

ANALYTICAL REPORT

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

Laboratory Job ID: 240-162622-1
Client Project/Site: Ford LTP - Off-Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
2/24/2022 2:00:07 PM

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



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Definitions/Glossary

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

Job ID: 240-162622-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

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

Job ID: 240-162622-1

Job ID: 240-162622-1

Laboratory: Eurofins Canton

Narrative

**Job Narrative
240-162622-1**

Comments

No additional comments.

Receipt

The samples were received on 2/11/2022 12:00 PM. 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 3.2° C.

GC/MS VOA

Method 8260B SIM: The matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-518020 were not spiked during prep due to analyst error.

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

VOA Prep

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

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- 11
- 12
- 13
- 14

Method Summary

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

Job ID: 240-162622-1

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

Protocol References:

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

Laboratory References:

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

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- 12
- 13
- 14

Sample Summary

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

Job ID: 240-162622-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-162622-1	TRIP BLANK_61	Water	02/09/22 00:00	02/11/22 12:00
240-162622-2	MW-77_020922	Water	02/09/22 10:27	02/11/22 12:00
240-162622-3	MW-77S_020922	Water	02/09/22 11:47	02/11/22 12:00
240-162622-4	MW-96S_020922	Water	02/09/22 13:12	02/11/22 12:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-162622-1

Client Sample ID: TRIP BLANK_61

Lab Sample ID: 240-162622-1

No Detections.

Client Sample ID: MW-77_020922

Lab Sample ID: 240-162622-2

No Detections.

Client Sample ID: MW-77S_020922

Lab Sample ID: 240-162622-3

No Detections.

Client Sample ID: MW-96S_020922

Lab Sample ID: 240-162622-4

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 240-162622-1

Client Sample ID: TRIP BLANK_61

Lab Sample ID: 240-162622-1

Date Collected: 02/09/22 00:00

Matrix: Water

Date Received: 02/11/22 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 13:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 13:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 13:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 13:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 13:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137		02/14/22 13:09	1
4-Bromofluorobenzene (Surr)	99		56 - 136		02/14/22 13:09	1
Toluene-d8 (Surr)	101		78 - 122		02/14/22 13:09	1
Dibromofluoromethane (Surr)	104		73 - 120		02/14/22 13:09	1

Client Sample Results

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

Job ID: 240-162622-1

Client Sample ID: MW-77_020922

Lab Sample ID: 240-162622-2

Date Collected: 02/09/22 10:27

Matrix: Water

Date Received: 02/11/22 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/14/22 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		66 - 120					02/14/22 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 13:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 13:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 13:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 13:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 13:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					02/14/22 13:57	1
4-Bromofluorobenzene (Surr)	99		56 - 136					02/14/22 13:57	1
Toluene-d8 (Surr)	103		78 - 122					02/14/22 13:57	1
Dibromofluoromethane (Surr)	106		73 - 120					02/14/22 13:57	1

Client Sample Results

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

Job ID: 240-162622-1

Client Sample ID: MW-77S_020922

Lab Sample ID: 240-162622-3

Date Collected: 02/09/22 11:47

Matrix: Water

Date Received: 02/11/22 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/14/22 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 120					02/14/22 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 14:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 14:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 14:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 14:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 14:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					02/14/22 14:20	1
4-Bromofluorobenzene (Surr)	98		56 - 136					02/14/22 14:20	1
Toluene-d8 (Surr)	100		78 - 122					02/14/22 14:20	1
Dibromofluoromethane (Surr)	106		73 - 120					02/14/22 14:20	1

Client Sample Results

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

Job ID: 240-162622-1

Client Sample ID: MW-96S_020922

Lab Sample ID: 240-162622-4

Date Collected: 02/09/22 13:12

Matrix: Water

Date Received: 02/11/22 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/14/22 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120		02/14/22 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 14:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 14:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 14:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 14:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 14:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137		02/14/22 14:44	1
4-Bromofluorobenzene (Surr)	97		56 - 136		02/14/22 14:44	1
Toluene-d8 (Surr)	102		78 - 122		02/14/22 14:44	1
Dibromofluoromethane (Surr)	102		73 - 120		02/14/22 14:44	1

Surrogate Summary

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

Job ID: 240-162622-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-162622-1	TRIP BLANK_61	93	99	101	104
240-162622-2	MW-77_020922	96	99	103	106
240-162622-3	MW-77S_020922	91	98	100	106
240-162622-4	MW-96S_020922	92	97	102	102
240-162632-B-4 MS	Matrix Spike	85	99	101	99
240-162632-B-4 MSD	Matrix Spike Duplicate	91	99	105	101
LCS 240-517994/5	Lab Control Sample	88	101	104	101
MB 240-517994/7	Method Blank	92	96	99	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 TOL = Toluene-d8 (Surr)
 DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (66-120)
240-162622-2	MW-77_020922	85
240-162622-3	MW-77S_020922	83
240-162622-4	MW-96S_020922	84
LCS 240-518020/4	Lab Control Sample	84
MB 240-518020/5	Method Blank	84

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-162622-1

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

Lab Sample ID: MB 240-517994/7
Matrix: Water
Analysis Batch: 517994

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/14/22 12:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 12:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 12:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 12:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 12:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 12:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137		02/14/22 12:45	1
4-Bromofluorobenzene (Surr)	96		56 - 136		02/14/22 12:45	1
Toluene-d8 (Surr)	99		78 - 122		02/14/22 12:45	1
Dibromofluoromethane (Surr)	104		73 - 120		02/14/22 12:45	1

Lab Sample ID: LCS 240-517994/5
Matrix: Water
Analysis Batch: 517994

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	27.1		ug/L		109	63 - 134
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	77 - 123
Tetrachloroethene	25.0	26.7		ug/L		107	76 - 123
trans-1,2-Dichloroethene	25.0	25.4		ug/L		101	75 - 124
Trichloroethene	25.0	25.4		ug/L		102	70 - 122
Vinyl chloride	25.0	22.5		ug/L		90	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-162632-B-4 MS
Matrix: Water
Analysis Batch: 517994

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20	U	500	484		ug/L		97	56 - 135
cis-1,2-Dichloroethene	20	U	500	441		ug/L		88	66 - 128
Tetrachloroethene	20	U	500	452		ug/L		90	62 - 131
trans-1,2-Dichloroethene	20	U	500	460		ug/L		92	56 - 136
Trichloroethene	20	U	500	442		ug/L		88	61 - 124
Vinyl chloride	20	U	500	417		ug/L		83	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	101		78 - 122

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QC Sample Results

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

Job ID: 240-162622-1

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

Lab Sample ID: 240-162632-B-4 MS
Matrix: Water
Analysis Batch: 517994

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-162632-B-4 MSD
Matrix: Water
Analysis Batch: 517994

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,1-Dichloroethene	20	U	500	474		ug/L		95	56 - 135	2	26
cis-1,2-Dichloroethene	20	U	500	466		ug/L		93	66 - 128	6	14
Tetrachloroethene	20	U	500	451		ug/L		90	62 - 131	0	20
trans-1,2-Dichloroethene	20	U	500	460		ug/L		92	56 - 136	0	15
Trichloroethene	20	U	500	448		ug/L		90	61 - 124	1	15
Vinyl chloride	20	U	500	422		ug/L		84	43 - 157	1	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

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

Lab Sample ID: MB 240-518020/5
Matrix: Water
Analysis Batch: 518020

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/14/22 17:23	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	84		66 - 120		02/14/22 17:23	1

Lab Sample ID: LCS 240-518020/4
Matrix: Water
Analysis Batch: 518020

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
1,4-Dioxane	10.0	9.61		ug/L		96	80 - 122

	LCS	LCS	Limits
Surrogate	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	84		66 - 120

QC Association Summary

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

Job ID: 240-162622-1

GC/MS VOA

Analysis Batch: 517994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162622-1	TRIP BLANK_61	Total/NA	Water	8260B	
240-162622-2	MW-77_020922	Total/NA	Water	8260B	
240-162622-3	MW-77S_020922	Total/NA	Water	8260B	
240-162622-4	MW-96S_020922	Total/NA	Water	8260B	
MB 240-517994/7	Method Blank	Total/NA	Water	8260B	
LCS 240-517994/5	Lab Control Sample	Total/NA	Water	8260B	
240-162632-B-4 MS	Matrix Spike	Total/NA	Water	8260B	
240-162632-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 518020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162622-2	MW-77_020922	Total/NA	Water	8260B SIM	
240-162622-3	MW-77S_020922	Total/NA	Water	8260B SIM	
240-162622-4	MW-96S_020922	Total/NA	Water	8260B SIM	
MB 240-518020/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-518020/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Lab Chronicle

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

Job ID: 240-162622-1

Client Sample ID: TRIP BLANK_61

Lab Sample ID: 240-162622-1

Date Collected: 02/09/22 00:00

Matrix: Water

Date Received: 02/11/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517994	02/14/22 13:09	SAM	TAL CAN

Client Sample ID: MW-77_020922

Lab Sample ID: 240-162622-2

Date Collected: 02/09/22 10:27

Matrix: Water

Date Received: 02/11/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517994	02/14/22 13:57	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	518020	02/14/22 18:13	CS	TAL CAN

Client Sample ID: MW-77S_020922

Lab Sample ID: 240-162622-3

Date Collected: 02/09/22 11:47

Matrix: Water

Date Received: 02/11/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517994	02/14/22 14:20	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	518020	02/14/22 18:38	CS	TAL CAN

Client Sample ID: MW-96S_020922

Lab Sample ID: 240-162622-4

Date Collected: 02/09/22 13:12

Matrix: Water

Date Received: 02/11/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517994	02/14/22 14:44	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	518020	02/14/22 19:03	CS	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-162622-1

Laboratory: Eurofins Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21 *
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	11-06-22
New York	NELAP	10975	03-31-22
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-21-14	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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

Eurofins Canton

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

Regulatory program: DW NPDES RCRA Other

Client Contact: Arcadis
Address: 28550 Cabot Drive, Suite 500
City/State/Zip: Novi, MI, 48377
Phone: 248-994-2240

Client Project Manager: Kris Hinskey
Telephone: 248-994-2240
Email: krisstoff.hinskey@arcadis.com

Lab Contact: Mike DelMonico
Telephone: 330-497-9396

Company Name: Arcadis
Address: 28550 Cabot Drive, Suite 500
City/State/Zip: Novi, MI, 48377
Phone: 248-994-2240

Project Name: Ford LTP Off-Site
Project Number: 30080642.402.04
PO # 30080642.402.04

Sampler Name: Dominic Harmon
Method of Shipment/Carrier:
Shipping/Tracking No:

Analysis Turnaround Time
TAT if different from below
10 day 3 weeks
2 weeks 1 week
2 days 1 day

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives						Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses						Sample Specific Notes / Special Instructions:				
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc			NaOH	Topres	Other:	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B		PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM
TRIP BLANK_61			1																						1 Trip Blank
MW-77-020922	02/09/22	1027	6																						3 VOAs for 8260B 3 VOAs for 8260B SIM
MW-77s-020922	02/09/22	1147	6																						L
MW-96s-020922	02/09/22	1312	6																						



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
 Submit all results through Cadena at jromilla@cadenaco.com, Cadena #E203631
 Level IV Reporting requested.

Relinquished by:	Relinquished by:	Relinquished by:	Company:	Date/Time:	Received by:	Received by:	Received by:	Company:	Date/Time:
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	Arcadis	02/09/22/1500	Nov. Cold Storage	<i>[Signature]</i>	<i>[Signature]</i>	Arcadis	02/09/22/1500
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	ARCADIS	02/10/22/1000	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	Eurofins	2-9-22 10UC
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	Eurofins	2-10-22 1330	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	Eurofins	2-11-22 1130

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login # : 162622
Canton Facility

Client Alredis Site Name _____ Cooler unpacked by: Matt
 Cooler Received on 2-11-22 Opened on 2-11-22

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # 7D Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Water Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. 3.1 °C Corrected Cooler Temp. 3.2 °C
 IR GUN #IR-15 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA

Tests that are not checked for pH by Receiving:

 VOAs
 Oil and Grease
 TOC

3. Shippers' packing slip attached to the cooler(s)? Yes No
 4. Did custody papers accompany the sample(s)? Yes No
 5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No

10. Were correct bottle(s) used for the test(s) indicated? Yes No
 11. Sufficient quantity received to perform indicated analyses? Yes No
 12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.
 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842

14. Were VOAs on the COC? Yes No
 15. Were air bubbles >6 mm in any VOA vials? Yes Larger than this. No NA

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 21042016 Yes No
 17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____
 VOA Sample Preservation - Date/Time VOAs Frozen: _____