TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-16332-1
Client Project/Site: Canton Drop Forge

For:
TRC Environmental Corp-Payne Firm
1382 West Ninth Street
Cleveland, Ohio 44113

Attn: Kathleen Teuscher

Authorized for release by:
10/18/2012 5:06:52 PM

Jeffrey Smith
Project Manager II
jeff.smith@testamericainc.com

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Method Summary 7
Sample Summary 8
Detection Summary 9
Client Sample Results 10
Surrogate Summary 20
QC Sample Results 21
QC Association Summary 28
Lab Chronicle 30
Certification Summary 32
Chain of Custody 33
Receipt Checklists 36

Definitions/Glossary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
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: 240-16332-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: TRC Environmental Corp-Payne Firm

Project: Canton Drop Forge

Report Number: 240-16332-1

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.

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.

TestAmerica utilizes USEPA approved methods, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable.

A summary of QC data for these analyses is included at the back of the report.

TestAmerica North 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 applicable 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.

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 10/12/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.5 and 3.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RRMW-02 (240-16332-1), RRMW-04 (240-16332-2), RRMW-01 (240-16332-3) and TB-11/101212 (240-16332-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/17/2012.

Methylene Chloride was detected in method blank MB 240-61631/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

Job ID: 240-16332-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples RRMW-02 (240-16332-1), RRMW-04 (240-16332-2) and RRMW-01 (240-16332-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 10/13/2012 and analyzed on 10/17/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 61238, 8270.

No difficulties were encountered during the SVOCs analyses.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)
Samples RRMW-02 (240-16332-1), RRMW-04 (240-16332-2) and RRMW-01 (240-16332-3) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 10/13/2012 and analyzed on 10/16/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)
Sample RRMW-01 (240-16332-3) was analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 10/15/2012 and analyzed on 10/16/2012.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICP)
Samples RRMW-02 (240-16332-1) and RRMW-04 (240-16332-2) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 10/15/2012 and analyzed on 10/16/2012.

Barium was detected in method blank MB 240-61280/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)
Sample RRMW-01 (240-16332-3) was analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 10/18/2012.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

Job ID: 240-16332-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

TOTAL MERCURY

Samples RRMW-02 (240-16332-1) and RRMW-04 (240-16332-2) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 10/18/2012.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

Method Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NC
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NC
6010B	Metals (ICP)	SW846	TAL NC
7470A	Mercury (CVAA)	SW846	TAL NC

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-16332-1	RRMW-02	Water	10/12/12 10:05	10/12/12 17:35
240-16332-2	RRMW-04	Water	10/12/12 12:20	10/12/12 17:35
240-16332-3	RRMW-01	Water	10/12/12 15:30	10/12/12 17:35
240-16332-4	TB-11/101212	Water	10/12/12 00:00	10/12/12 17:35

Detection Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: RRMW-02 — Lab Sample ID: 240-16332-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5		1.0	0.17	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.32	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	10		1.0	0.17	ug/L	1		8260B	Total/NA
Bis(2-ethylhexyl) phthalate	2.5		2.0	0.80	ug/L	1		8270C	Total/NA
Barium	76	J B	200	0.67	ug/L	1		6010B	Total Recoverable
Chromium	3.4	J	5.0	2.2	ug/L	1		6010B	Total Recoverable
Mercury	0.14	J	0.20	0.12	ug/L	1		7470A	Total/NA

Client Sample ID: RRMW-04 — Lab Sample ID: 240-16332-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	0.60	J	1.0	0.17	ug/L	1		8260B	Total/NA
Bis(2-ethylhexyl) phthalate	1.5	J	1.9	0.78	ug/L	1		8270C	Total/NA
Naphthalene	0.12	J	0.19	0.097	ug/L	1		8270C	Total/NA
Barium	210	B	200	0.67	ug/L	1		6010B	Total Recoverable
Chromium	16		5.0	2.2	ug/L	1		6010B	Total Recoverable
Arsenic	6.9	J	10	3.2	ug/L	1		6010B	Total Recoverable
Lead	7.1		3.0	1.9	ug/L	1		6010B	Total Recoverable
Mercury	0.14	J	0.20	0.12	ug/L	1		7470A	Total/NA

Client Sample ID: RRMW-01 — Lab Sample ID: 240-16332-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	10	1.1	ug/L	1		8260B	Total/NA
Bis(2-ethylhexyl) phthalate	1.9	J	2.1	0.83	ug/L	1		8270C	Total/NA
Barium	27	J B	200	0.67	ug/L	1		6010B	Dissolved
Chromium	2.9	J	5.0	2.2	ug/L	1		6010B	Dissolved
Mercury	0.18	J	0.20	0.12	ug/L	1		7470A	Dissolved

Client Sample ID: TB-11/101212 — Lab Sample ID: 240-16332-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.7	J	10	1.1	ug/L	1		8260B	Total/NA

Client Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: RRMW-02

Lab Sample ID: 240-16332-1

Date Collected: 10/12/12 10:05
Date Received: 10/12/12 17:35

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.1	ug/L			10/17/12 14:22	1
Benzene	ND		1.0	0.13	ug/L			10/17/12 14:22	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/17/12 14:22	1
Bromoform	ND		1.0	0.64	ug/L			10/17/12 14:22	1
Bromomethane	ND		1.0	0.41	ug/L			10/17/12 14:22	1
2-Butanone (MEK)	ND		10	0.57	ug/L			10/17/12 14:22	1
Carbon disulfide	ND		1.0	0.13	ug/L			10/17/12 14:22	1
Carbon tetrachloride	ND		1.0	0.13	ug/L			10/17/12 14:22	1
Chlorobenzene	ND		1.0	0.15	ug/L			10/17/12 14:22	1
Chloroethane	ND		1.0	0.29	ug/L			10/17/12 14:22	1
Chloroform	ND		1.0	0.16	ug/L			10/17/12 14:22	1
Chloromethane	ND		1.0	0.30	ug/L			10/17/12 14:22	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.17	ug/L			10/17/12 14:22	1
cis-1,3-Dichloropropene	ND		1.0	0.14	ug/L			10/17/12 14:22	1
Dibromochloromethane	ND		1.0	0.18	ug/L			10/17/12 14:22	1
1,1-Dichloroethane	ND		1.0	0.15	ug/L			10/17/12 14:22	1
1,2-Dichloroethane	ND		1.0	0.22	ug/L			10/17/12 14:22	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			10/17/12 14:22	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			10/17/12 14:22	1
Ethylbenzene	ND		1.0	0.17	ug/L			10/17/12 14:22	1
2-Hexanone	ND		10	0.41	ug/L			10/17/12 14:22	1
Methylene Chloride	ND		1.0	0.33	ug/L			10/17/12 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.32	ug/L			10/17/12 14:22	1
Styrene	ND		1.0	0.11	ug/L			10/17/12 14:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.18	ug/L			10/17/12 14:22	1
Tetrachloroethene	ND		1.0	0.29	ug/L			10/17/12 14:22	1
Toluene	ND		1.0	0.13	ug/L			10/17/12 14:22	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/17/12 14:22	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/17/12 14:22	1
1,1,1-Trichloroethane	**0.32**	**J**	1.0	0.22	ug/L			10/17/12 14:22	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/17/12 14:22	1
Trichloroethene	**10**		1.0	0.17	ug/L			10/17/12 14:22	1
Vinyl chloride	ND		1.0	0.22	ug/L			10/17/12 14:22	1
Xylenes, Total	ND		2.0	0.28	ug/L			10/17/12 14:22	1
Methyl tert-butyl ether	ND		5.0	0.17	ug/L			10/17/12 14:22	1
n-Hexane	ND		1.0	0.26	ug/L			10/17/12 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*66 - 117*		*10/17/12 14:22*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 121*		*10/17/12 14:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 129*		*10/17/12 14:22*	*1*
Toluene-d8 (Surr)	*86*		*74 - 115*		*10/17/12 14:22*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Acenaphthylene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Anthracene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1

Client Sample ID: RRMW-02

Lab Sample ID: 240-16332-1

Date Collected: 10/12/12 10:05

Matrix: Water

Date Received: 10/12/12 17:35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		10/13/12 11:14	10/17/12 09:59	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Bis(2-ethylhexyl) phthalate	**2.5**		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
4-Bromophenyl phenyl ether	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
Butyl benzyl phthalate	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
4-Chloroaniline	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
4-Chloro-3-methylphenol	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
2-Chlorophenol	ND		1.0	0.29	ug/L		10/13/12 11:14	10/17/12 09:59	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		10/13/12 11:14	10/17/12 09:59	1
Chrysene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Dibenzofuran	ND		1.0	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
1,2-Dichlorobenzene	ND		1.0	0.29	ug/L		10/13/12 11:14	10/17/12 09:59	1
1,3-Dichlorobenzene	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
1,4-Dichlorobenzene	ND		1.0	0.34	ug/L		10/13/12 11:14	10/17/12 09:59	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		10/13/12 11:14	10/17/12 09:59	1
2,4-Dichlorophenol	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
Diethyl phthalate	ND		1.0	0.60	ug/L		10/13/12 11:14	10/17/12 09:59	1
2,4-Dimethylphenol	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
Dimethyl phthalate	ND		1.0	0.29	ug/L		10/13/12 11:14	10/17/12 09:59	1
Di-n-butyl phthalate	ND		1.0	0.67	ug/L		10/13/12 11:14	10/17/12 09:59	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		10/13/12 11:14	10/17/12 09:59	1
2,4-Dinitrophenol	ND		5.0	2.4	ug/L		10/13/12 11:14	10/17/12 09:59	1
2,4-Dinitrotoluene	ND		5.0	0.27	ug/L		10/13/12 11:14	10/17/12 09:59	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
Di-n-octyl phthalate	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
Fluoranthene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Fluorene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Hexachlorobenzene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		10/13/12 11:14	10/17/12 09:59	1
Hexachlorocyclopentadiene	ND		10	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
Hexachloroethane	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Isophorone	ND		1.0	0.27	ug/L		10/13/12 11:14	10/17/12 09:59	1
2-Methylnaphthalene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
2-Methylphenol	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
3 & 4 Methylphenol	ND		2.0	0.75	ug/L		10/13/12 11:14	10/17/12 09:59	1
Naphthalene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
2-Nitroaniline	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
3-Nitroaniline	ND		2.0	0.28	ug/L		10/13/12 11:14	10/17/12 09:59	1
4-Nitroaniline	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
Nitrobenzene	ND		1.0	0.040	ug/L		10/13/12 11:14	10/17/12 09:59	1
2-Nitrophenol	ND		2.0	0.28	ug/L		10/13/12 11:14	10/17/12 09:59	1
4-Nitrophenol	ND		5.0	2.4	ug/L		10/13/12 11:14	10/17/12 09:59	1
N-Nitrosodi-n-propylamine	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		10/13/12 11:14	10/17/12 09:59	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		10/13/12 11:14	10/17/12 09:59	1
Pentachlorophenol	ND		5.0	2.4	ug/L		10/13/12 11:14	10/17/12 09:59	1

Client Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: RRMW-02

Lab Sample ID: 240-16332-1

Date Collected: 10/12/12 10:05
Date Received: 10/12/12 17:35

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
Phenol	ND		1.0	0.60	ug/L		10/13/12 11:14	10/17/12 09:59	1
Pyrene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.28	ug/L		10/13/12 11:14	10/17/12 09:59	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		10/13/12 11:14	10/17/12 09:59	1
2,4,6-Trichlorophenol	ND		5.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*20 - 110*	*10/13/12 11:14*	*10/17/12 09:59*	*1*
2-Fluorophenol (Surr)	*64*		*10 - 110*	*10/13/12 11:14*	*10/17/12 09:59*	*1*
Nitrobenzene-d5 (Surr)	*63*		*21 - 110*	*10/13/12 11:14*	*10/17/12 09:59*	*1*
Phenol-d5 (Surr)	*65*		*21 - 110*	*10/13/12 11:14*	*10/17/12 09:59*	*1*
Terphenyl-d14 (Surr)	*75*		*24 - 110*	*10/13/12 11:14*	*10/17/12 09:59*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*21 - 110*	*10/13/12 11:14*	*10/17/12 09:59*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.49	0.17	ug/L		10/13/12 11:25	10/16/12 04:27	1
Aroclor 1221	ND		0.49	0.13	ug/L		10/13/12 11:25	10/16/12 04:27	1
Aroclor 1232	ND		0.49	0.16	ug/L		10/13/12 11:25	10/16/12 04:27	1
Aroclor 1242	ND		0.49	0.21	ug/L		10/13/12 11:25	10/16/12 04:27	1
Aroclor 1248	ND		0.49	0.097	ug/L		10/13/12 11:25	10/16/12 04:27	1
Aroclor 1254	ND		0.49	0.16	ug/L		10/13/12 11:25	10/16/12 04:27	1
Aroclor 1260	ND		0.49	0.17	ug/L		10/13/12 11:25	10/16/12 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*23 - 136*	*10/13/12 11:25*	*10/16/12 04:27*	*1*
DCB Decachlorobiphenyl	*73*		*10 - 130*	*10/13/12 11:25*	*10/16/12 04:27*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**76**	**J B**	200	0.67	ug/L		10/15/12 08:27	10/16/12 06:57	1
Cadmium	ND		2.0	0.66	ug/L		10/15/12 08:27	10/16/12 06:57	1
Chromium	**3.4**	**J**	5.0	2.2	ug/L		10/15/12 08:27	10/16/12 06:57	1
Silver	ND		5.0	2.2	ug/L		10/15/12 08:27	10/16/12 06:57	1
Arsenic	ND		10	3.2	ug/L		10/15/12 08:27	10/16/12 06:57	1
Lead	ND		3.0	1.9	ug/L		10/15/12 08:27	10/16/12 06:57	1
Selenium	ND		5.0	4.1	ug/L		10/15/12 08:27	10/16/12 06:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**	**J**	0.20	0.12	ug/L		10/18/12 10:15	10/18/12 14:39	1

Client Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: RRMW-04

Lab Sample ID: 240-16332-2

Date Collected: 10/12/12 12:20
Date Received: 10/12/12 17:35

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.1	ug/L			10/17/12 14:45	1
Benzene	ND		1.0	0.13	ug/L			10/17/12 14:45	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/17/12 14:45	1
Bromoform	ND		1.0	0.64	ug/L			10/17/12 14:45	1
Bromomethane	ND		1.0	0.41	ug/L			10/17/12 14:45	1
2-Butanone (MEK)	ND		10	0.57	ug/L			10/17/12 14:45	1
Carbon disulfide	ND		1.0	0.13	ug/L			10/17/12 14:45	1
Carbon tetrachloride	ND		1.0	0.13	ug/L			10/17/12 14:45	1
Chlorobenzene	ND		1.0	0.15	ug/L			10/17/12 14:45	1
Chloroethane	ND		1.0	0.29	ug/L			10/17/12 14:45	1
Chloroform	ND		1.0	0.16	ug/L			10/17/12 14:45	1
Chloromethane	ND		1.0	0.30	ug/L			10/17/12 14:45	1
cis-1,2-Dichloroethene	1.3		1.0	0.17	ug/L			10/17/12 14:45	1
cis-1,3-Dichloropropene	ND		1.0	0.14	ug/L			10/17/12 14:45	1
Dibromochloromethane	ND		1.0	0.18	ug/L			10/17/12 14:45	1
1,1-Dichloroethane	ND		1.0	0.15	ug/L			10/17/12 14:45	1
1,2-Dichloroethane	ND		1.0	0.22	ug/L			10/17/12 14:45	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			10/17/12 14:45	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			10/17/12 14:45	1
Ethylbenzene	ND		1.0	0.17	ug/L			10/17/12 14:45	1
2-Hexanone	ND		10	0.41	ug/L			10/17/12 14:45	1
Methylene Chloride	ND		1.0	0.33	ug/L			10/17/12 14:45	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.32	ug/L			10/17/12 14:45	1
Styrene	ND		1.0	0.11	ug/L			10/17/12 14:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.18	ug/L			10/17/12 14:45	1
Tetrachloroethene	ND		1.0	0.29	ug/L			10/17/12 14:45	1
Toluene	ND		1.0	0.13	ug/L			10/17/12 14:45	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/17/12 14:45	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/17/12 14:45	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/17/12 14:45	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/17/12 14:45	1
Trichloroethene	**0.60**	**J**	1.0	0.17	ug/L			10/17/12 14:45	1
Vinyl chloride	ND		1.0	0.22	ug/L			10/17/12 14:45	1
Xylenes, Total	ND		2.0	0.28	ug/L			10/17/12 14:45	1
Methyl tert-butyl ether	ND		5.0	0.17	ug/L			10/17/12 14:45	1
n-Hexane	ND		1.0	0.26	ug/L			10/17/12 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*66 - 117*		*10/17/12 14:45*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 121*		*10/17/12 14:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 129*		*10/17/12 14:45*	*1*
Toluene-d8 (Surr)	*88*		*74 - 115*		*10/17/12 14:45*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Acenaphthylene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Anthracene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Benzo[a]anthracene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Benzo[a]pyrene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1

Client Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: RRMW-04

Date Collected: 10/12/12 12:20
Date Received: 10/12/12 17:35

Lab Sample ID: 240-16332-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Benzo[k]fluoranthene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Bis(2-chloroethoxy)methane	ND		0.97	0.31	ug/L		10/13/12 11:14	10/17/12 10:23	1
Bis(2-chloroethyl)ether	ND		0.97	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Bis(2-ethylhexyl) phthalate	**1.5**	**J**	1.9	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
4-Bromophenyl phenyl ether	ND		1.9	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
Butyl benzyl phthalate	ND		0.97	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
4-Chloroaniline	ND		1.9	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
4-Chloro-3-methylphenol	ND		1.9	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
2-Chloronaphthalene	ND		0.97	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
2-Chlorophenol	ND		0.97	0.28	ug/L		10/13/12 11:14	10/17/12 10:23	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		10/13/12 11:14	10/17/12 10:23	1
Chrysene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Dibenz(a,h)anthracene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Dibenzofuran	ND		0.97	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
1,2-Dichlorobenzene	ND		0.97	0.28	ug/L		10/13/12 11:14	10/17/12 10:23	1
1,3-Dichlorobenzene	ND		0.97	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
1,4-Dichlorobenzene	ND		0.97	0.33	ug/L		10/13/12 11:14	10/17/12 10:23	1
3,3'-Dichlorobenzidine	ND		4.9	0.36	ug/L		10/13/12 11:14	10/17/12 10:23	1
2,4-Dichlorophenol	ND		1.9	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
Diethyl phthalate	ND		0.97	0.58	ug/L		10/13/12 11:14	10/17/12 10:23	1
2,4-Dimethylphenol	ND		1.9	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
Dimethyl phthalate	ND		0.97	0.28	ug/L		10/13/12 11:14	10/17/12 10:23	1
Di-n-butyl phthalate	ND		0.97	0.65	ug/L		10/13/12 11:14	10/17/12 10:23	1
4,6-Dinitro-2-methylphenol	ND		4.9	2.3	ug/L		10/13/12 11:14	10/17/12 10:23	1
2,4-Dinitrophenol	ND		4.9	2.3	ug/L		10/13/12 11:14	10/17/12 10:23	1
2,4-Dinitrotoluene	ND		4.9	0.26	ug/L		10/13/12 11:14	10/17/12 10:23	1
2,6-Dinitrotoluene	ND		4.9	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
Di-n-octyl phthalate	ND		0.97	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
Fluoranthene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Fluorene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Hexachlorobenzene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Hexachlorobutadiene	ND		0.97	0.26	ug/L		10/13/12 11:14	10/17/12 10:23	1
Hexachlorocyclopentadiene	ND		9.7	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
Hexachloroethane	ND		0.97	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Isophorone	ND		0.97	0.26	ug/L		10/13/12 11:14	10/17/12 10:23	1
2-Methylnaphthalene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
2-Methylphenol	ND		0.97	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
3 & 4 Methylphenol	ND		1.9	0.73	ug/L		10/13/12 11:14	10/17/12 10:23	1
Naphthalene	**0.12**	**J**	0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
2-Nitroaniline	ND		1.9	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
3-Nitroaniline	ND		1.9	0.27	ug/L		10/13/12 11:14	10/17/12 10:23	1
4-Nitroaniline	ND		1.9	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
Nitrobenzene	ND		0.97	0.039	ug/L		10/13/12 11:14	10/17/12 10:23	1
2-Nitrophenol	ND		1.9	0.27	ug/L		10/13/12 11:14	10/17/12 10:23	1
4-Nitrophenol	ND		4.9	2.3	ug/L		10/13/12 11:14	10/17/12 10:23	1
N-Nitrosodi-n-propylamine	ND		0.97	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1
N-Nitrosodiphenylamine	ND		0.97	0.30	ug/L		10/13/12 11:14	10/17/12 10:23	1
2,2'-oxybis[1-chloropropane]	ND		0.97	0.39	ug/L		10/13/12 11:14	10/17/12 10:23	1
Pentachlorophenol	ND		4.9	2.3	ug/L		10/13/12 11:14	10/17/12 10:23	1

Client Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: RRMW-04

Lab Sample ID: 240-16332-2

Date Collected: 10/12/12 12:20
Date Received: 10/12/12 17:35

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
Phenol	ND		0.97	0.58	ug/L		10/13/12 11:14	10/17/12 10:23	1
Pyrene	ND		0.19	0.097	ug/L		10/13/12 11:14	10/17/12 10:23	1
1,2,4-Trichlorobenzene	ND		0.97	0.27	ug/L		10/13/12 11:14	10/17/12 10:23	1
2,4,5-Trichlorophenol	ND		4.9	0.29	ug/L		10/13/12 11:14	10/17/12 10:23	1
2,4,6-Trichlorophenol	ND		4.9	0.78	ug/L		10/13/12 11:14	10/17/12 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*20 - 110*	*10/13/12 11:14*	*10/17/12 10:23*	*1*
2-Fluorophenol (Surr)	*63*		*10 - 110*	*10/13/12 11:14*	*10/17/12 10:23*	*1*
Nitrobenzene-d5 (Surr)	*62*		*21 - 110*	*10/13/12 11:14*	*10/17/12 10:23*	*1*
Phenol-d5 (Surr)	*65*		*21 - 110*	*10/13/12 11:14*	*10/17/12 10:23*	*1*
Terphenyl-d14 (Surr)	*75*		*24 - 110*	*10/13/12 11:14*	*10/17/12 10:23*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*21 - 110*	*10/13/12 11:14*	*10/17/12 10:23*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.50	0.17	ug/L		10/13/12 11:25	10/16/12 04:41	1
Aroclor 1221	ND		0.50	0.13	ug/L		10/13/12 11:25	10/16/12 04:41	1
Aroclor 1232	ND		0.50	0.16	ug/L		10/13/12 11:25	10/16/12 04:41	1
Aroclor 1242	ND		0.50	0.22	ug/L		10/13/12 11:25	10/16/12 04:41	1
Aroclor 1248	ND		0.50	0.099	ug/L		10/13/12 11:25	10/16/12 04:41	1
Aroclor 1254	ND		0.50	0.16	ug/L		10/13/12 11:25	10/16/12 04:41	1
Aroclor 1260	ND		0.50	0.17	ug/L		10/13/12 11:25	10/16/12 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*23 - 136*	*10/13/12 11:25*	*10/16/12 04:41*	*1*
DCB Decachlorobiphenyl	*43*		*10 - 130*	*10/13/12 11:25*	*10/16/12 04:41*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**210**	B	200	0.67	ug/L		10/15/12 08:27	10/16/12 07:03	1
Cadmium	ND		2.0	0.66	ug/L		10/15/12 08:27	10/16/12 07:03	1
Chromium	**16**		5.0	2.2	ug/L		10/15/12 08:27	10/16/12 07:03	1
Silver	ND		5.0	2.2	ug/L		10/15/12 08:27	10/16/12 07:03	1
Arsenic	**6.9**	J	10	3.2	ug/L		10/15/12 08:27	10/16/12 07:03	1
Lead	**7.1**		3.0	1.9	ug/L		10/15/12 08:27	10/16/12 07:03	1
Selenium	ND		5.0	4.1	ug/L		10/15/12 08:27	10/16/12 07:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**	J	0.20	0.12	ug/L		10/18/12 10:15	10/18/12 14:41	1

Client Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: RRMW-01
Date Collected: 10/12/12 15:30
Date Received: 10/12/12 17:35

Lab Sample ID: 240-16332-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.3	J	10	1.1	ug/L			10/17/12 15:08	1
Benzene	ND		1.0	0.13	ug/L			10/17/12 15:08	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/17/12 15:08	1
Bromoform	ND		1.0	0.64	ug/L			10/17/12 15:08	1
Bromomethane	ND		1.0	0.41	ug/L			10/17/12 15:08	1
2-Butanone (MEK)	ND		10	0.57	ug/L			10/17/12 15:08	1
Carbon disulfide	ND		1.0	0.13	ug/L			10/17/12 15:08	1
Carbon tetrachloride	ND		1.0	0.13	ug/L			10/17/12 15:08	1
Chlorobenzene	ND		1.0	0.15	ug/L			10/17/12 15:08	1
Chloroethane	ND		1.0	0.29	ug/L			10/17/12 15:08	1
Chloroform	ND		1.0	0.16	ug/L			10/17/12 15:08	1
Chloromethane	ND		1.0	0.30	ug/L			10/17/12 15:08	1
cis-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/17/12 15:08	1
cis-1,3-Dichloropropene	ND		1.0	0.14	ug/L			10/17/12 15:08	1
Dibromochloromethane	ND		1.0	0.18	ug/L			10/17/12 15:08	1
1,1-Dichloroethane	ND		1.0	0.15	ug/L			10/17/12 15:08	1
1,2-Dichloroethane	ND		1.0	0.22	ug/L			10/17/12 15:08	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			10/17/12 15:08	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			10/17/12 15:08	1
Ethylbenzene	ND		1.0	0.17	ug/L			10/17/12 15:08	1
2-Hexanone	ND		10	0.41	ug/L			10/17/12 15:08	1
Methylene Chloride	ND		1.0	0.33	ug/L			10/17/12 15:08	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.32	ug/L			10/17/12 15:08	1
Styrene	ND		1.0	0.11	ug/L			10/17/12 15:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.18	ug/L			10/17/12 15:08	1
Tetrachloroethene	ND		1.0	0.29	ug/L			10/17/12 15:08	1
Toluene	ND		1.0	0.13	ug/L			10/17/12 15:08	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/17/12 15:08	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/17/12 15:08	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/17/12 15:08	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/17/12 15:08	1
Trichloroethene	ND		1.0	0.17	ug/L			10/17/12 15:08	1
Vinyl chloride	ND		1.0	0.22	ug/L			10/17/12 15:08	1
Xylenes, Total	ND		2.0	0.28	ug/L			10/17/12 15:08	1
Methyl tert-butyl ether	ND		5.0	0.17	ug/L			10/17/12 15:08	1
n-Hexane	ND		1.0	0.26	ug/L			10/17/12 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*66 - 117*		*10/17/12 15:08*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 121*		*10/17/12 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*63 - 129*		*10/17/12 15:08*	*1*
Toluene-d8 (Surr)	*89*		*74 - 115*		*10/17/12 15:08*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Acenaphthylene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Anthracene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1

Client Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: RRMW-01
Date Collected: 10/12/12 15:30
Date Received: 10/12/12 17:35

Lab Sample ID: 240-16332-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Bis(2-chloroethoxy)methane	ND		1.0	0.33	ug/L		10/13/12 11:14	10/17/12 10:46	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Bis(2-ethylhexyl) phthalate	**1.9**	J	2.1	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
4-Bromophenyl phenyl ether	ND		2.1	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
Butyl benzyl phthalate	ND		1.0	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
4-Chloroaniline	ND		2.1	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
4-Chloro-3-methylphenol	ND		2.1	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
2-Chlorophenol	ND		1.0	0.30	ug/L		10/13/12 11:14	10/17/12 10:46	1
4-Chlorophenyl phenyl ether	ND		2.1	0.31	ug/L		10/13/12 11:14	10/17/12 10:46	1
Chrysene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Dibenzofuran	ND		1.0	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
1,2-Dichlorobenzene	ND		1.0	0.30	ug/L		10/13/12 11:14	10/17/12 10:46	1
1,3-Dichlorobenzene	ND		1.0	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
1,4-Dichlorobenzene	ND		1.0	0.35	ug/L		10/13/12 11:14	10/17/12 10:46	1
3,3'-Dichlorobenzidine	ND		5.2	0.39	ug/L		10/13/12 11:14	10/17/12 10:46	1
2,4-Dichlorophenol	ND		2.1	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
Diethyl phthalate	ND		1.0	0.62	ug/L		10/13/12 11:14	10/17/12 10:46	1
2,4-Dimethylphenol	ND		2.1	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
Dimethyl phthalate	ND		1.0	0.30	ug/L		10/13/12 11:14	10/17/12 10:46	1
Di-n-butyl phthalate	ND		1.0	0.70	ug/L		10/13/12 11:14	10/17/12 10:46	1
4,6-Dinitro-2-methylphenol	ND		5.2	2.5	ug/L		10/13/12 11:14	10/17/12 10:46	1
2,4-Dinitrophenol	ND		5.2	2.5	ug/L		10/13/12 11:14	10/17/12 10:46	1
2,4-Dinitrotoluene	ND		5.2	0.28	ug/L		10/13/12 11:14	10/17/12 10:46	1
2,6-Dinitrotoluene	ND		5.2	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
Di-n-octyl phthalate	ND		1.0	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
Fluoranthene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Fluorene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Hexachlorobenzene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L		10/13/12 11:14	10/17/12 10:46	1
Hexachlorocyclopentadiene	ND		10	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
Hexachloroethane	ND		1.0	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Isophorone	ND		1.0	0.28	ug/L		10/13/12 11:14	10/17/12 10:46	1
2-Methylnaphthalene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
2-Methylphenol	ND		1.0	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
3 & 4 Methylphenol	ND		2.1	0.78	ug/L		10/13/12 11:14	10/17/12 10:46	1
Naphthalene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
2-Nitroaniline	ND		2.1	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
3-Nitroaniline	ND		2.1	0.29	ug/L		10/13/12 11:14	10/17/12 10:46	1
4-Nitroaniline	ND		2.1	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
Nitrobenzene	ND		1.0	0.042	ug/L		10/13/12 11:14	10/17/12 10:46	1
2-Nitrophenol	ND		2.1	0.29	ug/L		10/13/12 11:14	10/17/12 10:46	1
4-Nitrophenol	ND		5.2	2.5	ug/L		10/13/12 11:14	10/17/12 10:46	1
N-Nitrosodi-n-propylamine	ND		1.0	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1
N-Nitrosodiphenylamine	ND		1.0	0.32	ug/L		10/13/12 11:14	10/17/12 10:46	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.42	ug/L		10/13/12 11:14	10/17/12 10:46	1
Pentachlorophenol	ND		5.2	2.5	ug/L		10/13/12 11:14	10/17/12 10:46	1

Client Sample ID: RRMW-01

Lab Sample ID: 240-16332-3

Date Collected: 10/12/12 15:30

Matrix: Water

Date Received: 10/12/12 17:35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
Phenol	ND		1.0	0.62	ug/L		10/13/12 11:14	10/17/12 10:46	1
Pyrene	ND		0.21	0.10	ug/L		10/13/12 11:14	10/17/12 10:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.29	ug/L		10/13/12 11:14	10/17/12 10:46	1
2,4,5-Trichlorophenol	ND		5.2	0.31	ug/L		10/13/12 11:14	10/17/12 10:46	1
2,4,6-Trichlorophenol	ND		5.2	0.83	ug/L		10/13/12 11:14	10/17/12 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*20 - 110*	*10/13/12 11:14*	*10/17/12 10:46*	*1*
2-Fluorophenol (Surr)	*61*		*10 - 110*	*10/13/12 11:14*	*10/17/12 10:46*	*1*
Nitrobenzene-d5 (Surr)	*62*		*21 - 110*	*10/13/12 11:14*	*10/17/12 10:46*	*1*
Phenol-d5 (Surr)	*63*		*21 - 110*	*10/13/12 11:14*	*10/17/12 10:46*	*1*
Terphenyl-d14 (Surr)	*59*		*24 - 110*	*10/13/12 11:14*	*10/17/12 10:46*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*21 - 110*	*10/13/12 11:14*	*10/17/12 10:46*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.54	0.18	ug/L		10/13/12 11:25	10/16/12 04:55	1
Aroclor 1221	ND		0.54	0.14	ug/L		10/13/12 11:25	10/16/12 04:55	1
Aroclor 1232	ND		0.54	0.17	ug/L		10/13/12 11:25	10/16/12 04:55	1
Aroclor 1242	ND		0.54	0.24	ug/L		10/13/12 11:25	10/16/12 04:55	1
Aroclor 1248	ND		0.54	0.11	ug/L		10/13/12 11:25	10/16/12 04:55	1
Aroclor 1254	ND		0.54	0.17	ug/L		10/13/12 11:25	10/16/12 04:55	1
Aroclor 1260	ND		0.54	0.18	ug/L		10/13/12 11:25	10/16/12 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*23 - 136*	*10/13/12 11:25*	*10/16/12 04:55*	*1*
DCB Decachlorobiphenyl	*22*		*10 - 130*	*10/13/12 11:25*	*10/16/12 04:55*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		5.0	2.2	ug/L		10/15/12 08:27	10/16/12 07:09	1
Arsenic	ND		10	3.2	ug/L		10/15/12 08:27	10/16/12 07:09	1
Barium	**27**	J B	200	0.67	ug/L		10/15/12 08:27	10/16/12 07:09	1
Cadmium	ND		2.0	0.66	ug/L		10/15/12 08:27	10/16/12 07:09	1
Chromium	**2.9**	J	5.0	2.2	ug/L		10/15/12 08:27	10/16/12 07:09	1
Lead	ND		3.0	1.9	ug/L		10/15/12 08:27	10/16/12 07:09	1
Selenium	ND		5.0	4.1	ug/L		10/15/12 08:27	10/16/12 07:09	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**	J	0.20	0.12	ug/L		10/18/12 10:15	10/18/12 14:43	1

Client Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: TB-11/101212

Lab Sample ID: 240-16332-4

Date Collected: 10/12/12 00:00
Date Received: 10/12/12 17:35

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.7	J	10	1.1	ug/L			10/17/12 15:31	1
Benzene	ND		1.0	0.13	ug/L			10/17/12 15:31	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/17/12 15:31	1
Bromoform	ND		1.0	0.64	ug/L			10/17/12 15:31	1
Bromomethane	ND		1.0	0.41	ug/L			10/17/12 15:31	1
2-Butanone (MEK)	ND		10	0.57	ug/L			10/17/12 15:31	1
Carbon disulfide	ND		1.0	0.13	ug/L			10/17/12 15:31	1
Carbon tetrachloride	ND		1.0	0.13	ug/L			10/17/12 15:31	1
Chlorobenzene	ND		1.0	0.15	ug/L			10/17/12 15:31	1
Chloroethane	ND		1.0	0.29	ug/L			10/17/12 15:31	1
Chloroform	ND		1.0	0.16	ug/L			10/17/12 15:31	1
Chloromethane	ND		1.0	0.30	ug/L			10/17/12 15:31	1
cis-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/17/12 15:31	1
cis-1,3-Dichloropropene	ND		1.0	0.14	ug/L			10/17/12 15:31	1
Dibromochloromethane	ND		1.0	0.18	ug/L			10/17/12 15:31	1
1,1-Dichloroethane	ND		1.0	0.15	ug/L			10/17/12 15:31	1
1,2-Dichloroethane	ND		1.0	0.22	ug/L			10/17/12 15:31	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			10/17/12 15:31	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			10/17/12 15:31	1
Ethylbenzene	ND		1.0	0.17	ug/L			10/17/12 15:31	1
2-Hexanone	ND		10	0.41	ug/L			10/17/12 15:31	1
Methylene Chloride	ND		1.0	0.33	ug/L			10/17/12 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.32	ug/L			10/17/12 15:31	1
Styrene	ND		1.0	0.11	ug/L			10/17/12 15:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.18	ug/L			10/17/12 15:31	1
Tetrachloroethene	ND		1.0	0.29	ug/L			10/17/12 15:31	1
Toluene	ND		1.0	0.13	ug/L			10/17/12 15:31	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/17/12 15:31	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/17/12 15:31	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/17/12 15:31	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/17/12 15:31	1
Trichloroethene	ND		1.0	0.17	ug/L			10/17/12 15:31	1
Vinyl chloride	ND		1.0	0.22	ug/L			10/17/12 15:31	1
Xylenes, Total	ND		2.0	0.28	ug/L			10/17/12 15:31	1
Methyl tert-butyl ether	ND		5.0	0.17	ug/L			10/17/12 15:31	1
n-Hexane	ND		1.0	0.26	ug/L			10/17/12 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*66 - 117*		*10/17/12 15:31*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 121*		*10/17/12 15:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*63 - 129*		*10/17/12 15:31*	*1*
Toluene-d8 (Surr)	*84*		*74 - 115*		*10/17/12 15:31*	*1*

Surrogate Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(66-117)	(75-121)	(63-129)	(74-115)
240-16332-1	RRMW-02	88	104	107	86
240-16332-2	RRMW-04	90	105	109	88
240-16332-3	RRMW-01	95	107	113	89
240-16332-4	TB-11/101212	86	105	113	84
LCS 240-61631/4	Lab Control Sample	107	102	99	93
MB 240-61631/5	Method Blank	89	109	111	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(20-110)	(10-110)	(21-110)	(21-110)	(24-110)	(21-110)
240-16332-1	RRMW-02	64	64	63	65	75	62
240-16332-2	RRMW-04	63	63	62	65	75	64
240-16332-3	RRMW-01	63	61	62	63	59	62
LCS 240-61238/5-A	Lab Control Sample	77	76	75	77	83	77
MB 240-61238/4-A	Method Blank	73	72	73	73	90	63

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(23-136)	(10-130)
240-16332-1	RRMW-02	88	73
240-16332-2	RRMW-04	87	43
240-16332-3	RRMW-01	88	22
LCS 240-61242/6-A	Lab Control Sample	87	88
MB 240-61242/5-A	Method Blank	82	94

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

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

Lab Sample ID: MB 240-61631/5
Matrix: Water
Analysis Batch: 61631

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.1	ug/L			10/17/12 11:29	1
Benzene	ND		1.0	0.13	ug/L			10/17/12 11:29	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/17/12 11:29	1
Bromoform	ND		1.0	0.64	ug/L			10/17/12 11:29	1
Bromomethane	ND		1.0	0.41	ug/L			10/17/12 11:29	1
2-Butanone (MEK)	ND		10	0.57	ug/L			10/17/12 11:29	1
Carbon disulfide	ND		1.0	0.13	ug/L			10/17/12 11:29	1
Carbon tetrachloride	ND		1.0	0.13	ug/L			10/17/12 11:29	1
Chlorobenzene	ND		1.0	0.15	ug/L			10/17/12 11:29	1
Chloroethane	ND		1.0	0.29	ug/L			10/17/12 11:29	1
Chloroform	ND		1.0	0.16	ug/L			10/17/12 11:29	1
Chloromethane	ND		1.0	0.30	ug/L			10/17/12 11:29	1
cis-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/17/12 11:29	1
cis-1,3-Dichloropropene	ND		1.0	0.14	ug/L			10/17/12 11:29	1
Dibromochloromethane	ND		1.0	0.18	ug/L			10/17/12 11:29	1
1,1-Dichloroethane	ND		1.0	0.15	ug/L			10/17/12 11:29	1
1,2-Dichloroethane	ND		1.0	0.22	ug/L			10/17/12 11:29	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			10/17/12 11:29	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			10/17/12 11:29	1
Ethylbenzene	ND		1.0	0.17	ug/L			10/17/12 11:29	1
2-Hexanone	ND		10	0.41	ug/L			10/17/12 11:29	1
Methylene Chloride	0.868	J	1.0	0.33	ug/L			10/17/12 11:29	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.32	ug/L			10/17/12 11:29	1
Styrene	ND		1.0	0.11	ug/L			10/17/12 11:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.18	ug/L			10/17/12 11:29	1
Tetrachloroethene	ND		1.0	0.29	ug/L			10/17/12 11:29	1
Toluene	ND		1.0	0.13	ug/L			10/17/12 11:29	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/17/12 11:29	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/17/12 11:29	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/17/12 11:29	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/17/12 11:29	1
Trichloroethene	ND		1.0	0.17	ug/L			10/17/12 11:29	1
Vinyl chloride	ND		1.0	0.22	ug/L			10/17/12 11:29	1
Xylenes, Total	ND		2.0	0.28	ug/L			10/17/12 11:29	1
Methyl tert-butyl ether	ND		5.0	0.17	ug/L			10/17/12 11:29	1
n-Hexane	ND		1.0	0.26	ug/L			10/17/12 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*66 - 117*		*10/17/12 11:29*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 121*		*10/17/12 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 129*		*10/17/12 11:29*	*1*
Toluene-d8 (Surr)	*91*		*74 - 115*		*10/17/12 11:29*	*1*

Lab Sample ID: LCS 240-61631/4
Matrix: Water
Analysis Batch: 61631

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	20.2		ug/L		101	43 - 136

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

Lab Sample ID: LCS 240-61631/4
Matrix: Water
Analysis Batch: 61631

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.0		ug/L		100	83 - 112
Bromodichloromethane	10.0	10.7		ug/L		107	72 - 121
Bromoform	10.0	10.7		ug/L		107	40 - 131
Bromomethane	10.0	8.27		ug/L		83	11 - 185
2-Butanone (MEK)	20.0	18.0		ug/L		90	60 - 126
Carbon disulfide	10.0	9.81		ug/L		98	62 - 142
Carbon tetrachloride	10.0	12.1		ug/L		121	66 - 128
Chlorobenzene	10.0	9.35		ug/L		94	85 - 110
Chloroethane	10.0	9.11		ug/L		91	25 - 153
Chloroform	10.0	10.2		ug/L		102	79 - 117
Chloromethane	10.0	8.12		ug/L		81	44 - 126
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	80 - 113
cis-1,3-Dichloropropene	10.0	9.27		ug/L		93	61 - 115
Dibromochloromethane	10.0	9.14		ug/L		91	64 - 119
1,1-Dichloroethane	10.0	10.7		ug/L		107	82 - 115
1,2-Dichloroethane	10.0	10.4		ug/L		104	71 - 127
1,1-Dichloroethene	10.0	10.4		ug/L		104	78 - 131
1,2-Dichloropropane	10.0	9.78		ug/L		98	81 - 115
Ethylbenzene	10.0	9.31		ug/L		93	83 - 112
2-Hexanone	20.0	18.7		ug/L		93	55 - 133
Methylene Chloride	10.0	11.4		ug/L		114	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	19.9		ug/L		100	63 - 128
Styrene	10.0	10.2		ug/L		102	79 - 114
1,1,2,2-Tetrachloroethane	10.0	8.89		ug/L		89	68 - 118
Tetrachloroethene	10.0	9.01		ug/L		90	79 - 114
Toluene	10.0	9.13		ug/L		91	84 - 111
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	83 - 117
trans-1,3-Dichloropropene	10.0	8.20		ug/L		82	58 - 117
1,1,1-Trichloroethane	10.0	11.3		ug/L		113	74 - 118
1,1,2-Trichloroethane	10.0	9.72		ug/L		97	80 - 112
Trichloroethene	10.0	9.52		ug/L		95	76 - 117
Vinyl chloride	10.0	8.44		ug/L		84	53 - 127
Xylenes, Total	30.0	29.9		ug/L		100	83 - 112
Methyl tert-butyl ether	10.0	10.3		ug/L		103	52 - 144
n-Hexane	10.0	9.23		ug/L		92	66 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*66 - 117*
Dibromofluoromethane (Surr)	*102*		*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 129*
Toluene-d8 (Surr)	*93*		*74 - 115*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-61238/4-A
Matrix: Water
Analysis Batch: 61595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Acenaphthylene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Anthracene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		10/13/12 11:14	10/17/12 09:13	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Bis(2-ethylhexyl) phthalate	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
4-Bromophenyl phenyl ether	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
Butyl benzyl phthalate	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
4-Chloroaniline	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
4-Chloro-3-methylphenol	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
2-Chlorophenol	ND		1.0	0.29	ug/L		10/13/12 11:14	10/17/12 09:13	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		10/13/12 11:14	10/17/12 09:13	1
Chrysene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Dibenzofuran	ND		1.0	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
1,2-Dichlorobenzene	ND		1.0	0.29	ug/L		10/13/12 11:14	10/17/12 09:13	1
1,3-Dichlorobenzene	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
1,4-Dichlorobenzene	ND		1.0	0.34	ug/L		10/13/12 11:14	10/17/12 09:13	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		10/13/12 11:14	10/17/12 09:13	1
2,4-Dichlorophenol	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
Diethyl phthalate	ND		1.0	0.60	ug/L		10/13/12 11:14	10/17/12 09:13	1
2,4-Dimethylphenol	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
Dimethyl phthalate	ND		1.0	0.29	ug/L		10/13/12 11:14	10/17/12 09:13	1
Di-n-butyl phthalate	ND		1.0	0.67	ug/L		10/13/12 11:14	10/17/12 09:13	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		10/13/12 11:14	10/17/12 09:13	1
2,4-Dinitrophenol	ND		5.0	2.4	ug/L		10/13/12 11:14	10/17/12 09:13	1
2,4-Dinitrotoluene	ND		5.0	0.27	ug/L		10/13/12 11:14	10/17/12 09:13	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
Di-n-octyl phthalate	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
Fluoranthene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Fluorene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Hexachlorobenzene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		10/13/12 11:14	10/17/12 09:13	1
Hexachlorocyclopentadiene	ND		10	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
Hexachloroethane	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Isophorone	ND		1.0	0.27	ug/L		10/13/12 11:14	10/17/12 09:13	1
2-Methylnaphthalene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
2-Methylphenol	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
3 & 4 Methylphenol	ND		2.0	0.75	ug/L		10/13/12 11:14	10/17/12 09:13	1
Naphthalene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
2-Nitroaniline	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
3-Nitroaniline	ND		2.0	0.28	ug/L		10/13/12 11:14	10/17/12 09:13	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-61238/4-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 61595 — **Prep Batch: 61238**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		2.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
Nitrobenzene	ND		1.0	0.040	ug/L		10/13/12 11:14	10/17/12 09:13	1
2-Nitrophenol	ND		2.0	0.28	ug/L		10/13/12 11:14	10/17/12 09:13	1
4-Nitrophenol	ND		5.0	2.4	ug/L		10/13/12 11:14	10/17/12 09:13	1
N-Nitrosodi-n-propylamine	ND		1.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		10/13/12 11:14	10/17/12 09:13	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		10/13/12 11:14	10/17/12 09:13	1
Pentachlorophenol	ND		5.0	2.4	ug/L		10/13/12 11:14	10/17/12 09:13	1
Phenanthrene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
Phenol	ND		1.0	0.60	ug/L		10/13/12 11:14	10/17/12 09:13	1
Pyrene	ND		0.20	0.10	ug/L		10/13/12 11:14	10/17/12 09:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.28	ug/L		10/13/12 11:14	10/17/12 09:13	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		10/13/12 11:14	10/17/12 09:13	1
2,4,6-Trichlorophenol	ND		5.0	0.80	ug/L		10/13/12 11:14	10/17/12 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*20 - 110*	*10/13/12 11:14*	*10/17/12 09:13*	*1*
2-Fluorophenol (Surr)	*72*		*10 - 110*	*10/13/12 11:14*	*10/17/12 09:13*	*1*
Nitrobenzene-d5 (Surr)	*73*		*21 - 110*	*10/13/12 11:14*	*10/17/12 09:13*	*1*
Phenol-d5 (Surr)	*73*		*21 - 110*	*10/13/12 11:14*	*10/17/12 09:13*	*1*
Terphenyl-d14 (Surr)	*90*		*24 - 110*	*10/13/12 11:14*	*10/17/12 09:13*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*21 - 110*	*10/13/12 11:14*	*10/17/12 09:13*	*1*

Lab Sample ID: LCS 240-61238/5-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 61595 — **Prep Batch: 61238**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	16.4		ug/L		82	47 - 110
Acenaphthylene	20.0	16.5		ug/L		83	49 - 110
Anthracene	20.0	16.2		ug/L		81	52 - 110
Benzo[a]anthracene	20.0	15.4		ug/L		77	52 - 110
Benzo[a]pyrene	20.0	13.0		ug/L		65	44 - 110
Benzo[b]fluoranthene	20.0	15.9		ug/L		79	48 - 110
Benzo[g,h,i]perylene	20.0	15.7		ug/L		79	50 - 110
Benzo[k]fluoranthene	20.0	15.6		ug/L		78	49 - 110
Bis(2-chloroethoxy)methane	20.0	15.7		ug/L		78	43 - 110
Bis(2-chloroethyl)ether	20.0	15.6		ug/L		78	40 - 110
Bis(2-ethylhexyl) phthalate	20.0	16.1		ug/L		81	39 - 116
4-Bromophenyl phenyl ether	20.0	15.8		ug/L		79	45 - 110
Butyl benzyl phthalate	20.0	15.9		ug/L		79	55 - 110
4-Chloroaniline	20.0	15.0		ug/L		75	44 - 110
4-Chloro-3-methylphenol	20.0	15.8		ug/L		79	52 - 110
2-Chloronaphthalene	20.0	16.2		ug/L		81	43 - 110
2-Chlorophenol	20.0	16.1		ug/L		81	29 - 110
4-Chlorophenyl phenyl ether	20.0	16.4		ug/L		82	47 - 110
Chrysene	20.0	16.5		ug/L		83	55 - 110
Dibenz(a,h)anthracene	20.0	14.1		ug/L		70	49 - 110
Dibenzofuran	20.0	16.4		ug/L		82	51 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-61238/5-A
Matrix: Water
Analysis Batch: 61595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	20.0	15.8		ug/L		79	38 - 110
1,3-Dichlorobenzene	20.0	15.4		ug/L		77	35 - 110
1,4-Dichlorobenzene	20.0	15.9		ug/L		80	39 - 110
3,3'-Dichlorobenzidine	20.0	8.91		ug/L		45	22 - 110
2,4-Dichlorophenol	20.0	16.3		ug/L		81	41 - 110
Diethyl phthalate	20.0	16.5		ug/L		83	58 - 110
2,4-Dimethylphenol	20.0	14.4		ug/L		72	32 - 110
Dimethyl phthalate	20.0	16.6		ug/L		83	57 - 110
Di-n-butyl phthalate	20.0	16.4		ug/L		82	57 - 110
4,6-Dinitro-2-methylphenol	20.0	13.0		ug/L		65	31 - 110
2,4-Dinitrophenol	20.0	11.4		ug/L		57	10 - 110
2,4-Dinitrotoluene	20.0	17.1		ug/L		85	53 - 110
2,6-Dinitrotoluene	20.0	17.6		ug/L		88	54 - 110
Di-n-octyl phthalate	20.0	13.5		ug/L		68	40 - 110
Fluoranthene	20.0	16.4		ug/L		82	54 - 110
Fluorene	20.0	16.8		ug/L		84	52 - 110
Hexachlorobenzene	20.0	15.8		ug/L		79	50 - 110
Hexachlorobutadiene	20.0	15.1		ug/L		76	33 - 110
Hexachlorocyclopentadiene	20.0	12.3		ug/L		61	10 - 110
Hexachloroethane	20.0	14.9		ug/L		74	35 - 110
Indeno[1,2,3-cd]pyrene	20.0	14.3		ug/L		71	50 - 110
Isophorone	20.0	15.7		ug/L		79	49 - 110
2-Methylnaphthalene	20.0	16.0		ug/L		80	45 - 110
2-Methylphenol	20.0	15.6		ug/L		78	42 - 110
3 & 4 Methylphenol	40.0	31.0		ug/L		78	44 - 110
Naphthalene	20.0	16.3		ug/L		82	44 - 110
2-Nitroaniline	20.0	15.6		ug/L		78	54 - 110
3-Nitroaniline	20.0	16.0		ug/L		80	53 - 110
4-Nitroaniline	20.0	15.9		ug/L		79	54 - 110
Nitrobenzene	20.0	15.3		ug/L		77	42 - 110
2-Nitrophenol	20.0	16.3		ug/L		82	40 - 110
4-Nitrophenol	20.0	15.5		ug/L		78	33 - 112
N-Nitrosodi-n-propylamine	20.0	15.2		ug/L		76	47 - 110
N-Nitrosodiphenylamine	20.0	16.2		ug/L		81	50 - 110
2,2'-oxybis[1-chloropropane]	20.0	14.2		ug/L		71	37 - 110
Pentachlorophenol	20.0	11.6		ug/L		58	18 - 110
Phenanthrene	20.0	16.3		ug/L		82	53 - 110
Phenol	20.0	15.7		ug/L		79	33 - 110
Pyrene	20.0	15.8		ug/L		79	52 - 110
1,2,4-Trichlorobenzene	20.0	15.4		ug/L		77	35 - 110
2,4,5-Trichlorophenol	20.0	16.2		ug/L		81	48 - 110
2,4,6-Trichlorophenol	20.0	16.6		ug/L		83	45 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*20 - 110*
2-Fluorophenol (Surr)	*76*		*10 - 110*
Nitrobenzene-d5 (Surr)	*75*		*21 - 110*
Phenol-d5 (Surr)	*77*		*21 - 110*
Terphenyl-d14 (Surr)	*83*		*24 - 110*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-61238/5-A
Matrix: Water
Analysis Batch: 61595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61238

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*77*		*21 - 110*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-61242/5-A
Matrix: Water
Analysis Batch: 61421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.50	0.17	ug/L		10/13/12 11:25	10/16/12 05:09	1
Aroclor 1221	ND		0.50	0.13	ug/L		10/13/12 11:25	10/16/12 05:09	1
Aroclor 1232	ND		0.50	0.16	ug/L		10/13/12 11:25	10/16/12 05:09	1
Aroclor 1242	ND		0.50	0.22	ug/L		10/13/12 11:25	10/16/12 05:09	1
Aroclor 1248	ND		0.50	0.10	ug/L		10/13/12 11:25	10/16/12 05:09	1
Aroclor 1254	ND		0.50	0.16	ug/L		10/13/12 11:25	10/16/12 05:09	1
Aroclor 1260	ND		0.50	0.17	ug/L		10/13/12 11:25	10/16/12 05:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*23 - 136*	*10/13/12 11:25*	*10/16/12 05:09*	*1*
DCB Decachlorobiphenyl	*94*		*10 - 130*	*10/13/12 11:25*	*10/16/12 05:09*	*1*

Lab Sample ID: LCS 240-61242/6-A
Matrix: Water
Analysis Batch: 61421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	5.00	3.88		ug/L		78	66 - 120
Aroclor 1260	5.00	4.88		ug/L		98	55 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*23 - 136*
DCB Decachlorobiphenyl	*88*		*10 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-61280/1-A
Matrix: Water
Analysis Batch: 61448

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 61280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.818	J	200	0.67	ug/L		10/15/12 08:27	10/16/12 06:45	1
Cadmium	ND		2.0	0.66	ug/L		10/15/12 08:27	10/16/12 06:45	1
Silver	ND		5.0	2.2	ug/L		10/15/12 08:27	10/16/12 06:45	1
Arsenic	ND		10	3.2	ug/L		10/15/12 08:27	10/16/12 06:45	1
Chromium	ND		5.0	2.2	ug/L		10/15/12 08:27	10/16/12 06:45	1
Lead	ND		3.0	1.9	ug/L		10/15/12 08:27	10/16/12 06:45	1
Selenium	ND		5.0	4.1	ug/L		10/15/12 08:27	10/16/12 06:45	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-61280/2-A
Matrix: Water
Analysis Batch: 61448

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 61280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	2020		ug/L		101	80 - 120
Cadmium	50.0	50.9		ug/L		102	80 - 120
Silver	50.0	50.7		ug/L		101	80 - 120
Arsenic	2000	2000		ug/L		100	80 - 120
Chromium	200	203		ug/L		101	80 - 120
Lead	500	507		ug/L		101	80 - 120
Selenium	2000	2060		ug/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-61789/1-A
Matrix: Water
Analysis Batch: 61889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.12	ug/L		10/18/12 10:15	10/18/12 13:51	1

Lab Sample ID: LCS 240-61789/2-A
Matrix: Water
Analysis Batch: 61889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.06		ug/L		101	81 - 123

QC Association Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

GC/MS VOA

Analysis Batch: 61631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-16332-1	RRMW-02	Total/NA	Water	8260B	
240-16332-2	RRMW-04	Total/NA	Water	8260B	
240-16332-3	RRMW-01	Total/NA	Water	8260B	
240-16332-4	TB-11/101212	Total/NA	Water	8260B	
LCS 240-61631/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-61631/5	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 61238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-16332-1	RRMW-02	Total/NA	Water	3520C	
240-16332-2	RRMW-04	Total/NA	Water	3520C	
240-16332-3	RRMW-01	Total/NA	Water	3520C	
LCS 240-61238/5-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-61238/4-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 61595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-16332-1	RRMW-02	Total/NA	Water	8270C	61238
240-16332-2	RRMW-04	Total/NA	Water	8270C	61238
240-16332-3	RRMW-01	Total/NA	Water	8270C	61238
LCS 240-61238/5-A	Lab Control Sample	Total/NA	Water	8270C	61238
MB 240-61238/4-A	Method Blank	Total/NA	Water	8270C	61238

GC Semi VOA

Prep Batch: 61242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-16332-1	RRMW-02	Total/NA	Water	3520C	
240-16332-2	RRMW-04	Total/NA	Water	3520C	
240-16332-3	RRMW-01	Total/NA	Water	3520C	
LCS 240-61242/6-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-61242/5-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 61421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-16332-1	RRMW-02	Total/NA	Water	8082	61242
240-16332-2	RRMW-04	Total/NA	Water	8082	61242
240-16332-3	RRMW-01	Total/NA	Water	8082	61242
LCS 240-61242/6-A	Lab Control Sample	Total/NA	Water	8082	61242
MB 240-61242/5-A	Method Blank	Total/NA	Water	8082	61242

Metals

Prep Batch: 61280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-16332-1	RRMW-02	Total Recoverable	Water	3005A	
240-16332-2	RRMW-04	Total Recoverable	Water	3005A	
240-16332-3	RRMW-01	Dissolved	Water	3005A	
LCS 240-61280/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Metals (Continued)

Prep Batch: 61280 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-61280/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 61448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-16332-1	RRMW-02	Total Recoverable	Water	6010B	61280
240-16332-2	RRMW-04	Total Recoverable	Water	6010B	61280
240-16332-3	RRMW-01	Dissolved	Water	6010B	61280
LCS 240-61280/2-A	Lab Control Sample	Total Recoverable	Water	6010B	61280
MB 240-61280/1-A	Method Blank	Total Recoverable	Water	6010B	61280

Prep Batch: 61789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-16332-1	RRMW-02	Total/NA	Water	7470A	
240-16332-2	RRMW-04	Total/NA	Water	7470A	
240-16332-3	RRMW-01	Dissolved	Water	7470A	
LCS 240-61789/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-61789/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 61889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-16332-1	RRMW-02	Total/NA	Water	7470A	61789
240-16332-2	RRMW-04	Total/NA	Water	7470A	61789
240-16332-3	RRMW-01	Dissolved	Water	7470A	61789
LCS 240-61789/2-A	Lab Control Sample	Total/NA	Water	7470A	61789
MB 240-61789/1-A	Method Blank	Total/NA	Water	7470A	61789

Lab Chronicle

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: RRMW-02

Lab Sample ID: 240-16332-1

Date Collected: 10/12/12 10:05
Matrix: Water
Date Received: 10/12/12 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	61631	10/17/12 14:22	LE	TAL NC
Total/NA	Prep	3520C			61238	10/13/12 11:14	SE	TAL NC
Total/NA	Analysis	8270C		1	61595	10/17/12 09:59	TH	TAL NC
Total/NA	Prep	3520C			61242	10/13/12 11:25	SE	TAL NC
Total/NA	Analysis	8082		1	61421	10/16/12 04:27	LH	TAL NC
Total Recoverable	Prep	3005A			61280	10/15/12 08:27	SG	TAL NC
Total Recoverable	Analysis	6010B		1	61448	10/16/12 06:57	BD	TAL NC
Total/NA	Prep	7470A			61789	10/18/12 10:15	SG	TAL NC
Total/NA	Analysis	7470A		1	61889	10/18/12 14:39	DH	TAL NC

Client Sample ID: RRMW-04

Lab Sample ID: 240-16332-2

Date Collected: 10/12/12 12:20
Matrix: Water
Date Received: 10/12/12 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	61631	10/17/12 14:45	LE	TAL NC
Total/NA	Prep	3520C			61238	10/13/12 11:14	SE	TAL NC
Total/NA	Analysis	8270C		1	61595	10/17/12 10:23	TH	TAL NC
Total/NA	Prep	3520C			61242	10/13/12 11:25	SE	TAL NC
Total/NA	Analysis	8082		1	61421	10/16/12 04:41	LH	TAL NC
Total Recoverable	Prep	3005A			61280	10/15/12 08:27	SG	TAL NC
Total Recoverable	Analysis	6010B		1	61448	10/16/12 07:03	BD	TAL NC
Total/NA	Prep	7470A			61789	10/18/12 10:15	SG	TAL NC
Total/NA	Analysis	7470A		1	61889	10/18/12 14:41	DH	TAL NC

Client Sample ID: RRMW-01

Lab Sample ID: 240-16332-3

Date Collected: 10/12/12 15:30
Matrix: Water
Date Received: 10/12/12 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	61631	10/17/12 15:08	LE	TAL NC
Total/NA	Prep	3520C			61238	10/13/12 11:14	SE	TAL NC
Total/NA	Analysis	8270C		1	61595	10/17/12 10:46	TH	TAL NC
Total/NA	Prep	3520C			61242	10/13/12 11:25	SE	TAL NC
Total/NA	Analysis	8082		1	61421	10/16/12 04:55	LH	TAL NC
Dissolved	Prep	3005A			61280	10/15/12 08:27	SG	TAL NC
Dissolved	Analysis	6010B		1	61448	10/16/12 07:09	BD	TAL NC
Dissolved	Prep	7470A			61789	10/18/12 10:15	SG	TAL NC
Dissolved	Analysis	7470A		1	61889	10/18/12 14:43	DH	TAL NC

Lab Chronicle

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Client Sample ID: TB-11/101212
Date Collected: 10/12/12 00:00
Date Received: 10/12/12 17:35

Lab Sample ID: 240-16332-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	61631	10/17/12 15:31	LE	TAL NC

Laboratory References:

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

Certification Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: Canton Drop Forge

TestAmerica Job ID: 240-16332-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAC	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAC	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAC	5	200004	07-31-13
Kansas	NELAC	7	E-10336	01-31-13
Kentucky	State Program	4	58	11-16-12
L-A-B	DoD ELAP		L2315	02-28-13
Minnesota	NELAC	5	039-999-348	12-31-12
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAC	2	OH001	06-30-13
New York	NELAC	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAC	3	68-00340	08-31-13
Texas	NELAC	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAC	3	460175	09-14-13
Washington	State Program	10	C971	01-12-13
West Virginia DEP	State Program	3	210	12-31-12
Wisconsin	State Program	5	999518190	08-31-13

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: North Canton, OH
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other Ohio VAP

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: TRC	Client Project Manager: Kathie Teuscher	Site Contact: Mike Bitto	Lab Contact: Jeff Smith	COC No: 024418
Address: 1382 W 9th St. Suite 200	Telephone: 216-344-3072	Telephone: 216-344-3072	Telephone: 330-497-9396	1 of 1 COCs
City/State/Zip: Cleveland, OH 44113	Email: KTeuscher@trcsdot2000.com	Analyses Turnaround Time (Calendar Days)	Analyses	
Phone: 216-344-3072		TAT if different from below 3 day		
Project Name: Canton Drop Forge	Method of Shipment/Carrier: Drop-off	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Number: 196663	Shipping/Tracking No:			
PO# TBD				

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/G)	VOC	SVOC	PCB	Total RCRA Metals	Dissolved RCRA Metals	Sample Specific Notes / Special Instructions:
RRMW-02	10/12/12	1005		X					1	3			4		N	G	X	X	X	X		*RRMW-01
RRMW-04	↓	1220		X					1	3			4		N	G	X	X	X	X		to be sampled for
RRMW-01	↓	1530		X					1	3			4		Y	G	X	X	X		X	Dissolved RCRA
TB-11/101212	↓	/		X						2					N	G	X					Metals, has been
																						field filtered

10/12/12
Mike P. [illegible]

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: *3 day turnaround time* Ohio VAP

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TRC	10/12/12 1735			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA/Canton	Date/Time: 10/12/12 1735

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TAL 0018-1 (04/10)

TestAmerica Canton Sample Receipt Form/Narrative Login # : 166232

Client TRC Site Name _____ By: _____ (Signature)

Cooler Received on 10-12-12 Opened on 10-12-12

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

TestAmerica Cooler # _____ 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

IR GUN# 1	(CF 0°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C
IR GUN# 4G	(CF –1°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C
IR GUN# 5G	(CF –1°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C
IR GUN# 8	(CF 0°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C

Multiple on Back

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 Yes No
   - Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   - Were custody seals on the bottle(s)? Yes No
3. Shippers' packing slip attached to the cooler(s)? CSL 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. Did all bottles arrive in good condition (Unbroken)? Yes No
7. Could all bottle labels be reconciled with the COC? Yes No
8. Were correct bottle(s) used for the test(s) indicated? Yes No
9. Sufficient quantity received to perform indicated analyses? Yes No
10. Were sample(s) at the correct pH upon receipt? Yes No NA
11. Were VOAs on the COC? Yes No
12. Were air bubbles >6 mm in any VOA vials? Yes No NA
13. Was a trip blank present in the cooler(s)? Yes No

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

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. 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)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
1	<2	10/12/12	CJL
2	<2		
3	<2		

Cooler #	Observed Sample Temp. °C	Corrected Sample Temp. °C	IR #	Coolant
TANO4	3.5	2.5	46	IU
TANO4	4.0	3.0	46	IU

Login Sample Receipt Checklist

Client: TRC Environmental Corp-Payne Firm

Job Number: 240-16332-1

Login Number: 16332
List Number: 1
Creator: Livengood, Chris

List Source: TestAmerica Canton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	REFER TO COOLER RECEIPT FORM
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time.	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	