

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
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North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-149041-1
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:
5/24/2021 1:43:40 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: 240-149041-1

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: 240-149041-1

Job ID: 240-149041-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-149041-1

Comments

No additional comments.

Receipt

The samples were received on 5/8/2021 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 1.5° C.

GC/MS VOA

Method 8260B: The original analysis of this sample failed for the Internal Standard area criteria so this is to prove that there is not a matrix issue. This is reported as a secondary analysis: MW-107S_050621 (240-149041-2).

Method 8260B: Internal standard (ISTD) response for the following sample was outside control limits: MW-107S_050621 (240-149041-2). The MS/MSD will be reported.

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.

Method Summary

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

Job ID: 240-149041-1

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 TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

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

Job ID: 240-149041-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149041-1	TRIP BLANK_32	Water	05/06/21 00:00	05/08/21 08:00	
240-149041-2	MW-107S_050621	Water	05/06/21 09:57	05/08/21 08:00	

- 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: 240-149041-1

Client Sample ID: TRIP BLANK_32

Lab Sample ID: 240-149041-1

No Detections.

Client Sample ID: MW-107S_050621

Lab Sample ID: 240-149041-2

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: 240-149041-1

Client Sample ID: TRIP BLANK_32

Lab Sample ID: 240-149041-1

Date Collected: 05/06/21 00:00

Matrix: Water

Date Received: 05/08/21 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	0.19	ug/L			05/18/21 14:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/18/21 14:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/18/21 14:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/18/21 14:30	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/18/21 14:30	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/18/21 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		75 - 130		05/18/21 14:30	1
4-Bromofluorobenzene (Surr)	83		47 - 134		05/18/21 14:30	1
Toluene-d8 (Surr)	92		69 - 122		05/18/21 14:30	1
Dibromofluoromethane (Surr)	99		78 - 129		05/18/21 14:30	1

Client Sample Results

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

Job ID: 240-149041-1

Client Sample ID: MW-107S_050621

Lab Sample ID: 240-149041-2

Date Collected: 05/06/21 09:57

Matrix: Water

Date Received: 05/08/21 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			05/11/21 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 133					05/11/21 20:02	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	0.19	ug/L			05/17/21 17:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/17/21 17:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/17/21 17:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 17:02	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/17/21 17:02	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/17/21 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		75 - 130					05/17/21 17:02	1
4-Bromofluorobenzene (Surr)	63		47 - 134					05/17/21 17:02	1
Toluene-d8 (Surr)	81		69 - 122					05/17/21 17:02	1
Dibromofluoromethane (Surr)	111		78 - 129					05/17/21 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/18/21 14:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/18/21 14:52	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/18/21 14:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/18/21 14:52	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/18/21 14:52	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/18/21 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		75 - 130					05/18/21 14:52	1
4-Bromofluorobenzene (Surr)	89		47 - 134					05/18/21 14:52	1
Toluene-d8 (Surr)	100		69 - 122					05/18/21 14:52	1
Dibromofluoromethane (Surr)	106		78 - 129					05/18/21 14:52	1

Surrogate Summary

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

Job ID: 240-149041-1

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
		(75-130)	(47-134)	(69-122)	(78-129)
240-149041-1	TRIP BLANK_32	84	83	92	99
240-149041-2	MW-107S_050621	116	63	81	111
240-149041-2 - RA	MW-107S_050621	93	89	100	106
240-149041-2 MS	MW-107S-MS_050621	92	96	94	98
240-149041-2 MSD	MW-107S-MSD_050621	88	97	94	93
240-149061-F-5 MS	Matrix Spike	82	86	91	97
240-149061-I-5 MSD	Matrix Spike Duplicate	81	87	92	97
LCS 240-486296/4	Lab Control Sample	84	86	94	100
MB 240-486296/6	Method Blank	85	85	95	97

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
		(70-133)
240-149041-2	MW-107S_050621	86
240-149041-2 MS	MW-107S-MS_050621	83
240-149041-2 MSD	MW-107S-MSD_050621	82
LCS 240-485164/4	Lab Control Sample	81
MB 240-485164/5	Method Blank	81

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-149041-1

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

Lab Sample ID: 240-149041-2 MS

Matrix: Water

Analysis Batch: 486030

Client Sample ID: MW-107S-MS_050621

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	10.0	9.09		ug/L		91	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	9.56		ug/L		96	68 - 121
Tetrachloroethene	1.0	U	10.0	8.77		ug/L		88	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	10.7		ug/L		107	69 - 126
Trichloroethene	1.0	U	10.0	8.58		ug/L		86	56 - 124
Vinyl chloride	1.0	U	10.0	13.0		ug/L		130	49 - 136

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	92		75 - 130
4-Bromofluorobenzene (Surr)	96		47 - 134
Toluene-d8 (Surr)	94		69 - 122
Dibromofluoromethane (Surr)	98		78 - 129

Lab Sample ID: 240-149041-2 MSD

Matrix: Water

Analysis Batch: 486030

Client Sample ID: MW-107S-MSD_050621

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	10.0	9.68		ug/L		97	64 - 132	6	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.95		ug/L		99	68 - 121	4	35
Tetrachloroethene	1.0	U	10.0	9.29		ug/L		93	52 - 129	6	35
trans-1,2-Dichloroethene	1.0	U	10.0	10.8		ug/L		108	69 - 126	1	35
Trichloroethene	1.0	U	10.0	8.73		ug/L		87	56 - 124	2	35
Vinyl chloride	1.0	U	10.0	13.2		ug/L		132	49 - 136	2	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	88		75 - 130
4-Bromofluorobenzene (Surr)	97		47 - 134
Toluene-d8 (Surr)	94		69 - 122
Dibromofluoromethane (Surr)	93		78 - 129

Lab Sample ID: MB 240-486296/6

Matrix: Water

Analysis Batch: 486296

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	0.19	ug/L			05/18/21 11:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/18/21 11:32	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/18/21 11:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/18/21 11:32	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/18/21 11:32	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/18/21 11:32	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 130		05/18/21 11:32	1
4-Bromofluorobenzene (Surr)	85		47 - 134		05/18/21 11:32	1
Toluene-d8 (Surr)	95		69 - 122		05/18/21 11:32	1

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QC Sample Results

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

Job ID: 240-149041-1

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

Lab Sample ID: MB 240-486296/6
Matrix: Water
Analysis Batch: 486296

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	97		78 - 129		05/18/21 11:32	1

Lab Sample ID: LCS 240-486296/4
Matrix: Water
Analysis Batch: 486296

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	10.0	8.42		ug/L		84	73 - 129	
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	75 - 124	
Tetrachloroethene	10.0	8.09		ug/L		81	70 - 125	
trans-1,2-Dichloroethene	10.0	9.42		ug/L		94	74 - 130	
Trichloroethene	10.0	8.45		ug/L		85	71 - 121	
Vinyl chloride	10.0	8.27		ug/L		83	61 - 134	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	84		75 - 130
4-Bromofluorobenzene (Surr)	86		47 - 134
Toluene-d8 (Surr)	94		69 - 122
Dibromofluoromethane (Surr)	100		78 - 129

Lab Sample ID: 240-149061-F-5 MS
Matrix: Water
Analysis Batch: 486296

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	1.0	U	10.0	9.58		ug/L		96	64 - 132	
cis-1,2-Dichloroethene	4.6		10.0	14.6		ug/L		100	68 - 121	
Tetrachloroethene	1.0	U	10.0	8.74		ug/L		87	52 - 129	
Trichloroethene	1.0	U	10.0	8.34		ug/L		83	56 - 124	
Vinyl chloride	1.5		10.0	8.81		ug/L		73	49 - 136	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	82		75 - 130
4-Bromofluorobenzene (Surr)	86		47 - 134
Toluene-d8 (Surr)	91		69 - 122
Dibromofluoromethane (Surr)	97		78 - 129

Lab Sample ID: 240-149061-I-5 MSD
Matrix: Water
Analysis Batch: 486296

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
											RPD	Limit
1,1-Dichloroethene	1.0	U	10.0	9.80		ug/L		98	64 - 132	2	35	
cis-1,2-Dichloroethene	4.6		10.0	14.2		ug/L		96	68 - 121	3	35	
Tetrachloroethene	1.0	U	10.0	8.34		ug/L		83	52 - 129	5	35	
Trichloroethene	1.0	U	10.0	8.45		ug/L		85	56 - 124	1	35	
Vinyl chloride	1.5		10.0	9.23		ug/L		77	49 - 136	5	35	

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QC Sample Results

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

Job ID: 240-149041-1

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

Lab Sample ID: 240-149061-I-5 MSD
Matrix: Water
Analysis Batch: 486296

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		75 - 130
4-Bromofluorobenzene (Surr)	87		47 - 134
Toluene-d8 (Surr)	92		69 - 122
Dibromofluoromethane (Surr)	97		78 - 129

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

Lab Sample ID: MB 240-485164/5
Matrix: Water
Analysis Batch: 485164

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			05/11/21 14:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 133		05/11/21 14:15	1

Lab Sample ID: LCS 240-485164/4
Matrix: Water
Analysis Batch: 485164

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	10.5		ug/L		105	80 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		70 - 133

Lab Sample ID: 240-149041-2 MS
Matrix: Water
Analysis Batch: 485164

Client Sample ID: MW-107S-MS_050621
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	10.1		ug/L		101	46 - 170

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 133

Lab Sample ID: 240-149041-2 MSD
Matrix: Water
Analysis Batch: 485164

Client Sample ID: MW-107S-MSD_050621
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	10.0		ug/L		100	46 - 170	1	26

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		70 - 133

Eurofins TestAmerica, Canton

QC Association Summary

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

Job ID: 240-149041-1

GC/MS VOA

Analysis Batch: 485164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149041-2	MW-107S_050621	Total/NA	Water	8260B SIM	
MB 240-485164/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-485164/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149041-2 MS	MW-107S-MS_050621	Total/NA	Water	8260B SIM	
240-149041-2 MSD	MW-107S-MSD_050621	Total/NA	Water	8260B SIM	

Analysis Batch: 486030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149041-2	MW-107S_050621	Total/NA	Water	8260B	
240-149041-2 MS	MW-107S-MS_050621	Total/NA	Water	8260B	
240-149041-2 MSD	MW-107S-MSD_050621	Total/NA	Water	8260B	

Analysis Batch: 486296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149041-1	TRIP BLANK_32	Total/NA	Water	8260B	
240-149041-2 - RA	MW-107S_050621	Total/NA	Water	8260B	
MB 240-486296/6	Method Blank	Total/NA	Water	8260B	
LCS 240-486296/4	Lab Control Sample	Total/NA	Water	8260B	
240-149061-F-5 MS	Matrix Spike	Total/NA	Water	8260B	
240-149061-I-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-149041-1

Client Sample ID: TRIP BLANK_32

Lab Sample ID: 240-149041-1

Date Collected: 05/06/21 00:00

Matrix: Water

Date Received: 05/08/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486296	05/18/21 14:30	LEE	TAL CAN

Client Sample ID: MW-107S_050621

Lab Sample ID: 240-149041-2

Date Collected: 05/06/21 09:57

Matrix: Water

Date Received: 05/08/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	486296	05/18/21 14:52	LEE	TAL CAN
Total/NA	Analysis	8260B		1	486030	05/17/21 17:02	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	485164	05/11/21 20:02	CS	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

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

Job ID: 240-149041-1

Laboratory: Eurofins TestAmerica, 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	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21 *
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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



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

Client Contact			Regulatory program:			Site Contact: Julie McClafferty Telephone: 734-644-5131			Lab Contact: Mike DelMonico Telephone: 330-497-9396			TestAmerica Laboratories, Inc. COC No:		
Company Name: Arcadis			<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			Walk-in client			1 of 1 COCs		
Address: 28550 Cabot Drive, Suite 500			City/State/Zip: Novi, MI, 48377			Email: kristoffer.hinskey@arcadis.com			TCE 8260B			For lab use only		
Phone: 248-994-2240			Project Name: Ford LTP Off-Site			Sampler Name: Andrew Bant			Trans-1,2-DCE 8260B			Lab sampling		
Project Number: 30080642.402.04			Method of Shipment/Carrier:			Shipping/Tracking No:			cis-1,2-DCE 8260B			Job/SDG No:		
PO # 30080642.402.04			Sample Date			Sample Time			1,1-DCE 8260B			Sample Specific Notes / Special Instructions:		
Sample Identification			Matrix			Containers & Preservatives			Filtered Sample (Y/N)			Composite=C / Grab=C		
Trip Blank .32			Air			H2SO4			X			1 Trip Blank		
MW-1075-050621			Aqueous			HNO3			X			3 VOAs for 8260B 3 VOAs for 8260B SIM		
MW-1075-MS-050621			Sediment			HCl			X			Run MS/MSD		
MW-1075-MSD-050621			Solid			NaOH			X			Run MS/MSD		
			Other:			Zinc			X					
			Other:			Lupres			X					
			Other:			Other:			X					

Possible Hazard Identification		Sample Disposal (X fee may be assessed if samples are retained longer than 1 month)	
<input checked="" type="checkbox"/> Non-Hazard	<input type="checkbox"/> Irritant	<input type="checkbox"/> Return to Client	<input type="checkbox"/> Archive For _____ Months
Special Instructions/QC Requirements & Comments:		Disposal By Lab	
Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203631 Level IV Reporting requested.			

Relinquished by: <i>Andrew Bant</i>	Company: Arcadis	Date/Time: 5/6/21 1600	Received by: <i>Novi Cold Storage</i>	Company: Arcadis	Date/Time: 5/6/21 1600
Relinquished by: <i>Julie McClafferty</i>	Company: Arcadis	Date/Time: 5/7/21 920	Received by: <i>ETA</i>	Company: ETA	Date/Time: 5/7/21 0920
Relinquished by: <i>PP</i>	Company: ETA	Date/Time: 5/7/21 1116	Received by: <i>MUS Laboratory</i>	Company: MUS	Date/Time: 5/7/21 800



Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 149041

Client Arcadis Site Name _____

Cooler unpacked by:
MJS ETA CANTON

Cooler Received on MAY 08 2021 Opened on MAY 08 2021

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

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

TestAmerica Cooler # 1A 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

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 1.4 °C Corrected Cooler Temp. 1.5 °C
 IR GUN #IR-12 (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 NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA
- 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)?
- 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

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

- 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# HC022887
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA 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: _____