

ANALYTICAL REPORT

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

Laboratory Job ID: 240-163074-1
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:
3/11/2022 3:11:47 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: 240-163074-1

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: 240-163074-1

Job ID: 240-163074-1

Laboratory: Eurofins Canton

Narrative

**Job Narrative
240-163074-1**

Comments

No additional comments.

Receipt

The samples were received on 2/25/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

GC/MS VOA

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

VOA Prep

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

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Method Summary

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

Job ID: 240-163074-1

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



Sample Summary

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

Job ID: 240-163074-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-163074-1	TRIP BLANK_60	Water	02/22/22 00:00	02/25/22 08:00
240-163074-2	MW-133S_022222	Water	02/22/22 15:11	02/25/22 08:00
240-163074-3	MW-97S_022222	Water	02/22/22 17:01	02/25/22 08:00

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Detection Summary

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

Job ID: 240-163074-1

Client Sample ID: TRIP BLANK_60

Lab Sample ID: 240-163074-1

No Detections.

Client Sample ID: MW-133S_022222

Lab Sample ID: 240-163074-2

No Detections.

Client Sample ID: MW-97S_022222

Lab Sample ID: 240-163074-3

No Detections.

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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: 240-163074-1

Client Sample ID: TRIP BLANK_60

Lab Sample ID: 240-163074-1

Date Collected: 02/22/22 00:00

Matrix: Water

Date Received: 02/25/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/22 14:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/22 14:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 14:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/22 14:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 14:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/22 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 137		03/01/22 14:54	1
4-Bromofluorobenzene (Surr)	112		56 - 136		03/01/22 14:54	1
Toluene-d8 (Surr)	84		78 - 122		03/01/22 14:54	1
Dibromofluoromethane (Surr)	94		73 - 120		03/01/22 14:54	1

Client Sample Results

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

Job ID: 240-163074-1

Client Sample ID: MW-133S_022222

Lab Sample ID: 240-163074-2

Date Collected: 02/22/22 15:11

Matrix: Water

Date Received: 02/25/22 08:00

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			03/02/22 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		66 - 120		03/02/22 03:55	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			03/01/22 15:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/22 15:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 15:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/22 15:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 15:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/22 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		62 - 137		03/01/22 15:18	1
4-Bromofluorobenzene (Surr)	109		56 - 136		03/01/22 15:18	1
Toluene-d8 (Surr)	85		78 - 122		03/01/22 15:18	1
Dibromofluoromethane (Surr)	90		73 - 120		03/01/22 15:18	1

Client Sample Results

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

Job ID: 240-163074-1

Client Sample ID: MW-97S_022222

Lab Sample ID: 240-163074-3

Date Collected: 02/22/22 17:01

Matrix: Water

Date Received: 02/25/22 08:00

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			03/02/22 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		66 - 120					03/02/22 01:01	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			03/01/22 15:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/22 15:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 15:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/22 15:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 15:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/22 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		62 - 137					03/01/22 15:43	1
4-Bromofluorobenzene (Surr)	110		56 - 136					03/01/22 15:43	1
Toluene-d8 (Surr)	84		78 - 122					03/01/22 15:43	1
Dibromofluoromethane (Surr)	94		73 - 120					03/01/22 15:43	1

Surrogate Summary

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

Job ID: 240-163074-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(62-137)	(56-136)	(78-122)	(73-120)
240-163074-1	TRIP BLANK_60	74	112	84	94
240-163074-2	MW-133S_022222	75	109	85	90
240-163074-3	MW-97S_022222	76	110	84	94
240-163074-3 MS	MW-97S-MS_022222	71	116	86	92
240-163074-3 MSD	MW-97S-MSD_022222	75	120	88	95
LCS 240-518931/5	Lab Control Sample	76	116	84	90
MB 240-518931/8	Method Blank	77	111	84	93

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

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA
		(66-120)
240-163074-2	MW-133S_022222	82
240-163074-3	MW-97S_022222	78
240-163074-3 MS	MW-97S-MS_022222	76
240-163074-3 MSD	MW-97S-MSD_022222	81
LCS 240-518984/4	Lab Control Sample	83
MB 240-518984/5	Method Blank	82

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-163074-1

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

Lab Sample ID: MB 240-518931/8
Matrix: Water
Analysis Batch: 518931

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			03/01/22 13:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/22 13:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 13:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/22 13:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/22 13:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/22 13:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		62 - 137		03/01/22 13:17	1
4-Bromofluorobenzene (Surr)	111		56 - 136		03/01/22 13:17	1
Toluene-d8 (Surr)	84		78 - 122		03/01/22 13:17	1
Dibromofluoromethane (Surr)	93		73 - 120		03/01/22 13:17	1

Lab Sample ID: LCS 240-518931/5
Matrix: Water
Analysis Batch: 518931

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	20.0	21.6		ug/L		108	63 - 134
cis-1,2-Dichloroethene	20.0	21.3		ug/L		107	77 - 123
Tetrachloroethene	20.0	19.0		ug/L		95	76 - 123
trans-1,2-Dichloroethene	20.0	22.2		ug/L		111	75 - 124
Trichloroethene	20.0	21.7		ug/L		109	70 - 122
Vinyl chloride	20.0	23.9		ug/L		119	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	76		62 - 137
4-Bromofluorobenzene (Surr)	116		56 - 136
Toluene-d8 (Surr)	84		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

Lab Sample ID: 240-163074-3 MS
Matrix: Water
Analysis Batch: 518931

Client Sample ID: MW-97S-MS_022222
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.0	U	20.0	20.9		ug/L		104	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	20.7		ug/L		104	66 - 128
Tetrachloroethene	1.0	U	20.0	17.4		ug/L		87	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	21.0		ug/L		105	56 - 136
Trichloroethene	1.0	U	20.0	20.5		ug/L		103	61 - 124
Vinyl chloride	1.0	U	20.0	23.6		ug/L		118	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	71		62 - 137
4-Bromofluorobenzene (Surr)	116		56 - 136
Toluene-d8 (Surr)	86		78 - 122

QC Sample Results

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

Job ID: 240-163074-1

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

Lab Sample ID: 240-163074-3 MS
Matrix: Water
Analysis Batch: 518931

Client Sample ID: MW-97S-MS_022222
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	92		73 - 120

Lab Sample ID: 240-163074-3 MSD
Matrix: Water
Analysis Batch: 518931

Client Sample ID: MW-97S-MSD_022222
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	20.0	20.7		ug/L		103	56 - 135	1	26
cis-1,2-Dichloroethene	1.0	U	20.0	20.0		ug/L		100	66 - 128	3	14
Tetrachloroethene	1.0	U	20.0	17.1		ug/L		86	62 - 131	2	20
trans-1,2-Dichloroethene	1.0	U	20.0	20.8		ug/L		104	56 - 136	1	15
Trichloroethene	1.0	U	20.0	20.8		ug/L		104	61 - 124	1	15
Vinyl chloride	1.0	U	20.0	24.1		ug/L		120	43 - 157	2	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	75		62 - 137
4-Bromofluorobenzene (Surr)	120		56 - 136
Toluene-d8 (Surr)	88		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

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

Lab Sample ID: MB 240-518984/5
Matrix: Water
Analysis Batch: 518984

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/01/22 19:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		66 - 120		03/01/22 19:35	1

Lab Sample ID: LCS 240-518984/4
Matrix: Water
Analysis Batch: 518984

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	9.68		ug/L		97	80 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		66 - 120

Lab Sample ID: 240-163074-3 MS
Matrix: Water
Analysis Batch: 518984

Client Sample ID: MW-97S-MS_022222
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	51 - 153

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QC Sample Results

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

Job ID: 240-163074-1

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

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	76		66 - 120

Lab Sample ID: 240-163074-3 MSD
Matrix: Water
Analysis Batch: 518984

Client Sample ID: MW-97S-MSD_022222
Prep Type: Total/NA

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
1,4-Dioxane	2.0	U	10.0	10.4		ug/L		104	51 - 153	1	16

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	81		66 - 120

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QC Association Summary

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

Job ID: 240-163074-1

GC/MS VOA

Analysis Batch: 518931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-163074-1	TRIP BLANK_60	Total/NA	Water	8260B	
240-163074-2	MW-133S_022222	Total/NA	Water	8260B	
240-163074-3	MW-97S_022222	Total/NA	Water	8260B	
MB 240-518931/8	Method Blank	Total/NA	Water	8260B	
LCS 240-518931/5	Lab Control Sample	Total/NA	Water	8260B	
240-163074-3 MS	MW-97S-MS_022222	Total/NA	Water	8260B	
240-163074-3 MSD	MW-97S-MSD_022222	Total/NA	Water	8260B	

Analysis Batch: 518984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-163074-2	MW-133S_022222	Total/NA	Water	8260B SIM	
240-163074-3	MW-97S_022222	Total/NA	Water	8260B SIM	
MB 240-518984/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-518984/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-163074-3 MS	MW-97S-MS_022222	Total/NA	Water	8260B SIM	
240-163074-3 MSD	MW-97S-MSD_022222	Total/NA	Water	8260B SIM	

Lab Chronicle

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

Job ID: 240-163074-1

Client Sample ID: TRIP BLANK_60

Lab Sample ID: 240-163074-1

Date Collected: 02/22/22 00:00

Matrix: Water

Date Received: 02/25/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518931	03/01/22 14:54	LEE	TAL CAN

Client Sample ID: MW-133S_022222

Lab Sample ID: 240-163074-2

Date Collected: 02/22/22 15:11

Matrix: Water

Date Received: 02/25/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518931	03/01/22 15:18	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	518984	03/02/22 03:55	CS	TAL CAN

Client Sample ID: MW-97S_022222

Lab Sample ID: 240-163074-3

Date Collected: 02/22/22 17:01

Matrix: Water

Date Received: 02/25/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518931	03/01/22 15:43	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	518984	03/02/22 01:01	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: 240-163074-1

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
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

Chain of Custody Record

1.2/1.0

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

Client Contact Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.com		Lab Contact: Mike DeMonico Telephone: 330-497-9396	
Project Name: Ford LTP Off-Site Project Number: 30080642.402.04 PO # 30080642.402.04		Analysis Turnaround Time TAT if different from below: <input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day 10 day	
Sampler Name: Gary Schaefer Method of Shipment/Carrier: Shipping/Tracking No:		Containers & Preservatives H2SO4 _____ HNO3 _____ HCl _____ NaOH _____ ZnAc _____ NaOH _____ Other: _____	
Sample Identification TRIP BLANK_ 60 MW-1335-02222 MW-975-02222 MW-975-MS-02222 MW-975-MSD-02222		Matrix Air _____ Aqueous _____ Sediment _____ Solid _____ Other: _____	
Sample Date 02/22/22 02/22/22 02/22/22 02/22/22		Sample Time 15:11 17:01 17:01 17:01	
Filtered Sample (Y/N) N N N N		Composite C/Grab G G G G G	
1,1-DCE 8260B X X X X		1,4-Dioxane 8260B SIM X X X X	
Trans-1,2-DCE 8260B X X X X		PCE 8260B X X X X	
TCE 8260B X X X X		Vinyl Chloride 8260B X X X X	
1-Trip Blank 3 VOAs for 8260B 3 VOAs for 8260B SIM		Sample Specific Notes / Special Instructions: Run MS/MS Run MS/MS	



Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skim Irritant		Sample Disposal (A rec may in excess of 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Special Instructions/OC Requirements & Comments: Submit all results through Cadena at jtomalle@cadenaco.com. Cadena #E203631 Level IV Reporting requested.		Relinquished by: Gary Schaefer Date/Time: 02/23/22 09:35 Company: Arcadis	
Relinquished by: Gary Schaefer Date/Time: 2/24/22 10:30 Company: Arcadis		Received by: Novi Cold Storage Date/Time: 2/24/22 14:07 Company: Arcadis	
Relinquished by: Gary Schaefer Date/Time: 2/24/22 14:07 Company: Arcadis		Received by: M. J. J. Date/Time: 2/25/22 8:00 Company: Arcadis	

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login # : 1163074
Canton Facility

Client ARCADIS Site Name _____ Cooler unpacked by: Matthew Surma
Cooler Received on 2/25/22 Opened on 2/25/22
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

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

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

- Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-14 (CF -0.2 °C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 1.0 °C
IR GUN #IR-15 (CF -0.7°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
- 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
- Shippers' packing slip attached to the cooler(s)? Yes No
- Did custody papers accompany the sample(s)? Yes No
- Were the custody papers relinquished & signed in the appropriate place? Yes No
- Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- Did all bottles arrive in good condition (Unbroken)? Yes No
- Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- Were correct bottle(s) used for the test(s) indicated? Yes No
- Sufficient quantity received to perform indicated analyses? Yes No
- 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.
- Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
- Were VOAs on the COC? Yes No
- Were air bubbles >6 mm in any VOA vials? Yes  ← Larger than this. Yes No NA
- Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 01042016 Yes No
- Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

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: _____