TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
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Tel: (330)497-9396

TestAmerica Job ID: 240-108876-1
Client Project/Site: Ford LTP Livonia MI - E203728

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

Attn: Kristoffer Hinskey

Authorized for release by:
3/19/2019 9:35:55 AM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Job ID: 240-108876-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Livonia MI - E203728

Report Number: 240-108876-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 3/5/2019 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.4º C and 1.6º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MW-30_030219 (240-108876-1), MW-31_030219 (240-108876-2), MW-34_030219 (240-108876-3), MW-15-61D_030219 (240-108876-4), MW-42_030219 (240-108876-5), MW-41_030219 (240-108876-6), MW-52_030219 (240-108876-7), MW-35_030219 (240-108876-8), MW-43_030219 (240-108876-9) and TRIP BLANK (240-108876-10) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/11/2019, 03/12/2019 and 03/13/2019.

Tetrachloroethene and Trichloroethene were detected in method blank MB 240-371207/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Toluene-d8 (Surr) failed the surrogate recovery criteria high for LCS 240-371376/4. Refer to the QC report for details.

Chloromethane and Cyclohexane failed the recovery criteria high for LCS 240-371206/4. Several analytes failed the recovery criteria high for LCS 240-371376/4. Refer to the QC report for details.

2-Hexanone failed the recovery criteria high for the MS of sample MW-30_030219MS (240-108876-1) in batch 240-371066.

Job ID: 240-108876-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Diethyl ether failed the recovery criteria high for the MS of sample MW-31_030219MS (240-108876-2) in batch 240-371206.

Several analytes failed the recovery criteria high for the MSD of sample MW-31_030219MSD (240-108876-2) in batch 240-371206. 1,1,2-Trichloro-1,2,2-trifluoroethane exceeded the RPD limit. Refer to the QC report for details.

Surrogate recovery for the following LCS was outside the upper control limit: (LCS 240-371376/4). The associated samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The continuing calibration verification (CCV) associated with batch 371376 recovered above the upper control limit for Vinyl Chloride and 1,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: TRIP BLANK (240-108876-10).

The continuing calibration verification (CCV) associated with batch 371206 recovered above the upper control limit for Vinyl Chloride and/or 1,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-31_030219 (240-108876-2) and MW-34_030219 (240-108876-3).

The laboratory control sample (LCS) for 371376 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported: TRIP BLANK (240-108876-10) and (LCS 240-371376/4).

The laboratory control sample (LCS) for 371206 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported: MW-31_030219 (240-108876-2), MW-34_030219 (240-108876-3) and (LCS 240-371206/4).

No MS/MSD in batch 371376 due to analyte carry over: TRIP BLANK (240-108876-10).

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-30_030219 (240-108876-1), MW-31_030219 (240-108876-2), MW-34_030219 (240-108876-3), MW-15-61D_030219 (240-108876-4), MW-42_030219 (240-108876-5), MW-41_030219 (240-108876-6), MW-52_030219 (240-108876-7), MW-35_030219 (240-108876-8) and MW-43_030219 (240-108876-9) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 03/11/2019.

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

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

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 = 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 Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-108876-1	MW-30_030219	Water	03/02/19 10:53	03/05/19 08:15
240-108876-2	MW-31_030219	Water	03/02/19 09:22	03/05/19 08:15
240-108876-3	MW-34_030219	Water	03/02/19 12:35	03/05/19 08:15
240-108876-4	MW-15-61D_030219	Water	03/02/19 09:25	03/05/19 08:15
240-108876-5	MW-42_030219	Water	03/02/19 10:40	03/05/19 08:15
240-108876-6	MW-41_030219	Water	03/02/19 11:45	03/05/19 08:15
240-108876-7	MW-52_030219	Water	03/02/19 10:05	03/05/19 08:15
240-108876-8	MW-35_030219	Water	03/02/19 13:50	03/05/19 08:15
240-108876-9	MW-43_030219	Water	03/02/19 12:00	03/05/19 08:15
240-108876-10	TRIP BLANK	Water	03/02/19 00:00	03/05/19 08:15

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-30_030219 — Lab Sample ID: 240-108876-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	15		2.0	0.86	ug/L	1		8260B SIM	Total/NA
1,3-Dichlorobenzene	0.18	J	1.0	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: MW-31_030219 — Lab Sample ID: 240-108876-2

No Detections.

Client Sample ID: MW-34_030219 — Lab Sample ID: 240-108876-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	6.9		2.0	0.86	ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	0.32	J	1.0	0.16	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	0.32	J	1.0	0.15	ug/L	1		8260B	Total/NA
Vinyl chloride	0.85	J	1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-15-61D_030219 — Lab Sample ID: 240-108876-4

No Detections.

Client Sample ID: MW-42_030219 — Lab Sample ID: 240-108876-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.1		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Trichloroethene	0.13	J	1.0	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	0.70	J	1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-41_030219 — Lab Sample ID: 240-108876-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.4	J	2.0	0.86	ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	3.1		1.0	0.16	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.20	J	1.0	0.17	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.42	J	1.0	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	3.2		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-52_030219 — Lab Sample ID: 240-108876-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.9	J	2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	3.9		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-35_030219 — Lab Sample ID: 240-108876-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.8		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Carbon disulfide	0.32	J	5.0	0.28	ug/L	1		8260B	Total/NA
Toluene	0.14	J	1.0	0.14	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.19	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	0.26	J	1.0	0.26	ug/L	1		8260B	Total/NA
Trichloroethene	0.11	J	1.0	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	4.1		1.0	0.20	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-43_030219 — Lab Sample ID: 240-108876-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.3		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	3.4		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-108876-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-30_030219
Date Collected: 03/02/19 10:53
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**15**		2.0	0.86	ug/L			03/11/19 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 125*		*03/11/19 14:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/19 21:22	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/19 21:22	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/19 21:22	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/19 21:22	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/19 21:22	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/11/19 21:22	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/11/19 21:22	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/19 21:22	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/19 21:22	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/19 21:22	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/19 21:22	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/19 21:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/19 21:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/19 21:22	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/11/19 21:22	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/19 21:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/11/19 21:22	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/19 21:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/19 21:22	1
1,3-Dichlorobenzene	**0.18**	**J**	1.0	0.15	ug/L			03/11/19 21:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/19 21:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/19 21:22	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/19 21:22	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/19 21:22	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/19 21:22	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/19 21:22	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/19 21:22	1
2-Hexanone	10	U F1	10	0.54	ug/L			03/11/19 21:22	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/19 21:22	1
Methyl acetate	10	U	10	1.7	ug/L			03/11/19 21:22	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/11/19 21:22	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/19 21:22	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/11/19 21:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/19 21:22	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/19 21:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/19 21:22	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/19 21:22	1
Toluene	1.0	U	1.0	0.14	ug/L			03/11/19 21:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/19 21:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/19 21:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/19 21:22	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/19 21:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/11/19 21:22	1

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-30_030219
Date Collected: 03/02/19 10:53
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/19 21:22	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/19 21:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/11/19 21:22	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/19 21:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/19 21:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/11/19 21:22	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/11/19 21:22	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/19 21:22	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/11/19 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*59 - 120*		*03/11/19 21:22*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 128*		*03/11/19 21:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 121*		*03/11/19 21:22*	*1*
Toluene-d8 (Surr)	*96*		*70 - 123*		*03/11/19 21:22*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-31_030219
Date Collected: 03/02/19 09:22
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-2
Matrix: Water

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			03/11/19 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 125*		*03/11/19 15:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/12/19 16:25	1
Benzene	1.0	U	1.0	0.13	ug/L			03/12/19 16:25	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/12/19 16:25	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/12/19 16:25	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/12/19 16:25	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/12/19 16:25	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/12/19 16:25	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/12/19 16:25	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/12/19 16:25	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/12/19 16:25	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/12/19 16:25	1
Chloromethane	1.0	U F1 *	1.0	0.20	ug/L			03/12/19 16:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/12/19 16:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/12/19 16:25	1
Cyclohexane	1.0	U F1 *	1.0	0.24	ug/L			03/12/19 16:25	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/12/19 16:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/12/19 16:25	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/12/19 16:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/12/19 16:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/12/19 16:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/12/19 16:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/12/19 16:25	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/12/19 16:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/12/19 16:25	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/12/19 16:25	1
1,2-Dichloropropane	1.0	U F1	1.0	0.15	ug/L			03/12/19 16:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/12/19 16:25	1
2-Hexanone	10	U F1	10	0.54	ug/L			03/12/19 16:25	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/12/19 16:25	1
Methyl acetate	10	U F1	10	1.7	ug/L			03/12/19 16:25	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/12/19 16:25	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/12/19 16:25	1
4-Methyl-2-pentanone (MIBK)	10	U F1	10	0.42	ug/L			03/12/19 16:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/12/19 16:25	1
Styrene	1.0	U	1.0	0.10	ug/L			03/12/19 16:25	1
1,1,2,2-Tetrachloroethane	1.0	U F1	1.0	0.13	ug/L			03/12/19 16:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/12/19 16:25	1
Toluene	1.0	U	1.0	0.14	ug/L			03/12/19 16:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/12/19 16:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/12/19 16:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/12/19 16:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/12/19 16:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/12/19 16:25	1

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-31_030219
Date Collected: 03/02/19 09:22
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/12/19 16:25	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/12/19 16:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U F2	1.0	0.41	ug/L			03/12/19 16:25	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/12/19 16:25	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/12/19 16:25	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/12/19 16:25	1
Vinyl chloride	1.0	U F1	1.0	0.20	ug/L			03/12/19 16:25	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/12/19 16:25	1
Diethyl ether	2.0	U F1	2.0	0.19	ug/L			03/12/19 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*59 - 120*		*03/12/19 16:25*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 128*		*03/12/19 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 121*		*03/12/19 16:25*	*1*
Toluene-d8 (Surr)	*88*		*70 - 123*		*03/12/19 16:25*	*1*

Client Sample ID: MW-34_030219

Date Collected: 03/02/19 12:35
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**6.9**		2.0	0.86	ug/L			03/11/19 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 125*		*03/11/19 17:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/12/19 17:30	1
Benzene	1.0	U	1.0	0.13	ug/L			03/12/19 17:30	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/12/19 17:30	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/12/19 17:30	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/12/19 17:30	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/12/19 17:30	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/12/19 17:30	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/12/19 17:30	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/12/19 17:30	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/12/19 17:30	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/12/19 17:30	1
Chloromethane	1.0	U *	1.0	0.20	ug/L			03/12/19 17:30	1
cis-1,2-Dichloroethene	**0.32**	**J**	1.0	0.16	ug/L			03/12/19 17:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/12/19 17:30	1
Cyclohexane	1.0	U *	1.0	0.24	ug/L			03/12/19 17:30	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/12/19 17:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/12/19 17:30	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/12/19 17:30	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/12/19 17:30	1
1,3-Dichlorobenzene	**0.32**	**J**	1.0	0.15	ug/L			03/12/19 17:30	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/12/19 17:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/12/19 17:30	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/12/19 17:30	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/12/19 17:30	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/12/19 17:30	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/12/19 17:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/12/19 17:30	1
2-Hexanone	10	U	10	0.54	ug/L			03/12/19 17:30	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/12/19 17:30	1
Methyl acetate	10	U	10	1.7	ug/L			03/12/19 17:30	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/12/19 17:30	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/12/19 17:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/12/19 17:30	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/12/19 17:30	1
Styrene	1.0	U	1.0	0.10	ug/L			03/12/19 17:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/12/19 17:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/12/19 17:30	1
Toluene	1.0	U	1.0	0.14	ug/L			03/12/19 17:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/12/19 17:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/12/19 17:30	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/12/19 17:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/12/19 17:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/12/19 17:30	1

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-34_030219
Date Collected: 03/02/19 12:35
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/12/19 17:30	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/12/19 17:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/12/19 17:30	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/12/19 17:30	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/12/19 17:30	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/12/19 17:30	1
Vinyl chloride	**0.85**	**J**	1.0	0.20	ug/L			03/12/19 17:30	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/12/19 17:30	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/12/19 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*59 - 120*		*03/12/19 17:30*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 128*		*03/12/19 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 121*		*03/12/19 17:30*	*1*
Toluene-d8 (Surr)	*112*		*70 - 123*		*03/12/19 17:30*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-15-61D_030219
Date Collected: 03/02/19 09:25
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-4
Matrix: Water

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			03/11/19 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*63 - 125*		*03/11/19 17:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/12/19 14:05	1
Benzene	1.0	U	1.0	0.13	ug/L			03/12/19 14:05	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/12/19 14:05	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/12/19 14:05	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/12/19 14:05	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/12/19 14:05	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/12/19 14:05	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/12/19 14:05	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/12/19 14:05	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/12/19 14:05	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/12/19 14:05	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/12/19 14:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/12/19 14:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/12/19 14:05	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/12/19 14:05	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/12/19 14:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/12/19 14:05	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/12/19 14:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/12/19 14:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/12/19 14:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/12/19 14:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/12/19 14:05	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/12/19 14:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/12/19 14:05	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/12/19 14:05	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/12/19 14:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/12/19 14:05	1
2-Hexanone	10	U	10	0.54	ug/L			03/12/19 14:05	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/12/19 14:05	1
Methyl acetate	10	U	10	1.7	ug/L			03/12/19 14:05	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/12/19 14:05	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/12/19 14:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/12/19 14:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/12/19 14:05	1
Styrene	1.0	U	1.0	0.10	ug/L			03/12/19 14:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/12/19 14:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/12/19 14:05	1
Toluene	1.0	U	1.0	0.14	ug/L			03/12/19 14:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/12/19 14:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/12/19 14:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/12/19 14:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/12/19 14:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/12/19 14:05	1

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-15-61D_030219
Date Collected: 03/02/19 09:25
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/12/19 14:05	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/12/19 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/12/19 14:05	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/12/19 14:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/12/19 14:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/12/19 14:05	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/12/19 14:05	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/12/19 14:05	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/12/19 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*59 - 120*		*03/12/19 14:05*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 128*		*03/12/19 14:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 121*		*03/12/19 14:05*	*1*
Toluene-d8 (Surr)	*82*		*70 - 123*		*03/12/19 14:05*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-42_030219
Date Collected: 03/02/19 10:40
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.1		2.0	0.86	ug/L			03/11/19 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 125*		*03/11/19 18:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/13/19 11:29	1
Benzene	1.0	U	1.0	0.13	ug/L			03/13/19 11:29	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/13/19 11:29	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/13/19 11:29	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/13/19 11:29	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/13/19 11:29	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/13/19 11:29	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/13/19 11:29	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/13/19 11:29	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/13/19 11:29	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/13/19 11:29	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/13/19 11:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/13/19 11:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/13/19 11:29	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/13/19 11:29	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/13/19 11:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/13/19 11:29	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/13/19 11:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 11:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 11:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/13/19 11:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/13/19 11:29	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/13/19 11:29	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/13/19 11:29	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 11:29	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/13/19 11:29	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/13/19 11:29	1
2-Hexanone	10	U	10	0.54	ug/L			03/13/19 11:29	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/13/19 11:29	1
Methyl acetate	10	U	10	1.7	ug/L			03/13/19 11:29	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/13/19 11:29	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/13/19 11:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/13/19 11:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/13/19 11:29	1
Styrene	1.0	U	1.0	0.10	ug/L			03/13/19 11:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/13/19 11:29	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/13/19 11:29	1
Toluene	1.0	U	1.0	0.14	ug/L			03/13/19 11:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 11:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/13/19 11:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/13/19 11:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/13/19 11:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/13/19 11:29	1

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-42_030219
Date Collected: 03/02/19 10:40
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**0.13**	**J**	1.0	0.10	ug/L			03/13/19 11:29	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/13/19 11:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/13/19 11:29	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/13/19 11:29	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/13/19 11:29	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/13/19 11:29	1
Vinyl chloride	**0.70**	**J**	1.0	0.20	ug/L			03/13/19 11:29	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/13/19 11:29	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/13/19 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*59 - 120*		*03/13/19 11:29*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 128*		*03/13/19 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 121*		*03/13/19 11:29*	*1*
Toluene-d8 (Surr)	*80*		*70 - 123*		*03/13/19 11:29*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-41_030219
Date Collected: 03/02/19 11:45
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.4	J	2.0	0.86	ug/L			03/11/19 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 125*		*03/11/19 19:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/13/19 11:51	1
Benzene	1.0	U	1.0	0.13	ug/L			03/13/19 11:51	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/13/19 11:51	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/13/19 11:51	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/13/19 11:51	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/13/19 11:51	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/13/19 11:51	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/13/19 11:51	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/13/19 11:51	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/13/19 11:51	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/13/19 11:51	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/13/19 11:51	1
cis-1,2-Dichloroethene	3.1		1.0	0.16	ug/L			03/13/19 11:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/13/19 11:51	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/13/19 11:51	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/13/19 11:51	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/13/19 11:51	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/13/19 11:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 11:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 11:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/13/19 11:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/13/19 11:51	1
1,1-Dichloroethane	0.20	J	1.0	0.17	ug/L			03/13/19 11:51	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/13/19 11:51	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 11:51	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/13/19 11:51	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/13/19 11:51	1
2-Hexanone	10	U	10	0.54	ug/L			03/13/19 11:51	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/13/19 11:51	1
Methyl acetate	10	U	10	1.7	ug/L			03/13/19 11:51	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/13/19 11:51	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/13/19 11:51	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/13/19 11:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/13/19 11:51	1
Styrene	1.0	U	1.0	0.10	ug/L			03/13/19 11:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/13/19 11:51	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/13/19 11:51	1
Toluene	1.0	U	1.0	0.14	ug/L			03/13/19 11:51	1
trans-1,2-Dichloroethene	0.42	J	1.0	0.19	ug/L			03/13/19 11:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/13/19 11:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/13/19 11:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/13/19 11:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/13/19 11:51	1

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-41_030219
Date Collected: 03/02/19 11:45
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/13/19 11:51	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/13/19 11:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/13/19 11:51	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/13/19 11:51	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/13/19 11:51	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/13/19 11:51	1
Vinyl chloride	**3.2**		1.0	0.20	ug/L			03/13/19 11:51	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/13/19 11:51	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/13/19 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*59 - 120*		*03/13/19 11:51*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 128*		*03/13/19 11:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 121*		*03/13/19 11:51*	*1*
Toluene-d8 (Surr)	*85*		*70 - 123*		*03/13/19 11:51*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-52_030219
Date Collected: 03/02/19 10:05
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.9	J	2.0	0.86	ug/L			03/11/19 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*63 - 125*		*03/11/19 19:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/13/19 12:13	1
Benzene	1.0	U	1.0	0.13	ug/L			03/13/19 12:13	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/13/19 12:13	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/13/19 12:13	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/13/19 12:13	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/13/19 12:13	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/13/19 12:13	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/13/19 12:13	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/13/19 12:13	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/13/19 12:13	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/13/19 12:13	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/13/19 12:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/13/19 12:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/13/19 12:13	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/13/19 12:13	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/13/19 12:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/13/19 12:13	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/13/19 12:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 12:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 12:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/13/19 12:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/13/19 12:13	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/13/19 12:13	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/13/19 12:13	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 12:13	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/13/19 12:13	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/13/19 12:13	1
2-Hexanone	10	U	10	0.54	ug/L			03/13/19 12:13	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/13/19 12:13	1
Methyl acetate	10	U	10	1.7	ug/L			03/13/19 12:13	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/13/19 12:13	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/13/19 12:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/13/19 12:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/13/19 12:13	1
Styrene	1.0	U	1.0	0.10	ug/L			03/13/19 12:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/13/19 12:13	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/13/19 12:13	1
Toluene	1.0	U	1.0	0.14	ug/L			03/13/19 12:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 12:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/13/19 12:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/13/19 12:13	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/13/19 12:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/13/19 12:13	1

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-52_030219
Date Collected: 03/02/19 10:05
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/13/19 12:13	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/13/19 12:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/13/19 12:13	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/13/19 12:13	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/13/19 12:13	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/13/19 12:13	1
Vinyl chloride	**3.9**		1.0	0.20	ug/L			03/13/19 12:13	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/13/19 12:13	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/13/19 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*		*59 - 120*		*03/13/19 12:13*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 128*		*03/13/19 12:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 121*		*03/13/19 12:13*	*1*
Toluene-d8 (Surr)	*80*		*70 - 123*		*03/13/19 12:13*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-35_030219
Date Collected: 03/02/19 13:50
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**5.8**		2.0	0.86	ug/L			03/11/19 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*63 - 125*		*03/11/19 20:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/13/19 13:18	1
Benzene	1.0	U	1.0	0.13	ug/L			03/13/19 13:18	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/13/19 13:18	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/13/19 13:18	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/13/19 13:18	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/13/19 13:18	1
Carbon disulfide	**0.32**	**J**	5.0	0.28	ug/L			03/13/19 13:18	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/13/19 13:18	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/13/19 13:18	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/13/19 13:18	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/13/19 13:18	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/13/19 13:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/13/19 13:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/13/19 13:18	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/13/19 13:18	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/13/19 13:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/13/19 13:18	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/13/19 13:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 13:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 13:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/13/19 13:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/13/19 13:18	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/13/19 13:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/13/19 13:18	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 13:18	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/13/19 13:18	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/13/19 13:18	1
2-Hexanone	10	U	10	0.54	ug/L			03/13/19 13:18	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/13/19 13:18	1
Methyl acetate	10	U	10	1.7	ug/L			03/13/19 13:18	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/13/19 13:18	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/13/19 13:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/13/19 13:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/13/19 13:18	1
Styrene	1.0	U	1.0	0.10	ug/L			03/13/19 13:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/13/19 13:18	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/13/19 13:18	1
Toluene	**0.14**	**J**	1.0	0.14	ug/L			03/13/19 13:18	1
trans-1,2-Dichloroethene	**0.19**	**J**	1.0	0.19	ug/L			03/13/19 13:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/13/19 13:18	1
1,2,4-Trichlorobenzene	**0.26**	**J**	1.0	0.26	ug/L			03/13/19 13:18	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/13/19 13:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/13/19 13:18	1

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-35_030219
Date Collected: 03/02/19 13:50
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**0.11**	**J**	1.0	0.10	ug/L			03/13/19 13:18	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/13/19 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/13/19 13:18	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/13/19 13:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/13/19 13:18	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/13/19 13:18	1
Vinyl chloride	**4.1**		1.0	0.20	ug/L			03/13/19 13:18	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/13/19 13:18	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/13/19 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*59 - 120*		*03/13/19 13:18*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 128*		*03/13/19 13:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 121*		*03/13/19 13:18*	*1*
Toluene-d8 (Surr)	*88*		*70 - 123*		*03/13/19 13:18*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-43_030219
Date Collected: 03/02/19 12:00
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.3		2.0	0.86	ug/L			03/11/19 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 125*		*03/11/19 21:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/13/19 13:40	1
Benzene	1.0	U	1.0	0.13	ug/L			03/13/19 13:40	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/13/19 13:40	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/13/19 13:40	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/13/19 13:40	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/13/19 13:40	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/13/19 13:40	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/13/19 13:40	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/13/19 13:40	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/13/19 13:40	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/13/19 13:40	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/13/19 13:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/13/19 13:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/13/19 13:40	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/13/19 13:40	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/13/19 13:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/13/19 13:40	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/13/19 13:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 13:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 13:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/13/19 13:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/13/19 13:40	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/13/19 13:40	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/13/19 13:40	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 13:40	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/13/19 13:40	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/13/19 13:40	1
2-Hexanone	10	U	10	0.54	ug/L			03/13/19 13:40	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/13/19 13:40	1
Methyl acetate	10	U	10	1.7	ug/L			03/13/19 13:40	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/13/19 13:40	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/13/19 13:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/13/19 13:40	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/13/19 13:40	1
Styrene	1.0	U	1.0	0.10	ug/L			03/13/19 13:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/13/19 13:40	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/13/19 13:40	1
Toluene	1.0	U	1.0	0.14	ug/L			03/13/19 13:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 13:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/13/19 13:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/13/19 13:40	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/13/19 13:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/13/19 13:40	1

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-43_030219
Date Collected: 03/02/19 12:00
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/13/19 13:40	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/13/19 13:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/13/19 13:40	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/13/19 13:40	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/13/19 13:40	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/13/19 13:40	1
Vinyl chloride	**3.4**		1.0	0.20	ug/L			03/13/19 13:40	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/13/19 13:40	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/13/19 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*59 - 120*		*03/13/19 13:40*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 128*		*03/13/19 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 121*		*03/13/19 13:40*	*1*
Toluene-d8 (Surr)	*81*		*70 - 123*		*03/13/19 13:40*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: TRIP BLANK
Date Collected: 03/02/19 00:00
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/13/19 12:25	1
Benzene	1.0	U	1.0	0.13	ug/L			03/13/19 12:25	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/13/19 12:25	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/13/19 12:25	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/13/19 12:25	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/13/19 12:25	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/13/19 12:25	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/13/19 12:25	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/13/19 12:25	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/13/19 12:25	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/13/19 12:25	1
Chloromethane	1.0	U *	1.0	0.20	ug/L			03/13/19 12:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/13/19 12:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/13/19 12:25	1
Cyclohexane	1.0	U *	1.0	0.24	ug/L			03/13/19 12:25	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/13/19 12:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/13/19 12:25	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/13/19 12:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 12:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 12:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/13/19 12:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/13/19 12:25	1
1,1-Dichloroethane	1.0	U *	1.0	0.17	ug/L			03/13/19 12:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/13/19 12:25	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 12:25	1
1,2-Dichloropropane	1.0	U *	1.0	0.15	ug/L			03/13/19 12:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/13/19 12:25	1
2-Hexanone	10	U *	10	0.54	ug/L			03/13/19 12:25	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/13/19 12:25	1
Methyl acetate	10	U *	10	1.7	ug/L			03/13/19 12:25	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/13/19 12:25	1
Methylene Chloride	5.0	U *	5.0	2.6	ug/L			03/13/19 12:25	1
4-Methyl-2-pentanone (MIBK)	10	U *	10	0.42	ug/L			03/13/19 12:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/13/19 12:25	1
Styrene	1.0	U	1.0	0.10	ug/L			03/13/19 12:25	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.13	ug/L			03/13/19 12:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/13/19 12:25	1
Toluene	1.0	U	1.0	0.14	ug/L			03/13/19 12:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 12:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/13/19 12:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/13/19 12:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/13/19 12:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/13/19 12:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/13/19 12:25	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/13/19 12:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/13/19 12:25	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/13/19 12:25	1
1,2,4-Trimethylbenzene	1.0	U *	1.0	0.070	ug/L			03/13/19 12:25	1
1,3,5-Trimethylbenzene	1.0	U *	1.0	0.12	ug/L			03/13/19 12:25	1

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: TRIP BLANK
Date Collected: 03/02/19 00:00
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U *	1.0	0.20	ug/L			03/13/19 12:25	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/13/19 12:25	1
Diethyl ether	2.0	U *	2.0	0.19	ug/L			03/13/19 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*59 - 120*		*03/13/19 12:25*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 128*		*03/13/19 12:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 121*		*03/13/19 12:25*	*1*
Toluene-d8 (Surr)	*99*		*70 - 123*		*03/13/19 12:25*	*1*

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(59-120)	(75-128)	(70-121)	(70-123)
240-108876-1	MW-30_030219	86	104	121	96
240-108876-1 MS	MW-30_030219	111	90	102	106
240-108876-1 MSD	MW-30_030219	108	88	99	103
240-108876-2	MW-31_030219	76	90	98	88
240-108876-2 MS	MW-31_030219	105	94	105	115
240-108876-2 MSD	MW-31_030219	110	102	110	118
240-108876-3	MW-34_030219	96	113	119	112
240-108876-4	MW-15-61D_030219	71	98	95	82
240-108876-4 MS	MW-15-61D_030219	85	94	85	86
240-108876-4 MSD	MW-15-61D_030219	83	91	82	85
240-108876-5	MW-42_030219	70	96	92	80
240-108876-6	MW-41_030219	75	102	99	85
240-108876-7	MW-52_030219	68	94	89	80
240-108876-7 MS	MW-52_030219	87	101	89	90
240-108876-7 MSD	MW-52_030219	85	97	86	89
240-108876-8	MW-35_030219	77	101	95	88
240-108876-9	MW-43_030219	71	94	90	81
240-108876-10	TRIP BLANK	83	105	117	99
LCS 240-371066/4	Lab Control Sample	107	89	97	103
LCS 240-371206/4	Lab Control Sample	102	96	105	114
LCS 240-371207/4	Lab Control Sample	82	87	79	83
LCS 240-371376/4	Lab Control Sample	111	98	109	124 X
LCS 240-371378/4	Lab Control Sample	78	88	78	83
MB 240-371066/6	Method Blank	90	100	115	99
MB 240-371206/6	Method Blank	102	106	120	115
MB 240-371207/6	Method Blank	73	94	92	83
MB 240-371376/6	Method Blank	95	108	117	113
MB 240-371378/6	Method Blank	70	91	88	80

Surrogate Legend

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

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-125)
240-108876-1	MW-30_030219	83
240-108876-1 MS	MW-30_030219	85
240-108876-1 MSD	MW-30_030219	81
240-108876-2	MW-31_030219	85
240-108876-2 MS	MW-31_030219	85
240-108876-2 MSD	MW-31_030219	83
240-108876-3	MW-34_030219	82
240-108876-4	MW-15-61D_030219	78

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCA (63-125)
240-108876-4 MS	MW-15-61D_030219	81
240-108876-4 MSD	MW-15-61D_030219	83
240-108876-5	MW-42_030219	81
240-108876-6	MW-41_030219	79
240-108876-7	MW-52_030219	80
240-108876-7 MS	MW-52_030219	80
240-108876-7 MSD	MW-52_030219	84
240-108876-8	MW-35_030219	80
240-108876-9	MW-43_030219	81
LCS 240-371078/4	Lab Control Sample	79
MB 240-371078/5	Method Blank	82

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (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 (10-150)
MRL 240-371078/6	Lab Control Sample	78

Surrogate Legend

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

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

Lab Sample ID: MB 240-371066/6
Matrix: Water
Analysis Batch: 371066

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/19 13:44	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/19 13:44	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/19 13:44	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/19 13:44	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/19 13:44	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/11/19 13:44	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/11/19 13:44	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/19 13:44	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/19 13:44	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/19 13:44	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/19 13:44	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/19 13:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/19 13:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/19 13:44	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/11/19 13:44	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/19 13:44	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/11/19 13:44	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/19 13:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/19 13:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/19 13:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/19 13:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/19 13:44	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/19 13:44	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/19 13:44	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/19 13:44	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/19 13:44	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/19 13:44	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/19 13:44	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/19 13:44	1
Methyl acetate	10	U	10	1.7	ug/L			03/11/19 13:44	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/11/19 13:44	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/19 13:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/11/19 13:44	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/19 13:44	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/19 13:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/19 13:44	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/19 13:44	1
Toluene	1.0	U	1.0	0.14	ug/L			03/11/19 13:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/19 13:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/19 13:44	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/19 13:44	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/19 13:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/11/19 13:44	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/19 13:44	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/19 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/11/19 13:44	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/19 13:44	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/19 13:44	1

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

Lab Sample ID: MB 240-371066/6
Matrix: Water
Analysis Batch: 371066

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/11/19 13:44	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/11/19 13:44	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/19 13:44	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/11/19 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*59 - 120*		*03/11/19 13:44*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 128*		*03/11/19 13:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 121*		*03/11/19 13:44*	*1*
Toluene-d8 (Surr)	*99*		*70 - 123*		*03/11/19 13:44*	*1*

Lab Sample ID: LCS 240-371066/4
Matrix: Water
Analysis Batch: 371066

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.7		ug/L		83	21 - 162
Benzene	10.0	9.48		ug/L		95	80 - 123
Bromodichloromethane	10.0	8.33		ug/L		83	77 - 125
Bromoform	10.0	7.83		ug/L		78	49 - 141
Bromomethane	10.0	6.97		ug/L		70	41 - 175
2-Butanone (MEK)	20.0	21.1		ug/L		105	39 - 163
Carbon disulfide	10.0	9.51		ug/L		95	60 - 138
Carbon tetrachloride	10.0	8.11		ug/L		81	63 - 140
Chlorobenzene	10.0	8.69		ug/L		87	80 - 121
Chloroethane	10.0	7.22		ug/L		72	33 - 173
Chloroform	10.0	8.96		ug/L		90	79 - 127
Chloromethane	10.0	12.2		ug/L		122	54 - 143
cis-1,2-Dichloroethene	10.0	8.39		ug/L		84	76 - 128
cis-1,3-Dichloropropene	10.0	8.80		ug/L		88	64 - 132
Cyclohexane	10.0	11.0		ug/L		110	58 - 145
Dibromochloromethane	10.0	8.15		ug/L		82	70 - 132
1,2-Dibromo-3-Chloropropane	10.0	6.96		ug/L		70	46 - 132
1,2-Dibromoethane	10.0	8.75		ug/L		87	77 - 123
1,2-Dichlorobenzene	10.0	8.70		ug/L		87	78 - 120
1,3-Dichlorobenzene	10.0	8.74		ug/L		87	78 - 120
1,4-Dichlorobenzene	10.0	8.55		ug/L		85	78 - 120
Dichlorodifluoromethane	10.0	9.94		ug/L		99	29 - 148
1,1-Dichloroethane	10.0	9.96		ug/L		100	75 - 133
1,2-Dichloroethane	10.0	8.98		ug/L		90	71 - 135
1,1-Dichloroethene	10.0	9.07		ug/L		91	65 - 139
1,2-Dichloropropane	10.0	10.5		ug/L		105	78 - 133
Ethylbenzene	10.0	8.91		ug/L		89	80 - 120
2-Hexanone	20.0	21.3		ug/L		107	43 - 148
Isopropylbenzene	10.0	8.72		ug/L		87	74 - 120
Methyl acetate	20.0	23.3		ug/L		116	52 - 145
Methylcyclohexane	10.0	8.74		ug/L		87	60 - 125
Methylene Chloride	10.0	11.1		ug/L		111	70 - 134

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

Lab Sample ID: LCS 240-371066/4
Matrix: Water
Analysis Batch: 371066

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	20.0	20.3		ug/L		101	49 - 143
Methyl tert-butyl ether	10.0	8.04		ug/L		80	51 - 133
Styrene	10.0	8.76		ug/L		88	79 - 120
1,1,2,2-Tetrachloroethane	10.0	10.1		ug/L		101	65 - 139
Tetrachloroethene	10.0	8.61		ug/L		86	74 - 130
Toluene	10.0	9.80		ug/L		98	78 - 129
trans-1,2-Dichloroethene	10.0	8.97		ug/L		90	78 - 133
trans-1,3-Dichloropropene	10.0	8.83		ug/L		88	55 - 128
1,2,4-Trichlorobenzene	10.0	7.06		ug/L		71	42 - 133
1,1,1-Trichloroethane	10.0	8.50		ug/L		85	69 - 134
1,1,2-Trichloroethane	10.0	9.90		ug/L		99	78 - 133
Trichloroethene	10.0	7.64		ug/L		76	76 - 125
Trichlorofluoromethane	10.0	8.42		ug/L		84	51 - 164
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.06		ug/L		81	50 - 156
1,2,4-Trimethylbenzene	10.0	9.17		ug/L		92	74 - 120
1,3,5-Trimethylbenzene	10.0	9.25		ug/L		92	75 - 121
Vinyl chloride	10.0	9.96		ug/L		100	58 - 143
Xylenes, Total	20.0	17.9		ug/L		89	80 - 120
Diethyl ether	10.0	11.1		ug/L		111	70 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*59 - 120*
Dibromofluoromethane (Surr)	*89*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 121*
Toluene-d8 (Surr)	*103*		*70 - 123*

Lab Sample ID: 240-108876-1 MS
Matrix: Water
Analysis Batch: 371066

Client Sample ID: MW-30_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U	20.0	24.9		ug/L		125	10 - 168
Benzene	1.0	U	10.0	9.74		ug/L		97	71 - 122
Bromodichloromethane	1.0	U	10.0	8.63		ug/L		86	64 - 125
Bromoform	1.0	U	10.0	8.58		ug/L		86	44 - 129
Bromomethane	1.0	U	10.0	6.48		ug/L		65	19 - 187
2-Butanone (MEK)	10	U	20.0	25.6		ug/L		128	37 - 156
Carbon disulfide	5.0	U	10.0	9.22		ug/L		92	43 - 144
Carbon tetrachloride	1.0	U	10.0	7.92		ug/L		79	41 - 143
Chlorobenzene	1.0	U	10.0	9.35		ug/L		93	70 - 123
Chloroethane	1.0	U	10.0	6.83		ug/L		68	11 - 189
Chloroform	1.0	U	10.0	9.25		ug/L		92	68 - 130
Chloromethane	1.0	U	10.0	12.1		ug/L		121	31 - 154
cis-1,2-Dichloroethene	1.0	U	10.0	8.96		ug/L		90	64 - 130
cis-1,3-Dichloropropene	1.0	U	10.0	8.29		ug/L		83	48 - 127
Cyclohexane	1.0	U	10.0	9.89		ug/L		99	42 - 135
Dibromochloromethane	1.0	U	10.0	8.74		ug/L		87	60 - 129

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

Lab Sample ID: 240-108876-1 MS
Matrix: Water
Analysis Batch: 371066

Client Sample ID: MW-30_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	7.82		ug/L		78	38 - 124
1,2-Dibromoethane	1.0	U	10.0	9.94		ug/L		99	71 - 123
1,2-Dichlorobenzene	1.0	U	10.0	8.90		ug/L		89	64 - 120
1,3-Dichlorobenzene	0.18	J	10.0	8.95		ug/L		88	62 - 120
1,4-Dichlorobenzene	1.0	U	10.0	8.61		ug/L		86	63 - 120
Dichlorodifluoromethane	1.0	U	10.0	9.19		ug/L		92	28 - 136
1,1-Dichloroethane	1.0	U	10.0	10.4		ug/L		104	63 - 136
1,2-Dichloroethane	1.0	U	10.0	9.73		ug/L		97	65 - 135
1,1-Dichloroethene	1.0	U	10.0	9.15		ug/L		91	53 - 140
1,2-Dichloropropane	1.0	U	10.0	10.8		ug/L		108	70 - 132
Ethylbenzene	1.0	U	10.0	9.15		ug/L		91	66 - 120
2-Hexanone	10	U F1	20.0	30.5	F1	ug/L		152	42 - 150
Isopropylbenzene	1.0	U	10.0	8.68		ug/L		87	59 - 120
Methyl acetate	10	U	20.0	27.1		ug/L		135	41 - 142
Methylcyclohexane	1.0	U	10.0	7.48		ug/L		75	37 - 123
Methylene Chloride	5.0	U	10.0	10.1		ug/L		101	61 - 130
4-Methyl-2-pentanone (MIBK)	10	U	20.0	25.4		ug/L		127	44 - 143
Methyl tert-butyl ether	1.0	U	10.0	8.76		ug/L		88	41 - 136
Styrene	1.0	U	10.0	9.35		ug/L		94	68 - 120
1,1,2,2-Tetrachloroethane	1.0	U	10.0	11.6		ug/L		116	60 - 137
Tetrachloroethene	1.0	U	10.0	8.89		ug/L		89	51 - 136
Toluene	1.0	U	10.0	10.4		ug/L		104	62 - 132
trans-1,2-Dichloroethene	1.0	U	10.0	9.16		ug/L		92	68 - 133
trans-1,3-Dichloropropene	1.0	U	10.0	9.36		ug/L		94	40 - 125
1,2,4-Trichlorobenzene	1.0	U	10.0	6.77		ug/L		68	30 - 126
1,1,1-Trichloroethane	1.0	U	10.0	8.24		ug/L		82	51 - 138
1,1,2-Trichloroethane	1.0	U	10.0	11.1		ug/L		111	76 - 132
Trichloroethene	1.0	U	10.0	7.74		ug/L		77	55 - 131
Trichlorofluoromethane	1.0	U	10.0	7.89		ug/L		79	37 - 174
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	7.47		ug/L		75	31 - 156
1,2,4-Trimethylbenzene	1.0	U	10.0	9.02		ug/L		90	62 - 120
1,3,5-Trimethylbenzene	1.0	U	10.0	8.92		ug/L		89	64 - 120
Vinyl chloride	1.0	U	10.0	9.54		ug/L		95	43 - 154
Xylenes, Total	2.0	U	20.0	18.8		ug/L		94	67 - 120
Diethyl ether	2.0	U	10.0	12.1		ug/L		121	65 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*59 - 120*
Dibromofluoromethane (Surr)	*90*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 121*
Toluene-d8 (Surr)	*106*		*70 - 123*

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

Lab Sample ID: 240-108876-1 MSD
Matrix: Water
Analysis Batch: 371066

Client Sample ID: MW-30_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U	20.0	22.7		ug/L		114	10 - 168	9	35
Benzene	1.0	U	10.0	9.93		ug/L		99	71 - 122	2	22
Bromodichloromethane	1.0	U	10.0	8.72		ug/L		87	64 - 125	1	27
Bromoform	1.0	U	10.0	8.09		ug/L		81	44 - 129	6	28
Bromomethane	1.0	U	10.0	6.70		ug/L		67	19 - 187	3	35
2-Butanone (MEK)	10	U	20.0	24.6		ug/L		123	37 - 156	4	35
Carbon disulfide	5.0	U	10.0	9.03		ug/L		90	43 - 144	2	33
Carbon tetrachloride	1.0	U	10.0	7.62		ug/L		76	41 - 143	4	30
Chlorobenzene	1.0	U	10.0	9.08		ug/L		91	70 - 123	3	23
Chloroethane	1.0	U	10.0	7.20		ug/L		72	11 - 189	5	35
Chloroform	1.0	U	10.0	9.26		ug/L		93	68 - 130	0	23
Chloromethane	1.0	U	10.0	12.5		ug/L		125	31 - 154	3	35
cis-1,2-Dichloroethene	1.0	U	10.0	8.99		ug/L		90	64 - 130	0	21
cis-1,3-Dichloropropene	1.0	U	10.0	8.32		ug/L		83	48 - 127	0	30
Cyclohexane	1.0	U	10.0	9.97		ug/L		100	42 - 135	1	35
Dibromochloromethane	1.0	U	10.0	8.57		ug/L		86	60 - 129	2	26
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	8.12		ug/L		81	38 - 124	4	35
1,2-Dibromoethane	1.0	U	10.0	9.90		ug/L		99	71 - 123	0	27
1,2-Dichlorobenzene	1.0	U	10.0	8.97		ug/L		90	64 - 120	1	30
1,3-Dichlorobenzene	0.18	J	10.0	8.89		ug/L		87	62 - 120	1	31
1,4-Dichlorobenzene	1.0	U	10.0	8.65		ug/L		87	63 - 120	1	28
Dichlorodifluoromethane	1.0	U	10.0	9.08		ug/L		91	28 - 136	1	35
1,1-Dichloroethane	1.0	U	10.0	10.3		ug/L		103	63 - 136	1	23
1,2-Dichloroethane	1.0	U	10.0	9.65		ug/L		96	65 - 135	1	24
1,1-Dichloroethene	1.0	U	10.0	9.04		ug/L		90	53 - 140	1	35
1,2-Dichloropropane	1.0	U	10.0	11.0		ug/L		110	70 - 132	2	26
Ethylbenzene	1.0	U	10.0	8.98		ug/L		90	66 - 120	2	24
2-Hexanone	10	U F1	20.0	29.7		ug/L		149	42 - 150	2	35
Isopropylbenzene	1.0	U	10.0	8.56		ug/L		86	59 - 120	1	31
Methyl acetate	10	U	20.0	27.3		ug/L		137	41 - 142	1	35
Methylcyclohexane	1.0	U	10.0	7.53		ug/L		75	37 - 123	1	35
Methylene Chloride	5.0	U	10.0	9.98		ug/L		100	61 - 130	1	29
4-Methyl-2-pentanone (MIBK)	10	U	20.0	25.9		ug/L		129	44 - 143	2	35
Methyl tert-butyl ether	1.0	U	10.0	8.89		ug/L		89	41 - 136	1	29
Styrene	1.0	U	10.0	9.13		ug/L		91	68 - 120	2	26
1,1,2,2-Tetrachloroethane	1.0	U	10.0	11.5		ug/L		115	60 - 137	0	31
Tetrachloroethene	1.0	U	10.0	8.56		ug/L		86	51 - 136	4	23
Toluene	1.0	U	10.0	10.1		ug/L		101	62 - 132	3	23
trans-1,2-Dichloroethene	1.0	U	10.0	9.16		ug/L		92	68 - 133	0	24
trans-1,3-Dichloropropene	1.0	U	10.0	9.43		ug/L		94	40 - 125	1	27
1,2,4-Trichlorobenzene	1.0	U	10.0	7.01		ug/L		70	30 - 126	3	35
1,1,1-Trichloroethane	1.0	U	10.0	8.29		ug/L		83	51 - 138	1	27
1,1,2-Trichloroethane	1.0	U	10.0	11.0		ug/L		110	76 - 132	1	25
Trichloroethene	1.0	U	10.0	7.84		ug/L		78	55 - 131	1	23
Trichlorofluoromethane	1.0	U	10.0	8.01		ug/L		80	37 - 174	1	35
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	7.50		ug/L		75	31 - 156	0	35
1,2,4-Trimethylbenzene	1.0	U	10.0	9.04		ug/L		90	62 - 120	0	27

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

Lab Sample ID: 240-108876-1 MSD
Matrix: Water
Analysis Batch: 371066

Client Sample ID: MW-30_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	1.0	U	10.0	8.88		ug/L		89	64 - 120	0	23
Vinyl chloride	1.0	U	10.0	9.64		ug/L		96	43 - 154	1	29
Xylenes, Total	2.0	U	20.0	18.3		ug/L		92	67 - 120	3	25
Diethyl ether	2.0	U	10.0	12.3		ug/L		123	65 - 134	2	33

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*59 - 120*
Dibromofluoromethane (Surr)	*88*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 121*
Toluene-d8 (Surr)	*103*		*70 - 123*

Lab Sample ID: MB 240-371206/6
Matrix: Water
Analysis Batch: 371206

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/12/19 10:30	1
Benzene	1.0	U	1.0	0.13	ug/L			03/12/19 10:30	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/12/19 10:30	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/12/19 10:30	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/12/19 10:30	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/12/19 10:30	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/12/19 10:30	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/12/19 10:30	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/12/19 10:30	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/12/19 10:30	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/12/19 10:30	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/12/19 10:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/12/19 10:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/12/19 10:30	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/12/19 10:30	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/12/19 10:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/12/19 10:30	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/12/19 10:30	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/12/19 10:30	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/12/19 10:30	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/12/19 10:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/12/19 10:30	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/12/19 10:30	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/12/19 10:30	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/12/19 10:30	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/12/19 10:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/12/19 10:30	1
2-Hexanone	10	U	10	0.54	ug/L			03/12/19 10:30	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/12/19 10:30	1
Methyl acetate	10	U	10	1.7	ug/L			03/12/19 10:30	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/12/19 10:30	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/12/19 10:30	1

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

Lab Sample ID: MB 240-371206/6
Matrix: Water
Analysis Batch: 371206

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/12/19 10:30	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/12/19 10:30	1
Styrene	1.0	U	1.0	0.10	ug/L			03/12/19 10:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/12/19 10:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/12/19 10:30	1
Toluene	1.0	U	1.0	0.14	ug/L			03/12/19 10:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/12/19 10:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/12/19 10:30	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/12/19 10:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/12/19 10:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/12/19 10:30	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/12/19 10:30	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/12/19 10:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/12/19 10:30	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/12/19 10:30	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/12/19 10:30	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/12/19 10:30	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/12/19 10:30	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/12/19 10:30	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/12/19 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*59 - 120*		*03/12/19 10:30*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 128*		*03/12/19 10:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 121*		*03/12/19 10:30*	*1*
Toluene-d8 (Surr)	*115*		*70 - 123*		*03/12/19 10:30*	*1*

Lab Sample ID: LCS 240-371206/4
Matrix: Water
Analysis Batch: 371206

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	25.1		ug/L		125	21 - 162
Benzene	10.0	10.7		ug/L		107	80 - 123
Bromodichloromethane	10.0	9.50		ug/L		95	77 - 125
Bromoform	10.0	6.83		ug/L		68	49 - 141
Bromomethane	10.0	10.4		ug/L		104	41 - 175
2-Butanone (MEK)	20.0	26.8		ug/L		134	39 - 163
Carbon disulfide	10.0	10.8		ug/L		108	60 - 138
Carbon tetrachloride	10.0	8.82		ug/L		88	63 - 140
Chlorobenzene	10.0	8.82		ug/L		88	80 - 121
Chloroethane	10.0	14.6		ug/L		146	33 - 173
Chloroform	10.0	10.1		ug/L		101	79 - 127
Chloromethane	10.0	20.7	*	ug/L		207	54 - 143
cis-1,2-Dichloroethene	10.0	9.40		ug/L		94	76 - 128
cis-1,3-Dichloropropene	10.0	10.1		ug/L		101	64 - 132
Cyclohexane	10.0	14.9	*	ug/L		149	58 - 145
Dibromochloromethane	10.0	8.90		ug/L		89	70 - 132

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

Lab Sample ID: LCS 240-371206/4
Matrix: Water
Analysis Batch: 371206

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	10.0	7.38		ug/L		74	46 - 132
1,2-Dibromoethane	10.0	9.08		ug/L		91	77 - 123
1,2-Dichlorobenzene	10.0	8.49		ug/L		85	78 - 120
1,3-Dichlorobenzene	10.0	8.39		ug/L		84	78 - 120
1,4-Dichlorobenzene	10.0	8.46		ug/L		85	78 - 120
Dichlorodifluoromethane	10.0	9.46		ug/L		95	29 - 148
1,1-Dichloroethane	10.0	12.0		ug/L		120	75 - 133
1,2-Dichloroethane	10.0	10.3		ug/L		103	71 - 135
1,1-Dichloroethene	10.0	10.7		ug/L		107	65 - 139
1,2-Dichloropropane	10.0	12.8		ug/L		128	78 - 133
Ethylbenzene	10.0	9.12		ug/L		91	80 - 120
2-Hexanone	20.0	27.4		ug/L		137	43 - 148
Isopropylbenzene	10.0	9.41		ug/L		94	74 - 120
Methyl acetate	20.0	28.1		ug/L		141	52 - 145
Methylcyclohexane	10.0	10.3		ug/L		103	60 - 125
Methylene Chloride	10.0	10.6		ug/L		106	70 - 134
4-Methyl-2-pentanone (MIBK)	20.0	26.0		ug/L		130	49 - 143
Methyl tert-butyl ether	10.0	10.3		ug/L		103	51 - 133
Styrene	10.0	9.07		ug/L		91	79 - 120
1,1,2,2-Tetrachloroethane	10.0	12.8		ug/L		128	65 - 139
Tetrachloroethene	10.0	7.57		ug/L		76	74 - 130
Toluene	10.0	10.3		ug/L		103	78 - 129
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	78 - 133
trans-1,3-Dichloropropene	10.0	10.1		ug/L		101	55 - 128
1,2,4-Trichlorobenzene	10.0	5.98		ug/L		60	42 - 133
1,1,1-Trichloroethane	10.0	8.66		ug/L		87	69 - 134
1,1,2-Trichloroethane	10.0	10.0		ug/L		100	78 - 133
Trichloroethene	10.0	7.62		ug/L		76	76 - 125
Trichlorofluoromethane	10.0	9.94		ug/L		99	51 - 164
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	7.68		ug/L		77	50 - 156
1,2,4-Trimethylbenzene	10.0	10.4		ug/L		104	74 - 120
1,3,5-Trimethylbenzene	10.0	10.8		ug/L		108	75 - 121
Vinyl chloride	10.0	14.0		ug/L		140	58 - 143
Xylenes, Total	20.0	19.1		ug/L		96	80 - 120
Diethyl ether	10.0	14.4		ug/L		144	70 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*59 - 120*
Dibromofluoromethane (Surr)	*96*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 121*
Toluene-d8 (Surr)	*114*		*70 - 123*

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

Lab Sample ID: 240-108876-2 MS
Matrix: Water
Analysis Batch: 371206

Client Sample ID: MW-31_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U	20.0	25.9		ug/L		130	10 - 168
Benzene	1.0	U	10.0	10.5		ug/L		105	71 - 122
Bromodichloromethane	1.0	U	10.0	9.59		ug/L		96	64 - 125
Bromoform	1.0	U	10.0	7.13		ug/L		71	44 - 129
Bromomethane	1.0	U	10.0	10.1		ug/L		101	19 - 187
2-Butanone (MEK)	10	U	20.0	25.7		ug/L		129	37 - 156
Carbon disulfide	5.0	U	10.0	10.0		ug/L		100	43 - 144
Carbon tetrachloride	1.0	U	10.0	7.20		ug/L		72	41 - 143
Chlorobenzene	1.0	U	10.0	8.96		ug/L		90	70 - 123
Chloroethane	1.0	U	10.0	12.8		ug/L		128	11 - 189
Chloroform	1.0	U	10.0	10.1		ug/L		101	68 - 130
Chloromethane	1.0	U F1 *	10.0	13.7		ug/L		137	31 - 154
cis-1,2-Dichloroethene	1.0	U	10.0	9.66		ug/L		97	64 - 130
cis-1,3-Dichloropropene	1.0	U	10.0	9.27		ug/L		93	48 - 127
Cyclohexane	1.0	U F1 *	10.0	10.5		ug/L		105	42 - 135
Dibromochloromethane	1.0	U	10.0	9.11		ug/L		91	60 - 129
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	8.79		ug/L		88	38 - 124
1,2-Dibromoethane	1.0	U	10.0	8.46		ug/L		85	71 - 123
1,2-Dichlorobenzene	1.0	U	10.0	8.71		ug/L		87	64 - 120
1,3-Dichlorobenzene	1.0	U	10.0	8.52		ug/L		85	62 - 120
1,4-Dichlorobenzene	1.0	U	10.0	8.29		ug/L		83	63 - 120
Dichlorodifluoromethane	1.0	U	10.0	7.96		ug/L		80	28 - 136
1,1-Dichloroethane	1.0	U	10.0	11.8		ug/L		118	63 - 136
1,2-Dichloroethane	1.0	U	10.0	9.66		ug/L		97	65 - 135
1,1-Dichloroethene	1.0	U	10.0	9.38		ug/L		94	53 - 140
1,2-Dichloropropane	1.0	U F1	10.0	12.1		ug/L		121	70 - 132
Ethylbenzene	1.0	U	10.0	8.50		ug/L		85	66 - 120
2-Hexanone	10	U F1	20.0	29.5		ug/L		147	42 - 150
Isopropylbenzene	1.0	U	10.0	8.65		ug/L		87	59 - 120
Methyl acetate	10	U F1	20.0	27.9		ug/L		139	41 - 142
Methylcyclohexane	1.0	U	10.0	7.09		ug/L		71	37 - 123
Methylene Chloride	5.0	U	10.0	10.4		ug/L		104	61 - 130
4-Methyl-2-pentanone (MIBK)	10	U F1	20.0	26.4		ug/L		132	44 - 143
Methyl tert-butyl ether	1.0	U	10.0	10.1		ug/L		101	41 - 136
Styrene	1.0	U	10.0	8.77		ug/L		88	68 - 120
1,1,2,2-Tetrachloroethane	1.0	U F1	10.0	13.5		ug/L		135	60 - 137
Tetrachloroethene	1.0	U	10.0	6.80		ug/L		68	51 - 136
Toluene	1.0	U	10.0	10.3		ug/L		103	62 - 132
trans-1,2-Dichloroethene	1.0	U	10.0	9.71		ug/L		97	68 - 133
trans-1,3-Dichloropropene	1.0	U	10.0	9.69		ug/L		97	40 - 125
1,2,4-Trichlorobenzene	1.0	U	10.0	6.30		ug/L		63	30 - 126
1,1,1-Trichloroethane	1.0	U	10.0	8.11		ug/L		81	51 - 138
1,1,2-Trichloroethane	1.0	U	10.0	9.75		ug/L		98	76 - 132
Trichloroethene	1.0	U	10.0	7.03		ug/L		70	55 - 131
Trichlorofluoromethane	1.0	U	10.0	8.54		ug/L		85	37 - 174
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U F2	10.0	5.49		ug/L		55	31 - 156
1,2,4-Trimethylbenzene	1.0	U	10.0	9.51		ug/L		95	62 - 120

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

Lab Sample ID: 240-108876-2 MS
Matrix: Water
Analysis Batch: 371206

Client Sample ID: MW-31_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	1.0	U	10.0	9.71		ug/L		97	64 - 120
Vinyl chloride	1.0	U F1	10.0	12.4		ug/L		124	43 - 154
Xylenes, Total	2.0	U	20.0	19.0		ug/L		95	67 - 120
Diethyl ether	2.0	U F1	10.0	14.9	F1	ug/L		149	65 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*59 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 121*
Toluene-d8 (Surr)	*115*		*70 - 123*

Lab Sample ID: 240-108876-2 MSD
Matrix: Water
Analysis Batch: 371206

Client Sample ID: MW-31_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U	20.0	27.1		ug/L		135	10 - 168	4	35
Benzene	1.0	U	10.0	11.4		ug/L		114	71 - 122	8	22
Bromodichloromethane	1.0	U	10.0	10.2		ug/L		102	64 - 125	6	27
Bromoform	1.0	U	10.0	7.60		ug/L		76	44 - 129	6	28
Bromomethane	1.0	U	10.0	11.9		ug/L		119	19 - 187	17	35
2-Butanone (MEK)	10	U	20.0	27.5		ug/L		137	37 - 156	7	35
Carbon disulfide	5.0	U	10.0	12.4		ug/L		124	43 - 144	21	33
Carbon tetrachloride	1.0	U	10.0	9.13		ug/L		91	41 - 143	24	30
Chlorobenzene	1.0	U	10.0	9.61		ug/L		96	70 - 123	7	23
Chloroethane	1.0	U	10.0	16.9		ug/L		169	11 - 189	28	35
Chloroform	1.0	U	10.0	11.1		ug/L		111	68 - 130	9	23
Chloromethane	1.0	U F1 *	10.0	17.1	F1	ug/L		171	31 - 154	22	35
cis-1,2-Dichloroethene	1.0	U	10.0	10.6		ug/L		106	64 - 130	9	21
cis-1,3-Dichloropropene	1.0	U	10.0	10.2		ug/L		102	48 - 127	9	30
Cyclohexane	1.0	U F1 *	10.0	14.8	F1	ug/L		148	42 - 135	34	35
Dibromochloromethane	1.0	U	10.0	9.82		ug/L		98	60 - 129	8	26
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	8.13		ug/L		81	38 - 124	8	35
1,2-Dibromoethane	1.0	U	10.0	10.0		ug/L		100	71 - 123	17	27
1,2-Dichlorobenzene	1.0	U	10.0	9.06		ug/L		91	64 - 120	4	30
1,3-Dichlorobenzene	1.0	U	10.0	8.96		ug/L		90	62 - 120	5	31
1,4-Dichlorobenzene	1.0	U	10.0	8.81		ug/L		88	63 - 120	6	28
Dichlorodifluoromethane	1.0	U	10.0	11.0		ug/L		110	28 - 136	32	35
1,1-Dichloroethane	1.0	U	10.0	13.3		ug/L		133	63 - 136	12	23
1,2-Dichloroethane	1.0	U	10.0	11.3		ug/L		113	65 - 135	15	24
1,1-Dichloroethene	1.0	U	10.0	11.5		ug/L		115	53 - 140	20	35
1,2-Dichloropropane	1.0	U F1	10.0	13.6	F1	ug/L		136	70 - 132	11	26
Ethylbenzene	1.0	U	10.0	9.59		ug/L		96	66 - 120	12	24
2-Hexanone	10	U F1	20.0	30.7	F1	ug/L		154	42 - 150	4	35
Isopropylbenzene	1.0	U	10.0	9.79		ug/L		98	59 - 120	12	31
Methyl acetate	10	U F1	20.0	29.9	F1	ug/L		150	41 - 142	7	35
Methylcyclohexane	1.0	U	10.0	9.51		ug/L		95	37 - 123	29	35
Methylene Chloride	5.0	U	10.0	12.3		ug/L		123	61 - 130	17	29

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

Lab Sample ID: 240-108876-2 MSD
Matrix: Water
Analysis Batch: 371206

Client Sample ID: MW-31_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	10	U F1	20.0	28.7	F1	ug/L		144	44 - 143	8	35
Methyl tert-butyl ether	1.0	U	10.0	11.6		ug/L		116	41 - 136	14	29
Styrene	1.0	U	10.0	9.52		ug/L		95	68 - 120	8	26
1,1,2,2-Tetrachloroethane	1.0	U F1	10.0	14.1	F1	ug/L		141	60 - 137	5	31
Tetrachloroethene	1.0	U	10.0	7.92		ug/L		79	51 - 136	15	23
Toluene	1.0	U	10.0	11.6		ug/L		116	62 - 132	12	23
trans-1,2-Dichloroethene	1.0	U	10.0	10.6		ug/L		106	68 - 133	9	24
trans-1,3-Dichloropropene	1.0	U	10.0	10.5		ug/L		105	40 - 125	8	27
1,2,4-Trichlorobenzene	1.0	U	10.0	6.52		ug/L		65	30 - 126	3	35
1,1,1-Trichloroethane	1.0	U	10.0	9.49		ug/L		95	51 - 138	16	27
1,1,2-Trichloroethane	1.0	U	10.0	10.6		ug/L		106	76 - 132	9	25
Trichloroethene	1.0	U	10.0	8.02		ug/L		80	55 - 131	13	23
Trichlorofluoromethane	1.0	U	10.0	11.2		ug/L		112	37 - 174	27	35
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U F2	10.0	7.89	F2	ug/L		79	31 - 156	36	35
1,2,4-Trimethylbenzene	1.0	U	10.0	10.9		ug/L		109	62 - 120	14	27
1,3,5-Trimethylbenzene	1.0	U	10.0	11.0		ug/L		110	64 - 120	12	23
Vinyl chloride	1.0	U F1	10.0	16.3	F1	ug/L		163	43 - 154	27	29
Xylenes, Total	2.0	U	20.0	20.6		ug/L		103	67 - 120	8	25
Diethyl ether	2.0	U F1	10.0	16.2	F1	ug/L		162	65 - 134	8	33

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*59 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 121*
Toluene-d8 (Surr)	*118*		*70 - 123*

Lab Sample ID: MB 240-371207/6
Matrix: Water
Analysis Batch: 371207

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/12/19 10:01	1
Benzene	1.0	U	1.0	0.13	ug/L			03/12/19 10:01	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/12/19 10:01	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/12/19 10:01	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/12/19 10:01	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/12/19 10:01	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/12/19 10:01	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/12/19 10:01	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/12/19 10:01	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/12/19 10:01	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/12/19 10:01	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/12/19 10:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/12/19 10:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/12/19 10:01	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/12/19 10:01	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/12/19 10:01	1

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

Lab Sample ID: MB 240-371207/6
Matrix: Water
Analysis Batch: 371207

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/12/19 10:01	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/12/19 10:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/12/19 10:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/12/19 10:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/12/19 10:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/12/19 10:01	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/12/19 10:01	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/12/19 10:01	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/12/19 10:01	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/12/19 10:01	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/12/19 10:01	1
2-Hexanone	10	U	10	0.54	ug/L			03/12/19 10:01	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/12/19 10:01	1
Methyl acetate	10	U	10	1.7	ug/L			03/12/19 10:01	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/12/19 10:01	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/12/19 10:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/12/19 10:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/12/19 10:01	1
Styrene	1.0	U	1.0	0.10	ug/L			03/12/19 10:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/12/19 10:01	1
Tetrachloroethene	0.193	J	1.0	0.15	ug/L			03/12/19 10:01	1
Toluene	1.0	U	1.0	0.14	ug/L			03/12/19 10:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/12/19 10:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/12/19 10:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/12/19 10:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/12/19 10:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/12/19 10:01	1
Trichloroethene	0.124	J	1.0	0.10	ug/L			03/12/19 10:01	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/12/19 10:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/12/19 10:01	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/12/19 10:01	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/12/19 10:01	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/12/19 10:01	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/12/19 10:01	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/12/19 10:01	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/12/19 10:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*59 - 120*		*03/12/19 10:01*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 128*		*03/12/19 10:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 121*		*03/12/19 10:01*	*1*
Toluene-d8 (Surr)	*83*		*70 - 123*		*03/12/19 10:01*	*1*

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

Lab Sample ID: LCS 240-371207/4
Matrix: Water
Analysis Batch: 371207

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	14.0		ug/L		70	21 - 162
Benzene	10.0	10.0		ug/L		100	80 - 123
Bromodichloromethane	10.0	8.38		ug/L		84	77 - 125
Bromoform	10.0	5.99		ug/L		60	49 - 141
Bromomethane	10.0	7.38		ug/L		74	41 - 175
2-Butanone (MEK)	20.0	14.1		ug/L		70	39 - 163
Carbon disulfide	10.0	7.30		ug/L		73	60 - 138
Carbon tetrachloride	10.0	9.84		ug/L		98	63 - 140
Chlorobenzene	10.0	10.4		ug/L		104	80 - 121
Chloroethane	10.0	7.61		ug/L		76	33 - 173
Chloroform	10.0	10.6		ug/L		106	79 - 127
Chloromethane	10.0	7.99		ug/L		80	54 - 143
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	76 - 128
cis-1,3-Dichloropropene	10.0	7.64		ug/L		76	64 - 132
Cyclohexane	10.0	9.24		ug/L		92	58 - 145
Dibromochloromethane	10.0	8.12		ug/L		81	70 - 132
1,2-Dibromo-3-Chloropropane	10.0	4.88		ug/L		49	46 - 132
1,2-Dibromoethane	10.0	8.29		ug/L		83	77 - 123
1,2-Dichlorobenzene	10.0	10.0		ug/L		100	78 - 120
1,3-Dichlorobenzene	10.0	9.92		ug/L		99	78 - 120
1,4-Dichlorobenzene	10.0	9.94		ug/L		99	78 - 120
Dichlorodifluoromethane	10.0	8.57		ug/L		86	29 - 148
1,1-Dichloroethane	10.0	9.92		ug/L		99	75 - 133
1,2-Dichloroethane	10.0	9.62		ug/L		96	71 - 135
1,1-Dichloroethene	10.0	8.57		ug/L		86	65 - 139
1,2-Dichloropropane	10.0	9.37		ug/L		94	78 - 133
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
2-Hexanone	20.0	11.7		ug/L		59	43 - 148
Isopropylbenzene	10.0	10.2		ug/L		102	74 - 120
Methyl acetate	20.0	13.0		ug/L		65	52 - 145
Methylcyclohexane	10.0	9.13		ug/L		91	60 - 125
Methylene Chloride	10.0	9.38		ug/L		94	70 - 134
4-Methyl-2-pentanone (MIBK)	20.0	11.2		ug/L		56	49 - 143
Methyl tert-butyl ether	10.0	7.01		ug/L		70	51 - 133
Styrene	10.0	9.59		ug/L		96	79 - 120
1,1,2,2-Tetrachloroethane	10.0	7.50		ug/L		75	65 - 139
Tetrachloroethene	10.0	11.4		ug/L		114	74 - 130
Toluene	10.0	10.2		ug/L		102	78 - 129
trans-1,2-Dichloroethene	10.0	11.0		ug/L		110	78 - 133
trans-1,3-Dichloropropene	10.0	6.52		ug/L		65	55 - 128
1,2,4-Trichlorobenzene	10.0	8.93		ug/L		89	42 - 133
1,1,1-Trichloroethane	10.0	11.0		ug/L		110	69 - 134
1,1,2-Trichloroethane	10.0	9.41		ug/L		94	78 - 133
Trichloroethene	10.0	10.3		ug/L		103	76 - 125
Trichlorofluoromethane	10.0	9.04		ug/L		90	51 - 164
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.3		ug/L		103	50 - 156
1,2,4-Trimethylbenzene	10.0	9.67		ug/L		97	74 - 120

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

Lab Sample ID: LCS 240-371207/4
Matrix: Water
Analysis Batch: 371207

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	10.0	9.74		ug/L		97	75 - 121
Vinyl chloride	10.0	8.19		ug/L		82	58 - 143
Xylenes, Total	20.0	20.0		ug/L		100	80 - 120
Diethyl ether	10.0	8.66		ug/L		87	70 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*59 - 120*
Dibromofluoromethane (Surr)	*87*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*79*		*70 - 121*
Toluene-d8 (Surr)	*83*		*70 - 123*

Lab Sample ID: 240-108876-4 MS
Matrix: Water
Analysis Batch: 371207

Client Sample ID: MW-15-61D_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U	20.0	17.9		ug/L		89	10 - 168
Benzene	1.0	U	10.0	9.42		ug/L		94	71 - 122
Bromodichloromethane	1.0	U	10.0	7.61		ug/L		76	64 - 125
Bromoform	1.0	U	10.0	5.63		ug/L		56	44 - 129
Bromomethane	1.0	U	10.0	7.29		ug/L		73	19 - 187
2-Butanone (MEK)	10	U	20.0	12.3		ug/L		62	37 - 156
Carbon disulfide	5.0	U	10.0	8.89		ug/L		89	43 - 144
Carbon tetrachloride	1.0	U	10.0	8.06		ug/L		81	41 - 143
Chlorobenzene	1.0	U	10.0	9.33		ug/L		93	70 - 123
Chloroethane	1.0	U	10.0	7.90		ug/L		79	11 - 189
Chloroform	1.0	U	10.0	9.99		ug/L		100	68 - 130
Chloromethane	1.0	U	10.0	3.39		ug/L		34	31 - 154
cis-1,2-Dichloroethene	1.0	U	10.0	9.90		ug/L		99	64 - 130
cis-1,3-Dichloropropene	1.0	U	10.0	5.98		ug/L		60	48 - 127
Cyclohexane	1.0	U	10.0	6.37		ug/L		64	42 - 135
Dibromochloromethane	1.0	U	10.0	7.20		ug/L		72	60 - 129
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	4.48		ug/L		45	38 - 124
1,2-Dibromoethane	1.0	U	10.0	7.45		ug/L		75	71 - 123
1,2-Dichlorobenzene	1.0	U	10.0	9.07		ug/L		91	64 - 120
1,3-Dichlorobenzene	1.0	U	10.0	8.67		ug/L		87	62 - 120
1,4-Dichlorobenzene	1.0	U	10.0	8.80		ug/L		88	63 - 120
Dichlorodifluoromethane	1.0	U	10.0	7.94		ug/L		79	28 - 136
1,1-Dichloroethane	1.0	U	10.0	9.40		ug/L		94	63 - 136
1,2-Dichloroethane	1.0	U	10.0	8.95		ug/L		89	65 - 135
1,1-Dichloroethene	1.0	U	10.0	8.00		ug/L		80	53 - 140
1,2-Dichloropropane	1.0	U	10.0	8.53		ug/L		85	70 - 132
Ethylbenzene	1.0	U	10.0	8.78		ug/L		88	66 - 120
2-Hexanone	10	U	20.0	10.7		ug/L		53	42 - 150
Isopropylbenzene	1.0	U	10.0	8.70		ug/L		87	59 - 120
Methyl acetate	10	U	20.0	12.3		ug/L		61	41 - 142
Methylcyclohexane	1.0	U	10.0	5.85		ug/L		58	37 - 123
Methylene Chloride	5.0	U	10.0	8.50		ug/L		85	61 - 130

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

Lab Sample ID: 240-108876-4 MS
Matrix: Water
Analysis Batch: 371207

Client Sample ID: MW-15-61D_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	10	U	20.0	10.0		ug/L		50	44 - 143
Methyl tert-butyl ether	1.0	U	10.0	6.39		ug/L		64	41 - 136
Styrene	1.0	U	10.0	8.64		ug/L		86	68 - 120
1,1,2,2-Tetrachloroethane	1.0	U	10.0	6.77		ug/L		68	60 - 137
Tetrachloroethene	1.0	U	10.0	9.30		ug/L		93	51 - 136
Toluene	1.0	U	10.0	9.16		ug/L		92	62 - 132
trans-1,2-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	68 - 133
trans-1,3-Dichloropropene	1.0	U	10.0	5.13		ug/L		51	40 - 125
1,2,4-Trichlorobenzene	1.0	U	10.0	7.46		ug/L		75	30 - 126
1,1,1-Trichloroethane	1.0	U	10.0	9.78		ug/L		98	51 - 138
1,1,2-Trichloroethane	1.0	U	10.0	8.58		ug/L		86	76 - 132
Trichloroethene	1.0	U	10.0	9.17		ug/L		92	55 - 131
Trichlorofluoromethane	1.0	U	10.0	8.89		ug/L		89	37 - 174
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	7.47		ug/L		75	31 - 156
1,2,4-Trimethylbenzene	1.0	U	10.0	8.31		ug/L		83	62 - 120
1,3,5-Trimethylbenzene	1.0	U	10.0	8.16		ug/L		82	64 - 120
Vinyl chloride	1.0	U	10.0	9.09		ug/L		91	43 - 154
Xylenes, Total	2.0	U	20.0	17.9		ug/L		90	67 - 120
Diethyl ether	2.0	U	10.0	8.11		ug/L		81	65 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*59 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 121*
Toluene-d8 (Surr)	*86*		*70 - 123*

Lab Sample ID: 240-108876-4 MSD
Matrix: Water
Analysis Batch: 371207

Client Sample ID: MW-15-61D_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U	20.0	17.9		ug/L		90	10 - 168	0	35
Benzene	1.0	U	10.0	9.28		ug/L		93	71 - 122	2	22
Bromodichloromethane	1.0	U	10.0	7.65		ug/L		77	64 - 125	1	27
Bromoform	1.0	U	10.0	5.67		ug/L		57	44 - 129	1	28
Bromomethane	1.0	U	10.0	6.37		ug/L		64	19 - 187	13	35
2-Butanone (MEK)	10	U	20.0	12.4		ug/L		62	37 - 156	0	35
Carbon disulfide	5.0	U	10.0	8.75		ug/L		87	43 - 144	2	33
Carbon tetrachloride	1.0	U	10.0	8.70		ug/L		87	41 - 143	8	30
Chlorobenzene	1.0	U	10.0	9.48		ug/L		95	70 - 123	2	23
Chloroethane	1.0	U	10.0	7.08		ug/L		71	11 - 189	11	35
Chloroform	1.0	U	10.0	9.83		ug/L		98	68 - 130	2	23
Chloromethane	1.0	U	10.0	3.84		ug/L		38	31 - 154	12	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.75		ug/L		97	64 - 130	2	21
cis-1,3-Dichloropropene	1.0	U	10.0	6.23		ug/L		62	48 - 127	4	30
Cyclohexane	1.0	U	10.0	7.84		ug/L		78	42 - 135	21	35
Dibromochloromethane	1.0	U	10.0	7.37		ug/L		74	60 - 129	2	26

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

Lab Sample ID: 240-108876-4 MSD
Matrix: Water
Analysis Batch: 371207

Client Sample ID: MW-15-61D_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	4.45		ug/L		45	38 - 124	1	35
1,2-Dibromoethane	1.0	U	10.0	7.42		ug/L		74	71 - 123	0	27
1,2-Dichlorobenzene	1.0	U	10.0	9.33		ug/L		93	64 - 120	3	30
1,3-Dichlorobenzene	1.0	U	10.0	9.10		ug/L		91	62 - 120	5	31
1,4-Dichlorobenzene	1.0	U	10.0	9.14		ug/L		91	63 - 120	4	28
Dichlorodifluoromethane	1.0	U	10.0	8.59		ug/L		86	28 - 136	8	35
1,1-Dichloroethane	1.0	U	10.0	9.36		ug/L		94	63 - 136	0	23
1,2-Dichloroethane	1.0	U	10.0	8.94		ug/L		89	65 - 135	0	24
1,1-Dichloroethene	1.0	U	10.0	8.20		ug/L		82	53 - 140	3	35
1,2-Dichloropropane	1.0	U	10.0	8.64		ug/L		86	70 - 132	1	26
Ethylbenzene	1.0	U	10.0	9.16		ug/L		92	66 - 120	4	24
2-Hexanone	10	U	20.0	10.6		ug/L		53	42 - 150	0	35
Isopropylbenzene	1.0	U	10.0	9.30		ug/L		93	59 - 120	7	31
Methyl acetate	10	U	20.0	11.7		ug/L		59	41 - 142	5	35
Methylcyclohexane	1.0	U	10.0	7.84		ug/L		78	37 - 123	29	35
Methylene Chloride	5.0	U	10.0	8.20		ug/L		82	61 - 130	4	29
4-Methyl-2-pentanone (MIBK)	10	U	20.0	9.89	J	ug/L		49	44 - 143	1	35
Methyl tert-butyl ether	1.0	U	10.0	6.22		ug/L		62	41 - 136	3	29
Styrene	1.0	U	10.0	8.68		ug/L		87	68 - 120	0	26
1,1,2,2-Tetrachloroethane	1.0	U	10.0	6.86		ug/L		69	60 - 137	1	31
Tetrachloroethene	1.0	U	10.0	10.1		ug/L		101	51 - 136	9	23
Toluene	1.0	U	10.0	9.26		ug/L		93	62 - 132	1	23
trans-1,2-Dichloroethene	1.0	U	10.0	10.1		ug/L		101	68 - 133	1	24
trans-1,3-Dichloropropene	1.0	U	10.0	5.34		ug/L		53	40 - 125	4	27
1,2,4-Trichlorobenzene	1.0	U	10.0	7.98		ug/L		80	30 - 126	7	35
1,1,1-Trichloroethane	1.0	U	10.0	9.99		ug/L		100	51 - 138	2	27
1,1,2-Trichloroethane	1.0	U	10.0	8.58		ug/L		86	76 - 132	0	25
Trichloroethene	1.0	U	10.0	9.34		ug/L		93	55 - 131	2	23
Trichlorofluoromethane	1.0	U	10.0	8.81		ug/L		88	37 - 174	1	35
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	8.96		ug/L		90	31 - 156	18	35
1,2,4-Trimethylbenzene	1.0	U	10.0	8.96		ug/L		90	62 - 120	7	27
1,3,5-Trimethylbenzene	1.0	U	10.0	8.89		ug/L		89	64 - 120	9	23
Vinyl chloride	1.0	U	10.0	8.53		ug/L		85	43 - 154	6	29
Xylenes, Total	2.0	U	20.0	18.4		ug/L		92	67 - 120	2	25
Diethyl ether	2.0	U	10.0	7.85		ug/L		79	65 - 134	3	33

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*59 - 120*
Dibromofluoromethane (Surr)	*91*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 121*
Toluene-d8 (Surr)	*85*		*70 - 123*

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

Lab Sample ID: MB 240-371376/6
Matrix: Water
Analysis Batch: 371376

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/13/19 11:40	1
Benzene	1.0	U	1.0	0.13	ug/L			03/13/19 11:40	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/13/19 11:40	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/13/19 11:40	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/13/19 11:40	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/13/19 11:40	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/13/19 11:40	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/13/19 11:40	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/13/19 11:40	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/13/19 11:40	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/13/19 11:40	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/13/19 11:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/13/19 11:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/13/19 11:40	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/13/19 11:40	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/13/19 11:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/13/19 11:40	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/13/19 11:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 11:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 11:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/13/19 11:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/13/19 11:40	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/13/19 11:40	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/13/19 11:40	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 11:40	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/13/19 11:40	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/13/19 11:40	1
2-Hexanone	10	U	10	0.54	ug/L			03/13/19 11:40	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/13/19 11:40	1
Methyl acetate	10	U	10	1.7	ug/L			03/13/19 11:40	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/13/19 11:40	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/13/19 11:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/13/19 11:40	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/13/19 11:40	1
Styrene	1.0	U	1.0	0.10	ug/L			03/13/19 11:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/13/19 11:40	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/13/19 11:40	1
Toluene	1.0	U	1.0	0.14	ug/L			03/13/19 11:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 11:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/13/19 11:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/13/19 11:40	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/13/19 11:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/13/19 11:40	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/13/19 11:40	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/13/19 11:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/13/19 11:40	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/13/19 11:40	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/13/19 11:40	1

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

Lab Sample ID: MB 240-371376/6
Matrix: Water
Analysis Batch: 371376

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/13/19 11:40	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/13/19 11:40	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/13/19 11:40	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/13/19 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*59 - 120*		*03/13/19 11:40*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 128*		*03/13/19 11:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 121*		*03/13/19 11:40*	*1*
Toluene-d8 (Surr)	*113*		*70 - 123*		*03/13/19 11:40*	*1*

Lab Sample ID: LCS 240-371376/4
Matrix: Water
Analysis Batch: 371376

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	28.6		ug/L		143	21 - 162
Benzene	10.0	12.1		ug/L		121	80 - 123
Bromodichloromethane	10.0	10.9		ug/L		109	77 - 125
Bromoform	10.0	8.39		ug/L		84	49 - 141
Bromomethane	10.0	12.0		ug/L		120	41 - 175
2-Butanone (MEK)	20.0	32.4		ug/L		162	39 - 163
Carbon disulfide	10.0	12.6		ug/L		126	60 - 138
Carbon tetrachloride	10.0	9.59		ug/L		96	63 - 140
Chlorobenzene	10.0	10.5		ug/L		105	80 - 121
Chloroethane	10.0	16.1		ug/L		161	33 - 173
Chloroform	10.0	11.7		ug/L		117	79 - 127
Chloromethane	10.0	17.0	*	ug/L		170	54 - 143
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	76 - 128
cis-1,3-Dichloropropene	10.0	11.9		ug/L		119	64 - 132
Cyclohexane	10.0	15.8	*	ug/L		158	58 - 145
Dibromochloromethane	10.0	10.8		ug/L		108	70 - 132
1,2-Dibromo-3-Chloropropane	10.0	10.4		ug/L		104	46 - 132
1,2-Dibromoethane	10.0	10.8		ug/L		108	77 - 123
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	78 - 120
1,3-Dichlorobenzene	10.0	9.98		ug/L		100	78 - 120
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	78 - 120
Dichlorodifluoromethane	10.0	10.3		ug/L		103	29 - 148
1,1-Dichloroethane	10.0	13.8	*	ug/L		138	75 - 133
1,2-Dichloroethane	10.0	11.5		ug/L		115	71 - 135
1,1-Dichloroethene	10.0	11.9		ug/L		119	65 - 139
1,2-Dichloropropane	10.0	15.1	*	ug/L		151	78 - 133
Ethylbenzene	10.0	10.9		ug/L		109	80 - 120
2-Hexanone	20.0	35.0	*	ug/L		175	43 - 148
Isopropylbenzene	10.0	11.3		ug/L		113	74 - 120
Methyl acetate	20.0	32.9	*	ug/L		164	52 - 145
Methylcyclohexane	10.0	11.5		ug/L		115	60 - 125
Methylene Chloride	10.0	14.2	*	ug/L		142	70 - 134

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

Lab Sample ID: LCS 240-371376/4
Matrix: Water
Analysis Batch: 371376

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	20.0	30.8	*	ug/L		154	49 - 143
Methyl tert-butyl ether	10.0	11.7		ug/L		117	51 - 133
Styrene	10.0	10.7		ug/L		107	79 - 120
1,1,2,2-Tetrachloroethane	10.0	15.5	*	ug/L		155	65 - 139
Tetrachloroethene	10.0	8.56		ug/L		86	74 - 130
Toluene	10.0	12.4		ug/L		124	78 - 129
trans-1,2-Dichloroethene	10.0	11.1		ug/L		111	78 - 133
trans-1,3-Dichloropropene	10.0	11.9		ug/L		119	55 - 128
1,2,4-Trichlorobenzene	10.0	7.67		ug/L		77	42 - 133
1,1,1-Trichloroethane	10.0	9.91		ug/L		99	69 - 134
1,1,2-Trichloroethane	10.0	12.1		ug/L		121	78 - 133
Trichloroethene	10.0	8.52		ug/L		85	76 - 125
Trichlorofluoromethane	10.0	11.0		ug/L		110	51 - 164
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.15		ug/L		81	50 - 156
1,2,4-Trimethylbenzene	10.0	12.9	*	ug/L		129	74 - 120
1,3,5-Trimethylbenzene	10.0	12.8	*	ug/L		128	75 - 121
Vinyl chloride	10.0	15.7	*	ug/L		157	58 - 143
Xylenes, Total	20.0	23.3		ug/L		117	80 - 120
Diethyl ether	10.0	16.6	*	ug/L		166	70 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*59 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 121*
Toluene-d8 (Surr)	*124*	*X*	*70 - 123*

Lab Sample ID: MB 240-371378/6
Matrix: Water
Analysis Batch: 371378

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/13/19 10:15	1
Benzene	1.0	U	1.0	0.13	ug/L			03/13/19 10:15	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/13/19 10:15	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/13/19 10:15	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/13/19 10:15	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			03/13/19 10:15	1
Carbon disulfide	5.0	U	5.0	0.28	ug/L			03/13/19 10:15	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/13/19 10:15	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/13/19 10:15	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/13/19 10:15	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/13/19 10:15	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/13/19 10:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/13/19 10:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/13/19 10:15	1
Cyclohexane	1.0	U	1.0	0.24	ug/L			03/13/19 10:15	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/13/19 10:15	1

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

Lab Sample ID: MB 240-371378/6
Matrix: Water
Analysis Batch: 371378

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.91	ug/L			03/13/19 10:15	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/13/19 10:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 10:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/13/19 10:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/13/19 10:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/13/19 10:15	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/13/19 10:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/13/19 10:15	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 10:15	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/13/19 10:15	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/13/19 10:15	1
2-Hexanone	10	U	10	0.54	ug/L			03/13/19 10:15	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/13/19 10:15	1
Methyl acetate	10	U	10	1.7	ug/L			03/13/19 10:15	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			03/13/19 10:15	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/13/19 10:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			03/13/19 10:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/13/19 10:15	1
Styrene	1.0	U	1.0	0.10	ug/L			03/13/19 10:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/13/19 10:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/13/19 10:15	1
Toluene	1.0	U	1.0	0.14	ug/L			03/13/19 10:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/13/19 10:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/13/19 10:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/13/19 10:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/13/19 10:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			03/13/19 10:15	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/13/19 10:15	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/13/19 10:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			03/13/19 10:15	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/13/19 10:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/13/19 10:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			03/13/19 10:15	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/13/19 10:15	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/13/19 10:15	1
Diethyl ether	2.0	U	2.0	0.19	ug/L			03/13/19 10:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*59 - 120*		*03/13/19 10:15*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 128*		*03/13/19 10:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 121*		*03/13/19 10:15*	*1*
Toluene-d8 (Surr)	*80*		*70 - 123*		*03/13/19 10:15*	*1*

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

Lab Sample ID: LCS 240-371378/4
Matrix: Water
Analysis Batch: 371378

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	14.7		ug/L		73	21 - 162
Benzene	10.0	10.4		ug/L		104	80 - 123
Bromodichloromethane	10.0	8.75		ug/L		87	77 - 125
Bromoform	10.0	5.87		ug/L		59	49 - 141
Bromomethane	10.0	7.01		ug/L		70	41 - 175
2-Butanone (MEK)	20.0	13.2		ug/L		66	39 - 163
Carbon disulfide	10.0	7.50		ug/L		75	60 - 138
Carbon tetrachloride	10.0	10.2		ug/L		102	63 - 140
Chlorobenzene	10.0	10.5		ug/L		105	80 - 121
Chloroethane	10.0	7.66		ug/L		77	33 - 173
Chloroform	10.0	10.9		ug/L		109	79 - 127
Chloromethane	10.0	8.54		ug/L		85	54 - 143
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	76 - 128
cis-1,3-Dichloropropene	10.0	7.70		ug/L		77	64 - 132
Cyclohexane	10.0	9.27		ug/L		93	58 - 145
Dibromochloromethane	10.0	8.30		ug/L		83	70 - 132
1,2-Dibromo-3-Chloropropane	10.0	5.06		ug/L		51	46 - 132
1,2-Dibromoethane	10.0	8.44		ug/L		84	77 - 123
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	78 - 120
1,3-Dichlorobenzene	10.0	10.2		ug/L		102	78 - 120
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	78 - 120
Dichlorodifluoromethane	10.0	9.56		ug/L		96	29 - 148
1,1-Dichloroethane	10.0	10.4		ug/L		104	75 - 133
1,2-Dichloroethane	10.0	9.91		ug/L		99	71 - 135
1,1-Dichloroethene	10.0	8.93		ug/L		89	65 - 139
1,2-Dichloropropane	10.0	9.62		ug/L		96	78 - 133
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
2-Hexanone	20.0	10.9		ug/L		54	43 - 148
Isopropylbenzene	10.0	10.3		ug/L		103	74 - 120
Methyl acetate	20.0	13.2		ug/L		66	52 - 145
Methylcyclohexane	10.0	9.50		ug/L		95	60 - 125
Methylene Chloride	10.0	11.5		ug/L		115	70 - 134
4-Methyl-2-pentanone (MIBK)	20.0	11.1		ug/L		55	49 - 143
Methyl tert-butyl ether	10.0	6.96		ug/L		70	51 - 133
Styrene	10.0	9.79		ug/L		98	79 - 120
1,1,2,2-Tetrachloroethane	10.0	7.51		ug/L		75	65 - 139
Tetrachloroethene	10.0	11.4		ug/L		114	74 - 130
Toluene	10.0	10.5		ug/L		105	78 - 129
trans-1,2-Dichloroethene	10.0	11.1		ug/L		111	78 - 133
trans-1,3-Dichloropropene	10.0	6.50		ug/L		65	55 - 128
1,2,4-Trichlorobenzene	10.0	9.22		ug/L		92	42 - 133
1,1,1-Trichloroethane	10.0	11.2		ug/L		112	69 - 134
1,1,2-Trichloroethane	10.0	9.55		ug/L		96	78 - 133
Trichloroethene	10.0	10.4		ug/L		104	76 - 125
Trichlorofluoromethane	10.0	9.83		ug/L		98	51 - 164
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.4		ug/L		104	50 - 156
1,2,4-Trimethylbenzene	10.0	9.98		ug/L		100	74 - 120

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

Lab Sample ID: LCS 240-371378/4
Matrix: Water
Analysis Batch: 371378

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	10.0	9.99		ug/L		100	75 - 121
Vinyl chloride	10.0	8.49		ug/L		85	58 - 143
Xylenes, Total	20.0	20.4		ug/L		102	80 - 120
Diethyl ether	10.0	8.87		ug/L		89	70 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*78*		*59 - 120*
Dibromofluoromethane (Surr)	*88*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*78*		*70 - 121*
Toluene-d8 (Surr)	*83*		*70 - 123*

Lab Sample ID: 240-108876-7 MS
Matrix: Water
Analysis Batch: 371378

Client Sample ID: MW-52_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U	20.0	16.9		ug/L		85	10 - 168
Benzene	1.0	U	10.0	10.2		ug/L		102	71 - 122
Bromodichloromethane	1.0	U	10.0	8.19		ug/L		82	64 - 125
Bromoform	1.0	U	10.0	5.46		ug/L		55	44 - 129
Bromomethane	1.0	U	10.0	8.02		ug/L		80	19 - 187
2-Butanone (MEK)	10	U	20.0	12.6		ug/L		63	37 - 156
Carbon disulfide	5.0	U	10.0	7.38		ug/L		74	43 - 144
Carbon tetrachloride	1.0	U	10.0	8.71		ug/L		87	41 - 143
Chlorobenzene	1.0	U	10.0	10.3		ug/L		103	70 - 123
Chloroethane	1.0	U	10.0	7.55		ug/L		75	11 - 189
Chloroform	1.0	U	10.0	11.1		ug/L		111	68 - 130
Chloromethane	1.0	U	10.0	7.07		ug/L		71	31 - 154
cis-1,2-Dichloroethene	1.0	U	10.0	10.9		ug/L		109	64 - 130
cis-1,3-Dichloropropene	1.0	U	10.0	6.55		ug/L		66	48 - 127
Cyclohexane	1.0	U	10.0	7.38		ug/L		74	42 - 135
Dibromochloromethane	1.0	U	10.0	7.65		ug/L		76	60 - 129
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	4.47		ug/L		45	38 - 124
1,2-Dibromoethane	1.0	U	10.0	8.02		ug/L		80	71 - 123
1,2-Dichlorobenzene	1.0	U	10.0	10.1		ug/L		101	64 - 120
1,3-Dichlorobenzene	1.0	U	10.0	9.82		ug/L		98	62 - 120
1,4-Dichlorobenzene	1.0	U	10.0	9.76		ug/L		98	63 - 120
Dichlorodifluoromethane	1.0	U	10.0	10.2		ug/L		102	28 - 136
1,1-Dichloroethane	1.0	U	10.0	10.5		ug/L		105	63 - 136
1,2-Dichloroethane	1.0	U	10.0	9.80		ug/L		98	65 - 135
1,1-Dichloroethene	1.0	U	10.0	8.58		ug/L		86	53 - 140
1,2-Dichloropropane	1.0	U	10.0	9.46		ug/L		95	70 - 132
Ethylbenzene	1.0	U	10.0	9.89		ug/L		99	66 - 120
2-Hexanone	10	U	20.0	11.5		ug/L		57	42 - 150
Isopropylbenzene	1.0	U	10.0	9.76		ug/L		98	59 - 120
Methyl acetate	10	U	20.0	13.3		ug/L		66	41 - 142
Methylcyclohexane	1.0	U	10.0	7.41		ug/L		74	37 - 123
Methylene Chloride	5.0	U	10.0	9.82		ug/L		98	61 - 130

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

Lab Sample ID: 240-108876-7 MS
Matrix: Water
Analysis Batch: 371378

Client Sample ID: MW-52_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	10	U	20.0	10.8		ug/L		54	44 - 143
Methyl tert-butyl ether	1.0	U	10.0	6.77		ug/L		68	41 - 136
Styrene	1.0	U	10.0	9.53		ug/L		95	68 - 120
1,1,2,2-Tetrachloroethane	1.0	U	10.0	7.27		ug/L		73	60 - 137
Tetrachloroethene	1.0	U	10.0	10.6		ug/L		106	51 - 136
Toluene	1.0	U	10.0	10.1		ug/L		101	62 - 132
trans-1,2-Dichloroethene	1.0	U	10.0	11.3		ug/L		113	68 - 133
trans-1,3-Dichloropropene	1.0	U	10.0	5.42		ug/L		54	40 - 125
1,2,4-Trichlorobenzene	1.0	U	10.0	8.59		ug/L		86	30 - 126
1,1,1-Trichloroethane	1.0	U	10.0	10.5		ug/L		105	51 - 138
1,1,2-Trichloroethane	1.0	U	10.0	9.41		ug/L		94	76 - 132
Trichloroethene	1.0	U	10.0	10.2		ug/L		102	55 - 131
Trichlorofluoromethane	1.0	U	10.0	10.2		ug/L		102	37 - 174
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	8.27		ug/L		83	31 - 156
1,2,4-Trimethylbenzene	1.0	U	10.0	9.52		ug/L		95	62 - 120
1,3,5-Trimethylbenzene	1.0	U	10.0	9.44		ug/L		94	64 - 120
Vinyl chloride	3.9		10.0	13.4		ug/L		95	43 - 154
Xylenes, Total	2.0	U	20.0	19.7		ug/L		99	67 - 120
Diethyl ether	2.0	U	10.0	8.79		ug/L		88	65 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*59 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 121*
Toluene-d8 (Surr)	*90*		*70 - 123*

Lab Sample ID: 240-108876-7 MSD
Matrix: Water
Analysis Batch: 371378

Client Sample ID: MW-52_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U	20.0	15.4		ug/L		77	10 - 168	10	35
Benzene	1.0	U	10.0	9.44		ug/L		94	71 - 122	8	22
Bromodichloromethane	1.0	U	10.0	7.39		ug/L		74	64 - 125	10	27
Bromoform	1.0	U	10.0	5.28		ug/L		53	44 - 129	3	28
Bromomethane	1.0	U	10.0	8.82		ug/L		88	19 - 187	9	35
2-Butanone (MEK)	10	U	20.0	11.8		ug/L		59	37 - 156	7	35
Carbon disulfide	5.0	U	10.0	7.51		ug/L		75	43 - 144	2	33
Carbon tetrachloride	1.0	U	10.0	9.26		ug/L		93	41 - 143	6	30
Chlorobenzene	1.0	U	10.0	9.49		ug/L		95	70 - 123	9	23
Chloroethane	1.0	U	10.0	8.20		ug/L		82	11 - 189	8	35
Chloroform	1.0	U	10.0	10.2		ug/L		102	68 - 130	8	23
Chloromethane	1.0	U	10.0	6.71		ug/L		67	31 - 154	5	35
cis-1,2-Dichloroethene	1.0	U	10.0	10.0		ug/L		100	64 - 130	8	21
cis-1,3-Dichloropropene	1.0	U	10.0	6.01		ug/L		60	48 - 127	9	30
Cyclohexane	1.0	U	10.0	8.96		ug/L		90	42 - 135	19	35
Dibromochloromethane	1.0	U	10.0	7.02		ug/L		70	60 - 129	9	26

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

Lab Sample ID: 240-108876-7 MSD
Matrix: Water
Analysis Batch: 371378

Client Sample ID: MW-52_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	4.55		ug/L		46	38 - 124	2	35
1,2-Dibromoethane	1.0	U	10.0	7.56		ug/L		76	71 - 123	6	27
1,2-Dichlorobenzene	1.0	U	10.0	9.60		ug/L		96	64 - 120	5	30
1,3-Dichlorobenzene	1.0	U	10.0	9.11		ug/L		91	62 - 120	7	31
1,4-Dichlorobenzene	1.0	U	10.0	9.14		ug/L		91	63 - 120	7	28
Dichlorodifluoromethane	1.0	U	10.0	9.79		ug/L		98	28 - 136	4	35
1,1-Dichloroethane	1.0	U	10.0	9.43		ug/L		94	63 - 136	10	23
1,2-Dichloroethane	1.0	U	10.0	8.70		ug/L		87	65 - 135	12	24
1,1-Dichloroethene	1.0	U	10.0	8.55		ug/L		85	53 - 140	0	35
1,2-Dichloropropane	1.0	U	10.0	8.59		ug/L		86	70 - 132	10	26
Ethylbenzene	1.0	U	10.0	9.07		ug/L		91	66 - 120	9	24
2-Hexanone	10	U	20.0	10.9		ug/L		55	42 - 150	5	35
Isopropylbenzene	1.0	U	10.0	9.49		ug/L		95	59 - 120	3	31
Methyl acetate	10	U	20.0	11.7		ug/L		59	41 - 142	12	35
Methylcyclohexane	1.0	U	10.0	8.81		ug/L		88	37 - 123	17	35
Methylene Chloride	5.0	U	10.0	8.82		ug/L		88	61 - 130	11	29
4-Methyl-2-pentanone (MIBK)	10	U	20.0	10.1		ug/L		51	44 - 143	6	35
Methyl tert-butyl ether	1.0	U	10.0	6.45		ug/L		64	41 - 136	5	29
Styrene	1.0	U	10.0	8.72		ug/L		87	68 - 120	9	26
1,1,2,2-Tetrachloroethane	1.0	U	10.0	6.94		ug/L		69	60 - 137	5	31
Tetrachloroethene	1.0	U	10.0	10.3		ug/L		103	51 - 136	2	23
Toluene	1.0	U	10.0	9.37		ug/L		94	62 - 132	7	23
trans-1,2-Dichloroethene	1.0	U	10.0	10.6		ug/L		106	68 - 133	6	24
trans-1,3-Dichloropropene	1.0	U	10.0	5.18		ug/L		52	40 - 125	5	27
1,2,4-Trichlorobenzene	1.0	U	10.0	8.25		ug/L		83	30 - 126	4	35
1,1,1-Trichloroethane	1.0	U	10.0	10.4		ug/L		104	51 - 138	1	27
1,1,2-Trichloroethane	1.0	U	10.0	8.58		ug/L		86	76 - 132	9	25
Trichloroethene	1.0	U	10.0	9.39		ug/L		94	55 - 131	8	23
Trichlorofluoromethane	1.0	U	10.0	10.4		ug/L		104	37 - 174	1	35
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	10.4		ug/L		104	31 - 156	23	35
1,2,4-Trimethylbenzene	1.0	U	10.0	9.02		ug/L		90	62 - 120	5	27
1,3,5-Trimethylbenzene	1.0	U	10.0	8.94		ug/L		89	64 - 120	6	23
Vinyl chloride	3.9		10.0	13.6		ug/L		97	43 - 154	1	29
Xylenes, Total	2.0	U	20.0	18.6		ug/L		93	67 - 120	6	25
Diethyl ether	2.0	U	10.0	7.99		ug/L		80	65 - 134	10	33

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*59 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 128*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 121*
Toluene-d8 (Surr)	*89*		*70 - 123*

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

Lab Sample ID: MB 240-371078/5
Matrix: Water
Analysis Batch: 371078

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			03/11/19 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 125*		*03/11/19 13:44*	*1*

Lab Sample ID: LCS 240-371078/4
Matrix: Water
Analysis Batch: 371078

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	11.6		ug/L		116	59 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 125*

Lab Sample ID: MRL 240-371078/6
Matrix: Water
Analysis Batch: 371078

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			0.00100	0.00112	J	ng/uL		112	10 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*10 - 150*

Lab Sample ID: 240-108876-1 MS
Matrix: Water
Analysis Batch: 371078

Client Sample ID: MW-30_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	15		10.0	26.7		ug/L		117	52 - 129		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 125*

Lab Sample ID: 240-108876-1 MSD
Matrix: Water
Analysis Batch: 371078

Client Sample ID: MW-30_030219
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	15		10.0	26.2		ug/L		112	52 - 129	2	13

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 125*

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

Lab Sample ID: 240-108876-2 MS
Matrix: Water
Analysis Batch: 371078

Client Sample ID: MW-31_030219
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	11.6		ug/L		116	52 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 125*

Lab Sample ID: 240-108876-2 MSD
Matrix: Water
Analysis Batch: 371078

Client Sample ID: MW-31_030219
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	11.6		ug/L		116	52 - 129	0	13

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 125*

Lab Sample ID: 240-108876-4 MS
Matrix: Water
Analysis Batch: 371078

Client Sample ID: MW-15-61D_030219
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	11.4		ug/L		114	52 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 125*

Lab Sample ID: 240-108876-4 MSD
Matrix: Water
Analysis Batch: 371078

Client Sample ID: MW-15-61D_030219
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	11.7		ug/L		117	52 - 129	3	13

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 125*

Lab Sample ID: 240-108876-7 MS
Matrix: Water
Analysis Batch: 371078

Client Sample ID: MW-52_030219
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.9	J	10.0	13.5		ug/L		116	52 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*63 - 125*

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

Lab Sample ID: 240-108876-7 MSD
Matrix: Water
Analysis Batch: 371078

Client Sample ID: MW-52_030219
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	1.9	J	10.0	13.6		ug/L		118	52 - 129	1	13

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*63 - 125*

GC/MS VOA

Analysis Batch: 371066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-108876-1	MW-30_030219	Total/NA	Water	8260B	
MB 240-371066/6	Method Blank	Total/NA	Water	8260B	
LCS 240-371066/4	Lab Control Sample	Total/NA	Water	8260B	
240-108876-1 MS	MW-30_030219	Total/NA	Water	8260B	
240-108876-1 MSD	MW-30_030219	Total/NA	Water	8260B	

Analysis Batch: 371078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-108876-1	MW-30_030219	Total/NA	Water	8260B SIM	
240-108876-2	MW-31_030219	Total/NA	Water	8260B SIM	
240-108876-3	MW-34_030219	Total/NA	Water	8260B SIM	
240-108876-4	MW-15-61D_030219	Total/NA	Water	8260B SIM	
240-108876-5	MW-42_030219	Total/NA	Water	8260B SIM	
240-108876-6	MW-41_030219	Total/NA	Water	8260B SIM	
240-108876-7	MW-52_030219	Total/NA	Water	8260B SIM	
240-108876-8	MW-35_030219	Total/NA	Water	8260B SIM	
240-108876-9	MW-43_030219	Total/NA	Water	8260B SIM	
MB 240-371078/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-371078/4	Lab Control Sample	Total/NA	Water	8260B SIM	
MRL 240-371078/6	Lab Control Sample	Total/NA	Water	8260B SIM	
240-108876-1 MS	MW-30_030219	Total/NA	Water	8260B SIM	
240-108876-1 MSD	MW-30_030219	Total/NA	Water	8260B SIM	
240-108876-2 MS	MW-31_030219	Total/NA	Water	8260B SIM	
240-108876-2 MSD	MW-31_030219	Total/NA	Water	8260B SIM	
240-108876-4 MS	MW-15-61D_030219	Total/NA	Water	8260B SIM	
240-108876-4 MSD	MW-15-61D_030219	Total/NA	Water	8260B SIM	
240-108876-7 MS	MW-52_030219	Total/NA	Water	8260B SIM	
240-108876-7 MSD	MW-52_030219	Total/NA	Water	8260B SIM	

Analysis Batch: 371206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-108876-2	MW-31_030219	Total/NA	Water	8260B	
240-108876-3	MW-34_030219	Total/NA	Water	8260B	
MB 240-371206/6	Method Blank	Total/NA	Water	8260B	
LCS 240-371206/4	Lab Control Sample	Total/NA	Water	8260B	
240-108876-2 MS	MW-31_030219	Total/NA	Water	8260B	
240-108876-2 MSD	MW-31_030219	Total/NA	Water	8260B	

Analysis Batch: 371207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-108876-4	MW-15-61D_030219	Total/NA	Water	8260B	
MB 240-371207/6	Method Blank	Total/NA	Water	8260B	
LCS 240-371207/4	Lab Control Sample	Total/NA	Water	8260B	
240-108876-4 MS	MW-15-61D_030219	Total/NA	Water	8260B	
240-108876-4 MSD	MW-15-61D_030219	Total/NA	Water	8260B	

Analysis Batch: 371376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-108876-10	TRIP BLANK	Total/NA	Water	8260B	
MB 240-371376/6	Method Blank	Total/NA	Water	8260B	
LCS 240-371376/4	Lab Control Sample	Total/NA	Water	8260B	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Analysis Batch: 371378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-108876-5	MW-42_030219	Total/NA	Water	8260B	
240-108876-6	MW-41_030219	Total/NA	Water	8260B	
240-108876-7	MW-52_030219	Total/NA	Water	8260B	
240-108876-8	MW-35_030219	Total/NA	Water	8260B	
240-108876-9	MW-43_030219	Total/NA	Water	8260B	
MB 240-371378/6	Method Blank	Total/NA	Water	8260B	
LCS 240-371378/4	Lab Control Sample	Total/NA	Water	8260B	
240-108876-7 MS	MW-52_030219	Total/NA	Water	8260B	
240-108876-7 MSD	MW-52_030219	Total/NA	Water	8260B	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-30_030219
Date Collected: 03/02/19 10:53
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371066	03/11/19 21:22	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	371078	03/11/19 14:34	SAM	TAL CAN

Client Sample ID: MW-31_030219
Date Collected: 03/02/19 09:22
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371206	03/12/19 16:25	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	371078	03/11/19 15:49	SAM	TAL CAN

Client Sample ID: MW-34_030219
Date Collected: 03/02/19 12:35
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371206	03/12/19 17:30	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	371078	03/11/19 17:04	SAM	TAL CAN

Client Sample ID: MW-15-61D_030219
Date Collected: 03/02/19 09:25
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371207	03/12/19 14:05	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	371078	03/11/19 17:29	SAM	TAL CAN

Client Sample ID: MW-42_030219
Date Collected: 03/02/19 10:40
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371378	03/13/19 11:29	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	371078	03/11/19 18:45	SAM	TAL CAN

Client Sample ID: MW-41_030219
Date Collected: 03/02/19 11:45
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371378	03/13/19 11:51	LEE	TAL CAN

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Client Sample ID: MW-41_030219
Date Collected: 03/02/19 11:45
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	371078	03/11/19 19:10	SAM	TAL CAN

Client Sample ID: MW-52_030219
Date Collected: 03/02/19 10:05
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371378	03/13/19 12:13	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	371078	03/11/19 19:35	SAM	TAL CAN

Client Sample ID: MW-35_030219
Date Collected: 03/02/19 13:50
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371378	03/13/19 13:18	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	371078	03/11/19 20:50	SAM	TAL CAN

Client Sample ID: MW-43_030219
Date Collected: 03/02/19 12:00
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371378	03/13/19 13:40	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	371078	03/11/19 21:15	SAM	TAL CAN

Client Sample ID: TRIP BLANK
Date Collected: 03/02/19 00:00
Date Received: 03/05/19 08:15

Lab Sample ID: 240-108876-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	371376	03/13/19 12:25	LEE	TAL CAN

Laboratory References:

TAL CAN = 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 Livonia MI - E203728

TestAmerica Job ID: 240-108876-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	04-30-19 *
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19 *
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State Program	3	210	12-31-19

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

MICHIGAN 190

0.6/C0.4 1.8/1.6

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

TestAmerica Laboratories, Inc.

Client Contact	Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other		COC No:
Company Name: Arcadis	Client Project Manager: Kris Hinskey	Site Contact: Angela DeGrandis	Lab Contact: Mike DelMonico
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 734-320-0065	Telephone: 330-497-9396
City/State/Zip: Novi, MI, 48377	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	1 of 1 COCs
Phone: 248-994-2240		TAT if different from below: ☐ 3 weeks ☑ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	For lab use only
Project Name: Ford LTP		10 day	Walk-in client
Project Number: ~~MI001454.0004.00001~~ MI001454.0006.00003	Method of Shipment/Carrier:		Lab sampling
PO # ~~M1001454.0004.00001~~ MI001454.0006.00003	Shipping/Tracking No:		Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	VOCs 8260B	1,4-Dioxane 8260B SIM										Sample Specific Notes / Special Instructions:
MW-30-030219	3/2/19	1053		X						X					N	G	3	3										MS/MSD
MW-31-030219	3/2/19	0922		X						X					N	G	3	3										MS/MSD
MW-34-030219	3/2/19	1235		X						X					N	G	3	3										
MW-15-610-030219	3/2/19	0925		X						X					N	G	3	3										MS/MSD
MW-42-030219	3/2/19	1040		X						X					N	G	3	3										
MW-41-030219	3/2/19	1145		X						X					N	G	3	3										
MW-52-030219	3/2/19	1005		X						X					N	G	3	3										MS/MSD
MW-35-030219	3/2/19	1350		X						X					N	G	3	3										
MW-43-030219	3/2/19	1200		X						X					N	G	3	3										
TRIP BLANK	3/2/19			X						X					~~N~~	~~G~~	~~3~~ 1	~~3~~	RCB									ANALYZE FOR VOCs ONLY

240-108876 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal By Lab ☐ Archive For ☐ Months

Special Instructions/QC Requirements & Comments:

Submit all results through Cadena at jim.tomalia@cadena.com. Cadena #E203728
Level IV Reporting.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
RACHEL BIELAK	ARCADIS	3/2/19 1530	NOVI COLD STORAGE	ARCADIS	3/2/19 1530
Caitlin O'Neill	ARCADIS	3/4/19 14:10		TESTAMERICA	3/4/19 1410
	TESTAMERICA	3/4/19 14:45	Received in Laboratory by:	TA	3/5/19 815

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 108876
Canton Facility

Client Arcadis Site Name ______ Cooler unpacked by: [illegible]

Cooler Received on 3/5/19 Opened on 3/5/19

FedEx: 1st [✓ Grd] Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other ______

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

TestAmerica Cooler # NA 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-8 (CF **-0.2** °C) Observed Cooler Temp.______°C Corrected Cooler Temp.______°C
   IR GUN #36 (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 [✓ 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
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 be reconciled with the COC? [✓ Yes] No
9. Were correct bottle(s) used for the test(s) indicated? [✓ Yes] No
10. Sufficient quantity received to perform indicated analyses? [✓ Yes] No
11. Are these work share samples? Yes [✓ No]
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No [✓ NA] pH Strip Lot# **HC861525**
13. Were VOAs on the COC? [✓ Yes] No
14. Were air bubbles >6 mm in any VOA vials? ● Larger than this. Yes [✓ No] NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 831701 [✓ Yes] No
16. 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 ______

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: JR

______

18. 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)

19. 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: ______

WI-NC-099

Login # : 108876

TestAmerica Canton Sample Receipt Multiple Cooler Form				
Cooler Description	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
TA	8	0.6	0.4	ICE
"	"	1.8	1.6	"

☐ **See Temperature Excursion Form**

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers