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-220133-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Matrix: Water

Client Sample ID: TRIP BLANK_72

Lab Sample	ID:	240-220141-1
		Matrix: Water

Lab Sample ID: 240-220141-2

Date Collected: 03/05/25 00:00 Date Received: 03/08/25 08:00

Prep Type Type Method Run Factor Number Analyst Lab or Analyzed	_	Batch	Batch		Dilution	Batch			Prepared
	Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA Analysis 8260D 1 648348 AJS EET CLE 03/15/25 17:01	Total/NA	Analysis	8260D		1	648348	AJS	EET CLE	03/15/25 17:01

Client Sample ID: MW-168S_030525 Date Collected: 03/05/25 09:29

Date Received: 03/08/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	648627	MDH	EET CLE	03/18/25 18:57
Total/NA	Analysis	8260D SIM		1	647989	R5XG	EET CLE	03/12/25 22:55

Laboratory References:

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

12 13

Accreditation/Certification Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

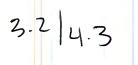
Laboratory: Eurofins Cleveland

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
linois	NELAP	200004	08-31-25
owa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (WW)	State	KY98016	12-31-25
linnesota	NELAP	039-999-348	12-31-25
lew Hampshire	NELAP	225024	09-30-25
lew Jersey	NELAP	OH001	07-03-25
lew York	NELAP	10975	04-01-25
Dhio	State	8303	11-04-25
Dhio VAP	State	ORELAP 4062	02-28-26
Dregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	03-18-25
exas	NELAP	T104704517-22-19	08-31-25
JS Fish & Wildlife	US Federal Programs	A26406	02-28-26
JSDA	US Federal Programs	P330-18-00281	01-05-27
/irginia	NELAP	460175	09-14-25
Vest Virginia DEP	State	210	12-31-25
Visconsin	State	399167560	08-31-25

Eurofins Cleveland



Chain of Custody Record





TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

Client Contact	Regulat	ory program:		1	DW	/	☐ NF	PDES		RC	RA	L.	Other													
Company Name: Arcadis	Client Project 7	Manager: Meg	an Me	kley	_		Site Co	ntact: 5	Sama	ntha S	naichle	r		Ē	ah Co	Intact	Mik	Dell	Monice)		-	_	tAmerica L C No:	aboratories,	, In
ddress: 28550 Cabot Drive, Suite 500					_																		_			
ity/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240					Telepho	one: 24	8-994	4-2240				Т	`eleph	one: 3	30-49	7-939	6					1 of 1	COCs	
ny/state/2.ip. (1001, 101, 48577	Email: kristoff	er.hinskey@ar	cadis.c	om			An	alysis T	wna	round	Time							Á	nalys	es			For	lab use only	1210	
hone: 248-994-2240							TATIC	lifferent fr	um bal	lan													w	lk-in client	- armen	-
Project Name: Ford LTP	Sampler Name 2	zbecca	A	R	ìaan	n	10 c		F 3	3 weeks 2 weeks														sampling	-	10
Project Number: 30206169.0401.03	Method of Ship			~	U			ldy	E 1	1 week 2 days		î	ę							SIM				Perupang	1.	
PO # US3460021848	Shipping/Track	ing No:								l days		le (V /	/Grab	0	260D	8260			8260[260D			Job	SDG No:	in and	
				N	Antrix		C	ontainer	1 & P	reserva	tives	amp	U U	3260	18 18	-DC		9	oride	ne 8			10	1.000		
	Comelo Data	Samala Tima	Air	Aquenus	Sediment Solid	ther	H2SO4 HN03	HCI	NaOH	OH	Other:	Filtered Sample (Y / N)	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1.4-Dioxane 8260D SIM					ecific Notes / nstructions:	
Sample Identification	Sample Date	Sample Time		<u><</u> (ă ă				Z	3 Z D					-		-			-	\models		┿			=
TRIP BLANK_72				1				1				Ν	G	X	X	Х	X	X	Х				_	1 Trip Bla		
MW-1685_030525	3/5/25	0929		6				6				N	6	χ	X	$\boldsymbol{\chi}$	X	X	X	X				3 VO <mark>As fo</mark> 3 VOAs fo	r 8260D r 8260D SII	м
																									/	1
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					_	-								_			240-:	2201	41 C							
			\square													1	T									
RC 315/25					+																					
Possible Hazard Identification	I						Sam	ple Dis			may be	assess	ed if s:	ample		retain	ed lon	ger ti	nan 1 r							-
✓ Non-Hazard Cammable in Irritant ipecial Instructions/QC Requirements & Comments: A1 in		w1 .	Jnkn	iown				Retur	n to C	Client		Dispos	al By I	_ab	ſ	Ar	chive	ror I	-	Months	-	-	-			-
pecial Instructions/QC Requirements & Comments: 3445 Submit all results through Cadena at jtomalia@cadenaco.c .evel IV Reporting requested.	om. Cadena #	203728																								
elinquished by: human latting	Company:	adis	1	Date/1	Fime:	5	150	00	Recei	ived by	Vovi	i (c	id	R	601	201	2	Comp	any:	rad	is		Da 3	eTime: 15 25	150	t
elinquished by	Company:	dí)	1	Date/I		25	133	D		(A	A		2	-	1	ľ	Comp	Un	7			Da 3	Time:	1336	;
clinquished by	Company:	41	1	Date/1 3/-	Fime: 7/25	i 14			Recei	ived in	Labora	tory by	Ϋ۹	٦.		fir		Comp	any: T	FUR			Da	ZIZI	258	~

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14

20. SAMPLE PRESERVATION Sample(s) Time preserved:Preservative(s) added/Lot number(s):	19. SAMPLE CONDITION Sample(s)	Concerning 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 3 addi	Contacted PM Date by	Distriction Color Received on 318 125 Operated on 318 125 Color num Cooler Received on 318 125 Operated on 318 125 Operated on 318 125 Cooler Received on 318 125 Operated on 318 125 Operated on 318 125 FedEx: 1* Grd Exp UPS FAS Wgrpont Client Loop Off Eurofins.Courier Other Packing material used: Buo Client Cooler Box Other Storage Location 1. Cooler temperature upon receipt Image None Other Ste Malipic Cooler Form 1. Cooler temperature upon receipt Image Image None Other Were tamper/custody seals on the outside of the cooler(s) signed & date?? C Corrected Cooler Were tamper/custody seals intact and uncompromised? No No 3. Shippers' packing gin atached to the cooler(s)? Totak No No 4. Did custody papers accompany the sample(s)? No No 5. Were tamper/custody seals on the outside of the cooler(s)? No No 6. Wasavere the person(s
were further preserved in the laboratory.	were received after the recommended holding time had expired. were received in a broken container. were received with bubble >6 mm in diameter. (Notify PM)	additional next page Samples processed by:	via Verbal Voice Mail Other	IBICS Cooler unpacked by: Marchar Eurofins Courier Other None Corrected Cooler Temp. $4 - 3$ oc Temp. $3 \cdot 2$ oc Corrected Cooler Temp. $4 - 3$ oc Quantity Ves Yes No No Na Tests that are not cher Storage Location Temp. $3 \cdot 2$ oc Corrected Cooler Temp. $4 - 3$ oc Quantity Yes No No Na Receiving: No No Na Olace? Kes No No No PH Strip Lot# HC448976 No No No No No No

WI-NC-099-123124 Cooler Receipt Form.doc



Temperature readings

MW-168S_030525	MW-168S_030525	MW-168S_030525	MW-168S_030525	MW-168S_030525	MW-168S_030525	TRIP BLANK_72	Client Sample ID
240-220141-F-2	240-220141-E-2	240-220141-D-2	240-220141-C-2	240-220141-B-2	240-220141-A-2	240-220141-A-1	Lab ID
Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type
					and a second		<u>Container</u> <u>Preservation</u> <u>Preservation</u> pH <u>Temp</u> <u>Added</u> Lot Number

DATA VERIFICATION REPORT



March 20, 2025

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728 Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil Project number: 30251157.401.04 (vapor 301.04) 30206169.0401.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 220141-1 Sample date: 2025-03-05 Report received by CADENA: 2025-03-20 Initial Data Verification completed by CADENA: 2025-03-20 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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 220141-1

		Sample Name: Lab Sample ID: Sample Date:		1411 5			MW-168S_030525 2402201412 3/5/2025			
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC OSW-8260	DD									
	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		0.93	1.0	ug/l	J
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-8260</u>	<u>DDSIM</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 # 240-220141-1 CADENA Verification Report: 2025-03-20

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58572R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-220141-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Analysis			
Sample iD		Width	Collection Date	Farent Sample	voc	VOC SIM		
TRIP BLANK_72	240-220141-1	Water	03/05/2025		Х			
MW-168S_030525	240-220141-2	Water	03/05/2025		Х	Х		

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	orted		mance otable	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 for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

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		Х	
Tier III Validation		1			1
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion 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

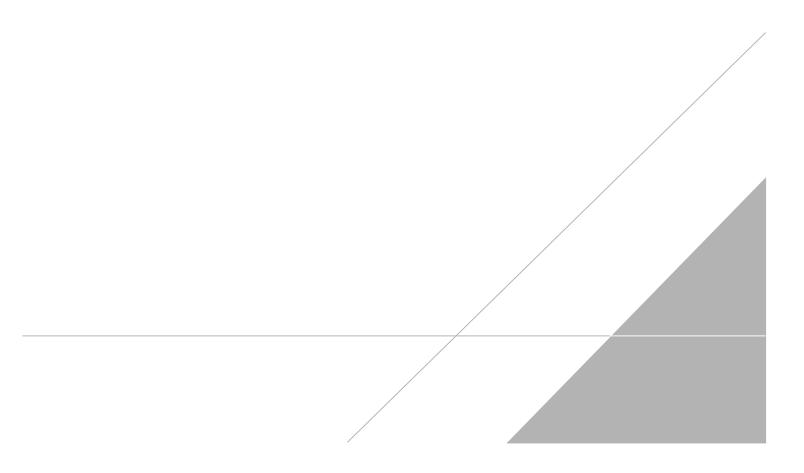
RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY:	Febin J S
SIGNATURE:	Pallz
DATE:	March 28, 2025
PEER REVIEW:	Andrew Korycinski

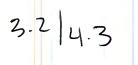
DATE: March 31, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record





TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

Client Contact	Regulat	ory program:		ſ	DW		⊂ NP	DES	1	RC	RA	1	Other											
Company Name: Arcadis	Client Project 7	Manager: Meg	n Mer	kley			Site Co	ntact: S	Samar	tha Sz	naichle	r		, L	b Con	lact: N	viike D	elMa	nico		-	_	tAme <mark>rica Labo</mark> C No:	oratories, I
ddress: 28550 Cabot Drive, Suite 500																				_				
ity/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240					Telepho	one: 24	8-994-	2240				Te	lephon	e: 330)-497-9	396				1 of 1 COCs		
ny/state/2.ip. (1001, 101, 48577	Email: kristoff	er.hinskey@ar	cadis.c	om			An	lysis T	wnar	ound]	ime			-				Ana	lyses			For	lab use only	-
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Special Instructions/QC Requirements & Comments: 344	1810 Caf	Ditol																						
Submit all results through Cadena at jtomalia@cadenaco.c .evel IV Reporting requested.	om. Cadena #	203728																						
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02006, TestAmerica Laboratories, Inc. A8 rights reserved, TestAmerica & Design "* are trademarks of TestAmerica Laboratories, Inc.

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		6
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
 Ø	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)	
MDL	Method Detection Limit	

Glossary

Example 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 CDI Colony Forming Unit DDFR Duplicate Error Ratio (normalized absolute difference) DDI Fac Diution Factor DL Detection Limit (Do/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) LOQ Limit of Detection (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDL Method Detection Limit MDA Minimum Detectable Activity (Radiochemistry) MDL Method Detection Limit ML Minimum Detectable Activity (Radiochemistry) MDL Method Quantitation Limit ML Minimum Detectable Activity (Radiochemistry) MDL Method Quantitation Limit NO <th>Abbreviation</th> <th>These commonly used abbreviations may or may not be present in this report.</th>	Abbreviation	These commonly used abbreviations may or may not be present in this report.
KR Percent Recovery CFL Contains Free Liquid CFL Colony Forming Unit Colony Forming Unit Colony Forming Unit CNFL Contains No Free Liquid DER Dilution Factor Dilution Factor Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Desion Level Concentration (Radiochemistry) DLC Estimated Delection Limit (Dol/DOE) MCL Minimum Detectable Activity (Radiochemistry) MDL	÷	
CFLContains Fire LiquidCFUConvorsing UnitCFUConvorsing UnitCFUContains Nere LiquidDFLContains Nere LiquidDFLDilloca Eror Ratio (cormalized absolute difference)DFLDilloca Eror Ratio (cormalized absolute difference)DFLDilloca Eror Ratio (cormalized absolute difference)DFLDilloca Eror Ratio (cormalized absolute difference)DFLDidloca Eror Ratio (Cormalized absolute difference)DFLDifferenceDFLCorecontration (Radiochemistry)DFLMinium Detectable Active (Radiochemistry)DFLMinium Detectab	%R	
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CNFContains No Free LiquidDERDulcate Error Ratio (normalized absolute difference)DERDiluton FactrDil FaceDiluton FactrDotDetection Init (DoDDC)DL, RA, RE, INIndicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sampleDLCDetection Limit (DoDDC)DLCEstimated Detection (DoDDDC)LDQLimit of Detection (DoDDDC)LDQLimit of Detection (DoDDDC)LDQLimit of Detection (DoDDDC)LDQMinum Detectable Activity (Radiochemistry)MDAMinum Detectable Activity (Radiochemistry)MDAMinum Detectable Activity (Radiochemistry)MDAMinum Detectable Activity (Radiochemistry)MDAMinum Detectable Concentration (Radiochemistry)MDAMinum Detectable Concentration (Radiochemistry)MDAMinum Detectable Concentration (Radiochemistry)MDAMinum Detectable Concentration (Radiochemistry)MDAMotor Detection LimitMDAMotor Detection LimitMDAMotor Detection LimitNDANo Strobable NumberNDANo Strobable Number <td>CFU</td> <td></td>	CFU	
DERbuilcate Error Ratio (normalized absolute difference)DIF FacDituro FactorDIF ActorDituto FactorDLA, RA, RIIndicates an Dituton, Res-analysis, Re-extraction, or additional Initial metals/anion analysis of the sampleDLA, RA, RIScinated Evacion (Radiochemistry)DLCDecision Level Concentration (Radiochemistry)DLCScinated Detection Limit (Dioxi)LDQLimit of Detection (DoD/DOE)LDQLimit of Quantitation (DoD/DOE)MCLFArecommender "Maximum Contaminant Level"MDAMinimum Detectable Concentration (Radiochemistry)MDAMinimum Detectable Concentration (Radiochemistry)MDAMinimum Detectable Concentration (Radiochemistry)MDAMinimum Level (Doloxi)MDAMinimum Level (Concentration (Radiochemistry)MDAMinimum Level (Doloxi)MDAMinimum Level (Doloxi)NDAMinimum Level (Doloxi)NDA <td>CNF</td> <td></td>	CNF	
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DLCDecision Level Concentration (Radiochemistry)EDLEstimated Detection Limit (Dioxin)LODLimit of Detection (DoD/DOE)LODLimit of Detection (DoD/DOE)LOQExpresonmended "Maximum Contaminant Level"MDAExpresonmended "Maximum Contaminant Level"MDAMinimum Detectable Activity (Radiochemistry)MDCMinimum Detectable Concentration (Radiochemistry)MDLMinimum Level (Dioxin)MDLMinimum Level (Dioxin)MDLMinimum Level (Dioxin)MDLMot Detectable Concentration (Radiochemistry)MDLMinimum Level (Dioxin)MDLMinimum Level (Dioxin)MDLMinimum Level (Dioxin)MDLMot Detectable Limit (Com DL or EDL if shown)NDLNot Detected at the reporting limit (or MDL or EDL if shown)NDLNot PresentPROMPasture / PresentPROLPasture / PresentPROLPasture / PresentPROLQuity ControlRERRelative Error Ration (Radiochemistry)RERRelative Error Ration (Radiochemistry)RERRelative Error Ration (Radiochemistry)RERRelative Error Ration Relative difference between two pointsREFRelative Error (Dioxin)TEQToxity Equivalent Louotient (Dioxin)	DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
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MDCMinimum Detectable Concentration (Radiochemistry)MDLMethod Detection LimitMLMinimum Level (Dioxin)MPNMost Probable NumberMQLMethod Quantitation LimitNCNot CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNegative / AbsentPOSPositive / PresentPQLPractical Quantitation LimitQQQuality ControlRERRelative Error Ratio (Radiochemistry)RLRelative Error Ratio (Radiochemistry)RLRelative Procent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)	MCL	EPA recommended "Maximum Contaminant Level"
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 Present Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin)	MDA	Minimum Detectable Activity (Radiochemistry)
MLMinimu Level (Dioxin)MPNMost Probable NumberMQLMethod Quantitation LimitNQLNot CalculatedNCNot CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNegative / AbsentPOSPositive / PresentPQLPresungtive and autiation LimitPRESPresungtiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLRelative Procent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	MDC	Minimum Detectable Concentration (Radiochemistry)
MPNMost Probable NumberMQLMethod Quantitation LimitNCNot CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNegative / AbsentPOSPositive / PresentPQLPractical Quantitation LimitPRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RLPRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)	MDL	Method Detection Limit
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NCNd CalculatedNDNot Detected at the reporting limit (or MDL or EDL if shown)NEGNegative / AbsentPOSPositive / PresentPQLPractical Quantitation LimitPRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Present Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)	MPN	Most Probable Number
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POSPositive / PresentPQLPractical Quantitation LimitPRESPresumptiveQCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	ND	Not Detected at the reporting limit (or MDL or EDL if shown)
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QCQuality ControlRERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	PQL	Practical Quantitation Limit
RERRelative Error Ratio (Radiochemistry)RLReporting Limit or Requested Limit (Radiochemistry)RPDRelative Percent Difference, a measure of the relative difference between two pointsTEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)	PRES	Presumptive
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)	QC	Quality Control
RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	RER	Relative Error Ratio (Radiochemistry)
TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	RL	Reporting Limit or Requested Limit (Radiochemistry)
TEQ Toxicity Equivalent Quotient (Dioxin)	RPD	Relative Percent Difference, a measure of the relative difference between two points
	TEF	Toxicity Equivalent Factor (Dioxin)
TNTC Too Numerous To Count	TEQ	Toxicity Equivalent Quotient (Dioxin)
	TNTC	Too Numerous To Count

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_72

Date Collected: 03/05/25 00:00 Date Received: 03/08/25 08:00

Method: SW846 8260D - Volati	le Organic Comp	ounds 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			03/15/25 17:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/15/25 17:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 17:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/15/25 17:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 17:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/15/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			-		03/15/25 17:01	1
4-Bromofluorobenzene (Surr)	90		56 - 136					03/15/25 17:01	1
Toluene-d8 (Surr)	97		78 - 122					03/15/25 17:01	1
Dibromofluoromethane (Surr)	95		73 - 120					03/15/25 17:01	1

Job ID: 240-220141-1

Eurofins Cleveland

Client Sample ID: MW-168S_030525

Date Collected: 03/05/25 09:29 Date Received: 03/08/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/12/25 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		68 - 127			-		03/12/25 22:55	1
Method: SW846 8260D - Volati	le Organic Comp	ounds 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			03/18/25 18:57	1
cis-1,2-Dichloroethene	0.93	J	1.0	0.46	ug/L			03/18/25 18:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/18/25 18:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/18/25 18:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/18/25 18:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/18/25 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			-		03/18/25 18:57	1
4-Bromofluorobenzene (Surr)	96		56 - 136					03/18/25 18:57	1
Toluene-d8 (Surr)	100		78 - 122					03/18/25 18:57	1
Dibromofluoromethane (Surr)	94		73 - 120					03/18/25 18:57	1

3/20/2025

Lab Sample ID: 240-220141-2 Matrix: Water

9 10 11