

ANALYTICAL REPORT

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

Laboratory Job ID: 240-163026-1
Client Project/Site: Ford LTP - On Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
3/2/2022 7:20:56 AM

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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 - On Site

Job ID: 240-163026-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
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.

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 - On Site

Job ID: 240-163026-1

Job ID: 240-163026-1

Laboratory: Eurofins Canton

Narrative

**Job Narrative
240-163026-1**

Comments

No additional comments.

Receipt

The samples were received on 2/24/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.2° C and 0.3° 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 - On Site

Job ID: 240-163026-1

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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Sample Summary

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

Job ID: 240-163026-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-163026-1	TRIP BLANK_57	Water	02/22/22 00:00	02/24/22 08:00
240-163026-2	PW-16-01_022122	Water	02/21/22 12:15	02/24/22 08:00
240-163026-3	MW-62_022122	Water	02/21/22 13:50	02/24/22 08:00
240-163026-4	MW-50_022122	Water	02/21/22 16:00	02/24/22 08:00
240-163026-5	MW-48R_022222	Water	02/22/22 11:30	02/24/22 08:00
240-163026-6	MW-63_022222	Water	02/22/22 13:10	02/24/22 08:00
240-163026-7	MW-67_022222	Water	02/22/22 15:20	02/24/22 08:00

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- 13
- 14

Detection Summary

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

Job ID: 240-163026-1

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-163026-1

No Detections.

Client Sample ID: PW-16-01_022122

Lab Sample ID: 240-163026-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	63		13	5.8	ug/L	12.5		8260B	Total/NA
trans-1,2-Dichloroethene	11	J	13	6.4	ug/L	12.5		8260B	Total/NA
Vinyl chloride	600		13	5.6	ug/L	12.5		8260B	Total/NA

Client Sample ID: MW-62_022122

Lab Sample ID: 240-163026-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.7	J	2.0	0.86	ug/L	1		8260B SIM	Total/NA

Client Sample ID: MW-50_022122

Lab Sample ID: 240-163026-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.6		1.0	0.46	ug/L	1		8260B	Total/NA
Vinyl chloride	32		1.0	0.45	ug/L	1		8260B	Total/NA

Client Sample ID: MW-48R_022222

Lab Sample ID: 240-163026-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	9.3		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	2.1		1.0	0.45	ug/L	1		8260B	Total/NA

Client Sample ID: MW-63_022222

Lab Sample ID: 240-163026-6

No Detections.

Client Sample ID: MW-67_022222

Lab Sample ID: 240-163026-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.1		1.0	0.46	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.72	J	1.0	0.51	ug/L	1		8260B	Total/NA
Trichloroethene	60		1.0	0.44	ug/L	1		8260B	Total/NA

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 - On Site

Job ID: 240-163026-1

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-163026-1

Date Collected: 02/22/22 00:00

Matrix: Water

Date Received: 02/24/22 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			02/25/22 15:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/22 15:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 15:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/22 15:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 15:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/22 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		62 - 137		02/25/22 15:30	1
4-Bromofluorobenzene (Surr)	110		56 - 136		02/25/22 15:30	1
Toluene-d8 (Surr)	90		78 - 122		02/25/22 15:30	1
Dibromofluoromethane (Surr)	87		73 - 120		02/25/22 15:30	1

Client Sample Results

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

Job ID: 240-163026-1

Client Sample ID: PW-16-01_022122

Lab Sample ID: 240-163026-2

Date Collected: 02/21/22 12:15

Matrix: Water

Date Received: 02/24/22 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			02/25/22 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		66 - 120		02/25/22 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	13	U	13	6.1	ug/L			02/28/22 15:40	12.5
cis-1,2-Dichloroethene	63		13	5.8	ug/L			02/28/22 15:40	12.5
Tetrachloroethene	13	U	13	5.5	ug/L			02/28/22 15:40	12.5
trans-1,2-Dichloroethene	11	J	13	6.4	ug/L			02/28/22 15:40	12.5
Trichloroethene	13	U	13	5.5	ug/L			02/28/22 15:40	12.5
Vinyl chloride	600		13	5.6	ug/L			02/28/22 15:40	12.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		62 - 137		02/28/22 15:40	12.5
4-Bromofluorobenzene (Surr)	113		56 - 136		02/28/22 15:40	12.5
Toluene-d8 (Surr)	88		78 - 122		02/28/22 15:40	12.5
Dibromofluoromethane (Surr)	92		73 - 120		02/28/22 15:40	12.5

Client Sample Results

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

Job ID: 240-163026-1

Client Sample ID: MW-62_022122

Lab Sample ID: 240-163026-3

Date Collected: 02/21/22 13:50

Matrix: Water

Date Received: 02/24/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7	J	2.0	0.86	ug/L			02/25/22 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	73		66 - 120		02/25/22 23:12	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			02/25/22 16:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/22 16:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 16:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/22 16:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 16:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/22 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		62 - 137		02/25/22 16:18	1
4-Bromofluorobenzene (Surr)	109		56 - 136		02/25/22 16:18	1
Toluene-d8 (Surr)	90		78 - 122		02/25/22 16:18	1
Dibromofluoromethane (Surr)	85		73 - 120		02/25/22 16:18	1

Client Sample Results

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

Job ID: 240-163026-1

Client Sample ID: MW-50_022122

Lab Sample ID: 240-163026-4

Date Collected: 02/21/22 16:00

Matrix: Water

Date Received: 02/24/22 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			02/26/22 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		66 - 120		02/26/22 00:32	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			02/25/22 17:30	1
cis-1,2-Dichloroethene	4.6		1.0	0.46	ug/L			02/25/22 17:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 17:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/22 17:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 17:30	1
Vinyl chloride	32		1.0	0.45	ug/L			02/25/22 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		62 - 137		02/25/22 17:30	1
4-Bromofluorobenzene (Surr)	112		56 - 136		02/25/22 17:30	1
Toluene-d8 (Surr)	92		78 - 122		02/25/22 17:30	1
Dibromofluoromethane (Surr)	88		73 - 120		02/25/22 17:30	1

Client Sample Results

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

Job ID: 240-163026-1

Client Sample ID: MW-48R_022222

Lab Sample ID: 240-163026-5

Date Collected: 02/22/22 11:30

Matrix: Water

Date Received: 02/24/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.3		2.0	0.86	ug/L			02/26/22 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		66 - 120					02/26/22 00:58	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			02/25/22 17:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/22 17:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 17:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/22 17:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 17:54	1
Vinyl chloride	2.1		1.0	0.45	ug/L			02/25/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		62 - 137					02/25/22 17:54	1
4-Bromofluorobenzene (Surr)	118		56 - 136					02/25/22 17:54	1
Toluene-d8 (Surr)	93		78 - 122					02/25/22 17:54	1
Dibromofluoromethane (Surr)	90		73 - 120					02/25/22 17:54	1

Client Sample Results

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

Job ID: 240-163026-1

Client Sample ID: MW-63_022222

Lab Sample ID: 240-163026-6

Date Collected: 02/22/22 13:10

Matrix: Water

Date Received: 02/24/22 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			02/26/22 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		66 - 120		02/26/22 01:25	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			02/25/22 18:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/22 18:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 18:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/22 18:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 18:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/22 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	73		62 - 137		02/25/22 18:18	1
4-Bromofluorobenzene (Surr)	111		56 - 136		02/25/22 18:18	1
Toluene-d8 (Surr)	90		78 - 122		02/25/22 18:18	1
Dibromofluoromethane (Surr)	88		73 - 120		02/25/22 18:18	1

Client Sample Results

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

Job ID: 240-163026-1

Client Sample ID: MW-67_022222

Lab Sample ID: 240-163026-7

Date Collected: 02/22/22 15:20

Matrix: Water

Date Received: 02/24/22 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			02/26/22 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		66 - 120		02/26/22 01:52	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			02/25/22 18:42	1
cis-1,2-Dichloroethene	3.1		1.0	0.46	ug/L			02/25/22 18:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 18:42	1
trans-1,2-Dichloroethene	0.72	J	1.0	0.51	ug/L			02/25/22 18:42	1
Trichloroethene	60		1.0	0.44	ug/L			02/25/22 18:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/22 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		62 - 137		02/25/22 18:42	1
4-Bromofluorobenzene (Surr)	106		56 - 136		02/25/22 18:42	1
Toluene-d8 (Surr)	89		78 - 122		02/25/22 18:42	1
Dibromofluoromethane (Surr)	89		73 - 120		02/25/22 18:42	1

Surrogate Summary

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

Job ID: 240-163026-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-163026-1	TRIP BLANK_57	72	110	90	87
240-163026-2	PW-16-01_022122	76	113	88	92
240-163026-2 MS	PW-16-01_022122	82	121	90	95
240-163026-2 MSD	PW-16-01_022122	78	118	86	89
240-163026-3	MW-62_022122	76	109	90	85
240-163026-3 MS	MW-62-MS_022122	75	117	93	90
240-163026-3 MSD	MW-62-MSD_022122	68	111	90	83
240-163026-4	MW-50_022122	76	112	92	88
240-163026-5	MW-48R_022222	76	118	93	90
240-163026-6	MW-63_022222	73	111	90	88
240-163026-7	MW-67_022222	76	106	89	89
LCS 240-518760/5	Lab Control Sample	75	118	90	87
LCS 240-518866/5	Lab Control Sample	74	118	88	89
MB 240-518760/8	Method Blank	74	113	87	85
MB 240-518866/8	Method Blank	75	111	85	88

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)
240-162971-H-3 MS	Matrix Spike	74
240-162971-N-3 MSD	Matrix Spike Duplicate	75
240-163026-2	PW-16-01_022122	75
240-163026-3	MW-62_022122	73
240-163026-3 MS	MW-62-MS_022122	75
240-163026-3 MSD	MW-62-MSD_022122	77
240-163026-4	MW-50_022122	76
240-163026-5	MW-48R_022222	76
240-163026-6	MW-63_022222	76
240-163026-7	MW-67_022222	74
LCS 240-518807/4	Lab Control Sample	73
MB 240-518807/5	Method Blank	72

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-163026-1

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

Lab Sample ID: MB 240-518760/8
Matrix: Water
Analysis Batch: 518760

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/25/22 13:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/22 13:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 13:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/22 13:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/22 13:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/22 13:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	74		62 - 137		02/25/22 13:36	1
4-Bromofluorobenzene (Surr)	113		56 - 136		02/25/22 13:36	1
Toluene-d8 (Surr)	87		78 - 122		02/25/22 13:36	1
Dibromofluoromethane (Surr)	85		73 - 120		02/25/22 13:36	1

Lab Sample ID: LCS 240-518760/5
Matrix: Water
Analysis Batch: 518760

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1-Dichloroethene	20.0	19.4		ug/L		97	63 - 134
cis-1,2-Dichloroethene	20.0	19.7		ug/L		99	77 - 123
Tetrachloroethene	20.0	19.2		ug/L		96	76 - 123
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	75 - 124
Trichloroethene	20.0	20.3		ug/L		101	70 - 122
Vinyl chloride	20.0	22.3		ug/L		112	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	75		62 - 137
4-Bromofluorobenzene (Surr)	118		56 - 136
Toluene-d8 (Surr)	90		78 - 122
Dibromofluoromethane (Surr)	87		73 - 120

Lab Sample ID: 240-163026-3 MS
Matrix: Water
Analysis Batch: 518760

Client Sample ID: MW-62-MS_022122
Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	25.0	19.3		ug/L		77	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	19.4		ug/L		77	66 - 128
Tetrachloroethene	1.0	U	25.0	19.5		ug/L		78	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	20.8		ug/L		83	56 - 136
Trichloroethene	1.0	U	25.0	20.9		ug/L		84	61 - 124
Vinyl chloride	1.0	U	25.0	24.1		ug/L		96	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	75		62 - 137
4-Bromofluorobenzene (Surr)	117		56 - 136
Toluene-d8 (Surr)	93		78 - 122

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QC Sample Results

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

Job ID: 240-163026-1

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

Lab Sample ID: 240-163026-3 MS
Matrix: Water
Analysis Batch: 518760

Client Sample ID: MW-62-MS_022122
Prep Type: Total/NA

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Dibromofluoromethane (Surr)</i>	90		73 - 120

Lab Sample ID: 240-163026-3 MSD
Matrix: Water
Analysis Batch: 518760

Client Sample ID: MW-62-MSD_022122
Prep Type: Total/NA

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,1-Dichloroethene	1.0	U	25.0	20.6		ug/L		83	56 - 135	7	26
cis-1,2-Dichloroethene	1.0	U	25.0	20.8		ug/L		83	66 - 128	7	14
Tetrachloroethene	1.0	U	25.0	20.7		ug/L		83	62 - 131	6	20
trans-1,2-Dichloroethene	1.0	U	25.0	20.5		ug/L		82	56 - 136	1	15
Trichloroethene	1.0	U	25.0	21.9		ug/L		87	61 - 124	4	15
Vinyl chloride	1.0	U	25.0	24.8		ug/L		99	43 - 157	3	24

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	68		62 - 137
<i>4-Bromofluorobenzene (Surr)</i>	111		56 - 136
<i>Toluene-d8 (Surr)</i>	90		78 - 122
<i>Dibromofluoromethane (Surr)</i>	83		73 - 120

Lab Sample ID: MB 240-518866/8
Matrix: Water
Analysis Batch: 518866

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

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/22 14:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/22 14:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/22 14:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/22 14:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/22 14:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/22 14:02	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	75		62 - 137		02/28/22 14:02	1
<i>4-Bromofluorobenzene (Surr)</i>	111		56 - 136		02/28/22 14:02	1
<i>Toluene-d8 (Surr)</i>	85		78 - 122		02/28/22 14:02	1
<i>Dibromofluoromethane (Surr)</i>	88		73 - 120		02/28/22 14:02	1

Lab Sample ID: LCS 240-518866/5
Matrix: Water
Analysis Batch: 518866

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1-Dichloroethene	20.0	22.6		ug/L		113	63 - 134
cis-1,2-Dichloroethene	20.0	21.6		ug/L		108	77 - 123
Tetrachloroethene	20.0	19.6		ug/L		98	76 - 123
trans-1,2-Dichloroethene	20.0	22.5		ug/L		113	75 - 124
Trichloroethene	20.0	21.9		ug/L		109	70 - 122

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QC Sample Results

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

Job ID: 240-163026-1

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

Lab Sample ID: LCS 240-518866/5
Matrix: Water
Analysis Batch: 518866

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	20.0	22.9		ug/L		114	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	74		62 - 137
4-Bromofluorobenzene (Surr)	118		56 - 136
Toluene-d8 (Surr)	88		78 - 122
Dibromofluoromethane (Surr)	89		73 - 120

Lab Sample ID: 240-163026-2 MS
Matrix: Water
Analysis Batch: 518866

Client Sample ID: PW-16-01_022122
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	13	U	250	283		ug/L		113	56 - 135
cis-1,2-Dichloroethene	63		250	337		ug/L		110	66 - 128
Tetrachloroethene	13	U	250	249		ug/L		99	62 - 131
trans-1,2-Dichloroethene	11	J	250	290		ug/L		112	56 - 136
Trichloroethene	13	U	250	282		ug/L		113	61 - 124
Vinyl chloride	600		250	857	E	ug/L		102	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		62 - 137
4-Bromofluorobenzene (Surr)	121		56 - 136
Toluene-d8 (Surr)	90		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Lab Sample ID: 240-163026-2 MSD
Matrix: Water
Analysis Batch: 518866

Client Sample ID: PW-16-01_022122
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	13	U	250	262		ug/L		105	56 - 135	8	26
cis-1,2-Dichloroethene	63		250	326		ug/L		105	66 - 128	3	14
Tetrachloroethene	13	U	250	227		ug/L		91	62 - 131	9	20
trans-1,2-Dichloroethene	11	J	250	273		ug/L		105	56 - 136	6	15
Trichloroethene	13	U	250	254		ug/L		102	61 - 124	10	15
Vinyl chloride	600		250	843	E	ug/L		97	43 - 157	2	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		62 - 137
4-Bromofluorobenzene (Surr)	118		56 - 136
Toluene-d8 (Surr)	86		78 - 122
Dibromofluoromethane (Surr)	89		73 - 120

QC Sample Results

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

Job ID: 240-163026-1

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

Lab Sample ID: MB 240-518807/5
Matrix: Water
Analysis Batch: 518807

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			02/25/22 16:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		66 - 120					02/25/22 16:31	1

Lab Sample ID: LCS 240-518807/4
Matrix: Water
Analysis Batch: 518807

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	10.2		ug/L		102	80 - 122
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	73		66 - 120				

Lab Sample ID: 240-162971-H-3 MS
Matrix: Water
Analysis Batch: 518807

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
1,4-Dioxane	2.2		10.0	13.0		ug/L		108	51 - 153
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	74		66 - 120						

Lab Sample ID: 240-162971-N-3 MSD
Matrix: Water
Analysis Batch: 518807

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
1,4-Dioxane	2.2		10.0	12.4		ug/L		102	51 - 153	4	16
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	75		66 - 120								

Lab Sample ID: 240-163026-3 MS
Matrix: Water
Analysis Batch: 518807

Client Sample ID: MW-62-MS_022122
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.7	J	10.0	12.5		ug/L		109	51 - 153
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	75		66 - 120						

QC Sample Results

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

Job ID: 240-163026-1

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

Lab Sample ID: 240-163026-3 MSD
Matrix: Water
Analysis Batch: 518807

Client Sample ID: MW-62-MSD_022122
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	1.7	J	10.0	12.7		ug/L		110	51 - 153	1	16
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	77		66 - 120								

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QC Association Summary

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

Job ID: 240-163026-1

GC/MS VOA

Analysis Batch: 518760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-163026-1	TRIP BLANK_57	Total/NA	Water	8260B	
240-163026-3	MW-62_022122	Total/NA	Water	8260B	
240-163026-4	MW-50_022122	Total/NA	Water	8260B	
240-163026-5	MW-48R_022222	Total/NA	Water	8260B	
240-163026-6	MW-63_022222	Total/NA	Water	8260B	
240-163026-7	MW-67_022222	Total/NA	Water	8260B	
MB 240-518760/8	Method Blank	Total/NA	Water	8260B	
LCS 240-518760/5	Lab Control Sample	Total/NA	Water	8260B	
240-163026-3 MS	MW-62-MS_022122	Total/NA	Water	8260B	
240-163026-3 MSD	MW-62-MSD_022122	Total/NA	Water	8260B	

Analysis Batch: 518807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-163026-2	PW-16-01_022122	Total/NA	Water	8260B SIM	
240-163026-3	MW-62_022122	Total/NA	Water	8260B SIM	
240-163026-4	MW-50_022122	Total/NA	Water	8260B SIM	
240-163026-5	MW-48R_022222	Total/NA	Water	8260B SIM	
240-163026-6	MW-63_022222	Total/NA	Water	8260B SIM	
240-163026-7	MW-67_022222	Total/NA	Water	8260B SIM	
MB 240-518807/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-518807/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-162971-H-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-162971-N-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	
240-163026-3 MS	MW-62-MS_022122	Total/NA	Water	8260B SIM	
240-163026-3 MSD	MW-62-MSD_022122	Total/NA	Water	8260B SIM	

Analysis Batch: 518866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-163026-2	PW-16-01_022122	Total/NA	Water	8260B	
MB 240-518866/8	Method Blank	Total/NA	Water	8260B	
LCS 240-518866/5	Lab Control Sample	Total/NA	Water	8260B	
240-163026-2 MS	PW-16-01_022122	Total/NA	Water	8260B	
240-163026-2 MSD	PW-16-01_022122	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-163026-1

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-163026-1

Date Collected: 02/22/22 00:00

Matrix: Water

Date Received: 02/24/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518760	02/25/22 15:30	HMB	TAL CAN

Client Sample ID: PW-16-01_022122

Lab Sample ID: 240-163026-2

Date Collected: 02/21/22 12:15

Matrix: Water

Date Received: 02/24/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		12.5	518866	02/28/22 15:40	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	518807	02/25/22 22:45	CS	TAL CAN

Client Sample ID: MW-62_022122

Lab Sample ID: 240-163026-3

Date Collected: 02/21/22 13:50

Matrix: Water

Date Received: 02/24/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518760	02/25/22 16:18	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	518807	02/25/22 23:12	CS	TAL CAN

Client Sample ID: MW-50_022122

Lab Sample ID: 240-163026-4

Date Collected: 02/21/22 16:00

Matrix: Water

Date Received: 02/24/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518760	02/25/22 17:30	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	518807	02/26/22 00:32	CS	TAL CAN

Client Sample ID: MW-48R_022222

Lab Sample ID: 240-163026-5

Date Collected: 02/22/22 11:30

Matrix: Water

Date Received: 02/24/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518760	02/25/22 17:54	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	518807	02/26/22 00:58	CS	TAL CAN

Client Sample ID: MW-63_022222

Lab Sample ID: 240-163026-6

Date Collected: 02/22/22 13:10

Matrix: Water

Date Received: 02/24/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518760	02/25/22 18:18	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	518807	02/26/22 01:25	CS	TAL CAN

Lab Chronicle

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

Job ID: 240-163026-1

Client Sample ID: MW-67_022222

Lab Sample ID: 240-163026-7

Date Collected: 02/22/22 15:20

Matrix: Water

Date Received: 02/24/22 08:00

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	8260B		1	518760	02/25/22 18:42	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	518807	02/26/22 01:52	CS	TAL CAN

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 240-163026-1

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.



Chain of Custody Record

MICHIGAN
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

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

Regulatory program: DW NPDES RCRA Other

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

Site Contact: Julia McClafferty
 Telephone: 734-644-5131

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 On-Site
 Project Number: 30080642.401.03
 PO # 30080642.401.03

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			Unpres	Other:	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B		PCE 8260B	TCE 8260B	Vinyl Chloride 8260B
TRIP BLANK - 57	2/22/22	-	X																				1 Trip Blank
PW-16-01-022122	2/21/22	12:15	X																				3 VOAs for 8260B 3 VOAs for 8260B SIM
MW-62-022122	2/21/22	13:50	X																				"
MW-02-MS-022122	2/21/22	13:58	X																				RUN MS/MSD
MW-02-MSD-022122	2/21/22	13:55	X																				RUN MS/MSD
MW-50-02																							
MW-50-022122	2/21/22	16:00	X																				3 VOAs for 8260B 3 VOAs for 8260B SIM
MW-48-022222	2/22/22	11:30	X																				"
MW-63-022222	2/22/22	13:10	X																				"
MW-67-022222	2/22/22	15:20	X																				"

Possible Hazard Identification
 Non-Hazard Irritant Poison H Unknown

Special Instructions/QC Requirements & Comments:
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
 Level IV Reporting requested.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jamesha Jun	ARCADIS	2/22/22 16:20	NOVI COID STORAGE	ARCADIS	2/22/22 16:20
NOVI COID STORAGE	ARCADIS	2/23/22 10:10	BETA	BETA	2-23-22 10:10
BETA	Furgins	2-23-22 1300	Adem Gmit	EETMC	2-24-22 0800



- 1
- 2
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- 14

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

Client Arcoadis Site Name _____ Cooler unpacked by: Adam Janney
Cooler Received on 2-24-22 Opened on 2-24-22
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

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

TestAmerica Cooler # 7A 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-14 (CF -0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #IR-15 (CF -0.7°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 ea 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
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? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 01042019 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 _____

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

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: _____

Chain of Custody Record

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

Regulatory Program: DW NPDES RCRA Other

Client Contact		Client Project Manager: Kris Hinskey		Site Contact: Julia McClafferty		Lab Contact: Mike DelMonico		TestAmerica Laboratories, Inc.			
Company Name: Arcadis		Telephone: 248-994-2240		Telephone: 734-644-5131		Telephone: 330-497-9396		COC No:			
Address: 28550 Cabot Drive, Suite 500		Email: kristoffer.hinskey@arcadis.com		Analysis Turnaround Time		Analyses		For lab use only			
City/State/Zip: Novi, MI, 48377		Sampler Name: <i>Samantha Hindle</i>		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		Walk-in client			
Phone: 248-994-2240		Method of Shipment/Carrier:		10 day				Lab sampling		Job/SDG No:	
Project Name: Ford LTP On-Site		Shipping/Tracking No:		Matrix				Containers & Preservatives		Sample Specific Notes / Special Instructions:	
Project Number: 30080642.401.03				Air Aqueous Sediment Solid Other H2SO4 HNO3 HCl NaOH Zn/C NaOH Unpres Other				Filtered Sample (Y/N) Composite=C / Grab=G 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			
PO # 30080642.401.03											
Sample Identification	Sample Date	Sample Time	Matrix			Containers & Preservatives					
TRIP BLANK_57	2/22/22	-	X							1 Trip Blank	
PW-16-01-022122	2/21/22	12:15	X							3 VOAs for 8260B 3 VOAs for 8260B SIM	
MW-62-022122	2/21/22	13:50	X							" "	
MW-62-MS-022122	2/21/22	13:58	X							RUN MS/MSD	
MW-62-MSD-022122	2/21/22	13:55	X							RUN MS/MSD	
MW-50-02											
MW-50-022122	2/21/22	16:08	X							3 VOAs for 8260B 3 VOAs for 8260B SIM	
MW-48-022222	2/22/22	11:30	X							" "	
MW-63-022222	2/22/22	13:10	X							" "	
MW-67-022222	2/22/22	15:20	X							" "	
Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Special Instructions/QC Requirements & Comments:											
Submit all results through Cadena at jtomalia@cadenaco.com . Cadena #E203728 Level IV Reporting requested.											
Relinquished by: <i>Samantha Hindle</i>	Company: <i>ARCADIS</i>	Date/Time: <i>2/22/22 16:20</i>	Received by: <i>NOVI COLD STORAGE</i>	Company: <i>ARCADIS</i>	Date/Time: <i>2/22/22 16:20</i>						
Relinquished by: <i>NOVI COLD STORAGE</i>	Company: <i>ARCADIS</i>	Date/Time: <i>2/23/22 10:10</i>	Received by: <i>[Signature]</i>	Company: <i>BE-TA</i>	Date/Time: <i>2-23-22 10:10</i>						
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:						

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