

Summary Data Package Report

ANALYTICAL REPORT

Job Number: 200-24551-1

SDG Number: A8091390 (200-24551)

Job Description: A8091390 (200-24551)

Contract Number: A74214

For:

New Jersey Dept of Environmental Pro
SRP - Contract & Fund Management
401 East State Street, 6th Floor
Mail Code 401-06J, PO BOX 420
Trenton, NJ 08625-0420
Attention: Ms. Kathleen Grimes



Approved for release.
Kirk F Young
Senior Project Manager
10/23/2014 3:23 PM

Kirk F Young, Senior Project Manager
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
kirk.young@testamericainc.com
10/23/2014

cc: Mr. David Dibblee

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

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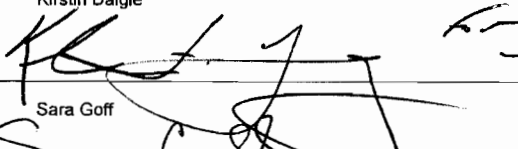
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**ANALYTICAL DATA PACKAGE FOR THE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NEW JERSEY 08625**

Agency/Division:	SRP	Bureau/Office:	BEMSA
Project No:	A8091390	Contract No.:	A74214
Laboratory Name:	TestAmerica Laboratories	Laboratory Location:	South Burlington, Vermont
SDG or Batch No.:	A8091390 (200-24551)	NJDEP Certification No.:	VT972
Date of First Sample Receipt:	10/03/2014	Date of Last Sample Receipt:	10/03/2014

Agency Sample Number	Laboratory Sample Number	Sample Location	Date and Time of Collection
DUP	200-24551-12	DUP	10/01/2014 12:01
PW-33	200-24551-2	PW-33	10/01/2014 10:27
PW-34	200-24551-3	PW-34	10/01/2014 10:49
PW-37	200-24551-4	PW-37	10/01/2014 12:34
PW-38	200-24551-5	PW-38	10/01/2014 12:55
PW-40	200-24551-6	PW-40	10/01/2014 13:14
PW-43	200-24551-7	PW-43	10/01/2014 11:23
PW-48	200-24551-8	PW-48	10/01/2014 14:02
PW-50	200-24551-9	PW-50	10/01/2014 13:36
PW-52	200-24551-10	PW-52	10/01/2014 09:54
PW-52 DL	200-24551-10	PW-52	10/01/2014 09:54
PW-52DU	200-24551-10	PW-52	10/01/2014 09:54
PW-52MS	200-24551-10	PW-52	10/01/2014 09:54
PW-52MSD	200-24551-10	PW-52	10/01/2014 09:54
PW-52TRL	200-24551-10	PW-52	10/01/2014 09:54
PW-53	200-24551-11	PW-53	10/01/2014 12:01
TRIP BLANK	200-24551-1	TRIP BLANK	10/01/2014 00:00

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on disk or electronically has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Laboratory Manager (Typed):	Kirstin Daigle	Date:	
Laboratory Manager (Signature):			10/23/2014
Quality Assurance Manager (Typed):	Sara Goff	Date:	
Quality Assurance Manager (Signature):			10/23/2014

New Jersey Department of Environmental Protection
External Chain of Custody and Sample Analysis Request Form
(With Shipping Container)

Laboratory Information

Name of Laboratory: TestAmerica Burlington Individual Preparing Sample Bottles and Shipping Container(s)
Address: 30 Community Dr Suite 11 Name: Joel Atkinson
South Burlington, VT 05403 Title: Sample Custodian
Time/Date Sample Shipping Container Sealed: 1015 9/24/14 Laboratory Affixed Seal No. 5178

NJDEP Information

Division: DRS Bureau: BEMSA Phone: () Job Number: A8091390

Requested Analysis

NJDEP Field Sample Number	Sampling Time Start/Stop	Sampling Date	Parameter	Method	Preserv.	Container		Matrix
						Volume	Quantity	
PW-33	1024-1027	10/1/2014		331.0		125ml	1	Aqueous.
PW-34	1046-1049			331.0		125ml	1	
PW-37	1230-1234			331.0		125ml	1	
PW-38	1252-1255			331.0		125ml	1	
PW-40	1312-1314			331.0		125ml	1	
PW-43	1120-1123			331.0		125ml	1	
PW-48	1358-1402			504.1		40ml	3	
PW-50	1334-1336			331.0		125ml	1	
PW-52	0944-0954		VDA MS/REP/REP	534.2		40ml	12	
			MS/REP/REP	504.1		40ml	12	
			MS/MSD/REP/REP	245.1		500ml	5	
			MS/MSD	331.0		125ml	3	
PW-53	1149-1201			524.2		40ml	3	
				504.1		40ml	3	
				245.1		500ml	1	
				331.0		125ml	1	

Preservative Added: (Check One) ☒ Laboratory ☐ Field ☐ Unpreserved

Contract Number: A74214 Task Number: Report Format: Full Reg.

External Chain of Custody

Relinquished	Received	Time/Date	Reason for Change of External Custody
XXXXXXXXXXXXXXXXXX <u>David Dibblee</u>	<u>David Dibblee</u>	<u>1500 9/25/14</u>	<u>Break Seal/Sample</u>
	<u>Jul 4. [Signature]</u>	<u>1040 10/13/14</u>	<u>Fed Ex to Lab.</u>
			<u>Rec'd at Lab</u>

Individual Resealing Shipping Container: Name: David Dibblee Title: ES3
Time/Date Sample Shipping Container Resealed: 10/2/2014 1500 NJDEP Affixed Seal Number: DEP1, DEP2
Time/Date Sample Shipping Container Opened: 1040 10/13/14
Time/Date Internal Chain of Custody Initiated on NJDEP Form 077 (Internal Chain of Custody): 1615 10/13/14

Distribution: White - Original (Sent With Report)
Pink - NJDEP Field Sampling Personnel

Yellow - Sample Custodian Upon Receipt of Shipping Container from Field
Gold - Sample Custodian for Sample Preparation/Shipment

New Jersey Department of Environmental Protection
External Chain of Custody and Sample Analysis Request Form
(With Shipping Container)

Laboratory Information

Name of Laboratory: TestAmerica Burlington Individual Preparing Sample Bottles and Shipping Container(s)
Address: 30 Community Dr Suite 11 Name: Jerl Afferton
South Burlington VT 05403 Title: Sample Custodian
Time/Date Sample Shipping Container Sealed: 1015 9/24/14 Laboratory Affixed Seal No. 5428

NJDEP Information

Division: DRS Bureau: BEMSA Phone: () Job Number: A8091390

Requested Analysis

NJDEP Field Sample Number	Sampling Time Start/Stop	Sampling Date	Parameter	Method	Preserv.	Container		Matrix
						Volume	Quantity	
DUP	1149-1201	10-1-2014		524.2		40ml	3	Aqueous
↓	↓	↓		504.1		40ml	3	
↓	↓	↓		245.1		500ml	1	
↓	↓	↓		331.0		125ml	1	
Trip Blank	—	—		524.2		40ml	3	
↓	—	—		504.1		40ml	3	
↓	—	—		245.1		500ml	1	
↓	—	—		331.0		250ml	1	

Preservative Added: (Check One) ☒ Laboratory ☐ Field ☐ Unpreserved

Contract Number: A74214 Task Number: _____ Report Format: Full Reg.

External Chain of Custody

Relinquished	Received	Time/Date	Reason for Change of External Custody
XXXXXXXXXXXXXXXXXXXX <u>David Dibblee</u>	<u>David Dibblee</u>	<u>1500 9/25/14</u>	<u>Break Seal/Sample</u>
	<u>Paul E. Gagne</u>	<u>1040 10/3/14</u>	<u>Fed Ex to Lab.</u>
			<u>Rec'd at Lab</u>
Individual Resealing Shipping Container: Name: <u>David Dibblee</u> Title: <u>ES3</u>			
Time/Date Sample Shipping Container Resealed: <u>10/2/2014 1500</u> NJDEP Affixed Seal Number: <u>DEP1, DEP2</u>			
Time/Date Sample Shipping Container Opened: <u>1040 10/3/14</u>			
Time/Date Internal Chain of Custody Initiated on NJDEP Form 077 (Internal Chain of Custody): <u>1015 10/3/14</u>			

Distribution: White - Original (Sent With Report)
Pink - NJDEP Field Sampling Personnel

Yellow - Sample Custodian Upon Receipt of Shipping Container from Field
Gold - Sample Custodian for Sample Preparation/Shipment

Instructions: Use 1 for each 20 samples of aliquot.

1 OF 1

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory:	TestAmerica	Location:	So. Burlington, VT 05403
Name:	Joel Atherton	Title:	Sample Custodian
Field Sample Seal No:	DEP-1, DEP-2	Date Broken:	10/3/2014
		Military Time Seal Broken:	1040
Case No:	A8091390	Analytical Parameter/Fraction:	524.2_Preserved

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
200-24546-1	1-1		
200-24546-40	10		
200-24546-11	11		
200-24546-12	12		

Date	Time	Signature	Received By	Purpose of Change of Custody
10/3/14	1000	Mark Phillip Mark Phillip's	Mark Phillip Mark Phillip's	Analytic
10/3/14	1130	Mark Phillip Mark Phillip's	Mark Phillip Mark Phillip's	Storage
10/3/14	1600	Mark Phillip Mark Phillip's	Mark Phillip Mark Phillip's	Analytic
10/3/14	1100	Mark Phillip Mark Phillip's	Mark Phillip Mark Phillip's	Storage
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	

1 OF 1

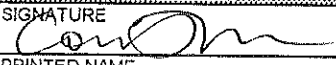
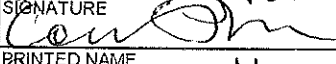
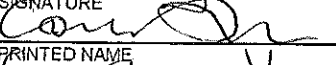
[illegible]

Instructions: Use 1 for each 20 samples of aliquot.

1 OF 1

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory:	TestAmerica	Location:	So. Burlington, VT 05403
Name:	Joel Atherton	Title:	Sample Custodian
Field Sample Seal No:	DEP-1, DEP-2	Date Broken:	10/3/2014
Case No:	A8091390	Military Time Seal Broken:	1040
	Analytical Parameter/Fraction:		331

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
200-24551-1		200-24551-12	
200-24551-2			
200-24551-3			
200-24551-4			
200-24551-5			
200-24551-6			
200-24551-7			
200-24551-9			
200-24551-10			
200-24551-11			

Date	Time	Signature	Received By	Purpose of Change of Custody
10/7/14	0930			LCMS analysis
		PRINTED NAME Courtney Vuono	PRINTED NAME Courtney Vuono	
10/7/14	1500			Storage
		PRINTED NAME Courtney Vuono	PRINTED NAME Courtney Vuono	
10/8/14	0850			LCMS analysis (9-12 only)
		PRINTED NAME Courtney Vuono	PRINTED NAME Courtney Vuono	
10/8/14	1200			Storage
		PRINTED NAME Courtney Vuono	PRINTED NAME Courtney Vuono	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	

Instructions: Use 1 for each 20 samples of aliquot.

1 OF 1

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory:	TestAmerica	Location: So. Burlington, VT 05403	
Name:	Joel Atherton	Title: Sample Custodian	
Field Sample Seal No:	DEP-1, DEP-2	Date Broken:	10/3/2014
Case No:	A8091390	Military Time Seal Broken:	1040
		Analytical Parameter/Fraction:	245.1

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
200-24546-1			
200-24546-10			
200-24546-11			
200-24546-12			
Job = 24551			
EKT 10/23/14			

Date	Time	SIGNATURE	SIGNATURE	Purpose of Change of Custody
10/23/14	1530			prep
		PRINTED NAME Liz Tober	PRINTED NAME Liz Tober	
10/23/14	1730			storage
		PRINTED NAME Liz Tober	PRINTED NAME Liz Tober	
10/24/14	1050			Analysis
		PRINTED NAME Nick Rosner	PRINTED NAME Nick Rosner	
10/24/14	1300			Storage
		PRINTED NAME Nick Rosner	PRINTED NAME Nick Rosner	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	

Shipping and Receiving Documents

ORIGIN ID:TTNA

SHIP DATE: 02OCT14
ACTWT: 17.0 LB MAX
CAD: /POS1501
DIMS: 14x14x9 IN
BILL RECIPIENT

UNITED STATES US

TO KIRK YOUNG

TEST AMERICA

30 COMMUNITY DR

STE 11

SOUTH BURLINGTON VT 05403

(802) 860-1890

NO:

PO:

REF:

DEPT:

FedEx
Express

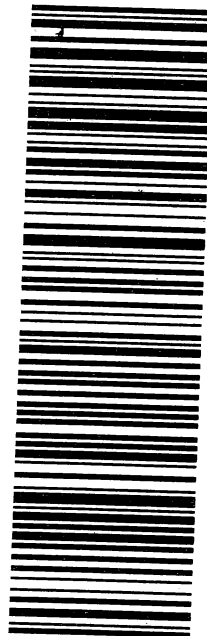


FRI - 03 OCT 10:30A
PRIORITY OVERNIGHT

TRK# 8041 2628 9982

EK BTVA

05403
VT - US BTV



Align Open End of FedEx Pouch Here

800.GoFedEx 1.800.463.3339

6 Special Handling and Delivery Signature options

☐ SATURDAY Delivery
Not available for FedEx Standard Overnight, FedEx 2day A.M., or FedEx Express Saver.

☐ No Signature Required
Package may be left without obtaining a signature for delivery.

☐ Direct Signature
Shipper's address may sign for delivery. Fee applies.

☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

☐ No ☐ Yes
As per attached Shipper's Declaration, Shipper's Declaration not required. Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

Dry Ice, 9, UN 1845

☐ Cargo Aircraft Only

7 Payment Bill to:

☐ Sender ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check
Enter FedEx Acct. No. or Credit Card No. below.

FedEx Package
Express - U.S. Airbill
Tracking Number 8041 2628 9982

1 From

Date: 10/23/2014

Sender's Name: Kirk Young

Phone: 802-860-1890

Company: Test America

Address: 30 Community Dr

City: South Burlington

State: VT

ZIP: 05403

Dept./Floor/Suite/Room

2 Your Internal Billing Reference

3 To

Recipient's Name: Kirk Young

Phone: 802-860-1890

Company: Test America

Address: 30 Community Dr

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address: 30 Community Dr
Use this line for the HOLD location address or for continuation of your shipping address.

City: South Burlington

State: VT

ZIP: 05403

HOLD Weekday
FedEx location
REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location
REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2day to select locations.

Login Sample Receipt Checklist

Client: New Jersey Dept of Environmental Pro

Job Number: 200-24551-1
SDG Number: A8091390 (200-24551)

Login Number: 24551
List Number: 1
Creator: Atherton, Joel E

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	DEP-1, DEP-2
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.8°C, 3.0°C IR GUN 181 CF= -0.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

METHODOLOGY SUMMARY

Laboratory: TestAmerica Laboratories

Project No: A8091390

Location: South Burlington, Vermont

SDG No: A8091390 (200-24551)

VOA

Synthetic Organics, USEPA Method 504.1

Volatile Organics, USEPA Method 524.2, Version 4.1

Metals

Mercury, USEPA Method 245.1, Revision 3.0

Other

Perchlorate Ion, USEPA Method 331.0, Revision 1.0

**ANALYTICAL DATA PACKAGE NONCOMPLIANCE SUMMARY FOR THE NEW
JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON NEW JERSEY 08625**

Agency/Division: SRP	Bureau/Office: BEMSA
Project No: A8091390 (200-24551)	Contract No: A74214
Laboratory Name: TestAmerica Laboratories	Laboratory Location: South Burlington, Vermont
SDG or Batch No: A8091390 (200-24551)	NJDEP Certification #: VT972
Date of First Sample Receipt: 10/03/2014	Date of Last Sample Receipt: 10/03/2014

The condition of the samples and the issues identified at the time of sample log-in are detailed in the Shipping Documentation section of this submittal. The sample volumes were logged into the laboratory for analysis and maintained in refrigerated storage at 4 degrees centigrade.

Method 524.2 (Revision 4.1)

Each sample was analyzed without a dilution. An additional dilution analysis was performed on sample MW-52 in order to provide for quantification within the range of calibrated instrument response. Both sets of results for the analysis of sample MW-52 are included in this submittal.

All calibration standards and quality controls were prepared and analyzed in a manner that was consistent with the preparation and analysis of the field samples. Instrument calibration was established with five calibration points, and over the specified range for each target analyte, providing for the low calibration point at a concentration level coincident with the reporting limit. With the exception of those for methyl iodide and nitrobenzene, the responses for each target analyte met the 20.0 percent relative standard deviation criterion in the initial calibration. The relative standard deviation of the responses for methyl iodide was 34.4 percent, and that for nitrobenzene was 34.0 percent. Methyl iodide and nitrobenzene are neither New Jersey Regulated nor New Jersey Unregulated compounds. Neither compound at issue was identified in the analysis of the field samples in this sample set. A quality control sample/initial calibration verification (QCS/ICV) acquisition was performed using an independent standard at a concentration of two times the concentration in the lowest initial calibration standard. With the exception of those for dichlorodifluoromethane, chloromethane, vinyl chloride, bromomethane, and methylene chloride, the derived recovery of each target analyte met the +/- 30 percent criterion in that analysis. The recovery of dichlorodifluoromethane in the QCS/ICV acquisition was 154 percent, that of chloromethane was 145 percent, that of vinyl chloride was 137 percent, that of bromomethane was 159 percent, and that of methylene chloride was 143 percent. Vinyl chloride and methylene chloride are New Jersey Regulated compounds, and dichlorodifluoromethane, chloromethane, and bromomethane are New Jersey Unregulated compounds. No one of the compounds at issue was identified in the analysis of the field samples in this sample set. A continuing calibration check acquisition was performed at the frequency prescribed by the method. With the exception of that for bromoform in the calibration check identified as CCVIS 200-78664/2, the response for each target analyte met the +/- 30 percent difference criterion in each calibration check acquisition. In the reference acquisition the response for bromomethane was high relative to the average response in the initial calibration, representing a 30.3 percent difference.

The analytical work was performed using a purge volume of 5.0 milliliters. There was an acceptable performance of the internal standards and surrogate controls in each of the analyses associated with the sample set. A laboratory fortified blank (LFB) analysis was performed in each analytical sequence at a concentration of two times the concentration in the lowest initial calibration standard. With the exception of those for

**ANALYTICAL DATA PACKAGE NONCOMPLIANCE SUMMARY FOR THE NEW
JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON NEW JERSEY 08625**

dichlorodifluoromethane, chloromethane, vinyl chloride, bromomethane, acetone, and methylene chloride, the recovery of each target analyte met the +/- 30 percent criterion in each analysis. In the LFB analysis identified as LCS 200-78664/4, the recovery of dichlorodifluoromethane was 151 percent, that of chloromethane was 153 percent, that of vinyl chloride was 131 percent, that of bromomethane was 137 percent, and that of methylene chloride was 141 percent. In the LFB analysis identified as LCS 200-78697/4, the recovery of dichlorodifluoromethane was 148 percent, that of chloromethane was 135 percent, that of vinyl chloride was 131 percent, that of bromomethane was 135 percent, that of acetone was 141 percent, and that of methylene chloride was 138 percent. Vinyl chloride and methylene chloride are New Jersey Regulated compounds; dichlorodifluoromethane, chloromethane, and bromomethane are New Jersey Unregulated compounds; and acetone is neither a New Jersey Regulated or New Jersey Unregulated compound. No one of the compounds at issue was identified in the analysis of the field samples in this sample set. A laboratory fortified sample matrix/matrix spike (LFSM) analysis was performed on sample PW-52. That analysis was performed at a dilution, consistent with the analysis of the parent sample. The LFSM analysis reflected an overall high bias in the derived recovery values with the recovery value for several of the compounds exceeding the +/- 30 percent criterion. Laboratory duplicate analyses (LD1 and LD2) were performed on sample PW-52 as part of the analytical work, and there was good correspondence in the results of those analyses.

The analysis of each laboratory reagent blank/method blank (LRB) associated with the analytical work was free of analyte contamination, as was the analysis of the field reagent blank/trip blank (FRB) associated with the sample set.

The analytical results from the Method 524.2 analysis have been reported at the established reporting limit with the use of a "U" qualifier in those instances in which the target analyte was not detected at a concentration that was equivalent to, or higher than method reporting limit.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and chromatographic profiles are included in the data package. A listing of the manual integrations that were performed, referencing the specific acquisition file names in which manual integration was applied, and the reason for the manual integration, immediately follows this non-compliance summary.

The following details the column type and trap design that were used in the performance of the analytical work for the samples in this sample set:

Chromatographic Column - J&W DB-624
Length - 75 meters
Inner Diameter - 0.53 millimeters
Film Thickness - 3.0 micrometers

Trap Design - Supelco (K Type) VOCARB 3000
Length - 29.5 centimeters

A summary of the validated method detection limit study that was performed by the laboratory for Method 524.2 (Revision 4.1) immediately follows this Noncompliance summary.

Method 504.1 (Revision 1.1)

NJDEP FORM A1C (02/26/04)

**ANALYTICAL DATA PACKAGE NONCOMPLIANCE SUMMARY FOR THE NEW
JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON NEW JERSEY 08625**

All calibration standards and quality controls were prepared, extracted, and analyzed in a manner that was consistent with the preparation, extraction, and analysis of the field samples. Instrument calibration was established with six calibration points for 1,2-dibromomethane and 1,2-dibromo-3-chloropropane, having concentrations that ranged between 0.010 ug/L and 0.25 ug/L, and instrument calibration was established with five calibration points for 1,2,3-trichloropropane, having concentrations that ranged between 0.020 ug/L and 0.25 ug/L. The responses for each target analyte met the 20.0 percent relative standard deviation criterion in the initial calibration. A quality control sample/initial calibration verification (QCS/ICV) acquisition was performed in the analytical sequence in which the samples were analyzed, using an independent standard at a concentration of 0.10 ug/L. The derived recovery of each target analyte met the +/- 20 percent criterion in that analysis, on each column that was used in the performance of the analytical work. A resolution check acquisition was performed after the initial calibration to document the resolution of 1,2-dibromoethane from dibromochloromethane at a relative concentration of 1:50. Instrument performance check/calibration check acquisitions were performed at the frequency prescribed by the method. The performance of each target analyte met the +/- 30 percent criterion in each of those acquisitions.

The analytical work was performed using an injection volume of 3.0 microliters, and the extract of each sample in the sample set was analyzed without a dilution. Peak area was used as the basis for quantification. 1-Bromo-3-chloropropane was used as a surrogate control in performing the analyses, and control limits of 60 percent and 140 percent were used to assess recovery performance. There was an acceptable recovery of the surrogate control in each of the analyses associated with the sample set. A reporting limit check sample (RLCS) acquisition was performed at a concentration of 0.020 ug/L in initiating the analytical sequence in which the samples were analyzed. The derived recovery of each target analyte in that analysis met the +/- 40 percent criterion. A laboratory fortified blank (LFB) analysis was performed at a concentration of 0.25 ug/L, and the recovery of each target analyte met the +/- 30 percent criterion in that analysis. A laboratory fortified sample matrix/matrix spike (LFM) analysis was performed on sample PW-52. That analysis was performed without a dilution, consistent with the analysis of the parent sample. There was an acceptable recovery of each target analyte in the LFM analysis. Laboratory duplicate analyses (LD1 and LD2) were performed on sample PW-52 as part of the analytical work, and there was good correspondence in the results of those analyses.

The analysis of the laboratory reagent blank/method blank (LRB) associated with the analytical work was free of analyte contamination, as was the analysis of the field reagent blank/trip blank (FRB) associated with the sample set.

The analytical results from the Method 504.1 analysis have been reported at the established reporting limit with the use of a "U" qualifier in those instances in which the target analyte was not detected at a concentration that was equivalent to, or higher than method reporting limit.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and chromatographic profiles are included in the data package. A listing of the manual integrations that were performed, referencing the specific acquisition file names in which manual integration was applied, and the reason for the manual integration, immediately follows this non-compliance summary.

The following details the column types that were used in the performance of the analytical work for the samples in this sample set:

**ANALYTICAL DATA PACKAGE NONCOMPLIANCE SUMMARY FOR THE NEW
JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON NEW JERSEY 08625**

Chromatography Column - Restek RTX-CLP

Length - 30 meters

Inner Diameter - 0.32 millimeters

Film thickness - 0.32 micrometers

Chromatography Column - Restek RTX-CLPII

Length - 30 meters

Inner Diameter - 0.32 millimeters

Film thickness - 0.25 micrometers

A summary of the validated method detection limit study that was performed by the laboratory for Method 504.1 (Revision 1.1) immediately follows this Noncompliance summary.

Method 331.0 (Revision 1.0)

The analysis, as it was performed, is an internal standard form of analysis using LC/MS/MS. The laboratory used 35Cl-18O4 as the internal standard in the performance of the work. The ion characteristic of 35Cl-18O3 (m/z 88.7) served as the basis for establishing internal standard response. Two ions were used in assessing the response for perchlorate. Those were characteristic of 35Cl-O3 (m/z 82.7) and 37Cl-O3 (m/z 84.7). Peak area was used as the basis for quantification.

Certain samples in the sample set were analyzed at a dilution in order to provide for quantification within the range of calibrated instrument response.

Instrument calibration was established with five calibration points having concentrations that ranged between 0.20 ug/L and 10.0 ug/L and using a linear regression model. A quality control sample/initial calibration verification (QCS/ICV) acquisition was performed using an independent standard at a concentration of 5.0 ug/L. The derived recovery of the target analyte met the +/- 20 percent criterion in that analysis. Calibration check acquisitions were performed at the frequency prescribed by the method, varying the analyte concentration. There was an acceptable performance of the target analyte in each of those acquisitions.

A laboratory fortified synthetic sample matrix (LFSSM) analysis was performed as part of the analytical work at a concentration of 1.0 ug/L, and the recovery of the target analyte in that analysis met the +/- 20 percent criterion. A reporting limit check acquisition was performed at a concentration of 0.20 ug/L in initiating each analytical sequence in which the samples were analyzed. The derived concentration of the target analyte in each analysis met the +/- 50 percent criterion. Laboratory fortified blank (LFB) analyses were performed as part of the analytical work at concentrations of 0.2 ug/L and 5.0 ug/L, and the recovery of the target analyte in each LFB analysis met the +/- 20 percent criterion. Each of the analyses associated with the sample set exhibited an acceptable internal standard performance. Laboratory fortified sample matrix/matrix spike (LFSM1) and laboratory fortified sample matrix duplicate/matrix spike duplicate (LFSM2) analyses were performed on sample PW-52. Those analyses were performed at a 2-fold dilution, consistent with the analysis of the parent sample. There was an acceptable recovery of the perchlorate spike in both the matrix spike and the matrix spike duplicate analysis, and there was an acceptable correlation of the results in the interanalysis comparison.

**ANALYTICAL DATA PACKAGE NONCOMPLIANCE SUMMARY FOR THE NEW
JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON NEW JERSEY 08625**

The analysis of each laboratory reagent blank/method blank (LRB) associated with the analytical work was free of analyte contamination, as was the analysis of the field reagent blank/trip blank (FRB) associated with the sample set.

The analytical results from the Method 331.0 analysis have been reported at the established reporting limit with the use of a "U" qualifier in those instances in which the target analyte was not detected at a concentration that was equivalent to, or higher than the method reporting limit.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and chromatographic profiles are included in the data package. A listing of the manual integrations that were performed, referencing the specific acquisition file names in which manual integration was applied, immediately follows this non-compliance summary.

The following details the instrument and column types that were used in the performance of the analytical work for the samples in this sample set:

Instrument - Waters 616 HPLC / Micromass Quattro Micro API Mass Spectrometer

Ionization Mode - Electrospray (negative)

Chromatography Column - IC Pak AnionHR (6 micrometer particle size)

Length - 75 millimeters

Diameter - 4.6 millimeter

Acquisition Volume - 100 microliters

A summary of the validated method detection limit study derived by the laboratory for Method 331.0 (Revision 1.0) immediately follows this non-compliance summary.

Method 245.1 (Revision 3.0)

In addition to a blank standard, the initial calibration was performed at five concentration levels (0.2 ug/L, 0.5 ug/L, 1.0 ug/L, 5.0 ug/L, and 10 ug/L). The quality control sample/initial calibration verification (QCS/ICV) acquisition was performed using an independent standard at a concentration of 3.0 ug/L. The derived recovery in that acquisition was 98 percent, and met the +/- 10 percent criterion. The instrument performance check/calibration check acquisitions were performed at a concentration of 5.0 ug/L. The recovery of mercury in the acquisition immediately following the initial calibration was 94 percent, which was narrowly outside of the +/- 5 percent criterion. The recovery of mercury in the subsequent instrument performance check/calibration check acquisition was 94 percent, and met the +/- 10 percent criterion. Each instrument performance check/calibration blank acquisition was free of analyte contamination.

A reporting limit check sample (RLCS) acquisition was performed at a concentration of 0.20 ug/L in initiating the analytical sequence specific to the analysis of the field sample and the associated quality controls. The derived recovery in that analysis was 98 percent, and met the +/- 10 percent criterion. A laboratory fortified blank (LFB) analysis was performed at a concentration of 1.0 ug/L as part of the analytical work. The recovery of the spiked mercury in that analysis was 115 percent, and met the +/- 15 percent criterion. Laboratory fortified sample matrix/matrix spike (LFSM1) and laboratory fortified sample matrix duplicate/matrix spike duplicate (LFSM2) analyses were performed on sample PW-52. The recovery of the spiked mercury in the matrix spike

NJDEP FORM A1C (02/26/04)

**ANALYTICAL DATA PACKAGE NONCOMPLIANCE SUMMARY FOR THE NEW
JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON NEW JERSEY 08625**

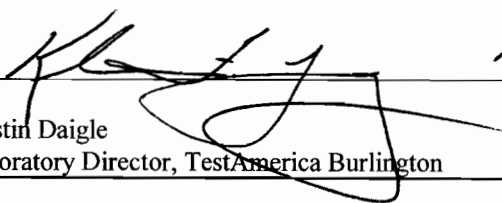
analysis was 91 percent, and that in the matrix spike duplicate analysis was 92 percent. Laboratory duplicate analyses (LD1 and LD2) were performed on sample PW-52, and there was generally good correspondence in the results of those analyses; although mercury was identified at concentrations approximating the reporting limit in two of the analyses, but below that concentration level in the third analysis.

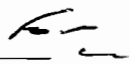
The laboratory reagent blank/method blank (LRB) and field reagent blank/trip blank (FRB) that were analyzed in association with the samples were free of analyte contamination.

The analytical results from the Method 245.1 analysis have been reported at the established reporting limit with the use of a "U" qualifier in those instances in which the target analyte was not detected at a concentration that was equivalent to, or higher than, the established reporting limit of 0.2 ug/L

A summary of the validated method detection limit study that was performed by the laboratory for Method 245.1 (Revision 3.0) immediately follows this non-compliance summary.

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD/diskette and by electronic e-mail has been authorized by the laboratory manager or his/her designee, as verified by the following signature.


Kirstin Daigle
Laboratory Director, TestAmerica Burlington

 10/23/2014
Date

DATA REPORTING QUALIFIERS

Client: New Jersey Dept of Environmental Pro

Job Number: 200-24551-1
Sdg Number: A8091390 (200-24551)

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Indicates an Estimated Value for TICs
	U	Indicates the analyte was analyzed for but not detected.
	^	Instrument related QC exceeds the control limits
	F1	MS and/or MSD Recovery exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	*	Recovery or RPD exceeds control limits
	E	Result exceeded calibration range.
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
	N	This flag indicates the presumptive evidence of a compound.
GC Semi VOA		
	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.
LCMS		
	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.
Metals		
	U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-24551-1

SDG No.: A8091390 (200-24551)

Instrument ID: L.i

Analysis Batch Number: 78697

Lab Sample ID: LCS 200-78697/4

Client Sample ID:

Date Analyzed: 10/14/14 09:28

Lab File ID: lkrb04.d

GC Column: DB-624

ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST
Acrylonitrile	6.22	Baseline event	mtp
			10/14/14 10:20

Mark Phillips 10/22/14

Jundist 10/22/14

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-24551-1

SDG No.: A8091390 (200-24551)

Instrument ID: CH0911.i

Analysis Batch Number: 78477

Lab Sample ID: IC 200-78475/1-A

Client Sample ID:

Date Analyzed: 10/09/14 18:20

Lab File ID: 9932_06.D

GC Column: RTX-CLP

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.30	Baseline Event	malaspina r	10/10/14 09:05
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/10/14 09:05

Lab Sample ID: IC 200-78475/1-A

Client Sample ID:

Date Analyzed: 10/09/14 18:20

Lab File ID: 9932_06.D

GC Column: RTX-CLP II

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.11	Baseline Event	malaspina r	10/10/14 09:05
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/10/14 09:05
1,2,3-Trichloropropane	7.87	Baseline Event	malaspina r	10/10/14 09:05
1,2-Dibromo-3-Chloropropane	11.42	Baseline Event	malaspina r	10/10/14 09:05

Lab Sample ID: IC 200-78475/2-A

Client Sample ID:

Date Analyzed: 10/09/14 18:50

Lab File ID: 9932_07.D

GC Column: RTX-CLP

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.30	Baseline Event	malaspina r	10/10/14 09:07
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/10/14 09:07
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/10/14 09:07

504.1

Lab Malaspina 10/14/14
Jen Drago 10/14/14

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-24551-1

SDG No.: A8091390 (200-24551)

Instrument ID: CH0911.i

Analysis Batch Number: 78477

Lab Sample ID: IC 200-78475/2-A

Client Sample ID:

Date Analyzed: 10/09/14 18:50

Lab File ID: 9932_07.D

GC Column: RTX-CLPII

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.11	Baseline Event	malaspina r	10/10/14 09:07
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/10/14 09:07
1,2,3-Trichloropropane	7.87	Baseline Event	malaspina r	10/10/14 09:07
1,2-Dibromo-3-Chloropropane	11.42	Baseline Event	malaspina r	10/10/14 09:07

Lab Sample ID: IC 200-78475/3-A

Client Sample ID:

Date Analyzed: 10/09/14 19:20

Lab File ID: 9932_08.D

GC Column: RTX-CLP

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/10/14 09:08

Lab Sample ID: IC 200-78475/3-A

Client Sample ID:

Date Analyzed: 10/09/14 19:20

Lab File ID: 9932_08.D

GC Column: RTX-CLPII

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/10/14 09:08
1,2-Dibromo-3-Chloropropane	11.42	Baseline Event	malaspina r	10/10/14 09:08

Rich Malaspina 10/14/14
Jen Drago 10/14/14

504.1

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-24551-1

SDG No.: A8091390 (200-24551)

Instrument ID: CH0911.1

Analysis Batch Number: 78477

Lab Sample ID: ICRT 200-78475/4-A

Client Sample ID:

Date Analyzed: 10/09/14 19:50

Lab File ID: 9932_09.D

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/10/14 09:02

Lab Sample ID: ICRT 200-78475/4-A

Client Sample ID:

Date Analyzed: 10/09/14 19:50

Lab File ID: 9932_09.D

GC Column: RTX-CLPII ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.11	Baseline Event	malaspina r	10/10/14 09:02
1-Bromo-3-Chloropropane (Surr)	6.30	Baseline Event	malaspina r	10/10/14 09:02

Lab Sample ID: IC 200-78475/5-A

Client Sample ID:

Date Analyzed: 10/09/14 20:20

Lab File ID: 9932_10.D

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/10/14 09:09
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/10/14 09:09

Lab Sample ID: IC 200-78475/5-A

Client Sample ID:

Date Analyzed: 10/09/14 20:20

Lab File ID: 9932_10.D

GC Column: RTX-CLPII ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.30	Baseline Event	malaspina r	10/10/14 09:09

504.1

Lab Malaspina 10/10/14
Jan Mrazek 10/10/14

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica BurlingtonJob No.: 200-24551-1SDG No.: A8091390 (200-24551)Instrument ID: CH0911.1Analysis Batch Number: 78477Lab Sample ID: IC 200-78475/6-A

Client Sample ID:

Date Analyzed: 10/09/14 20:49Lab File ID: 9932_11.DGC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/10/14 09:10

Lab Sample ID: IC 200-78475/6-A Client Sample ID:Date Analyzed: 10/09/14 20:49Lab File ID: 9932_11.DGC Column: RTX-CLPII ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/10/14 09:10
1,2,3-Trichloropropane	7.87	Baseline Event	malaspina r	10/10/14 09:10

Handwritten:
Rach Malaspina 10/14/14
Jen Nagao 10/14/14

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica BurlingtonJob No.: 200-24551-1SDG No.: A8091390 (200-24551)Instrument ID: CH0911.iAnalysis Batch Number: 78532Lab Sample ID: CCVRT 200-78530/1-A

Client Sample ID:

Date Analyzed: 10/10/14 15:45Lab File ID: 9955_04.DGC Column: RTX-CLPID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/11/14 08:36
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/11/14 08:36

Lab Sample ID: CCVRT 200-78530/1-A

Client Sample ID:

Date Analyzed: 10/10/14 15:45Lab File ID: 9955_04.DGC Column: RTX-CLPIIID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/11/14 08:36
1,2,3-Trichloropropane	7.87	Baseline Event	malaspina r	10/11/14 08:36

Lab Sample ID: ICV 200-78530/2-A

Client Sample ID:

Date Analyzed: 10/10/14 16:15Lab File ID: 9955_05.DGC Column: RTX-CLPID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.30	Baseline Event	malaspina r	10/11/14 08:38
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/11/14 08:38
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/11/14 08:38

Rob Malaspina 10/14/14
Jim Nagay 10/14/14

504.1

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica BurlingtonJob No.: 200-24551-1SDG No.: A8091390 (200-24551)Instrument ID: CH0911.1Analysis Batch Number: 78532Lab Sample ID: ICV 200-78530/2-A

Client Sample ID: _____

Date Analyzed: 10/10/14 16:15Lab File ID: 9955_05.DGC Column: RTX-CLPII ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.30	Baseline Event	malaspina	10/11/14 08:38
1,2,3-Trichloropropane	7.87	Baseline Event	malaspina	10/11/14 08:38

Lab Sample ID: LLCS 200-78530/4-A

Client Sample ID: _____

Date Analyzed: 10/10/14 17:14Lab File ID: 9955_07.DGC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina	10/11/14 08:40

Lab Sample ID: LLCS 200-78530/4-A

Client Sample ID: _____

Date Analyzed: 10/10/14 17:14Lab File ID: 9955_07.DGC Column: RTX-CLPII ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.11	Baseline Event	malaspina	10/11/14 08:40
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina	10/11/14 08:40
1,2,3-Trichloropropane	7.87	Baseline Event	malaspina	10/11/14 08:40
1,2-Dibromo-3-Chloropropane	11.42	Baseline Event	malaspina	10/11/14 08:40

Rich Malaspina 10/14/14
Juan Diego 10/14/14

504.1

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica BurlingtonJob No.: 200-24551-1SDG No.: A8091390 (200-24551)Instrument ID: CH0911.iAnalysis Batch Number: 78532Lab Sample ID: LCS 200-78530/5-A

Client Sample ID:

Date Analyzed: 10/10/14 17:44Lab File ID: 9955_08.DGC Column: RTX-CLPID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/11/14 08:42
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/11/14 08:42
1,2-Dibromo-3-Chloropropane	11.32	Baseline Event	malaspina r	10/11/14 08:42

Lab Sample ID: LCS 200-78530/5-A Client Sample ID:Date Analyzed: 10/10/14 17:44Lab File ID: 9955_08.DGC Column: RTX-CLPIIID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.30	Baseline Event	malaspina r	10/11/14 08:42

Lab Sample ID: 200-24551-1Client Sample ID: TRIP BLANKDate Analyzed: 10/10/14 18:14Lab File ID: 9955_09.DGC Column: RTX-CLPIIID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/11/14 08:42

Lab Sample ID: 200-24551-8Client Sample ID: PW-48Date Analyzed: 10/10/14 18:44Lab File ID: 9955_10.DGC Column: RTX-CLPID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/11/14 08:44
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/11/14 08:44

504.1

Paul Malaspina 10/14/14
Jen Prager 10/14/14

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-24551-1

SDG No.: A8091390 (200-24551)

Instrument ID: CH0911.1

Analysis Batch Number: 78532

Lab Sample ID: 200-24551-8

Client Sample ID: PW-48

Date Analyzed: 10/10/14 18:44

Lab File ID: 9955_10.D

GC Column: RTX-CLPII

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.30	Baseline Event	malaspina F	10/11/14 08:44

Lab Sample ID: 200-24551-10

Client Sample ID: PW-52

Date Analyzed: 10/10/14 19:14

Lab File ID: 9955_11.D

GC Column: RTX-CLP

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina F	10/13/14 12:27

Lab Sample ID: 200-24551-10

Client Sample ID: PW-52

Date Analyzed: 10/10/14 19:14

Lab File ID: 9955_11.D

GC Column: RTX-CLPII

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina F	10/13/14 12:27

Lab Sample ID: 200-24551-10 DU

Client Sample ID: PW-52 DU

Date Analyzed: 10/10/14 19:43

Lab File ID: 9955_12.D

GC Column: RTX-CLP

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina F	10/13/14 12:28

Red Chapman 10/14/14
Jen Mages 10/14/14

504.1

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-24551-1

SDG No.: A8091390 (200-24551)

Instrument ID: CH0911.1

Analysis Batch Number: 78532

Lab Sample ID: 200-24551-10 DU

Client Sample ID: PW-52 DU

Date Analyzed: 10/10/14 19:43

Lab File ID: 9955_12.D

GC Column: RTX-CLPII

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/11/14 08:44

Lab Sample ID: 200-24551-10 MS

Client Sample ID: PW-52 MS

Date Analyzed: 10/10/14 20:13

Lab File ID: 9955_13.D

GC Column: RTX-CLP

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/11/14 08:45
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/11/14 08:45

Lab Sample ID: 200-24551-10 MS

Client Sample ID: PW-52 MS

Date Analyzed: 10/10/14 20:13

Lab File ID: 9955_13.D

GC Column: RTX-CLPII

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/11/14 08:45
1,2,3-Trichloropropane	7.87	Baseline Event	malaspina r	10/11/14 08:45

Lab Sample ID: 200-24551-10 TRL

Client Sample ID: PW-52 TRL

Date Analyzed: 10/10/14 20:43

Lab File ID: 9955_14.D

GC Column: RTX-CLP

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/13/14 12:29

504.1

Rub Malaspina 10/14/14
John Drago 10/14/14

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-24551-1

SDG No.: A8091390 (200-24551)

Instrument ID: CH0911.i

Analysis Batch Number: 78532

Lab Sample ID: 200-24551-10 TRL

Client Sample ID: PW-52 TRL

Date Analyzed: 10/10/14 20:43

Lab File ID: 9955_14.D

GC Column: RTX-CLPII

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/11/14 08:46

Lab Sample ID: CCV 200-78530/12-A

Client Sample ID:

Date Analyzed: 10/10/14 21:13

Lab File ID: 9955_15.D

GC Column: RTX-CLP

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/13/14 12:39
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/11/14 08:46

Lab Sample ID: CCV 200-78530/12-A

Client Sample ID:

Date Analyzed: 10/10/14 21:13

Lab File ID: 9955_15.D

GC Column: RTX-CLPII

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/13/14 12:39

Lab Sample ID: 200-24551-11

Client Sample ID: PW-53

Date Analyzed: 10/10/14 21:42

Lab File ID: 9955_16.D

GC Column: RTX-CLPII

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/13/14 12:40

Richard Malaspina 10/14/14
John Pralgo 10/14/14

504.1

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica BurlingtonJob No.: 200-24551-1SDG No.: A8091390 (200-24551)Instrument ID: CH0911.1Analysis Batch Number: 78532Lab Sample ID: 200-24551-12Client Sample ID: DUPDate Analyzed: 10/10/14 22:12Lab File ID: 9955_17.DGC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.71	Baseline Event	malaspina r	10/13/14 12:41

Lab Sample ID: 200-24551-12Client Sample ID: DUPDate Analyzed: 10/10/14 22:12Lab File ID: 9955_17.DGC Column: RTX-CLPII ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-3-Chloropropane (Surr)	6.31	Baseline Event	malaspina r	10/13/14 12:41

Lab Sample ID: CCV 200-78530/16-A

Client Sample ID:

Date Analyzed: 10/10/14 23:11Lab File ID: 9955_19.DGC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	8.14	Baseline Event	malaspina r	10/11/14 08:47

Lab Sample ID: CCV 200-78530/16-A

Client Sample ID:

Date Analyzed: 10/10/14 23:11Lab File ID: 9955_19.DGC Column: RTX-CLPII ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	7.87	Baseline Event	malaspina r	10/11/14 08:47

Rich Malaspina 10/14/14
Jim Maggo 10/14/14

504.1

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
 SDG No.: A8091390 (200-24551)
 Instrument ID: LC3062 Analysis Batch Number: 78314
 Lab Sample ID: LCS 200-78314/5 Client Sample ID: _____
 Date Analyzed: 10/07/14 12:54 Lab File ID: P100714A331_05.d GC Column: IC-Pak AnionH/ ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perchlorate	8.71	Peak not found by the data system	vuonoc	10/07/14 13:33

Lab Sample ID: 200-24551-2 Client Sample ID: _____
 Date Analyzed: 10/07/14 13:25 Lab File ID: P100714A331_07.d GC Column: IC-Pak AnionH/ ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
18-O Perchlorate	8.71	Baseline Event	vuonoc	10/07/14 13:42

Carw Ohm 10/14/14
jin naseo 10/14/14

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD: 524.2		MATRIX: Water			QA Review: Sara Goff		
PREP METHOD: 524.2		Instrument(s): L			Date Approved: 3/2/2014		
CLEANUP METHOD(s):		TAL Job #: 20492			TALS Entry: 3/2/2014		
ANALYTE	CAS #	DL ug/L	LOD ug/L	LOD Reference	LOQ ug/L	LOD/DL Ratio	LOQ/LOD Ratio
Dichlorodifluoromethane	75-71-8	0.090	0.1	LOD1	0.50	1.1	5.0
Chloromethane	74-87-3	0.12	0.2	LOD2	0.50	1.7	2.5
Vinyl chloride	75-01-4	0.076	0.1	LOD1	0.50	1.3	5.0
Bromomethane	74-83-9	0.20	0.4	LOD3	0.50	2.0	1.3
Chloroethane	75-00-3	0.22	0.4	LOD3	0.50	1.8	1.3
Trichlorofluoromethane	75-69-4	0.10	0.1	LOD1	0.50	1.0	5.0
Diethyl ether	60-29-7	0.066	0.1	LOD1	0.50	1.5	5.0
1,1-Dichloroethene	75-35-4	0.074	0.1	LOD1	0.50	1.3	5.0
Acetone	67-64-1	0.84	1	LOD2	2.5	1.2	2.5
Methyl iodide	74-88-4	0.13	0.2	LOD2	0.50	1.6	2.5
Carbon disulfide	75-15-0	0.12	0.2	LOD2	0.50	1.6	2.5
Allyl chloride	107-05-1	0.10	0.1	LOD1	0.50	1.0	5.0
Methylene Chloride	75-09-2	0.084	0.1	LOD1	0.50	1.2	5.0
t-Butyl alcohol	75-65-0	4.4	10	LOD1	50	2.3	5.0
Acrylonitrile	107-13-1	0.16	0.2	LOD2	0.50	1.2	2.5
trans-1,2-Dichloroethene	156-60-5	0.071	0.1	LOD1	0.50	1.4	5.0
Methyl t-butyl ether	1634-04-4	0.080	0.1	LOD1	0.50	1.2	5.0
1,1-Dichloroethane	75-34-3	0.094	0.1	LOD1	0.50	1.1	5.0
cis-1,2-Dichloroethene	156-59-2	0.087	0.1	LOD1	0.50	1.2	5.0
2,2-Dichloropropane	594-20-7	0.16	0.2	LOD2	0.50	1.3	2.5
2-Butanone	78-93-3	0.16	0.5	LOD1	5.0	3.1	10
Propionitrile	107-12-0	2.9	5	LOD1	25	1.7	5.0
Methyl acrylate	96-33-3	0.13	0.2	LOD2	0.50	1.5	2.5
Methacrylonitrile	126-98-7	0.081	0.2	LOD2	0.50	2.5	2.5
Bromochloromethane	74-97-5	0.076	0.1	LOD1	0.50	1.3	5.0
Tetrahydrofuran	109-99-9	0.52	1	LOD2	2.5	1.9	2.5
Chloroform	67-66-3	0.085	0.1	LOD1	0.50	1.2	5.0
1,1,1-Trichloroethane	71-55-6	0.092	0.1	LOD1	0.50	1.1	5.0
1-Chlorobutane	109-69-3	0.10	0.1	LOD1	0.50	1.0	5.0
Carbon tetrachloride	56-23-5	0.12	0.2	LOD2	0.50	1.7	2.5
1,1-Dichloropropene	563-58-6	0.12	0.2	LOD2	0.50	1.7	2.5
Benzene	71-43-2	0.10	0.2	LOD2	0.50	2.0	2.5
1,2-Dichloroethane	107-06-2	0.092	0.1	LOD1	0.50	1.1	5.0
Trichloroethene	79-01-6	0.10	0.2	LOD2	0.50	1.9	2.5
1,2-Dichloropropane	78-87-5	0.087	0.1	LOD1	0.50	1.2	5.0
Dibromomethane	74-95-3	0.090	0.1	LOD1	0.50	1.1	5.0
Methyl methacrylate	80-62-6	0.25	0.4	LOD3	0.50	1.6	1.3

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD: 524.2		MATRIX: Water			QA Review: Sara Goff		
PREP METHOD: 524.2		Instrument(s): L			Date Approved: 3/2/2014		
CLEANUP METHOD(s):		TAL Job #: 20492			TALS Entry: 3/2/2014		
ANALYTE	CAS #	DL ug/L	LOD ug/L	LOD Reference	LOQ ug/L	LOD/DL Ratio	LOQ/LOD Ratio
Bromodichloromethane	75-27-4	0.10	0.1	LOD1	0.50	1.0	5.0
2-Nitropropane	79-46-9	1.3	2	LOD1	10	1.6	5.0
Chloroacetonitrile	107-14-2	4.1	5	LOD1	25	1.2	5.0
cis-1,3-Dichloropropene	10061-01-5	0.12	0.1	LOD2	0.50	0.8	5.0
4-Methyl-2-pentanone (MIBK)	108-10-1	0.32	0.5	LOD1	2.5	1.6	5.0
1,1-Dichloropropanone	513-88-2	1.1	2	LOD1	10	1.9	5.0
Toluene	108-88-3	0.10	0.1	LOD1	0.50	1.0	5.0
trans-1,3-Dichloropropene	10061-02-6	0.082	0.1	LOD1	0.50	1.2	5.0
Ethyl methacrylate	97-63-2	0.073	0.1	LOD1	0.50	1.4	5.0
1,1,2-Trichloroethane	79-00-5	0.070	0.1	LOD1	0.50	1.4	5.0
Tetrachloroethene	127-18-4	0.089	0.1	LOD1	0.50	1.1	5.0
1,3-Dichloropropane	142-28-9	0.10	0.1	LOD1	0.50	1.0	5.0
2-Hexanone	591-78-6	0.40	0.1	LOD1	2.5	0.2	25.0
Dibromochloromethane	124-48-1	0.081	0.1	LOD1	0.50	1.2	5.0
1,2-Dibromoethane	106-93-4	0.072	0.1	LOD1	0.50	1.4	5.0
Chlorobenzene	108-90-7	0.093	0.1	LOD1	0.50	1.1	5.0
1,1,1,2-Tetrachloroethane	630-20-6	0.10	0.1	LOD1	0.50	1.0	5.0
Ethylbenzene	100-41-4	0.10	0.1	LOD1	0.50	1.1	5.0
m&p-Xylene	179601-23-1	0.20	0.1	LOD1	0.50	0.5	5.0
o-Xylene	95-47-6	0.092	0.1	LOD1	0.50	1.1	5.0
Xylenes, Total	1330-20-7	0.29	0.1	LOD1	0.50	0.3	5.0
Styrene	100-42-5	0.075	0.1	LOD1	0.50	1.3	5.0
Bromoform	75-25-2	0.067	0.1	LOD1	0.50	1.5	5.0
Isopropylbenzene	98-82-8	0.10	0.2	LOD2	0.50	1.9	2.5
Bromobenzene	108-86-1	0.083	0.1	LOD1	0.50	1.2	5.0
1,1,2,2-Tetrachloroethane	79-34-5	0.078	0.1	LOD1	0.50	1.3	5.0
1,2,3-Trichloropropane	96-18-4	0.10	0.1	LOD1	0.50	1.0	5.0
trans-1,4-Dichloro-2-butene	110-57-6	0.12	0.2	LOD2	0.50	1.6	2.5
n-Propylbenzene	103-65-1	0.10	0.2	LOD2	0.50	2.0	2.5
2-Chlorotoluene	95-49-8	0.10	0.2	LOD2	0.50	2.0	2.5
4-Chlorotoluene	106-43-4	0.10	0.1	LOD1	0.50	1.0	5.0
1,3,5-Trimethylbenzene	108-67-8	0.10	0.1	LOD1	0.50	1.0	5.0
tert-Butylbenzene	98-06-6	0.089	0.1	LOD1	0.50	1.1	5.0
Pentachloroethane	76-01-7	0.089	0.1	LOD1	0.50	1.1	5.0
1,2,4-Trimethylbenzene	95-63-6	0.10	0.2	LOD2	0.50	2.0	2.5
sec-Butylbenzene	135-98-8	0.090	0.1	LOD1	0.50	1.1	5.0
1,3-Dichlorobenzene	541-73-1	0.11	0.2	LOD2	0.50	1.9	2.5

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD: 524.2		MATRIX: Water			QA Review: Sara Goff		
PREP METHOD: 524.2		Instrument(s): L			Date Approved: 3/2/2014		
CLEANUP METHOD(s):		TAL Job #: 20492			TALS Entry: 3/2/2014		
ANALYTE	CAS #	DL ug/L	LOD ug/L	LOD Reference	LOQ ug/L	LOD/DL Ratio	LOQ/LOD Ratio
p-Isopropyltoluene	99-87-6	0.090	0.1	LOD1	0.50	1.1	5.0
1,4-Dichlorobenzene	106-46-7	0.10	0.1	LOD1	0.50	1.0	5.0
1,2-Dichlorobenzene	95-50-1	0.081	0.1	LOD1	0.50	1.2	5.0
n-Butylbenzene	104-51-8	0.13	0.2	LOD2	0.50	1.6	2.5
Hexachloroethane	67-72-1	0.12	0.2	LOD2	0.50	1.7	2.5
1,2-Dibromo-3-Chloropropane	96-12-8	0.10	0.1	LOD1	0.50	1.0	5.0
Nitrobenzene	98-95-3	3.6	10	LOD2	25	2.8	2.5
1,3,5-Trichlorobenzene	108-70-3	0.10	0.1	LOD1	0.50	1.0	5.0
1,2,4-Trichlorobenzene	120-82-1	0.083	0.1	LOD1	0.50	1.2	5.0
Hexachlorobutadiene	87-68-3	0.089	0.1	LOD1	0.50	1.1	5.0
Naphthalene	91-20-3	0.062	0.1	LOD1	0.50	1.6	5.0
1,2,3-Trichlorobenzene	87-61-6	0.10	0.1	LOD2	0.50	1.0	5.0

Detection Limit (DL) Study Report

TEST METHOD:		524.2	Prep Dates:		01/21/14									
PREP METHOD:		524.2	Prep Factor:											
CLEANUP METHOD(s):		NA	Initial Vol		5 mL									
MATRIX:		Water	Final Vol		5 mL									
ANALYTE	Date Analyzed:		01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	Mean ug/L	Average %R	STD DEV	DL ug/L	Spike/ DL Ratio
	Instrument ID:		L	L	L	L	L	L	L					
	Column Type:		DB-624	DB-624	DB-624	DB-624	DB-624	DB-624	DB-624					
	CAS #	Spike ug/L	REP 1 ug/L	REP 2 ug/L	REP 3 ug/L	REP 4 ug/L	REP 5 ug/L	REP 6 ug/L	REP 7 ug/L					
Dichlorodifluoromethane	75-71-8	0.25	0.2940	0.2077	0.2242	0.2422	0.2319	0.2230	0.2171	0.234	94%	0.02849	0.090	2.8
Chloromethane	74-87-3	0.25	0.3244	0.2737	0.2436	0.2590	0.2435	0.3317	0.2432	0.274	110%	0.03852	0.121	2.1
Vinyl chloride	75-01-4	0.25	0.3103	0.2458	0.2454	0.2707	0.2535	0.2785	0.2455	0.264	106%	0.02424	0.076	3.3
Bromomethane	74-83-9	0.25	0.4489	0.3114	0.3160	0.4281	0.4010	0.2997	0.3038	0.358	143%	0.06495	0.204	1.2
Trichlorofluoromethane	75-69-4	0.25	0.3141	0.2378	0.2301	0.2581	0.2539	0.2302	0.2236	0.250	100%	0.03116	0.098	2.6
Diethyl ether	60-29-7	0.25	0.2560	0.2140	0.2128	0.2419	0.2252	0.1923	0.2143	0.222	89%	0.02102	0.066	3.8
1,1-Dichloroethene	75-35-4	0.25	0.2892	0.2483	0.2280	0.2554	0.2510	0.2323	0.2169	0.246	98%	0.02360	0.074	3.4
Acetone	67-64-1	1.25	1.6464	2.2726	1.4420	1.5300	1.8016	1.6935	1.7017	1.727	138%	0.26819	0.843	1.5
Methyl iodide	74-88-4	0.25	0.3054	0.2176	0.2014	0.1959	0.2075	0.1873	0.2022	0.217	87%	0.04021	0.126	2.0
Carbon disulfide	75-15-0	0.25	0.3664	0.2457	0.2891	0.3008	0.2552	0.2781	0.2836	0.288	115%	0.03936	0.124	2.0
Allyl chloride	107-05-1	0.25	0.3383	0.2651	0.2548	0.2861	0.2615	0.2581	0.2493	0.273	109%	0.03095	0.097	2.6
Methylene Chloride	75-09-2	0.25	0.3685	0.3181	0.3169	0.3425	0.3277	0.3103	0.2836	0.324	130%	0.02660	0.084	3.0
t-Butyl alcohol	75-65-0	25	16.9225	17.0985	13.1718	15.7232	14.8499	14.2449	15.2043	15.316	61%	1.40822	4.4	5.6
Acrylonitrile	107-13-1	0.25	0.2490	0.2358	0.1786	0.1897	0.2940	0.1489	0.1735	0.210	84%	0.05116	0.161	1.6
trans-1,2-Dichloroethene	156-60-5	0.25	0.3022	0.2473	0.2450	0.2584	0.2363	0.2567	0.2377	0.255	102%	0.02255	0.071	3.5
Methyl t-butyl ether	1634-04-4	0.25	0.2877	0.2244	0.2267	0.2507	0.2493	0.2213	0.2137	0.239	96%	0.02559	0.080	3.1
1,1-Dichloroethane	75-34-3	0.25	0.3334	0.2588	0.2467	0.2836	0.2666	0.2602	0.2497	0.271	109%	0.02993	0.094	2.7
cis-1,2-Dichloroethene	156-59-2	0.25	0.3172	0.2428	0.2391	0.2515	0.2502	0.2639	0.2396	0.258	103%	0.02758	0.087	2.9
2,2-Dichloropropane	594-20-7	0.25	0.4285	0.4955	0.3618	0.3865	0.4061	0.3618	0.3553	0.399	160%	0.05013	0.158	1.6
2-Butanone	78-93-3	1.25	0.9451	0.9013	0.8029	0.8089	0.8597	0.8653	0.8291	0.859	69%	0.05129	0.161	7.8
Propionitrile	107-12-0	12.7	10.9392	8.5060	8.4839	8.9144	9.6144	8.4464	8.6624	9.081	72%	0.91563	2.878	4.4
Methyl acrylate	96-33-3	0.25	0.2332	0.1332	0.1457	0.1588	0.1617	0.1075	0.1200	0.151	61%	0.04109	0.129	1.9
Methacrylonitrile	126-98-7	0.25	0.2676	0.2263	0.2769	0.2487	0.2600	0.2101	0.2200	0.244	98%	0.02568	0.081	3.1
Bromochloromethane	74-97-5	0.25	0.2893	0.2258	0.2465	0.2140	0.2522	0.2375	0.2343	0.243	97%	0.02410	0.076	3.3
Tetrahydrofuran	109-99-9	1.25	1.6277	1.1558	1.2623	1.3183	1.1221	1.2770	1.2904	1.293	103%	0.16426	0.516	2.4
Chloroform	67-66-3	0.25	0.3536	0.2765	0.2888	0.3159	0.3140	0.2916	0.2815	0.303	121%	0.02690	0.085	3.0
1,1,1-Trichloroethane	71-55-6	0.25	0.3217	0.2561	0.2514	0.2689	0.2492	0.2429	0.2333	0.260	104%	0.02913	0.092	2.7
1-Chlorobutane	109-69-3	0.25	0.3387	0.2939	0.2719	0.3050	0.2451	0.2632	0.2649	0.283	113%	0.03160	0.099	2.5
Carbon tetrachloride	56-23-5	0.25	0.3169	0.2254	0.2202	0.2517	0.2240	0.2136	0.2110	0.238	95%	0.03743	0.118	2.1
1,1-Dichloropropene	563-58-6	0.25	0.3227	0.2432	0.2247	0.3066	0.2491	0.2403	0.2442	0.262	105%	0.03736	0.117	2.1
Benzene	71-43-2	0.25	0.3432	0.2606	0.2669	0.2926	0.2560	0.2620	0.2542	0.276	111%	0.03208	0.101	2.5
1,2-Dichloroethane	107-06-2	0.25	0.2888	0.2008	0.2068	0.2228	0.2161	0.2241	0.2160	0.225	90%	0.02932	0.092	2.7
Trichloroethene	79-01-6	0.25	0.3525	0.2850	0.2739	0.2658	0.2786	0.2813	0.2476	0.284	113%	0.03288	0.103	2.4

Detection Limit (DL) Study Report

TEST METHOD:		524.2	Prep Dates:		01/21/14									
PREP METHOD:		524.2	Prep Factor:											
CLEANUP METHOD(s):		NA	Initial Vol		5 mL									
MATRIX:		Water	Final Vol		5 mL									
ANALYTE	Date Analyzed:		01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	Mean ug/L	Average %R	STD DEV	DL ug/L	Spike/ DL Ratio
	Instrument ID:		L	L	L	L	L	L	L					
	Column Type:		DB-624	DB-624	DB-624	DB-624	DB-624	DB-624	DB-624					
	CAS #	Spike ug/L	REP 1 ug/L	REP 2 ug/L	REP 3 ug/L	REP 4 ug/L	REP 5 ug/L	REP 6 ug/L	REP 7 ug/L					
1,2-Dichloropropane	78-87-5	0.25	0.3198	0.2667	0.2424	0.2813	0.2678	0.2400	0.2509	0.267	107%	0.02765	0.087	2.9
Dibromomethane	74-95-3	0.25	0.2960	0.2561	0.2205	0.2401	0.2268	0.2131	0.2248	0.240	96%	0.02857	0.090	2.8
Methyl methacrylate	80-62-6	0.25	0.5812	0.4062	0.4704	0.5766	0.3714	0.4540	0.5246	0.483	193%	0.08113	0.255	1.0
Bromodichloromethane	75-27-4	0.25	0.3191	0.2494	0.2367	0.2646	0.2807	0.2478	0.2300	0.261	104%	0.03065	0.096	2.6
2-Nitropropane	79-46-9	5.25	4.6874	3.6933	3.8333	4.1316	3.9942	3.5764	3.5020	3.917	75%	0.40638	1.277	4.1
Chloroacetonitrile	107-14-2	12.7	10.6523	6.8219	6.9847	7.3838	7.5407	7.3376	8.2328	7.851	62%	1.31532	4.134	3.1
cis-1,3-Dichloropropene	10061-01-5	0.25	0.3769	0.2553	0.2894	0.2949	0.2826	0.2739	0.2940	0.295	118%	0.03856	0.121	2.1
4-Methyl-2-pentanone (MIBK)	108-10-1	1.25	1.2340	0.9723	0.9632	0.9991	1.0293	0.9743	0.9328	1.015	81%	0.10111	0.318	3.9
1,1-Dichloropropanone	513-88-2	5.25	4.9125	4.6461	4.0483	4.0012	4.6063	4.5114	4.2775	4.429	84%	0.33419	1.050	5.0
Toluene	108-88-3	0.25	0.3164	0.2353	0.2413	0.2490	0.2538	0.2295	0.2300	0.251	100%	0.03037	0.095	2.6
trans-1,3-Dichloropropene	10061-02-6	0.25	0.3185	0.2525	0.2416	0.2462	0.2510	0.2630	0.2626	0.262	105%	0.02606	0.082	3.1
Ethyl methacrylate	97-63-2	0.25	0.2284	0.2542	0.2183	0.2656	0.2004	0.2541	0.2448	0.238	95%	0.02318	0.073	3.4
1,1,2-Trichloroethane	79-00-5	0.25	0.2804	0.2414	0.2452	0.2507	0.2918	0.2308	0.2461	0.255	102%	0.02223	0.070	3.6
Tetrachloroethene	127-18-4	0.25	0.3143	0.2412	0.2459	0.2525	0.2430	0.2502	0.2253	0.253	101%	0.02834	0.089	2.8
1,3-Dichloropropane	142-28-9	0.25	0.3034	0.2467	0.2314	0.2574	0.2508	0.2100	0.2220	0.246	98%	0.03037	0.095	2.6
2-Hexanone	591-78-6	1.25	1.2409	0.9435	0.8600	0.9883	1.0126	0.9306	0.8696	0.978	78%	0.12880	0.405	3.1
Dibromochloromethane	124-48-1	0.25	0.2745	0.2160	0.2005	0.2288	0.2133	0.2038	0.2047	0.220	88%	0.02578	0.081	3.1
1,2-Dibromoethane	106-93-4	0.25	0.2722	0.2154	0.2152	0.2226	0.2237	0.2224	0.1973	0.224	90%	0.02307	0.072	3.4
Chlorobenzene	108-90-7	0.25	0.3142	0.2447	0.2324	0.2521	0.2557	0.2408	0.2226	0.252	101%	0.02974	0.093	2.7
1,1,1,2-Tetrachloroethane	630-20-6	0.25	0.3141	0.2367	0.2256	0.2545	0.2691	0.2397	0.2326	0.253	101%	0.03054	0.096	2.6
Ethylbenzene	100-41-4	0.25	0.3429	0.2700	0.2630	0.2878	0.2758	0.2660	0.2502	0.279	112%	0.03030	0.095	2.6
m&p-Xylene	179601-23-1	0.5	0.6615	0.5078	0.4790	0.5257	0.5246	0.4814	0.4890	0.524	105%	0.06356	0.200	2.5
o-Xylene	95-47-6	0.25	0.3235	0.2549	0.2440	0.2653	0.2777	0.2442	0.2405	0.264	106%	0.02931	0.092	2.7
Xylenes, Total	1330-20-7	0.75	0.9850	0.7626	0.7230	0.7909	0.8023	0.7256	0.7295	0.788	105%	0.09237	0.290	2.6
Styrene	100-42-5	0.25	0.2893	0.2310	0.2255	0.2437	0.2395	0.2311	0.2161	0.239	96%	0.02376	0.075	3.3
Bromoform	75-25-2	0.25	0.2438	0.1966	0.1891	0.1871	0.1924	0.1865	0.1820	0.197	79%	0.02123	0.067	3.7
Isopropylbenzene	98-82-8	0.25	0.3497	0.2701	0.2530	0.2843	0.2703	0.2629	0.2568	0.278	111%	0.03319	0.104	2.4
Bromobenzene	108-86-1	0.25	0.2991	0.2385	0.2226	0.2374	0.2216	0.2341	0.2326	0.241	96%	0.02655	0.083	3.0
1,1,1,2-Tetrachloroethane	79-34-5	0.25	0.2990	0.2708	0.2413	0.2516	0.2617	0.2378	0.2232	0.255	102%	0.02493	0.078	3.2
1,2,3-Trichloropropane	96-18-4	0.25	0.2923	0.2370	0.2123	0.2405	0.2165	0.1990	0.2177	0.231	92%	0.03069	0.096	2.6
trans-1,4-Dichloro-2-butene	110-57-6	0.25	0.2864	0.2165	0.2890	0.2305	0.1827	0.2365	0.2156	0.237	95%	0.03877	0.122	2.1
n-Propylbenzene	103-65-1	0.25	0.3198	0.2551	0.2298	0.2491	0.2645	0.2617	0.2193	0.257	103%	0.03227	0.101	2.5
2-Chlorotoluene	95-49-8	0.25	0.3322	0.2649	0.2492	0.2694	0.2640	0.2593	0.2289	0.267	107%	0.03186	0.100	2.5

Detection Limit (DL) Study Report

TEST METHOD:		524.2	Prep Dates: 01/21/14											
PREP METHOD:		524.2	Prep Factor:											
CLEANUP METHOD(s):		NA	Initial Vol 5 mL											
MATRIX:		Water	Final Vol 5 mL											
ANALYTE	Date Analyzed:		01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	Mean ug/L	Average %R	STD DEV	DL ug/L	Spike/ DL Ratio
	Instrument ID:		L	L	L	L	L	L	L					
	Column Type:		DB-624	DB-624	DB-624	DB-624	DB-624	DB-624	DB-624					
	CAS #	Spike ug/L	REP 1 ug/L	REP 2 ug/L	REP 3 ug/L	REP 4 ug/L	REP 5 ug/L	REP 6 ug/L	REP 7 ug/L					
4-Chlorotoluene	106-43-4	0.25	0.3154	0.2501	0.2248	0.2483	0.2404	0.2551	0.2263	0.251	101%	0.03051	0.096	2.6
1,3,5-Trimethylbenzene	108-67-8	0.25	0.3424	0.2788	0.2547	0.2758	0.2739	0.2670	0.2454	0.277	111%	0.03131	0.098	2.5
tert-Butylbenzene	98-06-6	0.25	0.3303	0.2633	0.2514	0.2727	0.2614	0.2488	0.2535	0.269	108%	0.02835	0.089	2.8
Pentachloroethane	76-01-7	0.25	0.3036	0.2408	0.2255	0.2290	0.2399	0.2300	0.2208	0.241	97%	0.02836	0.089	2.8
1,2,4-Trimethylbenzene	95-63-6	0.25	0.3480	0.2851	0.2605	0.2744	0.2685	0.2612	0.2555	0.279	112%	0.03200	0.101	2.5
sec-Butylbenzene	135-98-8	0.25	0.3623	0.3030	0.2855	0.2939	0.2981	0.2902	0.2734	0.301	120%	0.02869	0.090	2.8
1,3-Dichlorobenzene	541-73-1	0.25	0.3230	0.2548	0.2162	0.2630	0.2475	0.2308	0.2397	0.254	101%	0.03430	0.108	2.3
p-Isopropyltoluene	99-87-6	0.25	0.3672	0.3038	0.2877	0.3213	0.3144	0.3044	0.2800	0.311	124%	0.02851	0.090	2.8
1,4-Dichlorobenzene	106-46-7	0.25	0.3123	0.2390	0.2341	0.2407	0.2366	0.2260	0.2173	0.244	97%	0.03132	0.098	2.5
1,2-Dichlorobenzene	95-50-1	0.25	0.2912	0.2329	0.2215	0.2488	0.2266	0.2255	0.2158	0.237	95%	0.02590	0.081	3.1
n-Butylbenzene	104-51-8	0.25	0.3676	0.2963	0.2416	0.2873	0.2803	0.2664	0.2646	0.286	115%	0.04001	0.126	2.0
Hexachloroethane	67-72-1	0.25	0.3421	0.2741	0.2398	0.2863	0.2708	0.2647	0.2216	0.271	109%	0.03818	0.120	2.1
1,2-Dibromo-3-Chloropropane	96-12-8	0.25	0.2712	0.2336	0.1891	0.2348	0.1941	0.1996	0.1877	0.216	86%	0.03159	0.099	2.5
Nitrobenzene	98-95-3	12.7	6.9034	5.8308	5.1711	4.8195	4.2945	4.6292	3.3198	4.995	39%	1.14259	3.591	3.5
1,3,5-Trichlorobenzene	108-70-3	0.25	0.2875	0.2203	0.1978	0.2113	0.2217	0.1983	0.1997	0.220	88%	0.03163	0.099	2.5
1,2,4-Trichlorobenzene	120-82-1	0.25	0.2061	0.1427	0.1321	0.1379	0.1456	0.1396	0.1279	0.147	59%	0.02656	0.083	3.0
Hexachlorobutadiene	87-68-3	0.25	0.3454	0.2964	0.2666	0.2895	0.2696	0.2691	0.2691	0.287	115%	0.02846	0.089	2.8
Naphthalene	91-20-3	0.25	0.1366	0.1073	0.1120	0.0987	0.0978	0.0997	0.0708	0.103	41%	0.01966	0.062	4.0
1,2,3-Trichlorobenzene	87-61-6	0.25	0.2326	0.1510	0.1573	0.1591	0.1663	0.1400	0.1330	0.163	65%	0.03284	0.103	2.4

Detection Limit (DL) Study Report

TEST METHOD:		524.2		Prep Dates:		01/21/14								
PREP METHOD:		524.2		Prep Factor:										
CLEANUP METHOD(s):		NA		Initial Vol		5 mL								
MATRIX:		Water		Final Vol		5 mL								
ANALYTE	Date Analyzed:		01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	01/21/14	Mean ug/L	Average %R	STD DEV	DL ug/L	Spike/ DL Ratio
	Instrument ID:		L	L	L	L	L	L	L					
	Column Type:		DB-624	DB-624	DB-624	DB-624	DB-624	DB-624	DB-624					
	CAS #	Spike ug/L	REP 1 ug/L	REP 2 ug/L	REP 3 ug/L	REP 4 ug/L	REP 5 ug/L	REP 6 ug/L	REP 7 ug/L					
Chloroethane	75-00-3	0.4	0.3970	0.4013	0.5755	0.4537	0.5201	0.5177	0.5486	0.488	122%	0.07096	0.223	1.8

Limit of Detection (LOD) Verification Report

TEST METHOD: 524.2			Prep Date: 01/21/14			Instrument:	
PREP METHOD: 524.2			Initial Amount: 5 mL				
CLEANUP METHOD(s): NA			Final Amount: 5 mL			L	
MATRIX: Water			LOD Ref: LOD1			DB-624	
ANALYTE	CAS #	DL ug/L	Spike ug/L	Spike/DL Ratio	Pass Y/N	Result ug/L	Date Analyzed
Dichlorodifluoromethane	75-71-8	0.090	0.1	1.1	Y	0.1121	01/21/14
Vinyl chloride	75-01-4	0.076	0.1	1.3	Y	0.1228	01/21/14
Trichlorofluoromethane	75-69-4	0.098	0.1	1.0	Y	0.1131	01/21/14
Diethyl ether	60-29-7	0.066	0.1	1.5	Y	0.1016	01/21/14
1,1-Dichloroethene	75-35-4	0.074	0.1	1.3	Y	0.1195	01/21/14
Allyl chloride	107-05-1	0.097	0.1	1.0	Y	0.1379	01/21/14
Methylene Chloride	75-09-2	0.084	0.1	1.2	Y	0.1826	01/21/14
t-Butyl alcohol	75-65-0	4.426	10	2.3	Y	7.4331	01/21/14
trans-1,2-Dichloroethene	156-60-5	0.071	0.1	1.4	Y	0.1159	01/21/14
Methyl t-butyl ether	1634-04-4	0.080	0.1	1.2	Y	0.1204	01/21/14
1,1-Dichloroethane	75-34-3	0.094	0.1	1.1	Y	0.1409	01/21/14
cis-1,2-Dichloroethene	156-59-2	0.087	0.1	1.2	Y	0.1192	01/21/14
2-Butanone	78-93-3	0.161	0.5	3.1	Y	0.4650	01/21/14
Propionitrile	107-12-0	2.878	5.1	1.8	Y	3.9466	01/21/14
Bromochloromethane	74-97-5	0.076	0.1	1.3	Y	0.1114	01/21/14
Chloroform	67-66-3	0.085	0.1	1.2	Y	0.1755	01/21/14
1,1,1-Trichloroethane	71-55-6	0.092	0.1	1.1	Y	0.1246	01/21/14
1-Chlorobutane	109-69-3	0.099	0.1	1.0	Y	0.1399	01/21/14
1,2-Dichloroethane	107-06-2	0.092	0.1	1.1	Y	0.1060	01/21/14
1,2-Dichloropropane	78-87-5	0.087	0.1	1.2	Y	0.1451	01/21/14
Dibromomethane	74-95-3	0.090	0.1	1.1	Y	0.1139	01/21/14
Bromodichloromethane	75-27-4	0.096	0.1	1.0	Y	0.1283	01/21/14
2-Nitropropane	79-46-9	1.277	2.1	1.6	Y	1.8257	01/21/14
Chloroacetonitrile	107-14-2	4.134	5.1	1.2	Y	4.0440	01/21/14
4-Methyl-2-pentanone (MIBK)	108-10-1	0.318	0.5	1.6	Y	0.4683	01/21/14
1,1-Dichloropropanone	513-88-2	1.050	2.1	2.0	Y	2.1194	01/21/14
Toluene	108-88-3	0.095	0.1	1.0	Y	0.1234	01/21/14
trans-1,3-Dichloropropene	10061-02-6	0.082	0.1	1.2	Y	0.1306	01/21/14
Ethyl methacrylate	97-63-2	0.073	0.1	1.4	Y	0.0686	01/21/14
1,1,2-Trichloroethane	79-00-5	0.070	0.1	1.4	Y	0.1532	01/21/14
Tetrachloroethene	127-18-4	0.089	0.1	1.1	Y	0.1149	01/21/14
1,3-Dichloropropane	142-28-9	0.095	0.1	1.0	Y	0.1355	01/21/14
2-Hexanone	591-78-6	0.405	0.5	1.2	Y	0.4488	01/21/14
Dibromochloromethane	124-48-1	0.081	0.1	1.2	Y	0.1116	01/21/14
1,2-Dibromoethane	106-93-4	0.072	0.1	1.4	Y	0.0947	01/21/14
Chlorobenzene	108-90-7	0.093	0.1	1.1	Y	0.1127	01/21/14
1,1,1,2-Tetrachloroethane	630-20-6	0.096	0.1	1.0	Y	0.1196	01/21/14
Ethylbenzene	100-41-4	0.095	0.1	1.1	Y	0.1293	01/21/14
m&p-Xylene	179601-23-1	0.200	0.2	1.0	Y	0.2358	01/21/14
o-Xylene	95-47-6	0.092	0.1	1.1	Y	0.1192	01/21/14
Xylenes, Total	1330-20-7	0.290	0.3	1.0	Y	0.3550	01/21/14
Styrene	100-42-5	0.075	0.1	1.3	Y	0.1151	01/21/14
Bromoform	75-25-2	0.067	0.1	1.5	Y	0.0816	01/21/14
Bromobenzene	108-86-1	0.083	0.1	1.2	Y	0.1129	01/21/14
1,1,2,2-Tetrachloroethane	79-34-5	0.078	0.1	1.3	Y	0.1138	01/21/14
1,2,3-Trichloropropane	96-18-4	0.096	0.1	1.0	Y	0.0875	01/21/14
4-Chlorotoluene	106-43-4	0.096	0.1	1.0	Y	0.1215	01/21/14
1,3,5-Trimethylbenzene	108-67-8	0.098	0.1	1.0	Y	0.1322	01/21/14
tert-Butylbenzene	98-06-6	0.089	0.1	1.1	Y	0.1243	01/21/14
Pentachloroethane	76-01-7	0.089	0.1	1.1	Y	0.1262	01/21/14
sec-Butylbenzene	135-98-8	0.090	0.1	1.1	Y	0.1355	01/21/14

Limit of Detection (LOD) Verification Report

TEST METHOD: 524.2			Prep Date: 01/21/14			Instrument:	
PREP METHOD: 524.2			Initial Amount: 5 mL				
CLEANUP METHOD(s): NA			Final Amount: 5 mL			L	
MATRIX: Water			LOD Ref: LOD1			DB-624	
ANALYTE	CAS #	DL ug/L	Spike ug/L	Spike/DL Ratio	Pass Y/N	Result ug/L	Date Analyzed
p-Isopropyltoluene	99-87-6	0.090	0.1	1.1	Y	0.1610	01/21/14
1,4-Dichlorobenzene	106-46-7	0.098	0.1	1.0	Y	0.1181	01/21/14
1,2-Dichlorobenzene	95-50-1	0.081	0.1	1.2	Y	0.1095	01/21/14
1,2-Dibromo-3-Chloropropane	96-12-8	0.099	0.1	1.0	Y	0.0964	01/21/14
1,3,5-Trichlorobenzene	108-70-3	0.099	0.1	1.0	Y	0.0880	01/21/14
1,2,4-Trichlorobenzene	120-82-1	0.083	0.1	1.2	Y	0.0451	01/21/14
Hexachlorobutadiene	87-68-3	0.089	0.1	1.1	Y	0.1312	01/21/14
Naphthalene	91-20-3	0.062	0.1	1.6	Y	0.0617	01/21/14

Limit of Detection (LOD) Verification Report

TEST METHOD: 524.2			Prep Date: 01/21/14			Instrument:	
PREP METHOD: 524.2			Initial Amount: 5 mL				
CLEANUP METHOD(s): NA			Final Amount: 5 mL			L	
MATRIX: Water			LOD Ref: LOD2			DB-624	
ANALYTE	CAS #	DL ug/L	Spike ug/L	Spike/DL Ratio	Pass Y/N	Result ug/L	Date Analyzed
Chloromethane	74-87-3	0.121	0.2	1.7	Y	0.3291	01/21/14
Acetone	67-64-1	0.843	1	1.2	Y	1.7442	01/21/14
Methyl iodide	74-88-4	0.126	0.2	1.6	Y	0.1797	01/21/14
Carbon disulfide	75-15-0	0.124	0.2	1.6	Y	0.2522	01/21/14
Acrylonitrile	107-13-1	0.161	0.2	1.2	Y	0.1356	01/21/14
2,2-Dichloropropane	594-20-7	0.158	0.2	1.3	Y	0.4111	01/21/14
Methyl acrylate	96-33-3	0.129	0.2	1.5	Y	0.1077	01/21/14
Methacrylonitrile	126-98-7	0.081	0.2	2.5	Y	0.1661	01/21/14
Tetrahydrofuran	109-99-9	0.516	1	1.9	Y	1.1486	01/21/14
Carbon tetrachloride	56-23-5	0.118	0.2	1.7	Y	0.2126	01/21/14
1,1-Dichloropropene	563-58-6	0.117	0.2	1.7	Y	0.2442	01/21/14
Benzene	71-43-2	0.101	0.2	2.0	Y	0.2477	01/21/14
Trichloroethene	79-01-6	0.103	0.2	1.9	Y	0.2350	01/21/14
cis-1,3-Dichloropropene	10061-01-5	0.121	0.2	1.7	Y	0.2774	01/21/14
Isopropylbenzene	98-82-8	0.104	0.2	1.9	Y	0.2467	01/21/14
trans-1,4-Dichloro-2-butene	110-57-6	0.122	0.2	1.6	Y	0.1697	01/21/14
n-Propylbenzene	103-65-1	0.101	0.2	2.0	Y	0.2191	01/21/14
2-Chlorotoluene	95-49-8	0.100	0.2	2.0	Y	0.2203	01/21/14
1,2,4-Trimethylbenzene	95-63-6	0.101	0.2	2.0	Y	0.2444	01/21/14
1,3-Dichlorobenzene	541-73-1	0.108	0.2	1.9	Y	0.2101	01/21/14
n-Butylbenzene	104-51-8	0.126	0.2	1.6	Y	0.2392	01/21/14
Hexachloroethane	67-72-1	0.120	0.2	1.7	Y	0.2314	01/21/14
Nitrobenzene	98-95-3	3.591	10.2	2.8	Y	3.1393	01/21/14
1,2,3-Trichlorobenzene	87-61-6	0.103	0.2	1.9	Y	0.1230	01/21/14

Limit of Detection (LOD) Verification Report

TEST METHOD: 524.2			Prep Date: 01/21/14			Instrument:	
PREP METHOD: 524.2			Initial Amount: 5 mL				
CLEANUP METHOD(s): NA			Final Amount: 5 mL			L	
MATRIX: Water			LOD Ref: LOD3			DB-624	
ANALYTE	CAS #	DL ug/L	Spike ug/L	Spike/DL Ratio	Pass Y/N	Result ug/L	Date Analyzed
Bromomethane	74-83-9	0.204	0.4	2.0	Y	0.5695	01/21/14
Chloroethane	75-00-3	0.223	0.4	1.8	Y	0.4146	01/21/14
Methyl methacrylate	80-62-6	0.255	0.4	1.6	Y	0.5629	01/21/14

Limit of Quantitation (LOQ) Verification Report

TEST METHOD: 524.2			Prep Date:		02/17/14			Instrument(s):	
PREP METHOD: 524.2			Initial Amount:		5 mL			L	
CLEANUP METHOD(s): NA			Final Amount:		5 mL			DB-624	
MATRIX: Water					LOQ Precision & Bias			02/17/14	
ANALYTE	CAS #	LOQ ug/L	Spike ug/L	Spike / LOQ Ratio	Lower Limit	Upper Limit	Pass Y/N	Result ug/L	%R
Dichlorodifluoromethane	75-71-8	0.5	0.50	1.0	50	150	Y	0.5342	107
Chloromethane	74-87-3	0.5	0.50	1.0	50	150	Y	0.4484	90
Vinyl chloride	75-01-4	0.5	0.50	1.0	50	150	Y	0.5161	103
Bromomethane	74-83-9	0.5	0.50	1.0	50	150	Y	0.4940	99
Chloroethane	75-00-3	0.5	0.50	1.0	50	150	Y	0.5200	104
Trichlorofluoromethane	75-69-4	0.5	0.50	1.0	50	150	Y	0.5559	111
Diethyl ether	60-29-7	0.5	0.50	1.0	50	150	Y	0.5572	111
1,1-Dichloroethene	75-35-4	0.5	0.50	1.0	50	150	Y	0.5700	114
Acetone	67-64-1	5	2.5	0.5	50	150	Y	3.1641	127
Methyl iodide	74-88-4	0.5	0.50	1.0	50	150	Y	0.2834	57
Carbon disulfide	75-15-0	0.5	0.50	1.0	50	150	Y	0.5953	119
Allyl chloride	107-05-1	0.5	0.50	1.0	50	150	Y	0.5192	104
Methylene Chloride	75-09-2	0.5	0.50	1.0	50	150	Y	0.5960	119
t-Butyl alcohol	75-65-0	50	50	1.0	50	150	Y	54.2839	109
Acrylonitrile	107-13-1	0.5	0.50	1.0	50	150	Y	0.4674	93
trans-1,2-Dichloroethene	156-60-5	0.5	0.50	1.0	50	150	Y	0.5394	108
Methyl t-butyl ether	1634-04-4	0.5	0.50	1.0	50	150	Y	0.5491	110
1,1-Dichloroethane	75-34-3	0.5	0.50	1.0	50	150	Y	0.5872	117
cis-1,2-Dichloroethene	156-59-2	0.5	0.50	1.0	50	150	Y	0.5627	113
2,2-Dichloropropane	594-20-7	0.5	0.50	1.0	50	150	Y	0.6779	136
2-Butanone	78-93-3	5	2.5	0.5	50	150	Y	2.0721	83
Propionitrile	107-12-0	25	25	1.0	50	150	Y	23.8058	95
Methyl acrylate	96-33-3	0.5	0.50	1.0	50	150	Y	0.3935	79
Methacrylonitrile	126-98-7	0.5	0.50	1.0	50	150	Y	0.6066	121
Bromochloromethane	74-97-5	0.5	0.50	1.0	50	150	Y	0.5998	120
Tetrahydrofuran	109-99-9	2.5	2.5	1.0	50	150	Y	2.6775	107
Chloroform	67-66-3	0.5	0.50	1.0	50	150	Y	0.5543	111
1,1,1-Trichloroethane	71-55-6	0.5	0.50	1.0	50	150	Y	0.5459	109
1-Chlorobutane	109-69-3	0.5	0.50	1.0	50	150	Y	0.5666	113
Carbon tetrachloride	56-23-5	0.5	0.50	1.0	50	150	Y	0.5292	106
1,1-Dichloropropene	563-58-6	0.5	0.50	1.0	50	150	Y	0.5782	116
Benzene	71-43-2	0.5	0.50	1.0	50	150	Y	0.5736	115
1,2-Dichloroethane	107-06-2	0.5	0.50	1.0	50	150	Y	0.5407	108
Trichloroethene	79-01-6	0.5	0.50	1.0	50	150	Y	0.5523	110
1,2-Dichloropropane	78-87-5	0.5	0.50	1.0	50	150	Y	0.5515	110
Dibromomethane	74-95-3	0.5	0.50	1.0	50	150	Y	0.5427	109
Methyl methacrylate	80-62-6	0.5	0.50	1.0	50	150	Y	0.7401	148
Bromodichloromethane	75-27-4	0.5	0.50	1.0	50	150	Y	0.5513	110
2-Nitropropane	79-46-9	10	10	1.0	50	150	Y	10.0804	101
Chloroacetonitrile	107-14-2	25	25	1.0	50	150	Y	24.8011	99
cis-1,3-Dichloropropene	10061-01-5	0.5	0.50	1.0	50	150	Y	0.5980	120
4-Methyl-2-pentanone (MIBK)	108-10-1	2.5	2.5	1.0	50	150	Y	2.6480	106
1,1-Dichloropropanone	513-88-2	10	10	1.0	50	150	Y	11.4221	114
Toluene	108-88-3	0.5	0.50	1.0	50	150	Y	0.5257	105
trans-1,3-Dichloropropene	10061-02-6	0.5	0.50	1.0	50	150	Y	0.5464	109
Ethyl methacrylate	97-63-2	0.5	0.50	1.0	50	150	Y	0.5375	107
1,1,2-Trichloroethane	79-00-5	0.5	0.50	1.0	50	150	Y	0.5374	107
Tetrachloroethene	127-18-4	0.5	0.50	1.0	50	150	Y	0.5467	109
1,3-Dichloropropane	142-28-9	0.5	0.50	1.0	50	150	Y	0.5357	107
2-Hexanone	591-78-6	2.5	2.5	1.0	50	150	Y	2.5918	104
Dibromochloromethane	124-48-1	0.5	0.50	1.0	50	150	Y	0.5097	102

Limit of Quantitation (LOQ) Verification Report

TEST METHOD: 524.2			Prep Date:		02/17/14			Instrument(s):	
PREP METHOD: 524.2			Initial Amount:		5 mL			L	
CLEANUP METHOD(s): NA			Final Amount:		5 mL			DB-624	
MATRIX: Water					LOQ Precision & Bias			02/17/14	
ANALYTE	CAS #	LOQ ug/L	Spike ug/L	Spike / LOQ Ratio	Lower Limit	Upper Limit	Pass Y/N	Result ug/L	%R
1,2-Dibromoethane	106-93-4	0.5	0.50	1.0	50	150	Y	0.4918	98
Chlorobenzene	108-90-7	0.5	0.50	1.0	50	150	Y	0.5298	106
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.50	1.0	50	150	Y	0.5011	100
Ethylbenzene	100-41-4	0.5	0.50	1.0	50	150	Y	0.5317	106
m&p-Xylene	179601-23-1	0.5	1.0	2.0	50	150	Y	1.0531	105
o-Xylene	95-47-6	0.5	0.50	1.0	50	150	Y	0.5382	108
Xylenes, Total	1330-20-7	0.5	1.5	3.0	50	150	Y	1.5913	106
Styrene	100-42-5	0.5	0.50	1.0	50	150	Y	0.5157	103
Bromoform	75-25-2	0.5	0.50	1.0	50	150	Y	0.4953	99
Isopropylbenzene	98-82-8	0.5	0.50	1.0	50	150	Y	0.5339	107
Bromobenzene	108-86-1	0.5	0.50	1.0	50	150	Y	0.5070	101
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.50	1.0	50	150	Y	0.5237	105
1,2,3-Trichloropropane	96-18-4	0.5	0.50	1.0	50	150	Y	0.4838	97
trans-1,4-Dichloro-2-butene	110-57-6	0.5	0.50	1.0	50	150	Y	0.5152	103
n-Propylbenzene	103-65-1	0.5	0.50	1.0	50	150	Y	0.4994	100
2-Chlorotoluene	95-49-8	0.5	0.50	1.0	50	150	Y	0.5529	111
4-Chlorotoluene	106-43-4	0.5	0.50	1.0	50	150	Y	0.5568	111
1,3,5-Trimethylbenzene	108-67-8	0.5	0.50	1.0	50	150	Y	0.5599	112
tert-Butylbenzene	98-06-6	0.5	0.50	1.0	50	150	Y	0.5375	107
Pentachloroethane	76-01-7	0.5	0.50	1.0	50	150	Y	0.5050	101
1,2,4-Trimethylbenzene	95-63-6	0.5	0.50	1.0	50	150	Y	0.5742	115
sec-Butylbenzene	135-98-8	0.5	0.50	1.0	50	150	Y	0.5644	113
1,3-Dichlorobenzene	541-73-1	0.5	0.50	1.0	50	150	Y	0.5290	106
p-Isopropyltoluene	99-87-6	0.5	0.50	1.0	50	150	Y	0.5916	118
1,4-Dichlorobenzene	106-46-7	0.5	0.50	1.0	50	150	Y	0.5737	115
1,2-Dichlorobenzene	95-50-1	0.5	0.50	1.0	50	150	Y	0.5116	102
n-Butylbenzene	104-51-8	0.5	0.50	1.0	50	150	Y	0.6165	123
Hexachloroethane	67-72-1	0.5	0.50	1.0	50	150	Y	0.5361	107
1,2-Dibromo-3-Chloropropane	96-12-8	0.5	0.50	1.0	50	150	Y	0.5277	106
Nitrobenzene	98-95-3	25	25	1.0	50	150	Y	18.9671	76
1,3,5-Trichlorobenzene	108-70-3	0.5	0.50	1.0	50	150	Y	0.5257	105
1,2,4-Trichlorobenzene	120-82-1	0.5	0.50	1.0	50	150	Y	0.4822	96
Hexachlorobutadiene	87-68-3	0.5	0.50	1.0	50	150	Y	0.5327	107
Naphthalene	91-20-3	0.5	0.50	1.0	50	150	Y	0.4338	87
1,2,3-Trichlorobenzene	87-61-6	0.5	0.50	1.0	50	150	Y	0.4852	97

Pass = %R within 50-150%.

LOQ Precision and Bias present the calculated LCL and UCL and STD DEV from the LOQ Study and is provided for DoD QSM purposes.

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

Test Method: EPA 504.1		Matrix: Water		QA Review: Sara Goff			
Prep Method: EPA 504.1		Instrument: 0911		Date Approved: 9/2/2014			
Cleanup Method(s): NA		TALS Job: 22232		TALS Entry: 9/2/2014			
ANALYTE	CAS #	DL ug/L	LOD ug/L	LOD Reference	LOQ ug/L	LOD/DL Ratio	LOQ/LOD Ratio
1,2-Dibromoethane	106-93-4	0.0016	0.0051	MDLV1	0.01	3.2	1.9
1,2-Dibromo-3-Chloropropane	96-12-8	0.0026	0.0051	MDLV1	0.01	2.0	1.9
1,2,3-Trichloropropane	96-18-4	0.0028	0.0051	MDLV1	0.02	1.8	3.9

Note: For dual column methods, the DL is set to highest calculated DL between columns.

Method Detection Limit (MDL) Study Report

Test Method:	EPA 504.1	Prep Date:	07/16/14		Student t:		3.143							
Prep Method:	EPA 504.1	Initial Amount:	35 mL											
Cleanup Method(s):	NA	Final Amount:	2 mL											
Matrix:	Water	Batch:	74992											
ANALYTE	Column Type:		RTX-CLP			Instrument ID:		0911		Mean ug/L	Average %R	STD DEV	DL ug/L	Spike/DL Ratio
	Date Analyzed:		07/17/14	07/17/14	07/17/14	07/17/14	07/17/14	07/17/14	07/17/14					
	Rep ID:		1	2	3	4	5	6	7					
	CAS #	Spike ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L					
1,2-Dibromoethane	106-93-4	0.00286	0.0040598	0.0037571	0.0033412	0.0039287	0.0039387	0.0047873	0.0033006	0.0039	135%	0.00050	0.00157	1.8
1,2-Dibromo-3-Chloropropane	96-12-8	0.00286	0.0032161	0.0031428	0.0031438	0.0034485	0.0033091	0.0035795	0.0034585	0.0033	116%	0.00017	0.00054	5.3
1,2,3-Trichloropropane	96-18-4	0.00286	0.0043607	0.0026855	0.0028147	0.0034101	0.0026831	0.0026669	0.0019857	0.0029	103%	0.00075	0.00236	1.2

Method Detection Limit (MDL) Study Report

Test Method:	EPA 504.1	Prep Date:	07/16/14		Student t:		3.143							
Prep Method:	EPA 504.1	Initial Amount:	35 mL											
Cleanup Method(s):	NA	Final Amount:	2 mL											
Matrix:	Water	Batch:	74992											
ANALYTE	Column Type:		RTX-CLPII			Instrument ID:		0911		Mean ug/L	Average %R	STD DEV	DL ug/L	Spike/DL Ratio
	Date Analyzed:		07/17/14	07/17/14	07/17/14	07/17/14	07/17/14	07/17/14	07/17/14					
	Rep ID:		1	2	3	4	5	6	7					
	CAS #	Spike ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L					
	1,2-Dibromoethane	106-93-4	0.00286	0.0061514	0.0064975	0.0064191	0.0062317	0.0060223	0.0062943					
1,2-Dibromo-3-Chloropropane	96-12-8	0.00286	0.0034312	0.0053708	0.0055618	0.0055599	0.0058708	0.0055709	0.0055233	0.0053	184%	0.00082	0.00259	1.1
1,2,3-Trichloropropane	96-18-4	0.00286	0.0038118	0.0076542	0.0045207	0.0056356	0.0049415	0.005248	0.0053061	0.0053	185%	0.00120	0.00376	0.8

Method Detection Limit (MDL) Study Report

Test Method:	EPA 504.1	Prep Date:	07/16/14		Student t:		3.143							
Prep Method:	EPA 504.1	Initial Amount:	35 mL											
Cleanup Method(s):	NA	Final Amount:	2 mL											
Matrix:	Water	Batch:	74992											
ANALYTE	Column Type:		RTX-CLP			Instrument ID:		0911		Mean ug/L	Average %R	STD DEV	DL ug/L	Spike/DL Ratio
	Date Analyzed:		07/17/14	07/17/14	07/17/14	07/17/14	07/17/14	07/17/14	07/17/14					
	Rep ID:		1	2	3	4	5	6	7					
	CAS #	Spike ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L					
1,2-Dibromoethane	106-93-4	0.00514	0.0060093	0.0056819	0.0052424	0.0062398	0.0060189	0.005576	0.0064063	0.0059	114%	0.00040	0.00127	4.0
1,2-Dibromo-3-Chloropropane	96-12-8	0.00514	0.0056948	0.0033388	0.0037096	0.0034291	0.0036203	0.0037774	0.0034414	0.0039	75%	0.00083	0.00259	2.0
1,2,3-Trichloropropane	96-18-4	0.00514	0.0048885	0.0027808	0.0028033	0.0044385	0.0025917	0.0035167	0.0036611	0.0035	69%	0.00088	0.00277	1.9

Method Detection Limit (MDL) Study Report

Test Method:			EPA 504.1			Prep Date:			07/16/14			Student t:			3.143		
Prep Method:			EPA 504.1			Initial Amount:			35 mL								
Cleanup Method(s):			NA			Final Amount:			2 mL								
Matrix:			Water			Batch:			74992								
ANALYTE	Column Type:		RTX-CLPII			Instrument ID:		0911			Mean ug/L	Average %R	STD DEV	DL ug/L	Spike/DL Ratio		
	Date Analyzed:		07/17/14	07/17/14	07/17/14	07/17/14	07/17/14	07/17/14	07/17/14								
	Rep ID:		1	2	3	4	5	6	7								
	CAS #	Spike ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L								
1,2-Dibromoethane	106-93-4	0.00514	0.0083497	0.007986	0.0080473	0.0066424	0.0071066	0.0080559	0.0083076	0.0078	151%	0.00065	0.00205	2.5			
1,2-Dibromo-3-Chloropropane	96-12-8	0.00514	0.0058799	0.0060311	0.005799	0.0057871	0.0058337	0.0058316	0.0057783	0.0058	114%	0.00009	0.00028	18.7			
1,2,3-Trichloropropane	96-18-4	0.00514	0.0051145	0.0046559	0.0054493	0.0055846	0.0057309	0.0054035	0.0053172	0.0053	104%	0.00035	0.00111	4.6			

Limit of Detection (LOD) Verification Report

Test Method: EPA 504.1			Prep Date: 07/29/14		Instrument ID:		
Prep Method: EPA 504.1			Initial Amount: 35 mL		0911		
Cleanup Method(s): NA			Final Amount: 2 mL		Column ID:		
Matrix: Water			MDLV # : MDLV1		RTX-CLP		
ANALYTE	CAS #	DL ug/L	Spike ug/L	Spike/DL Ratio	Pass Y/N	Result ug/L	Date Analyzed
1,2-Dibromoethane	106-93-4	0.0016	0.00514	3.3	Y	0.0057731	07/29/14
1,2-Dibromo-3-Chloropropane	96-12-8	0.0026	0.00514	2.0	Y	0.0055433	07/29/14
1,2,3-Trichloropropane	96-18-4	0.0028	0.00514	1.9	Y	0.0061023	07/29/14

Limit of Detection (LOD) Verification Report

Test Method: EPA 504.1			Prep Date: 07/16/14		Instrument ID:		
Prep Method: EPA 504.1			Initial Amount: 35 mL		0911		
Cleanup Method(s): NA			Final Amount: 2 mL		Column ID:		
Matrix: Water			MDLV # : MDLV1		RTX-CLPII		
ANALYTE	CAS #	DL ug/L	Spike ug/L	Spike/DL Ratio	Pass Y/N	Result ug/L	Date Analyzed
1,2-Dibromoethane	106-93-4	0.0016	0.00514	3.3	Y	0.0057817	07/29/14
1,2-Dibromo-3-Chloropropane	96-12-8	0.0026	0.00514	2.0	Y	0.0059423	07/29/14
1,2,3-Trichloropropane	96-18-4	0.0028	0.00514	1.9	Y	0.0070391	07/29/14

Limit of Quantitation (LOQ) Verification Report

Test Method:		EPA 504.1		Prep Date:		07/16/14		Instrument:		Instrument:		
Prep Method:		EPA 504.1		Initial Amount:		35 mL		0911		0911		
Cleanup Method(s):		NA		Final Amount:		2 mL		Column ID:		Column ID:		
Matrix:		Water		LOQ # :		MDLV2		RTX-CLP		RTX-CLPII		
					Evaluation Limits		Date Analyzed: 07/17/14			Date Analyzed: 07/17/14		
ANALYTE	CAS #	LOQ ug/L	Spike ug/L	Spike / LOQ Ratio	Lower Limit	Upper Limit	Pass Y/N	Result ug/L	%R	Pass Y/N	Result ug/L	%R
1,2-Dibromoethane	106-93-4	0.01	0.01	1.0	50%	150%	Y	0.010766891	108%	Y	0.012670187	127%
1,2-Dibromo-3-Chloropropane	96-12-8	0.01	0.01	1.0	50%	150%	Y	0.011101882	111%	Y	0.011426535	114%

Limit of Quantitation (LOQ) Verification Report

Test Method:		EPA 504.1		Prep Date:		07/29/14		Instrument:		Instrument:		
Prep Method:		EPA 504.1		Initial Amount:		35 mL		0911		0911		
Cleanup Method(s):		NA		Final Amount:		2 mL		Column ID:		Column ID:		
Matrix:		Water		LOQ # :		MDLV2		RTX-CLP		RTX-CLPII		
					Evaluation Limits		Date Analyzed: 07/29/14			Date Analyzed: 07/29/14		
ANALYTE	CAS #	LOQ ug/L	Spike ug/L	Spike / LOQ Ratio	Lower Limit	Upper Limit	Pass Y/N	Result ug/L	%R	Pass Y/N	Result ug/L	%R
1,2,3-Trichloropropane	96-18-4	0.02	0.02	1.0	50%	150%	Y	0.020716481	104%	Y	0.022148086	111%

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD: EPA 331.0			MATRIX: Water		QA Review: Sara Goff		
PREP METHOD: EPA 331.0			Instrument: 3062		Date Approved: 6/10/2014		
CLEANUP METHOD(s): NA			TALS Job: 21984		TALS Entry: 6/18/2014		
ANALYTE	CAS #	DL mg/L	LOD mg/L	LOD Reference	LOQ mg/L	LOD/DL Ratio	LOQ/LOD Ratio
Perchlorate	14797-73-0	0.017	0.024	LOD1	0.2	1.5	8.3

Method Detection Limit (MDL) Study Report

TEST METHOD:			EPA 331.0			Prep Date:			06/05/14			Student t:			3.143																											
PREP METHOD:			EPA 331.0			Initial Amount:			10 mL																																	
CLEANUP METHOD(s):			NA			Final Amount:			10 mL																																	
MATRIX:			Water			Batch:			73119																																	
			Column Type:		IC Pak Anion HR			Instrument ID:		3062																																
			Date Analyzed:		06/05/14	06/05/14	06/05/14	06/05/14	06/05/14	06/05/14	06/05/14																															
			Rep ID:		REP 1	REP 2	REP 3	REP 4	REP 5	REP 6	REP 7																															
			CAS #	Spike mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						mg/L																									
ANALYTE												Mean mg/L	Average %R	STD DEV	DL mg/L	Spike/DL Ratio																										
Perchlorate			14797-73-0		0.05		0.0566247			0.053139			0.053662			0.0499904			0.0637551			0.0626945			0.0605824			0.0572			114%			0.00526			0.01653			3.0		

Limit of Detection (LOD) Verification Report

TEST METHOD: EPA 331.0			Prep Date: 06/05/14		Instrument ID:		
PREP METHOD: EPA 331.0			Initial Amount: 10 mL		3062		
CLEANUP METHOD(s): NA			Final Amount: 10 mL		Column ID:		
MATRIX: Water			MDLV # : LOD1		IC Pak Anion HR		
ANALYTE	CAS #	DL mg/L	Spike mg/L	Spike/DL Ratio	Pass Y/N	Result mg/L	Date Analyzed
Perchlorate	14797-73-0	0.017	0.024	1.5	Y	0.0380179	06/05/14

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		EPA 331.0	Prep Date:		06/05/14		Instrument:		
PREP METHOD:		EPA 331.0	Initial Amount:		10 mL		3062		
CLEANUP METHOD(s):		NA	Final Amount:		10 mL		Column ID:		
MATRIX:		Water	LOQ # :		LOQ1		IC Pak Anion HR		
					Evaluation Limits		Date Analyzed:		06/05/14
ANALYTE	CAS #	LOQ mg/L	Spike mg/L	Spike / LOQ Ratio	Lower Limit	Upper Limit	Pass Y/N	Result mg/L	%R
Perchlorate	14797-73-0	0.2	0.2	1.0	50%	150%	Y	0.215098799	108%

Detection Limit (DL), Limit of Detection (LOD) and Limit of Quantitation (LOQ) Summary

TEST METHOD:	SW846 7470A & EPA 245.1		MATRIX:	Water		QA Review:	Sara Goff	
PREP METHOD:	SW846 7470A & EPA 245.1		Instrument(s):	MEPCV3II		Date Approved:	3/18/2014	
CLEANUP METHOD(s):	NA		TALS JOB:	16536 & 20498		TALS Entry Date:	3/18/2014	
ANALYTE	CAS #	DL ug/L	LOD ug/L	LOD Reference	LOQ ug/L	LOD/DL Ratio	LOQ/LOD Ratio	
Mercury	7439-97-6	0.034	0.10	MDLV	0.20	2.9	2.0	

Detection Limit (DL) Study Report

TEST METHOD:			SW846 7470A & EPA 245.1			Prep Date:			10/31/13					
PREP METHOD:			SW846 7470A & EPA 245.1			Initial Amount:			50 mL					
CLEANUP METHOD(s):			NA			Final Amount:			50 mL					
MATRIX:			Water			TALS Batch:			63588					
ANALYTE	Date Analyzed:		10/31/13	10/31/13	10/31/13	10/31/13	10/31/13	10/31/13	10/31/13	Mean ug/L	Average %R	STD DEV	DL ug/L	Spike/DL Ratio
	Instrument ID:		METCV3II	METCV3II	METCV3II	METCV3II	METCV3II	METCV3II	METCV3II					
	Column Type:		NA	NA	NA	NA	NA	NA	NA					
	CAS #	Spike ug/L	REP 1 ug/L	REP 2 ug/L	REP 3 ug/L	REP 4 ug/L	REP 5 ug/L	REP 6 ug/L	REP 7 ug/L					
Mercury	7439-97-6	0.15	0.159	0.187	0.185	0.188	0.173	0.17	0.18	0.177	118%	0.01066	0.0335	4.5

Limit of Detection (LOD) Report

TEST METHOD: SW846 7470A & EPA 245.1			Prep Date: 10/31/13			Instrument:	
PREP METHOD: SW846 7470A & EPA 245.1			Initial Amount: 50 mL			METCV3II	
CLEANUP METHOD(s): NA			Final Amount: 50 mL			TALS Batch:	
MATRIX: Water						63602	
ANALYTE	CAS #	DL ug/L	Spike ug/L	Spike/DL Ratio	Pass Y/N	Result ug/L	Date Analyzed
Mercury	7439-97-6	0.034	0.100	2.9	Y	0.073	10/31/13

Limit of Quantitation (LOQ) Verification Report

TEST METHOD: SW846 7470A & EPA 245.1			Prep Date: 01/29/14			Instrument(s):			
PREP METHOD: SW846 7470A & EPA 245.1			Initial Amount: 50 mL			METCV3II			
CLEANUP METHOD(s): NA			Final Amount: 50 mL			TALS Batch			
MATRIX: Water						LOQ Precision and Bias		67875	
ANALYTE	CAS #	LOQ ug/L	Spike ug/L	Spike / LOQ Ratio	Limits %R	RPD	Pass Y/N	Result ug/L	%R
Mercury	7429-90-5	0.200	0.200	1.0	80-120	20	Y	0.2020	101%

Pass= %R 50-150

LOQ Precision and Bias: Estimated precision and bias at limit of quantitation

Method 524.2

Volatile Organic Compounds (GC/MS)
by Method 524.2

GC/MS VOA TRIPLICATE SUMMARY

Lab Name: TestAmerica BurlingtonJob No.: 200-24551-1SDG No.: A8091390 (200-24551)Matrix: WaterLevel: LowLab File ID: lkrb09.dLab ID: 200-24551-10 TRLClient ID: PW-52 TRL

COMPOUND	SAMPLE CONC. (ug/L)	DUPLICATE CONC. (ug/L)	TRIPLICATE CONC. (ug/L)	%RSD	%RSD LIMIT	#
Dichlorodifluoromethane	2.1 U	2.1 U	2.1 U	NC		*
Chloromethane	2.1 U	2.1 U	2.1 U	NC		*
Vinyl chloride	2.1 U	2.1 U	2.1 U	NC		*
Bromomethane	2.1 U	2.1 U	2.1 U	NC		*
Chloroethane	2.1 U	2.1 U	2.1 U	NC		
Trichlorofluoromethane	2.1 U	2.1 U	2.1 U	NC		
Diethyl ether	2.1 U	2.1 U	2.1 U	NC		
1,1-Dichloroethene	2.1 U	2.1 U	2.1 U	NC		
Acetone	21 U	21 U	21 U	NC		*
Methyl iodide	2.1 U	2.1 U	2.1 U	NC		
Carbon disulfide	2.1 U	2.1 U	2.1 U	NC		
Allyl chloride	2.1 U	2.1 U	2.1 U	NC		
Methylene Chloride	2.1 U	2.1 U	2.1 U	NC		*
Acrylonitrile	2.1 U	2.1 U	2.1 U	NC		
t-Butyl alcohol	210 U	210 U	210 U	NC		
trans-1,2-Dichloroethene	2.1 U	2.1 U	2.1 U	NC		
Methyl t-butyl ether	2.1 U	2.1 U	2.1 U	NC		
1,1-Dichloroethane	2.1 U	2.1 U	2.1 U	NC		
cis-1,2-Dichloroethene	79	78.7	75.6	2		
2,2-Dichloropropane	2.1 U	2.1 U	2.1 U	NC		
2-Butanone	21 U	21 U	21 U	NC		
Propionitrile	110 U	110 U	110 U	NC		
Methyl acrylate	2.1 U	2.1 U	2.1 U	NC		
Methacrylonitrile	2.1 U	2.1 U	2.1 U	NC		
Bromochloromethane	2.1 U	2.1 U	2.1 U	NC		
Tetrahydrofuran	11 U	11 U	11 U	NC		
Chloroform	2.1 U	2.1 U	2.1 U	NC		
1,1,1-Trichloroethane	2.1 U	2.1 U	2.1 U	NC		
1-Chlorobutane	2.1 U	2.1 U	2.1 U	NC		
Carbon tetrachloride	2.1 U	2.1 U	2.1 U	NC		
1,1-Dichloropropene	2.1 U	2.1 U	2.1 U	NC		
Benzene	2.1 U	2.1 U	2.1 U	NC		
1,2-Dichloroethane	2.1 U	2.1 U	2.1 U	NC		
Trichloroethene	19	18.8	17.4	3		
1,2-Dichloropropane	2.1 U	2.1 U	2.1 U	NC		
Dibromomethane	2.1 U	2.1 U	2.1 U	NC		
Methyl methacrylate	2.1 U	2.1 U	2.1 U	NC		
Bromodichloromethane	2.1 U	2.1 U	2.1 U	NC		
2-Nitropropane	42 U	42 U	42 U	NC		
Chloroacetonitrile	110 U	110 U	110 U	NC		
cis-1,3-Dichloropropene	2.1 U	2.1 U	2.1 U	NC		
4-Methyl-2-pentanone (MIBK)	11 U	11 U	11 U	NC		
1,1-Dichloro-2-propanone	42 U	42 U	42 U	NC		

Column to be used to flag %RSD values

524.2

GC/MS VOA TRIPLICATE SUMMARY

Lab Name: TestAmerica BurlingtonJob No.: 200-24551-1SDG No.: A8091390 (200-24551)Matrix: WaterLevel: LowLab File ID: lkrb09.dLab ID: 200-24551-10 TRLClient ID: PW-52 TRL

COMPOUND	SAMPLE CONC. (ug/L)	DUPLICATE CONC. (ug/L)	TRIPLICATE CONC. (ug/L)	%RSD	%RSD LIMIT	#
Toluene	2.1 U	2.1 U	2.1 U	NC		
trans-1,3-Dichloropropene	2.1 U	2.1 U	2.1 U	NC		
Ethyl methacrylate	2.1 U	2.1 U	2.1 U	NC		
1,1,2-Trichloroethane	2.1 U	2.1 U	2.1 U	NC		
Tetrachloroethene	2.1 U	2.1 U	2.1 U	NC		
1,3-Dichloropropane	2.1 U	2.1 U	2.1 U	NC		
2-Hexanone	11 U	11 U	11 U	NC		
Dibromochloromethane	2.1 U	2.1 U	2.1 U	NC		
1,2-Dibromoethane	2.1 U	2.1 U	2.1 U	NC		
Chlorobenzene	2.1 U	2.1 U	2.1 U	NC		
1,1,1,2-Tetrachloroethane	2.1 U	2.1 U	2.1 U	NC		
Ethylbenzene	2.1 U	2.1 U	2.1 U	NC		
m&p-Xylene	2.1 U	2.1 U	2.1 U	NC		
o-Xylene	2.1 U	2.1 U	2.1 U	NC		
Styrene	2.1 U	2.1 U	2.1 U	NC		
Bromoform	2.1 U	2.1 U	2.1 U	NC		
Isopropylbenzene	2.1 U	2.1 U	2.1 U	NC		
Bromobenzene	2.1 U	2.1 U	2.1 U	NC		
1,1,2,2-Tetrachloroethane	2.1 U	2.1 U	2.1 U	NC		
1,2,3-Trichloropropane	2.1 U	2.1 U	2.1 U	NC		
trans-1,4-Dichloro-2-butene	2.1 U	2.1 U	2.1 U	NC		
n-Propylbenzene	2.1 U	2.1 U	2.1 U	NC		
2-Chlorotoluene	2.1 U	2.1 U	2.1 U	NC		
4-Chlorotoluene	2.1 U	2.1 U	2.1 U	NC		
1,3,5-Trimethylbenzene	2.1 U	2.1 U	2.1 U	NC		
tert-Butylbenzene	2.1 U	2.1 U	2.1 U	NC		
Pentachloroethane	2.1 U	2.1 U	2.1 U	NC		
1,2,4-Trimethylbenzene	2.1 U	2.1 U	2.1 U	NC		
sec-Butylbenzene	2.1 U	2.1 U	2.1 U	NC		
1,3-Dichlorobenzene	2.1 U	2.1 U	2.1 U	NC		
p-Isopropyltoluene	2.1 U	2.1 U	2.1 U	NC		
1,4-Dichlorobenzene	2.1 U	2.1 U	2.1 U	NC		
1,2-Dichlorobenzene	2.1 U	2.1 U	2.1 U	NC		
n-Butylbenzene	2.1 U	2.1 U	2.1 U	NC		
Hexachloroethane	2.1 U	2.1 U	2.1 U	NC		
1,2-Dibromo-3-Chloropropane	2.1 U	2.1 U	2.1 U	NC		
Nitrobenzene	110 U	110 U	110 U	NC		
1,3,5-Trichlorobenzene	2.1 U	2.1 U	2.1 U	NC		
1,2,4-Trichlorobenzene	2.1 U	2.1 U	2.1 U	NC		
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	NC		
Naphthalene	2.1 U	2.1 U	2.1 U	NC		
1,2,3-Trichlorobenzene	2.1 U	2.1 U	2.1 U	NC		
Unknown	3.1	None	2.63	NaN		J

Column to be used to flag %RSD values

524.2

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
 SDG No.: A8091390 (200-24551)
 Matrix: Water Level: Low Lab File ID: lkra04.d
 Lab ID: LCS 200-78664/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	1.00	1.51	151	70-130	*
Chloromethane	1.00	1.53	153	70-130	*
Vinyl chloride	1.00	1.31	131	70-130	*
Bromomethane	1.00	1.37	137	70-130	*
Chloroethane	1.00	1.08	108	70-130	
Trichlorofluoromethane	1.00	1.24	124	70-130	
Diethyl ether	1.00	1.06	106	70-130	
1,1-Dichloroethene	1.00	1.12	112	70-130	
Acetone	5.00	5.55	111	70-130	
Methyl iodide	1.00	0.928	93	70-130	
Carbon disulfide	1.00	1.17	117	70-130	
Allyl chloride	1.00	0.938	94	70-130	
Methylene Chloride	1.00	1.41	141	70-130	*
Acrylonitrile	1.00	1.04	104	70-130	
t-Butyl alcohol	100	113	113	70-130	
trans-1,2-Dichloroethene	1.00	1.13	113	70-130	
Methyl t-butyl ether	1.00	1.12	112	70-130	
1,1-Dichloroethane	1.00	1.09	109	70-130	
cis-1,2-Dichloroethene	1.00	1.11	111	70-130	
2,2-Dichloropropane	1.00	1.20	120	70-130	
2-Butanone	5.00	5.05	101	70-130	
Propionitrile	51.3	53.6	104	70-130	
Methyl acrylate	1.00	1.06	106	70-130	
Methacrylonitrile	1.00	1.12	112	70-130	
Bromochloromethane	1.00	1.17	117	70-130	
Tetrahydrofuran	5.00	5.71	114	70-130	
Chloroform	1.00	1.13	113	70-130	
1,1,1-Trichloroethane	1.00	1.09	109	70-130	
1-Chlorobutane	1.00	1.01	101	70-130	
Carbon tetrachloride	1.00	1.05	105	70-130	
1,1-Dichloropropene	1.00	1.20	120	70-130	
Benzene	1.00	1.12	112	70-130	
1,2-Dichloroethane	1.00	1.07	107	70-130	
Trichloroethene	1.00	1.13	113	70-130	
1,2-Dichloropropane	1.00	1.07	107	70-130	
Dibromomethane	1.00	1.10	110	70-130	
Methyl methacrylate	1.00	1.02	102	70-130	
Bromodichloromethane	1.00	1.08	108	70-130	
2-Nitropropane	21.1	22.4	106	70-130	
Chloroacetonitrile	51.3	51.0	99	70-130	
cis-1,3-Dichloropropene	1.00	1.06	106	70-130	
4-Methyl-2-pentanone (MIBK)	5.00	5.40	108	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
 SDG No.: A8091390 (200-24551)
 Matrix: Water Level: Low Lab File ID: lkra04.d
 Lab ID: LCS 200-78664/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloro-2-propanone	21.1	21.1	100	70-130	
Toluene	1.00	1.08	108	70-130	
trans-1,3-Dichloropropene	1.00	1.11	111	70-130	
Ethyl methacrylate	1.00	1.02	102	70-130	
1,1,2-Trichloroethane	1.00	1.08	108	70-130	
Tetrachloroethene	1.00	1.08	108	70-130	
1,3-Dichloropropane	1.00	1.07	107	70-130	
2-Hexanone	5.00	5.88	118	70-130	
Dibromochloromethane	1.00	1.07	107	70-130	
1,2-Dibromoethane	1.00	1.05	105	70-130	
Chlorobenzene	1.00	1.05	105	70-130	
1,1,1,2-Tetrachloroethane	1.00	1.05	105	70-130	
Ethylbenzene	1.00	1.08	108	70-130	
m&p-Xylene	2.00	2.11	106	70-130	
o-Xylene	1.00	1.05	105	70-130	
Styrene	1.00	1.06	106	70-130	
Bromoform	1.00	0.997	100	70-130	
Isopropylbenzene	1.00	1.05	105	70-130	
Bromobenzene	1.00	1.07	107	70-130	
1,1,2,2-Tetrachloroethane	1.00	1.04	104	70-130	
1,2,3-Trichloropropane	1.00	1.09	109	70-130	
trans-1,4-Dichloro-2-butene	1.00	0.963	96	70-130	
n-Propylbenzene	1.00	1.01	101	70-130	
2-Chlorotoluene	1.00	1.10	110	70-130	
4-Chlorotoluene	1.00	1.05	105	70-130	
1,3,5-Trimethylbenzene	1.00	1.05	105	70-130	
tert-Butylbenzene	1.00	1.00	100	70-130	
Pentachloroethane	1.00	1.01	101	70-130	
1,2,4-Trimethylbenzene	1.00	1.08	108	70-130	
sec-Butylbenzene	1.00	1.02	102	70-130	
1,3-Dichlorobenzene	1.00	1.05	105	70-130	
p-Isopropyltoluene	1.00	1.03	103	70-130	
1,4-Dichlorobenzene	1.00	0.987	99	70-130	
1,2-Dichlorobenzene	1.00	1.03	103	70-130	
n-Butylbenzene	1.00	1.02	102	70-130	
Hexachloroethane	1.00	0.958	96	70-130	
1,2-Dibromo-3-Chloropropane	1.00	1.05	105	70-130	
Nitrobenzene	51.3	42.8	83	70-130	
1,3,5-Trichlorobenzene	1.00	1.04	104	70-130	
1,2,4-Trichlorobenzene	1.00	1.07	107	70-130	
Hexachlorobutadiene	1.00	1.06	106	70-130	
Naphthalene	1.00	1.05	105	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Matrix: Water Level: Low Lab File ID: lkra04.d
Lab ID: LCS 200-78664/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,3-Trichlorobenzene	1.00	1.09	109	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Matrix: Water Level: Low Lab File ID: lkrb04.d
Lab ID: LCS 200-78697/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	1.00	1.48	148	70-130	*
Chloromethane	1.00	1.35	135	70-130	*
Vinyl chloride	1.00	1.31	131	70-130	*
Bromomethane	1.00	1.35	135	70-130	*
Chloroethane	1.00	1.11	111	70-130	
Trichlorofluoromethane	1.00	1.23	123	70-130	
Diethyl ether	1.00	1.03	103	70-130	
1,1-Dichloroethene	1.00	1.11	111	70-130	
Acetone	5.00	7.03	141	70-130	*
Methyl iodide	1.00	0.981	98	70-130	
Carbon disulfide	1.00	1.16	116	70-130	
Allyl chloride	1.00	0.915	91	70-130	
Methylene Chloride	1.00	1.38	138	70-130	*
Acrylonitrile	1.00	1.01	101	70-130	
t-Butyl alcohol	100	111	111	70-130	
trans-1,2-Dichloroethene	1.00	1.11	111	70-130	
Methyl t-butyl ether	1.00	1.10	110	70-130	
1,1-Dichloroethane	1.00	1.10	110	70-130	
cis-1,2-Dichloroethene	1.00	1.16	116	70-130	
2,2-Dichloropropane	1.00	1.18	118	70-130	
2-Butanone	5.00	5.24	105	70-130	
Propionitrile	51.3	51.2	100	70-130	
Methyl acrylate	1.00	0.850	85	70-130	
Methacrylonitrile	1.00	1.00	100	70-130	
Bromochloromethane	1.00	1.09	109	70-130	
Tetrahydrofuran	5.00	4.99	100	70-130	
Chloroform	1.00	1.14	114	70-130	
1,1,1-Trichloroethane	1.00	1.07	107	70-130	
1-Chlorobutane	1.00	1.10	110	70-130	
Carbon tetrachloride	1.00	1.05	105	70-130	
1,1-Dichloropropene	1.00	1.13	113	70-130	
Benzene	1.00	1.05	105	70-130	
1,2-Dichloroethane	1.00	1.06	106	70-130	
Trichloroethene	1.00	1.08	108	70-130	
1,2-Dichloropropane	1.00	1.05	105	70-130	
Dibromomethane	1.00	1.09	109	70-130	
Methyl methacrylate	1.00	1.05	105	70-130	
Bromodichloromethane	1.00	1.08	108	70-130	
2-Nitropropane	21.1	20.3	96	70-130	
Chloroacetonitrile	51.3	47.9	93	70-130	
cis-1,3-Dichloropropene	1.00	1.07	107	70-130	
4-Methyl-2-pentanone (MIBK)	5.00	5.34	107	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
 SDG No.: A8091390 (200-24551)
 Matrix: Water Level: Low Lab File ID: lkrb04.d
 Lab ID: LCS 200-78697/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloro-2-propanone	21.1	18.3	87	70-130	
Toluene	1.00	1.06	106	70-130	
trans-1,3-Dichloropropene	1.00	1.10	110	70-130	
Ethyl methacrylate	1.00	0.967	97	70-130	
1,1,2-Trichloroethane	1.00	1.07	107	70-130	
Tetrachloroethene	1.00	1.10	110	70-130	
1,3-Dichloropropane	1.00	1.08	108	70-130	
2-Hexanone	5.00	5.32	106	70-130	
Dibromochloromethane	1.00	1.07	107	70-130	
1,2-Dibromoethane	1.00	1.07	107	70-130	
Chlorobenzene	1.00	1.11	111	70-130	
1,1,1,2-Tetrachloroethane	1.00	1.09	109	70-130	
Ethylbenzene	1.00	1.09	109	70-130	
m&p-Xylene	2.00	2.21	110	70-130	
o-Xylene	1.00	1.08	108	70-130	
Styrene	1.00	1.09	109	70-130	
Bromoform	1.00	0.991	99	70-130	
Isopropylbenzene	1.00	1.10	110	70-130	
Bromobenzene	1.00	1.09	109	70-130	
1,1,2,2-Tetrachloroethane	1.00	1.08	108	70-130	
1,2,3-Trichloropropane	1.00	1.10	110	70-130	
trans-1,4-Dichloro-2-butene	1.00	0.984	98	70-130	
n-Propylbenzene	1.00	1.05	105	70-130	
2-Chlorotoluene	1.00	1.12	112	70-130	
4-Chlorotoluene	1.00	1.09	109	70-130	
1,3,5-Trimethylbenzene	1.00	1.08	108	70-130	
tert-Butylbenzene	1.00	1.02	102	70-130	
Pentachloroethane	1.00	1.05	105	70-130	
1,2,4-Trimethylbenzene	1.00	1.11	111	70-130	
sec-Butylbenzene	1.00	1.06	106	70-130	
1,3-Dichlorobenzene	1.00	1.07	107	70-130	
p-Isopropyltoluene	1.00	1.04	104	70-130	
1,4-Dichlorobenzene	1.00	1.09	109	70-130	
1,2-Dichlorobenzene	1.00	1.09	109	70-130	
n-Butylbenzene	1.00	1.05	105	70-130	
Hexachloroethane	1.00	0.976	98	70-130	
1,2-Dibromo-3-Chloropropane	1.00	1.09	109	70-130	
Nitrobenzene	51.3	38.9	76	70-130	
1,3,5-Trichlorobenzene	1.00	1.04	104	70-130	
1,2,4-Trichlorobenzene	1.00	1.09	109	70-130	
Hexachlorobutadiene	1.00	1.13	113	70-130	
Naphthalene	1.00	1.07	107	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Matrix: Water Level: Low Lab File ID: lkrb04.d
Lab ID: LCS 200-78697/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,3-Trichlorobenzene	1.00	1.10	110	70-130	

Column to be used to flag recovery and RPD values

FORM III 524.2

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-24551-1

SDG No.: A8091390 (200-24551)

Matrix: Water

Level: Low

Lab File ID: lkrb08.d

Lab ID: 200-24551-10 MS

Client ID: PW-52 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	8.40	2.1 U	14.7	175	70-130	F1
Chloromethane	8.40	2.1 U	13.7	163	70-130	F1
Vinyl chloride	8.40	2.1 U	13.1	156	70-130	F1
Bromomethane	8.40	2.1 U	12.4	147	70-130	F1
Chloroethane	8.40	2.1 U	9.75	116	70-130	
Trichlorofluoromethane	8.40	2.1 U	12.1	144	70-130	F1
Diethyl ether	8.40	2.1 U	9.96	119	70-130	
1,1-Dichloroethene	8.40	2.1 U	11.0	131	70-130	F1
Acetone	42.0	21 U	65.3	155	70-130	F1
Methyl iodide	8.40	2.1 U	9.43	112	70-130	
Carbon disulfide	8.40	2.1 U	10.7	127	70-130	
Allyl chloride	8.40	2.1 U	8.70	104	70-130	
Methylene Chloride	8.40	2.1 U	13.3	158	70-130	F1
Acrylonitrile	8.40	2.1 U	11.7	140	70-130	F1
t-Butyl alcohol	420	210 U	535	127	70-130	
trans-1,2-Dichloroethene	8.40	2.1 U	12.0	143	70-130	F1
Methyl t-butyl ether	8.40	2.1 U	12.6	150	70-130	F1
1,1-Dichloroethane	8.40	2.1 U	10.9	130	70-130	
cis-1,2-Dichloroethene	8.40	79	100	259	70-130	4
2,2-Dichloropropane	8.40	2.1 U	11.5	137	70-130	F1
2-Butanone	42.0	21 U	62.8	150	70-130	F1
Propionitrile	431	110 U	518	120	70-130	
Methyl acrylate	8.40	2.1 U	10.3	123	70-130	
Methacrylonitrile	8.40	2.1 U	10.5	125	70-130	
Bromochloromethane	8.40	2.1 U	11.0	131	70-130	F1
Tetrahydrofuran	42.0	11 U	52.5	125	70-130	
Chloroform	8.40	2.1 U	10.5	125	70-130	
1,1,1-Trichloroethane	8.40	2.1 U	10.6	126	70-130	
1-Chlorobutane	8.40	2.1 U	10.2	122	70-130	
Carbon tetrachloride	8.40	2.1 U	10.3	122	70-130	
1,1-Dichloropropene	8.40	2.1 U	11.2	133	70-130	F1
Benzene	8.40	2.1 U	10.5	125	70-130	
1,2-Dichloroethane	8.40	2.1 U	10.6	126	70-130	
Trichloroethene	8.40	19	31.5	151	70-130	F1
1,2-Dichloropropane	8.40	2.1 U	11.3	135	70-130	F1
Dibromomethane	8.40	2.1 U	11.0	130	70-130	
Methyl methacrylate	8.40	2.1 U	9.71	116	70-130	
Bromodichloromethane	8.40	2.1 U	10.2	122	70-130	
2-Nitropropane	177	42 U	208	118	70-130	
Chloroacetonitrile	431	110 U	518	120	70-130	
cis-1,3-Dichloropropene	8.40	2.1 U	10.2	122	70-130	
4-Methyl-2-pentanone (MIBK)	42.0	11 U	53.7	128	70-130	

Column to be used to flag recovery and RPD values

FORM III 524.2

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Matrix: Water Level: Low Lab File ID: lkrb08.d
Lab ID: 200-24551-10 MS Client ID: PW-52 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1-Dichloro-2-propanone	177	42 U	214	121	70-130	
Toluene	8.40	2.1 U	10.4	124	70-130	
trans-1,3-Dichloropropene	8.40	2.1 U	10.2	122	70-130	
Ethyl methacrylate	8.40	2.1 U	10.1	120	70-130	
1,1,2-Trichloroethane	8.40	2.1 U	11.0	132	70-130	F1
Tetrachloroethene	8.40	2.1 U	10.6	126	70-130	
1,3-Dichloropropane	8.40	2.1 U	10.0	119	70-130	
2-Hexanone	42.0	11 U	55.1	131	70-130	F1
Dibromochloromethane	8.40	2.1 U	10.4	124	70-130	
1,2-Dibromoethane	8.40	2.1 U	10.6	126	70-130	
Chlorobenzene	8.40	2.1 U	10.6	126	70-130	
1,1,1,2-Tetrachloroethane	8.40	2.1 U	10.8	128	70-130	
Ethylbenzene	8.40	2.1 U	10.4	124	70-130	
m&p-Xylene	16.8	2.1 U	21.0	125	70-130	
o-Xylene	8.40	2.1 U	10.6	126	70-130	
Styrene	8.40	2.1 U	10.3	123	70-130	
Bromoform	8.40	2.1 U	10.2	122	70-130	
Isopropylbenzene	8.40	2.1 U	10.6	126	70-130	
Bromobenzene	8.40	2.1 U	10.4	124	70-130	
1,1,2,2-Tetrachloroethane	8.40	2.1 U	10.8	128	70-130	
1,2,3-Trichloropropane	8.40	2.1 U	11.0	131	70-130	F1
trans-1,4-Dichloro-2-butene	8.40	2.1 U	9.03	107	70-130	
n-Propylbenzene	8.40	2.1 U	10.0	119	70-130	
2-Chlorotoluene	8.40	2.1 U	10.5	125	70-130	
4-Chlorotoluene	8.40	2.1 U	10.7	128	70-130	
1,3,5-Trimethylbenzene	8.40	2.1 U	10.3	123	70-130	
tert-Butylbenzene	8.40	2.1 U	10.3	123	70-130	
Pentachloroethane	8.40	2.1 U	10.2	122	70-130	
1,2,4-Trimethylbenzene	8.40	2.1 U	10.4	124	70-130	
sec-Butylbenzene	8.40	2.1 U	10.4	124	70-130	
1,3-Dichlorobenzene	8.40	2.1 U	10.4	124	70-130	
p-Isopropyltoluene	8.40	2.1 U	10.3	122	70-130	
1,4-Dichlorobenzene	8.40	2.1 U	10.3	123	70-130	
1,2-Dichlorobenzene	8.40	2.1 U	10.3	123	70-130	
n-Butylbenzene	8.40	2.1 U	10.0	119	70-130	
Hexachloroethane	8.40	2.1 U	9.77	116	70-130	
1,2-Dibromo-3-Chloropropane	8.40	2.1 U	10.3	123	70-130	
Nitrobenzene	431	110 U	420	97	70-130	
1,3,5-Trichlorobenzene	8.40	2.1 U	10.5	125	70-130	
1,2,4-Trichlorobenzene	8.40	2.1 U	10.4	124	70-130	
Hexachlorobutadiene	8.40	2.1 U	10.6	126	70-130	
Naphthalene	8.40	2.1 U	10.1	120	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Matrix: Water Level: Low Lab File ID: lkrb08.d
Lab ID: 200-24551-10 MS Client ID: PW-52 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,2,3-Trichlorobenzene	8.40	2.1 U	10.3	122	70-130	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Lab File ID: lkra05.d Lab Sample ID: MB 200-78664/5
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: L.i Date Analyzed: 10/13/2014 10:37
GC Column: DB-624 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-78664/4	lkra04.d	10/13/2014 10:05
TRIP BLANK	200-24551-1	lkra06.d	10/13/2014 11:09
PW-52	200-24551-10	lkra07.d	10/13/2014 11:42
PW-53	200-24551-11	lkra10.d	10/13/2014 13:19
DUP	200-24551-12	lkra11.d	10/13/2014 13:52

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Lab File ID: lkrb05.d Lab Sample ID: MB 200-78697/5
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: L.i Date Analyzed: 10/14/2014 10:01
GC Column: DB-624 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-78697/4	lkrb04.d	10/14/2014 09:28
PW-52 DL	200-24551-10 DL	lkrb06.d	10/14/2014 10:33
PW-52 DU	200-24551-10 DU	lkrb07.d	10/14/2014 11:06
PW-52 MS	200-24551-10 MS	lkrb08.d	10/14/2014 11:38
PW-52 TRL	200-24551-10 TRL	lkrb09.d	10/14/2014 12:11

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Lab File ID: lkr01.d BFB Injection Date: 10/10/2014
Instrument ID: L.i BFB Injection Time: 15:14
Analysis Batch No.: 78579

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.3
75	30.0 - 60.0 % of mass 95	42.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	72.9
175	5.0 - 9.0 % of mass 174	5.0 (6.9)1
176	95.0 - 101.0 % of mass 174	72.7 (99.7)1
177	5.0 - 9.0 % of mass 176	4.4 (6.1)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-78579/4	lkr04.d	10/10/2014	16:32
	ICIS 200-78579/5	lkr05.d	10/10/2014	17:05
	IC 200-78579/6	lkr06.d	10/10/2014	17:37
	IC 200-78579/7	lkr07.d	10/10/2014	18:10
	IC 200-78579/8	lkr08.d	10/10/2014	18:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Lab File ID: lkra01.d BFB Injection Date: 10/13/2014
Instrument ID: L.i BFB Injection Time: 08:47
Analysis Batch No.: 78664

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.7
75	30.0 - 60.0 % of mass 95	43.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	74.9
175	5.0 - 9.0 % of mass 174	5.2 (6.9)1
176	95.0 - 101.0 % of mass 174	72.6 (96.9)1
177	5.0 - 9.0 % of mass 176	5.0 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-78664/2	lkra02.d	10/13/2014	09:00
	ICV 200-78664/3	lkra03.d	10/13/2014	09:32
	LCS 200-78664/4	lkra04.d	10/13/2014	10:05
	MB 200-78664/5	lkra05.d	10/13/2014	10:37
TRIP BLANK	200-24551-1	lkra06.d	10/13/2014	11:09
PW-52	200-24551-10	lkra07.d	10/13/2014	11:42
PW-53	200-24551-11	lkra10.d	10/13/2014	13:19
DUP	200-24551-12	lkra11.d	10/13/2014	13:52

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Lab File ID: lkrb01.d BFB Injection Date: 10/14/2014
Instrument ID: L.i BFB Injection Time: 08:10
Analysis Batch No.: 78697

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.9
75	30.0 - 60.0 % of mass 95	44.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.4
173	Less than 2.0 % of mass 174	0.1 (0.2) 1
174	50.0 - 120.00 % of mass 95	72.8
175	5.0 - 9.0 % of mass 174	4.9 (6.8) 1
176	95.0 - 101.0 % of mass 174	71.1 (97.6) 1
177	5.0 - 9.0 % of mass 176	4.7 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-78697/3	lkrb03.d	10/14/2014	08:56
	LCS 200-78697/4	lkrb04.d	10/14/2014	09:28
	MB 200-78697/5	lkrb05.d	10/14/2014	10:01
PW-52 DL	200-24551-10 DL	lkrb06.d	10/14/2014	10:33
PW-52 DU	200-24551-10 DU	lkrb07.d	10/14/2014	11:06
PW-52 MS	200-24551-10 MS	lkrb08.d	10/14/2014	11:38
PW-52 TRL	200-24551-10 TRL	lkrb09.d	10/14/2014	12:11

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Sample No.: ICIS 200-78579/5 Date Analyzed: 10/10/2014 17:05
Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm)
Lab File ID (Standard): lkr05.d Heated Purge: (Y/N) N
Calibration ID: 28152

	12DCE		FB		TOL		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	66454	9.34	292067	9.93	223260	12.75	
UPPER LIMIT	86390	9.84	379687	10.43	290238	13.25	
LOWER LIMIT	46518	8.84	204447	9.43	156282	12.25	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-78664/3		70770	9.32	273973	9.91	240673	12.74

12DCE = 1,2-Dichloroethane-d4 (IS)

FB = Fluorobenzene

TOL = Toluene-d8 (IS)

Area Limit = 70%-130% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Sample No.: ICIS 200-78579/5 Date Analyzed: 10/10/2014 17:05
Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm)
Lab File ID (Standard): lkr05.d Heated Purge: (Y/N) N
Calibration ID: 28152

	CBZ		BFB		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	216754	15.66	151053	18.31	121807	20.00
UPPER LIMIT	281780	16.16	196369	18.81	158349	20.50
LOWER LIMIT	151728	15.16	105737	17.81	85265	19.50
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-78664/3		201342	15.66	156378	18.31	105888 20.00

CBZ = Chlorobenzene-d5

BFB = 4-Bromofluorobenzene (IS)

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 70%-130% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Sample No.: ICIS 200-78579/5 Date Analyzed: 10/10/2014 17:05
Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm)
Lab File ID (Standard): lkr05.d Heated Purge: (Y/N) N
Calibration ID: 28152

	DCZ					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	94178	20.44				
UPPER LIMIT	122431	20.94				
LOWER LIMIT	65925	19.94				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-78664/3		100261	20.44			

DCZ = 1,2-Dichlorobenzene-d4 (IS)

Area Limit = 70%-130% of internal standard area
RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Sample No.: CCVIS 200-78664/2 Date Analyzed: 10/13/2014 09:00
Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm)
Lab File ID (Standard): lkra02.d Heated Purge: (Y/N) N
Calibration ID: 28152

		12DCE		FB		TOL	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		71404	9.32	295463	9.91	218264	12.74
UPPER LIMIT		92825	9.82	384102	10.41	283743	13.24
LOWER LIMIT		49983	8.82	206824	9.41	152785	12.24
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 200-78664/4		79498	9.31	274614	9.92	231124	12.74
MB 200-78664/5		71266	9.32	278748	9.91	223710	12.74
200-24551-1	TRIP BLANK	71239	9.32	293657	9.91	232128	12.75
200-24551-10	PW-52	79947	9.33	282805	9.92	237976	12.74
200-24551-11	PW-53	69594	9.33	291730	9.92	236586	12.74
200-24551-12	DUP	73760	9.32	297840	9.90	242885	12.77

12DCE = 1,2-Dichloroethane-d4 (IS)

FB = Fluorobenzene

TOL = Toluene-d8 (IS)

Area Limit = 70%-130% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Sample No.: CCVIS 200-78664/2 Date Analyzed: 10/13/2014 09:00
Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm)
Lab File ID (Standard): lkra02.d Heated Purge: (Y/N) N
Calibration ID: 28152

		CBZ		BFB		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		242505	15.66	170060	18.31	143372	20.00
UPPER LIMIT		315257	16.16	221078	18.81	186384	20.50
LOWER LIMIT		169754	15.16	119042	17.81	100360	19.50
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 200-78664/4		210781	15.65	152354	18.32	110495	20.01
MB 200-78664/5		208377	15.66	144322	18.31	106538	20.00
200-24551-1	TRIP BLANK	216831	15.66	149580	18.31	105323	20.00
200-24551-10	PW-52	205397	15.67	155225	18.32	103209	20.01
200-24551-11	PW-53	219537	15.67	149102	18.32	110183	20.01
200-24551-12	DUP	221048	15.75	151889	18.37	111635	20.02

CBZ = Chlorobenzene-d5

BFB = 4-Bromofluorobenzene (IS)

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 70%-130% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
 SDG No.: A8091390 (200-24551)
 Sample No.: CCVIS 200-78664/2 Date Analyzed: 10/13/2014 09:00
 Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm)
 Lab File ID (Standard): lkra02.d Heated Purge: (Y/N) N
 Calibration ID: 28152

		DCZ					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		100938	20.44				
UPPER LIMIT		131219	20.94				
LOWER LIMIT		70657	19.94				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-78664/4		99587	20.43				
MB 200-78664/5		90849	20.44				
200-24551-1	TRIP BLANK	93714	20.44				
200-24551-10	PW-52	96658	20.44				
200-24551-11	PW-53	95319	20.45				
200-24551-12	DUP	93908	20.46				

DCZ = 1,2-Dichlorobenzene-d4 (IS)

Area Limit = 70%-130% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
 SDG No.: A8091390 (200-24551)
 Sample No.: CCVIS 200-78697/3 Date Analyzed: 10/14/2014 08:56
 Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm)
 Lab File ID (Standard): lkrb03.d Heated Purge: (Y/N) N
 Calibration ID: 28152

		12DCE		FB		TOL	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		63169	9.32	265771	9.92	217629	12.74
UPPER LIMIT		82120	9.82	345502	10.42	282918	13.24
LOWER LIMIT		44218	8.82	186040	9.42	152340	12.24
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 200-78697/4		73285	9.32	273281	9.93	234037	12.75
MB 200-78697/5		69739	9.32	278462	9.92	231205	12.76
200-24551-10 DL	PW-52 DL	64817	9.32	278502	9.91	218212	12.75
200-24551-10 DU	PW-52 DU	66327	9.33	276526	9.92	223347	12.74
200-24551-10 MS	PW-52 MS	70161	9.32	243963	9.91	231750	12.75
200-24551-10 TRL	PW-52 TRL	67407	9.32	289980	9.93	231974	12.75

12DCE = 1,2-Dichloroethane-d4 (IS)

FB = Fluorobenzene

TOL = Toluene-d8 (IS)

Area Limit = 70%-130% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Sample No.: CCVIS 200-78697/3 Date Analyzed: 10/14/2014 08:56
Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm)
Lab File ID (Standard): lkrb03.d Heated Purge: (Y/N) N
Calibration ID: 28152

		CBZ		BFB		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		199069	15.67	144733	18.31	106509	20.00
UPPER LIMIT		258790	16.17	188153	18.81	138462	20.50
LOWER LIMIT		139348	15.17	101313	17.81	74556	19.50
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 200-78697/4		202469	15.66	156963	18.31	105351	20.00
MB 200-78697/5		208123	15.67	149473	18.32	103249	20.01
200-24551-10 DL		PW-52 DL	208453	15.66	138406	18.31	102191
200-24551-10 DU		PW-52 DU	205434	15.67	140251	18.32	99711
200-24551-10 MS		PW-52 MS	182530	15.66	151460	18.31	96046
200-24551-10 TRL		PW-52 TRL	220056	15.66	151180	18.31	106964

CBZ = Chlorobenzene-d5

BFB = 4-Bromofluorobenzene (IS)

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 70%-130% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
 SDG No.: A8091390 (200-24551)
 Sample No.: CCVIS 200-78697/3 Date Analyzed: 10/14/2014 08:56
 Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm)
 Lab File ID (Standard): lkrb03.d Heated Purge: (Y/N) N
 Calibration ID: 28152

		DCZ					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		92711	20.44				
UPPER LIMIT		120524	20.94				
LOWER LIMIT		64898	19.94				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-78697/4		101216	20.44				
MB 200-78697/5		93838	20.44				
200-24551-10 DL	PW-52 DL	88565	20.44				
200-24551-10 DU	PW-52 DU	91202	20.44				
200-24551-10 MS	PW-52 MS	101262	20.44				
200-24551-10 TRL	PW-52 TRL	89930	20.44				

DCZ = 1,2-Dichlorobenzene-d4 (IS)

Area Limit = 70%-130% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>200-24551-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra06.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 00:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 11:09</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.50	U *	0.50	0.090
74-87-3	Chloromethane	0.50	U *	0.50	0.12
75-01-4	Vinyl chloride	0.50	U *	0.50	0.076
74-83-9	Bromomethane	0.50	U *	0.50	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.22
75-69-4	Trichlorofluoromethane	0.50	U	0.50	0.10
60-29-7	Diethyl ether	0.50	U	0.50	0.066
75-35-4	1,1-Dichloroethene	0.50	U	0.50	0.074
67-64-1	Acetone	5.0	U	5.0	0.84
74-88-4	Methyl iodide	0.50	U	0.50	0.13
75-15-0	Carbon disulfide	0.50	U	0.50	0.12
107-05-1	Allyl chloride	0.50	U	0.50	0.10
75-09-2	Methylene Chloride	0.50	U *	0.50	0.084
107-13-1	Acrylonitrile	0.50	U	0.50	0.16
75-65-0	t-Butyl alcohol	50	U	50	4.4
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	0.071
1634-04-4	Methyl t-butyl ether	0.50	U	0.50	0.080
75-34-3	1,1-Dichloroethane	0.50	U	0.50	0.094
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	0.087
594-20-7	2,2-Dichloropropane	0.50	U	0.50	0.16
78-93-3	2-Butanone	5.0	U	5.0	0.16
107-12-0	Propionitrile	25	U	25	2.9
96-33-3	Methyl acrylate	0.50	U	0.50	0.13
126-98-7	Methacrylonitrile	0.50	U	0.50	0.081
74-97-5	Bromochloromethane	0.50	U	0.50	0.076
109-99-9	Tetrahydrofuran	2.5	U	2.5	0.52
67-66-3	Chloroform	0.50	U	0.50	0.085
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	0.092
109-69-3	1-Chlorobutane	0.50	U	0.50	0.10
56-23-5	Carbon tetrachloride	0.50	U	0.50	0.12
563-58-6	1,1-Dichloropropene	0.50	U	0.50	0.12
71-43-2	Benzene	0.50	U	0.50	0.10
107-06-2	1,2-Dichloroethane	0.50	U	0.50	0.092
79-01-6	Trichloroethene	0.50	U	0.50	0.10
78-87-5	1,2-Dichloropropane	0.50	U	0.50	0.087
74-95-3	Dibromomethane	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>200-24551-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra06.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 00:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 11:09</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	0.50	U	0.50	0.25
75-27-4	Bromodichloromethane	0.50	U	0.50	0.10
79-46-9	2-Nitropropane	10	U	10	1.3
107-14-2	Chloroacetonitrile	25	U	25	4.1
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.12
108-10-1	4-Methyl-2-pentanone (MIBK)	2.5	U	2.5	0.32
513-88-2	1,1-Dichloro-2-propanone	10	U	10	1.1
108-88-3	Toluene	0.50	U	0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.082
97-63-2	Ethyl methacrylate	0.50	U	0.50	0.073
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.070
127-18-4	Tetrachloroethene	0.50	U	0.50	0.089
142-28-9	1,3-Dichloropropane	0.50	U	0.50	0.10
591-78-6	2-Hexanone	2.5	U	2.5	0.40
124-48-1	Dibromochloromethane	0.50	U	0.50	0.081
106-93-4	1,2-Dibromoethane	0.50	U	0.50	0.072
108-90-7	Chlorobenzene	0.50	U	0.50	0.093
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.10
100-41-4	Ethylbenzene	0.50	U	0.50	0.10
179601-23-1	m&p-Xylene	0.50	U	0.50	0.20
95-47-6	o-Xylene	0.50	U	0.50	0.092
100-42-5	Styrene	0.50	U	0.50	0.075
75-25-2	Bromoform	0.50	U	0.50	0.067
98-82-8	Isopropylbenzene	0.50	U	0.50	0.10
108-86-1	Bromobenzene	0.50	U	0.50	0.083
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.078
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	0.10
110-57-6	trans-1,4-Dichloro-2-butene	0.50	U	0.50	0.12
103-65-1	n-Propylbenzene	0.50	U	0.50	0.10
95-49-8	2-Chlorotoluene	0.50	U	0.50	0.10
106-43-4	4-Chlorotoluene	0.50	U	0.50	0.10
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	0.10
98-06-6	tert-Butylbenzene	0.50	U	0.50	0.089
76-01-7	Pentachloroethane	0.50	U	0.50	0.089
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	0.10
135-98-8	sec-Butylbenzene	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>200-24551-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra06.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 00:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 11:09</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	0.11
99-87-6	p-Isopropyltoluene	0.50	U	0.50	0.090
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	0.10
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	0.081
104-51-8	n-Butylbenzene	0.50	U	0.50	0.13
67-72-1	Hexachloroethane	0.50	U	0.50	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U	0.50	0.10
98-95-3	Nitrobenzene	25	U	25	3.6
108-70-3	1,3,5-Trichlorobenzene	0.50	U	0.50	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.083
87-68-3	Hexachlorobutadiene	0.50	U	0.50	0.089
91-20-3	Naphthalene	0.50	U	0.50	0.062
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>200-24551-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra06.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 00:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 11:09</u>
Soil Aliquot Vol: <u> </u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u> </u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u> </u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>
Number TICs Found: <u>1</u>	TIC Result Total: <u>13</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	7.86	13	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52</u>	Lab Sample ID: <u>200-24551-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra07.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 11:42</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.50	U *	0.50	0.090
74-87-3	Chloromethane	0.50	U *	0.50	0.12
75-01-4	Vinyl chloride	0.50	U *	0.50	0.076
74-83-9	Bromomethane	0.50	U *	0.50	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.22
75-69-4	Trichlorofluoromethane	0.50	U	0.50	0.10
60-29-7	Diethyl ether	0.50	U	0.50	0.066
75-35-4	1,1-Dichloroethene	0.50	U	0.50	0.074
67-64-1	Acetone	5.0	U	5.0	0.84
74-88-4	Methyl iodide	0.50	U	0.50	0.13
75-15-0	Carbon disulfide	0.50	U	0.50	0.12
107-05-1	Allyl chloride	0.50	U	0.50	0.10
75-09-2	Methylene Chloride	0.50	U *	0.50	0.084
107-13-1	Acrylonitrile	0.50	U	0.50	0.16
75-65-0	t-Butyl alcohol	50	U	50	4.4
156-60-5	trans-1,2-Dichloroethene	1.1		0.50	0.071
1634-04-4	Methyl t-butyl ether	1.4		0.50	0.080
75-34-3	1,1-Dichloroethane	0.50	U	0.50	0.094
156-59-2	cis-1,2-Dichloroethene	84	E	0.50	0.087
594-20-7	2,2-Dichloropropane	0.50	U	0.50	0.16
78-93-3	2-Butanone	5.0	U	5.0	0.16
107-12-0	Propionitrile	25	U	25	2.9
96-33-3	Methyl acrylate	0.50	U	0.50	0.13
126-98-7	Methacrylonitrile	0.50	U	0.50	0.081
74-97-5	Bromochloromethane	0.50	U	0.50	0.076
109-99-9	Tetrahydrofuran	2.5	U	2.5	0.52
67-66-3	Chloroform	0.50	U	0.50	0.085
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	0.092
109-69-3	1-Chlorobutane	0.50	U	0.50	0.10
56-23-5	Carbon tetrachloride	0.50	U	0.50	0.12
563-58-6	1,1-Dichloropropene	0.50	U	0.50	0.12
71-43-2	Benzene	0.50	U	0.50	0.10
107-06-2	1,2-Dichloroethane	0.50	U	0.50	0.092
79-01-6	Trichloroethene	20		0.50	0.10
78-87-5	1,2-Dichloropropane	0.74		0.50	0.087
74-95-3	Dibromomethane	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52</u>	Lab Sample ID: <u>200-24551-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra07.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 11:42</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	0.50	U	0.50	0.25
75-27-4	Bromodichloromethane	0.50	U	0.50	0.10
79-46-9	2-Nitropropane	10	U	10	1.3
107-14-2	Chloroacetonitrile	25	U	25	4.1
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.12
108-10-1	4-Methyl-2-pentanone (MIBK)	2.5	U	2.5	0.32
513-88-2	1,1-Dichloro-2-propanone	10	U	10	1.1
108-88-3	Toluene	0.50	U	0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.082
97-63-2	Ethyl methacrylate	0.50	U	0.50	0.073
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.070
127-18-4	Tetrachloroethene	0.50	U	0.50	0.089
142-28-9	1,3-Dichloropropane	0.50	U	0.50	0.10
591-78-6	2-Hexanone	2.5	U	2.5	0.40
124-48-1	Dibromochloromethane	0.50	U	0.50	0.081
106-93-4	1,2-Dibromoethane	0.50	U	0.50	0.072
108-90-7	Chlorobenzene	0.50	U	0.50	0.093
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.10
100-41-4	Ethylbenzene	0.50	U	0.50	0.10
179601-23-1	m&p-Xylene	0.50	U	0.50	0.20
95-47-6	o-Xylene	0.50	U	0.50	0.092
100-42-5	Styrene	0.50	U	0.50	0.075
75-25-2	Bromoform	0.50	U	0.50	0.067
98-82-8	Isopropylbenzene	0.50	U	0.50	0.10
108-86-1	Bromobenzene	0.50	U	0.50	0.083
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.078
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	0.10
110-57-6	trans-1,4-Dichloro-2-butene	0.50	U	0.50	0.12
103-65-1	n-Propylbenzene	0.50	U	0.50	0.10
95-49-8	2-Chlorotoluene	0.50	U	0.50	0.10
106-43-4	4-Chlorotoluene	0.50	U	0.50	0.10
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	0.10
98-06-6	tert-Butylbenzene	0.50	U	0.50	0.089
76-01-7	Pentachloroethane	0.50	U	0.50	0.089
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	0.10
135-98-8	sec-Butylbenzene	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52</u>	Lab Sample ID: <u>200-24551-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra07.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 11:42</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	0.11
99-87-6	p-Isopropyltoluene	0.50	U	0.50	0.090
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	0.10
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	0.081
104-51-8	n-Butylbenzene	0.50	U	0.50	0.13
67-72-1	Hexachloroethane	0.50	U	0.50	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U	0.50	0.10
98-95-3	Nitrobenzene	25	U	25	3.6
108-70-3	1,3,5-Trichlorobenzene	0.50	U	0.50	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.083
87-68-3	Hexachlorobutadiene	0.50	U	0.50	0.089
91-20-3	Naphthalene	0.50	U	0.50	0.062
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52</u>	Lab Sample ID: <u>200-24551-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra07.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 11:42</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>
Number TICs Found: <u>3</u>	TIC Result Total: <u>3.21</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	2.65	1.9	J
	Unknown	4.06	0.78	J
156-59-2	Ethene, 1,2-dichloro-, (Z)-	4.97	0.53	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 DL</u>	Lab Sample ID: <u>200-24551-10 DL</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb06.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 10:33</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	2.1	U *	2.1	0.38
74-87-3	Chloromethane	2.1	U *	2.1	0.50
75-01-4	Vinyl chloride	2.1	U *	2.1	0.32
74-83-9	Bromomethane	2.1	U *	2.1	0.84
75-00-3	Chloroethane	2.1	U	2.1	0.92
75-69-4	Trichlorofluoromethane	2.1	U	2.1	0.42
60-29-7	Diethyl ether	2.1	U	2.1	0.28
75-35-4	1,1-Dichloroethene	2.1	U	2.1	0.31
67-64-1	Acetone	21	U *	21	3.5
74-88-4	Methyl iodide	2.1	U	2.1	0.55
75-15-0	Carbon disulfide	2.1	U	2.1	0.50
107-05-1	Allyl chloride	2.1	U	2.1	0.42
75-09-2	Methylene Chloride	2.1	U *	2.1	0.35
107-13-1	Acrylonitrile	2.1	U	2.1	0.67
75-65-0	t-Butyl alcohol	210	U	210	18
156-60-5	trans-1,2-Dichloroethene	2.1	U	2.1	0.30
1634-04-4	Methyl t-butyl ether	2.1	U	2.1	0.34
75-34-3	1,1-Dichloroethane	2.1	U	2.1	0.39
156-59-2	cis-1,2-Dichloroethene	79	D	2.1	0.37
594-20-7	2,2-Dichloropropane	2.1	U	2.1	0.67
78-93-3	2-Butanone	21	U	21	0.67
107-12-0	Propionitrile	110	U	110	12
96-33-3	Methyl acrylate	2.1	U	2.1	0.55
126-98-7	Methacrylonitrile	2.1	U	2.1	0.34
74-97-5	Bromochloromethane	2.1	U	2.1	0.32
109-99-9	Tetrahydrofuran	11	U	11	2.2
67-66-3	Chloroform	2.1	U	2.1	0.36
71-55-6	1,1,1-Trichloroethane	2.1	U	2.1	0.39
109-69-3	1-Chlorobutane	2.1	U	2.1	0.42
56-23-5	Carbon tetrachloride	2.1	U	2.1	0.50
563-58-6	1,1-Dichloropropene	2.1	U	2.1	0.50
71-43-2	Benzene	2.1	U	2.1	0.42
107-06-2	1,2-Dichloroethane	2.1	U	2.1	0.39
79-01-6	Trichloroethene	19	D	2.1	0.42
78-87-5	1,2-Dichloropropane	2.1	U	2.1	0.37
74-95-3	Dibromomethane	2.1	U	2.1	0.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 DL</u>	Lab Sample ID: <u>200-24551-10 DL</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb06.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 10:33</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	2.1	U	2.1	1.1
75-27-4	Bromodichloromethane	2.1	U	2.1	0.42
79-46-9	2-Nitropropane	42	U	42	5.5
107-14-2	Chloroacetonitrile	110	U	110	17
10061-01-5	cis-1,3-Dichloropropene	2.1	U	2.1	0.50
108-10-1	4-Methyl-2-pentanone (MIBK)	11	U	11	1.3
513-88-2	1,1-Dichloro-2-propanone	42	U	42	4.6
108-88-3	Toluene	2.1	U	2.1	0.42
10061-02-6	trans-1,3-Dichloropropene	2.1	U	2.1	0.34
97-63-2	Ethyl methacrylate	2.1	U	2.1	0.31
79-00-5	1,1,2-Trichloroethane	2.1	U	2.1	0.29
127-18-4	Tetrachloroethene	2.1	U	2.1	0.37
142-28-9	1,3-Dichloropropene	2.1	U	2.1	0.42
591-78-6	2-Hexanone	11	U	11	1.7
124-48-1	Dibromochloromethane	2.1	U	2.1	0.34
106-93-4	1,2-Dibromoethane	2.1	U	2.1	0.30
108-90-7	Chlorobenzene	2.1	U	2.1	0.39
630-20-6	1,1,1,2-Tetrachloroethane	2.1	U	2.1	0.42
100-41-4	Ethylbenzene	2.1	U	2.1	0.42
179601-23-1	m&p-Xylene	2.1	U	2.1	0.84
95-47-6	o-Xylene	2.1	U	2.1	0.39
100-42-5	Styrene	2.1	U	2.1	0.32
75-25-2	Bromoform	2.1	U	2.1	0.28
98-82-8	Isopropylbenzene	2.1	U	2.1	0.42
108-86-1	Bromobenzene	2.1	U	2.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	2.1	U	2.1	0.33
96-18-4	1,2,3-Trichloropropene	2.1	U	2.1	0.42
110-57-6	trans-1,4-Dichloro-2-butene	2.1	U	2.1	0.50
103-65-1	n-Propylbenzene	2.1	U	2.1	0.42
95-49-8	2-Chlorotoluene	2.1	U	2.1	0.42
106-43-4	4-Chlorotoluene	2.1	U	2.1	0.42
108-67-8	1,3,5-Trimethylbenzene	2.1	U	2.1	0.42
98-06-6	tert-Butylbenzene	2.1	U	2.1	0.37
76-01-7	Pentachloroethane	2.1	U	2.1	0.37
95-63-6	1,2,4-Trimethylbenzene	2.1	U	2.1	0.42
135-98-8	sec-Butylbenzene	2.1	U	2.1	0.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 DL</u>	Lab Sample ID: <u>200-24551-10 DL</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb06.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 10:33</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	2.1	U	2.1	0.46
99-87-6	p-Isopropyltoluene	2.1	U	2.1	0.38
106-46-7	1,4-Dichlorobenzene	2.1	U	2.1	0.42
95-50-1	1,2-Dichlorobenzene	2.1	U	2.1	0.34
104-51-8	n-Butylbenzene	2.1	U	2.1	0.55
67-72-1	Hexachloroethane	2.1	U	2.1	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	2.1	U	2.1	0.42
98-95-3	Nitrobenzene	110	U	110	15
108-70-3	1,3,5-Trichlorobenzene	2.1	U	2.1	0.42
120-82-1	1,2,4-Trichlorobenzene	2.1	U	2.1	0.35
87-68-3	Hexachlorobutadiene	2.1	U	2.1	0.37
91-20-3	Naphthalene	2.1	U	2.1	0.26
87-61-6	1,2,3-Trichlorobenzene	2.1	U	2.1	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 DL</u>	Lab Sample ID: <u>200-24551-10 DL</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb06.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 10:33</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>
Number TICs Found: <u>1</u>	TIC Result Total: <u>3.1</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	5.31	3.1	D J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-53</u>	Lab Sample ID: <u>200-24551-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra10.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 12:01</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 13:19</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.50	U *	0.50	0.090
74-87-3	Chloromethane	0.50	U *	0.50	0.12
75-01-4	Vinyl chloride	0.50	U *	0.50	0.076
74-83-9	Bromomethane	0.50	U *	0.50	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.22
75-69-4	Trichlorofluoromethane	0.50	U	0.50	0.10
60-29-7	Diethyl ether	0.50	U	0.50	0.066
75-35-4	1,1-Dichloroethene	0.50	U	0.50	0.074
67-64-1	Acetone	5.0	U	5.0	0.84
74-88-4	Methyl iodide	0.50	U	0.50	0.13
75-15-0	Carbon disulfide	0.50	U	0.50	0.12
107-05-1	Allyl chloride	0.50	U	0.50	0.10
75-09-2	Methylene Chloride	0.50	U *	0.50	0.084
107-13-1	Acrylonitrile	0.50	U	0.50	0.16
75-65-0	t-Butyl alcohol	50	U	50	4.4
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	0.071
1634-04-4	Methyl t-butyl ether	0.50	U	0.50	0.080
75-34-3	1,1-Dichloroethane	0.50	U	0.50	0.094
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	0.087
594-20-7	2,2-Dichloropropane	0.50	U	0.50	0.16
78-93-3	2-Butanone	5.0	U	5.0	0.16
107-12-0	Propionitrile	25	U	25	2.9
96-33-3	Methyl acrylate	0.50	U	0.50	0.13
126-98-7	Methacrylonitrile	0.50	U	0.50	0.081
74-97-5	Bromochloromethane	0.50	U	0.50	0.076
109-99-9	Tetrahydrofuran	2.5	U	2.5	0.52
67-66-3	Chloroform	0.50	U	0.50	0.085
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	0.092
109-69-3	1-Chlorobutane	0.50	U	0.50	0.10
56-23-5	Carbon tetrachloride	0.50	U	0.50	0.12
563-58-6	1,1-Dichloropropene	0.50	U	0.50	0.12
71-43-2	Benzene	0.50	U	0.50	0.10
107-06-2	1,2-Dichloroethane	0.50	U	0.50	0.092
79-01-6	Trichloroethene	0.50	U	0.50	0.10
78-87-5	1,2-Dichloropropane	0.50	U	0.50	0.087
74-95-3	Dibromomethane	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-53</u>	Lab Sample ID: <u>200-24551-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra10.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 12:01</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 13:19</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	0.50	U	0.50	0.25
75-27-4	Bromodichloromethane	0.50	U	0.50	0.10
79-46-9	2-Nitropropane	10	U	10	1.3
107-14-2	Chloroacetonitrile	25	U	25	4.1
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.12
108-10-1	4-Methyl-2-pentanone (MIBK)	2.5	U	2.5	0.32
513-88-2	1,1-Dichloro-2-propanone	10	U	10	1.1
108-88-3	Toluene	0.50	U	0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.082
97-63-2	Ethyl methacrylate	0.50	U	0.50	0.073
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.070
127-18-4	Tetrachloroethene	0.50	U	0.50	0.089
142-28-9	1,3-Dichloropropane	0.50	U	0.50	0.10
591-78-6	2-Hexanone	2.5	U	2.5	0.40
124-48-1	Dibromochloromethane	0.50	U	0.50	0.081
106-93-4	1,2-Dibromoethane	0.50	U	0.50	0.072
108-90-7	Chlorobenzene	0.50	U	0.50	0.093
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.10
100-41-4	Ethylbenzene	0.50	U	0.50	0.10
179601-23-1	m&p-Xylene	0.50	U	0.50	0.20
95-47-6	o-Xylene	0.50	U	0.50	0.092
100-42-5	Styrene	0.50	U	0.50	0.075
75-25-2	Bromoform	0.50	U	0.50	0.067
98-82-8	Isopropylbenzene	0.50	U	0.50	0.10
108-86-1	Bromobenzene	0.50	U	0.50	0.083
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.078
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	0.10
110-57-6	trans-1,4-Dichloro-2-butene	0.50	U	0.50	0.12
103-65-1	n-Propylbenzene	0.50	U	0.50	0.10
95-49-8	2-Chlorotoluene	0.50	U	0.50	0.10
106-43-4	4-Chlorotoluene	0.50	U	0.50	0.10
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	0.10
98-06-6	tert-Butylbenzene	0.50	U	0.50	0.089
76-01-7	Pentachloroethane	0.50	U	0.50	0.089
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	0.10
135-98-8	sec-Butylbenzene	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-53</u>	Lab Sample ID: <u>200-24551-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra10.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 12:01</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 13:19</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	0.11
99-87-6	p-Isopropyltoluene	0.50	U	0.50	0.090
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	0.10
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	0.081
104-51-8	n-Butylbenzene	0.50	U	0.50	0.13
67-72-1	Hexachloroethane	0.50	U	0.50	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U	0.50	0.10
98-95-3	Nitrobenzene	25	U	25	3.6
108-70-3	1,3,5-Trichlorobenzene	0.50	U	0.50	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.083
87-68-3	Hexachlorobutadiene	0.50	U	0.50	0.089
91-20-3	Naphthalene	0.50	U	0.50	0.062
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-53</u>	Lab Sample ID: <u>200-24551-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra10.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 12:01</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 13:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>
Number TICs Found: <u>1</u>	TIC Result Total: <u>3.7</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	7.87	3.7	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>DUP</u>	Lab Sample ID: <u>200-24551-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra11.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 12:01</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 13:52</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.50	U *	0.50	0.090
74-87-3	Chloromethane	0.50	U *	0.50	0.12
75-01-4	Vinyl chloride	0.50	U *	0.50	0.076
74-83-9	Bromomethane	0.50	U *	0.50	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.22
75-69-4	Trichlorofluoromethane	0.50	U	0.50	0.10
60-29-7	Diethyl ether	0.50	U	0.50	0.066
75-35-4	1,1-Dichloroethene	0.50	U	0.50	0.074
67-64-1	Acetone	5.0	U	5.0	0.84
74-88-4	Methyl iodide	0.50	U	0.50	0.13
75-15-0	Carbon disulfide	0.50	U	0.50	0.12
107-05-1	Allyl chloride	0.50	U	0.50	0.10
75-09-2	Methylene Chloride	0.50	U *	0.50	0.084
107-13-1	Acrylonitrile	0.50	U	0.50	0.16
75-65-0	t-Butyl alcohol	50	U	50	4.4
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	0.071
1634-04-4	Methyl t-butyl ether	0.50	U	0.50	0.080
75-34-3	1,1-Dichloroethane	0.50	U	0.50	0.094
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	0.087
594-20-7	2,2-Dichloropropane	0.50	U	0.50	0.16
78-93-3	2-Butanone	5.0	U	5.0	0.16
107-12-0	Propionitrile	25	U	25	2.9
96-33-3	Methyl acrylate	0.50	U	0.50	0.13
126-98-7	Methacrylonitrile	0.50	U	0.50	0.081
74-97-5	Bromochloromethane	0.50	U	0.50	0.076
109-99-9	Tetrahydrofuran	2.5	U	2.5	0.52
67-66-3	Chloroform	0.50	U	0.50	0.085
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	0.092
109-69-3	1-Chlorobutane	0.50	U	0.50	0.10
56-23-5	Carbon tetrachloride	0.50	U	0.50	0.12
563-58-6	1,1-Dichloropropene	0.50	U	0.50	0.12
71-43-2	Benzene	0.50	U	0.50	0.10
107-06-2	1,2-Dichloroethane	0.50	U	0.50	0.092
79-01-6	Trichloroethene	0.50	U	0.50	0.10
78-87-5	1,2-Dichloropropane	0.50	U	0.50	0.087
74-95-3	Dibromomethane	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>DUP</u>	Lab Sample ID: <u>200-24551-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra11.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 12:01</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 13:52</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	0.50	U	0.50	0.25
75-27-4	Bromodichloromethane	0.50	U	0.50	0.10
79-46-9	2-Nitropropane	10	U	10	1.3
107-14-2	Chloroacetonitrile	25	U	25	4.1
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.12
108-10-1	4-Methyl-2-pentanone (MIBK)	2.5	U	2.5	0.32
513-88-2	1,1-Dichloro-2-propanone	10	U	10	1.1
108-88-3	Toluene	0.50	U	0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.082
97-63-2	Ethyl methacrylate	0.50	U	0.50	0.073
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.070
127-18-4	Tetrachloroethene	0.50	U	0.50	0.089
142-28-9	1,3-Dichloropropane	0.50	U	0.50	0.10
591-78-6	2-Hexanone	2.5	U	2.5	0.40
124-48-1	Dibromochloromethane	0.50	U	0.50	0.081
106-93-4	1,2-Dibromoethane	0.50	U	0.50	0.072
108-90-7	Chlorobenzene	0.50	U	0.50	0.093
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.10
100-41-4	Ethylbenzene	0.50	U	0.50	0.10
179601-23-1	m&p-Xylene	0.50	U	0.50	0.20
95-47-6	o-Xylene	0.50	U	0.50	0.092
100-42-5	Styrene	0.50	U	0.50	0.075
75-25-2	Bromoform	0.50	U	0.50	0.067
98-82-8	Isopropylbenzene	0.50	U	0.50	0.10
108-86-1	Bromobenzene	0.50	U	0.50	0.083
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.078
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	0.10
110-57-6	trans-1,4-Dichloro-2-butene	0.50	U	0.50	0.12
103-65-1	n-Propylbenzene	0.50	U	0.50	0.10
95-49-8	2-Chlorotoluene	0.50	U	0.50	0.10
106-43-4	4-Chlorotoluene	0.50	U	0.50	0.10
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	0.10
98-06-6	tert-Butylbenzene	0.50	U	0.50	0.089
76-01-7	Pentachloroethane	0.50	U	0.50	0.089
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	0.10
135-98-8	sec-Butylbenzene	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>DUP</u>	Lab Sample ID: <u>200-24551-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra11.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 12:01</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 13:52</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	0.11
99-87-6	p-Isopropyltoluene	0.50	U	0.50	0.090
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	0.10
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	0.081
104-51-8	n-Butylbenzene	0.50	U	0.50	0.13
67-72-1	Hexachloroethane	0.50	U	0.50	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U	0.50	0.10
98-95-3	Nitrobenzene	25	U	25	3.6
108-70-3	1,3,5-Trichlorobenzene	0.50	U	0.50	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.083
87-68-3	Hexachlorobutadiene	0.50	U	0.50	0.089
91-20-3	Naphthalene	0.50	U	0.50	0.062
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>DUP</u>	Lab Sample ID: <u>200-24551-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra11.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 12:01</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 13:52</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>
Number TICs Found: <u>3</u>	TIC Result Total: <u>10.54</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q
420-56-4	Silane, fluorotrimethyl-	3.29	0.52	J N
	Unknown	6.26	0.62	J
	Unknown	7.86	9.4	J

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-24551-1 Analy Batch No.: 78579

SDG No.: A8091390 (200-24551)

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 16:32 Calibration End Date: 10/10/2014 18:43 Calibration ID: 28152

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-78579/4	lkr04.d
Level 2	ICIS 200-78579/5	lkr05.d
Level 3	IC 200-78579/6	lkr06.d
Level 4	IC 200-78579/7	lkr07.d
Level 5	IC 200-78579/8	lkr08.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3631	0.3878	0.3796	0.3751	0.3795	Ave		0.3770				2.4		20.0			
Chloromethane	0.2211	0.2259	0.2251	0.2122	0.2322	Ave		0.2233				3.3		20.0			
Vinyl chloride	0.2614	0.2798	0.2683	0.2633	0.2746	Ave		0.2695				2.9		20.0			
Bromomethane	0.0917	0.1027	0.1062	0.1095	0.1146	Ave		0.1050				8.2		20.0			
Chloroethane	0.1886	0.1728	0.1726	0.1633	0.1702	Ave		0.1735				5.3		20.0			
Trichlorofluoromethane	0.4744	0.5033	0.5014	0.4878	0.4965	Ave		0.4927				2.4		20.0			
Diethyl ether	0.1586	0.1748	0.1692	0.1640	0.1718	Ave		0.1677				3.8		20.0			
1,1-Dichloroethene	0.2482	0.2653	0.2635	0.2556	0.2654	Ave		0.2596				2.9		20.0			
Acetone	0.0540	0.0442	0.0450	0.0440	0.0477	Ave		0.0470				9.0		20.0			
Methyl iodide	0.1037	0.1198	0.1559	0.2027	0.2390	Ave		0.1642				34.4	*	20.0			
Carbon disulfide	0.6774	0.6508	0.6374	0.6224	0.6397	Ave		0.6455				3.2		20.0			
Allyl chloride	0.5193	0.5524	0.5602	0.5444	0.5621	Ave		0.5477				3.2		20.0			
Methylene Chloride	0.2937	0.2725	0.2591	0.2509	0.2588	Ave		0.2670				6.3		20.0			
t-Butyl alcohol	0.0152	0.0161	0.0159	0.0155	0.0162	Ave		0.0158				2.7		20.0			
Acrylonitrile	0.0573	0.0594	0.0616	0.0586	0.0618	Ave		0.0597				3.3		20.0			
trans-1,2-Dichloroethene	0.2639	0.2796	0.2859	0.2790	0.2916	Ave		0.2800				3.7		20.0			
Methyl t-butyl ether	0.5518	0.5581	0.5571	0.5477	0.5644	Ave		0.5558				1.1		20.0			
1,1-Dichloroethane	0.5694	0.6016	0.5920	0.5673	0.5876	Ave		0.5836				2.5		20.0			
2,2-Dichloropropane	0.4698	0.4504	0.4229	0.4063	0.4128	Ave		0.4324				6.2		20.0			
cis-1,2-Dichloroethene	0.2741	0.2981	0.2965	0.2913	0.3031	Ave		0.2926				3.8		20.0			
2-Butanone	0.0164	0.0189	0.0194	0.0198	0.0209	Ave		0.0191				8.7		20.0			
Propionitrile	0.0177	0.0207	0.0228	0.0227	0.0238	Ave		0.0215				11.3		20.0			
Methyl acrylate	0.2317	0.2341	0.2790	0.2760	0.2804	Ave		0.2602				9.6		20.0			
Methacrylonitrile	0.0677	0.0713	0.0733	0.0678	0.0748	Ave		0.0710				4.5		20.0			
Bromochloromethane	0.1720	0.1694	0.1723	0.1742	0.1807	Ave		0.1737				2.5		20.0			
Tetrahydrofuran	0.0794	0.0732	0.0759	0.0735	0.0811	Ave		0.0766				4.6		20.0			
Chloroform	0.5872	0.5680	0.5591	0.5432	0.5703	Ave		0.5655				2.8		20.0			
1,1,1-Trichloroethane	0.4354	0.4716	0.4810	0.4615	0.4781	Ave		0.4655				4.0		20.0			
1-Chlorobutane	0.5721	0.6204	0.6220	0.6039	0.6284	Ave		0.6093				3.7		20.0			
1,1-Dichloropropene	0.4303	0.4149	0.4443	0.4317	0.4474	Ave		0.4337				3.0		20.0			
Carbon tetrachloride	0.3986	0.4271	0.4492	0.4392	0.4526	Ave		0.4333				5.0		20.0			
Benzene	0.8094	0.8125	0.8468	0.8273	0.8544	Ave		0.8301				2.4		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-24551-1 Analy Batch No.: 78579

SDG No.: A8091390 (200-24551)

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 16:32 Calibration End Date: 10/10/2014 18:43 Calibration ID: 28152

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethane	0.2595	0.2864	0.2971	0.2850	0.2948	Ave		0.2846				5.3		20.0			
Trichloroethene	0.3474	0.3541	0.3554	0.3531	0.3640	Ave		0.3548				1.7		20.0			
1,2-Dichloropropane	0.3524	0.3708	0.3685	0.3615	0.3718	Ave		0.3650				2.2		20.0			
Dibromomethane	0.2660	0.2788	0.2757	0.2746	0.2853	Ave		0.2761				2.5		20.0			
Methyl methacrylate	0.2020	0.1816	0.1927	0.1897	0.2002	Ave		0.1932				4.3		20.0			
Bromodichloromethane	0.5195	0.5763	0.5915	0.5751	0.5972	Ave		0.5719				5.4		20.0			
2-Nitropropane	0.0546	0.0580	0.0601	0.0583	0.0596	Ave		0.0581				3.7		20.0			
Chloroacetonitrile	0.0074	0.0095	0.0108	0.0111	0.0118	Ave		0.0101				17.1		20.0			
cis-1,3-Dichloropropene	0.5002	0.4812	0.5235	0.5104	0.5108	Ave		0.5052				3.1		20.0			
4-Methyl-2-pentanone (MIBK)	0.1001	0.1054	0.1076	0.1059	0.1099	Ave		0.1058				3.4		20.0			
1,1-Dichloro-2-propanone	0.0058	0.0069	0.0068	0.0065	0.0069	Ave		0.0066				7.0		20.0			
Toluene	0.5163	0.5425	0.5492	0.5324	0.5506	Ave		0.5382				2.6		20.0			
trans-1,3-Dichloropropene	0.3536	0.3713	0.3918	0.3891	0.4056	Ave		0.3823				5.3		20.0			
Ethyl methacrylate	0.3878	0.3822	0.3911	0.3859	0.4031	Ave		0.3900				2.0		20.0			
1,1,2-Trichloroethane	0.2512	0.2467	0.2595	0.2497	0.2595	Ave		0.2533				2.3		20.0			
Tetrachloroethene	0.4567	0.4516	0.4588	0.4452	0.4562	Ave		0.4537				1.2		20.0			
1,3-Dichloropropane	0.4649	0.4886	0.4873	0.4799	0.4947	Ave		0.4831				2.4		20.0			
2-Hexanone	0.1738	0.1970	0.2086	0.2059	0.2152	Ave		0.2001				8.0		20.0			
Dibromochloromethane	0.5697	0.6381	0.6602	0.6373	0.6789	Ave		0.6369				6.5		20.0			
1,2-Dibromoethane	0.4888	0.5599	0.5777	0.5513	0.5904	Ave		0.5536				7.1		20.0			
Chlorobenzene	0.7975	0.8812	0.9107	0.8728	0.9316	Ave		0.8788				5.8		20.0			
1,1,1,2-Tetrachloroethane	0.4126	0.4604	0.4691	0.4517	0.4806	Ave		0.4549				5.7		20.0			
Ethylbenzene	1.3603	1.4483	1.4842	1.4200	1.5101	Ave		1.4446				4.0		20.0			
m&p-Xylene	0.4559	0.5097	0.5240	0.5038	0.5403	Ave		0.5067				6.3		20.0			
o-Xylene	0.4331	0.5033	0.5114	0.4837	0.5134	Ave		0.4890				6.8		20.0			
Styrene	0.7514	0.8233	0.8614	0.8411	0.8947	Ave		0.8344				6.4		20.0			
Bromoform	0.4102	0.4784	0.5191	0.5052	0.5403	Ave		0.4907				10.2		20.0			
Isopropylbenzene	1.3066	1.3973	1.4569	1.3978	1.4863	Ave		1.4090				4.9		20.0			
Bromobenzene	0.4225	0.4639	0.4801	0.4653	0.4925	Ave		0.4649				5.7		20.0			
1,1,2,2-Tetrachloroethane	0.6006	0.6734	0.6743	0.6422	0.6892	Ave		0.6559				5.4		20.0			
1,2,3-Trichloropropane	0.1191	0.1494	0.1520	0.1454	0.1514	Ave		0.1435				9.7		20.0			
trans-1,4-Dichloro-2-butene	0.1147	0.1270	0.1254	0.1152	0.1243	Ave		0.1213				4.8		20.0			
n-Propylbenzene	0.2690	0.3245	0.3518	0.3389	0.3598	Ave		0.3288				11.0		20.0			
2-Chlorotoluene	0.3462	0.3377	0.3425	0.3235	0.3439	Ave		0.3388				2.7		20.0			
1,3,5-Trimethylbenzene	0.8716	0.9593	0.9914	0.9626	1.0323	Ave		0.9634				6.1		20.0			
4-Chlorotoluene	0.2859	0.3115	0.3423	0.3331	0.3538	Ave		0.3253				8.3		20.0			
tert-Butylbenzene	0.2616	0.2794	0.2935	0.2843	0.3037	Ave		0.2845				5.6		20.0			
Pentachloroethane	0.3190	0.3486	0.3672	0.3560	0.3767	Ave		0.3535				6.2		20.0			
1,2,4-Trimethylbenzene	0.8273	0.8363	0.8815	0.8650	0.9553	Ave		0.8731				5.8		20.0			
sec-Butylbenzene	1.2355	1.3356	1.4286	1.3955	1.5027	Ave		1.3796				7.3		20.0			
1,3-Dichlorobenzene	0.6399	0.7016	0.7380	0.7182	0.7611	Ave		0.7118				6.4		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-24551-1 Analy Batch No.: 78579
SDG No.: A8091390 (200-24551)
Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/10/2014 16:32 Calibration End Date: 10/10/2014 18:43 Calibration ID: 28152

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
p-Isopropyltoluene	0.9298	0.9567	1.0164	1.0107	1.0950	Ave		1.0017				6.3		20.0			
1,4-Dichlorobenzene	0.6758	0.7080	0.7561	0.7339	0.7866	Ave		0.7321				5.8		20.0			
1,2-Dichlorobenzene	0.6047	0.6625	0.6948	0.6618	0.7059	Ave		0.6659				5.9		20.0			
n-Butylbenzene	0.8718	0.8360	0.8633	0.8600	0.9506	Ave		0.8763				5.0		20.0			
Hexachloroethane	0.4271	0.4642	0.5116	0.4992	0.5332	Ave		0.4871				8.6		20.0			
1,2-Dibromo-3-Chloropropane	0.0925	0.1098	0.1169	0.1144	0.1199	Ave		0.1107				9.8		20.0			
Nitrobenzene	0.0142	0.0203	0.0303	0.0323	0.0360	Ave		0.0266				34.0	*	20.0			
1,3,5-Trichlorobenzene	0.4336	0.4789	0.4890	0.4897	0.5244	Ave		0.4831				6.8		20.0			
1,2,4-Trichlorobenzene	0.3386	0.3897	0.4143	0.4101	0.4476	Ave		0.4000				10.0		20.0			
Hexachlorobutadiene	0.2598	0.2687	0.2842	0.2784	0.2901	Ave		0.2763				4.4		20.0			
Naphthalene	0.4915	0.6158	0.7000	0.6853	0.7400	Ave		0.6465				15.1		20.0			
1,2,3-Trichlorobenzene	0.2938	0.3439	0.3689	0.3731	0.4014	Ave		0.3562				11.3		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-24551-1 Analy Batch No.: 78579

SDG No.: A8091390 (200-24551)

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 16:32 Calibration End Date: 10/10/2014 18:43 Calibration ID: 28152

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-78579/4	lkr04.d
Level 2	ICIS 200-78579/5	lkr05.d
Level 3	IC 200-78579/6	lkr06.d
Level 4	IC 200-78579/7	lkr07.d
Level 5	IC 200-78579/8	lkr08.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	25603	113262	549281	1154631	1724340	0.500	2.00	10.0	20.0	30.0
Chloromethane	FB	Ave	15591	65980	325678	653106	1054933	0.500	2.00	10.0	20.0	30.0
Vinyl chloride	FB	Ave	18430	81712	388261	810327	1247744	0.500	2.00	10.0	20.0	30.0
Bromomethane	FB	Ave	6466	30002	153720	337092	520986	0.500	2.00	10.0	20.0	30.0
Chloroethane	FB	Ave	13297	50468	249717	502774	773213	0.500	2.00	10.0	20.0	30.0
Trichlorofluoromethane	FB	Ave	33452	147005	725500	1501278	2256097	0.500	2.00	10.0	20.0	30.0
Diethyl ether	FB	Ave	11183	51048	244848	504841	780630	0.500	2.00	10.0	20.0	30.0
1,1-Dichloroethene	FB	Ave	17504	77480	381204	786797	1206056	0.500	2.00	10.0	20.0	30.0
Acetone	FB	Ave	19038	64481	325314	676811	1084274	2.50	10.0	50.0	100	150
Methyl iodide	FB	Ave	7313	35004	225626	623822	1086204	0.500	2.00	10.0	20.0	30.0
Carbon disulfide	FB	Ave	47768	190067	922209	1915744	2906698	0.500	2.00	10.0	20.0	30.0
Allyl chloride	FB	Ave	36620	161325	810508	1675604	2554302	0.500	2.00	10.0	20.0	30.0
Methylene Chloride	FB	Ave	20711	79577	374937	772157	1176226	0.500	2.00	10.0	20.0	30.0
t-Butyl alcohol	FB	Ave	107260	235521	458872	1191032	2458996	50.0	100	200	500	1000
Acrylonitrile	FB	Ave	4038	17337	89091	180249	281034	0.500	2.00	10.0	20.0	30.0
trans-1,2-Dichloroethene	FB	Ave	18611	81668	413600	858707	1324938	0.500	2.00	10.0	20.0	30.0
Methyl t-butyl ether	FB	Ave	38908	163012	806099	1685693	2564712	0.500	2.00	10.0	20.0	30.0
1,1-Dichloroethane	FB	Ave	40147	175722	856591	1746195	2670312	0.500	2.00	10.0	20.0	30.0
2,2-Dichloropropane	FB	Ave	33130	131549	611953	1250416	1875681	0.500	2.00	10.0	20.0	30.0
cis-1,2-Dichloroethene	FB	Ave	19328	87066	429046	896689	1377467	0.500	2.00	10.0	20.0	30.0
2-Butanone	FB	Ave	5789	27617	140634	304855	474169	2.50	10.0	50.0	100	150
Propionitrile	FB	Ave	62373	302475	1651730	3490525	5406959	25.0	100	500	1000	1500
Methyl acrylate	FB	Ave	16335	68387	403669	849640	1274151	0.500	2.00	10.0	20.0	30.0
Methacrylonitrile	FB	Ave	4776	20836	105998	208620	339698	0.500	2.00	10.0	20.0	30.0
Bromochloromethane	FB	Ave	12125	49479	249247	536321	821088	0.500	2.00	10.0	20.0	30.0
Tetrahydrofuran	FB	Ave	27979	106908	548756	1130706	1841542	2.50	10.0	50.0	100	150
Chloroform	FB	Ave	41402	165889	808898	1671888	2591499	0.500	2.00	10.0	20.0	30.0
1,1,1-Trichloroethane	FB	Ave	30701	137749	695911	1420390	2172713	0.500	2.00	10.0	20.0	30.0
1-Chlorobutane	FB	Ave	40339	181196	899939	1858736	2855369	0.500	2.00	10.0	20.0	30.0
1,1-Dichloropropene	FB	Ave	30343	121169	642888	1328836	2033225	0.500	2.00	10.0	20.0	30.0
Carbon tetrachloride	FB	Ave	28105	124741	649926	1351760	2056615	0.500	2.00	10.0	20.0	30.0
Benzene	FB	Ave	57072	237295	1225286	2546439	3882453	0.500	2.00	10.0	20.0	30.0
1,2-Dichloroethane	FB	Ave	18297	83647	429834	877325	1339787	0.500	2.00	10.0	20.0	30.0
Trichloroethene	FB	Ave	24498	103418	514238	1086713	1654166	0.500	2.00	10.0	20.0	30.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-24551-1 Analy Batch No.: 78579

SDG No.: A8091390 (200-24551)

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 16:32 Calibration End Date: 10/10/2014 18:43 Calibration ID: 28152

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	24848	108295	533154	1112548	1689608	0.500	2.00	10.0	20.0	30.0
Dibromomethane	FB	Ave	18756	81428	398968	845135	1296449	0.500	2.00	10.0	20.0	30.0
Methyl methacrylate	FB	Ave	14240	53036	278797	583891	909670	0.500	2.00	10.0	20.0	30.0
Bromodichloromethane	FB	Ave	36634	168313	855894	1770172	2713721	0.500	2.00	10.0	20.0	30.0
2-Nitropropane	FB	Ave	77007	338693	1738246	3589324	5419725	10.0	40.0	200	400	600
Chloroacetonitrile	FB	Ave	26043	138714	778630	1707950	2674378	25.0	100	500	1000	1500
cis-1,3-Dichloropropene	FB	Ave	35273	140541	757469	1571091	2321050	0.500	2.00	10.0	20.0	30.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	35297	153915	778448	1629688	2498039	2.50	10.0	50.0	100	150
1,1-Dichloro-2-propanone	FB	Ave	8235	40257	198044	397477	629422	10.0	40.0	200	400	600
Toluene	FB	Ave	36405	158436	794622	1638612	2502116	0.500	2.00	10.0	20.0	30.0
trans-1,3-Dichloropropene	FB	Ave	24934	108433	566933	1197611	1843086	0.500	2.00	10.0	20.0	30.0
Ethyl methacrylate	FB	Ave	27342	111624	565835	1187686	1831659	0.500	2.00	10.0	20.0	30.0
1,1,2-Trichloroethane	FB	Ave	17714	72048	375402	768468	1179315	0.500	2.00	10.0	20.0	30.0
Tetrachloroethene	FB	Ave	32203	131885	663895	1370355	2073050	0.500	2.00	10.0	20.0	30.0
1,3-Dichloropropane	FB	Ave	32780	142713	704993	1477116	2248120	0.500	2.00	10.0	20.0	30.0
2-Hexanone	FB	Ave	61292	287679	1509239	3167940	4888963	2.50	10.0	50.0	100	150
Dibromochloromethane	CBZ	Ave	30050	138310	704721	1486855	2270524	0.500	2.00	10.0	20.0	30.0
1,2-Dibromoethane	CBZ	Ave	25782	121371	616731	1286152	1974455	0.500	2.00	10.0	20.0	30.0
Chlorobenzene	CBZ	Ave	42060	190997	972197	2036379	3115311	0.500	2.00	10.0	20.0	30.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	21759	99802	500776	1053876	1607122	0.500	2.00	10.0	20.0	30.0
Ethylbenzene	CBZ	Ave	71744	313929	1584423	3313063	5050200	0.500	2.00	10.0	20.0	30.0
m&p-Xylene	CBZ	Ave	48092	220939	1118664	2350874	3613923	1.00	4.00	20.0	40.0	60.0
o-Xylene	CBZ	Ave	22841	109087	545939	1128433	1716944	0.500	2.00	10.0	20.0	30.0
Styrene	CBZ	Ave	39632	178443	919503	1962342	2992094	0.500	2.00	10.0	20.0	30.0
Bromoform	CBZ	Ave	21636	103698	554141	1178654	1806972	0.500	2.00	10.0	20.0	30.0
Isopropylbenzene	CBZ	Ave	68914	302879	1555211	3261105	4970287	0.500	2.00	10.0	20.0	30.0
Bromobenzene	CBZ	Ave	22286	100552	512519	1085563	1646973	0.500	2.00	10.0	20.0	30.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	31675	145958	719856	1498388	2304757	0.500	2.00	10.0	20.0	30.0
1,2,3-Trichloropropane	CBZ	Ave	6279	32387	162240	339242	506413	0.500	2.00	10.0	20.0	30.0
trans-1,4-Dichloro-2-butene	CBZ	Ave	6048	27517	133886	268856	415570	0.500	2.00	10.0	20.0	30.0
n-Propylbenzene	CBZ	Ave	14186	70343	375552	790587	1203225	0.500	2.00	10.0	20.0	30.0
2-Chlorotoluene	CBZ	Ave	18257	73207	365648	754826	1150042	0.500	2.00	10.0	20.0	30.0
1,3,5-Trimethylbenzene	CBZ	Ave	45969	207932	1058303	2245762	3452062	0.500	2.00	10.0	20.0	30.0
4-Chlorotoluene	CBZ	Ave	15079	67518	365437	777246	1183180	0.500	2.00	10.0	20.0	30.0
tert-Butylbenzene	CBZ	Ave	13796	60566	313297	663285	1015493	0.500	2.00	10.0	20.0	30.0
Pentachloroethane	CBZ	Ave	16827	75570	391949	830548	1259698	0.500	2.00	10.0	20.0	30.0
1,2,4-Trimethylbenzene	CBZ	Ave	43634	181270	940994	2018087	3194722	0.500	2.00	10.0	20.0	30.0
sec-Butylbenzene	CBZ	Ave	65164	289491	1525045	3255728	5025330	0.500	2.00	10.0	20.0	30.0
1,3-Dichlorobenzene	CBZ	Ave	33751	152085	787772	1675720	2545103	0.500	2.00	10.0	20.0	30.0
p-Isopropyltoluene	CBZ	Ave	49042	207369	1084963	2357993	3661742	0.500	2.00	10.0	20.0	30.0
1,4-Dichlorobenzene	CBZ	Ave	35646	153465	807097	1712172	2630447	0.500	2.00	10.0	20.0	30.0
1,2-Dichlorobenzene	CBZ	Ave	31892	143605	741660	1543926	2360589	0.500	2.00	10.0	20.0	30.0
n-Butylbenzene	CBZ	Ave	45982	181215	921551	2006358	3178916	0.500	2.00	10.0	20.0	30.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-24551-1 Analy Batch No.: 78579

SDG No.: A8091390 (200-24551)

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 16:32 Calibration End Date: 10/10/2014 18:43 Calibration ID: 28152

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Hexachloroethane	CBZ	Ave	22525	100627	546169	1164785	1783083	0.500	2.00	10.0	20.0	30.0
1,2-Dibromo-3-Chloropropane	CBZ	Ave	4877	23797	124783	266862	400885	0.500	2.00	10.0	20.0	30.0
Nitrobenzene	CBZ	Ave	37399	220304	1616373	3765872	6018583	25.0	100	500	1000	1500
1,3,5-Trichlorobenzene	CBZ	Ave	22869	103793	521975	1142517	1753800	0.500	2.00	10.0	20.0	30.0
1,2,4-Trichlorobenzene	CBZ	Ave	17856	84463	442286	956713	1496738	0.500	2.00	10.0	20.0	30.0
Hexachlorobutadiene	CBZ	Ave	13704	58237	303420	649633	970087	0.500	2.00	10.0	20.0	30.0
Naphthalene	CBZ	Ave	25925	133471	747294	1598907	2474740	0.500	2.00	10.0	20.0	30.0
1,2,3-Trichlorobenzene	CBZ	Ave	15496	74538	393828	870394	1342337	0.500	2.00	10.0	20.0	30.0

Curve Type Legend:

Ave = Average ISTD

FORM III
GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Matrix: Water Level: Low Lab File ID: lkra03.d
Lab ID: ICV 200-78664/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	ICV CONCENTRATION (ug/L)	ICV % REC	QC LIMITS REC	#
Dichlorodifluoromethane	1.00	1.54	154	70-130	^
Chloromethane	1.00	1.45	145	70-130	^
Vinyl chloride	1.00	1.37	137	70-130	^
Bromomethane	1.00	1.59	159	70-130	^
Chloroethane	1.00	1.09	109	70-130	
Trichlorofluoromethane	1.00	1.26	126	70-130	
Diethyl ether	1.00	1.07	107	70-130	
1,1-Dichloroethene	1.00	1.15	115	70-130	
Acetone	5.00	5.53	111	70-130	
Methyl iodide	1.00	1.04	104	70-130	
Carbon disulfide	1.00	1.17	117	70-130	
Allyl chloride	1.00	0.968	97	70-130	
Methylene Chloride	1.00	1.43	143	70-130	^
Acrylonitrile	1.00	0.774	77	70-130	
t-Butyl alcohol	100	101	101	70-130	
trans-1,2-Dichloroethene	1.00	1.17	117	70-130	
Methyl t-butyl ether	1.00	1.16	116	70-130	
1,1-Dichloroethane	1.00	1.16	116	70-130	
cis-1,2-Dichloroethene	1.00	1.15	115	70-130	
2,2-Dichloropropane	1.00	1.21	121	70-130	
2-Butanone	5.00	5.60	112	70-130	
Propionitrile	51.3	52.6	103	70-130	
Methyl acrylate	1.00	1.13	113	70-130	
Methacrylonitrile	1.00	1.23	123	70-130	
Bromochloromethane	1.00	1.15	115	70-130	
Tetrahydrofuran	5.00	5.97	119	70-130	
Chloroform	1.00	1.19	119	70-130	
1,1,1-Trichloroethane	1.00	1.13	113	70-130	
1-Chlorobutane	1.00	1.14	114	70-130	
Carbon tetrachloride	1.00	1.10	110	70-130	
1,1-Dichloropropene	1.00	1.21	121	70-130	
Benzene	1.00	1.10	110	70-130	
1,2-Dichloroethane	1.00	1.10	110	70-130	
Trichloroethene	1.00	1.11	111	70-130	
1,2-Dichloropropane	1.00	1.09	109	70-130	
Dibromomethane	1.00	1.12	112	70-130	
Methyl methacrylate	1.00	0.992	99	70-130	
Bromodichloromethane	1.00	1.07	107	70-130	
2-Nitropropane	21.1	22.0	104	70-130	
Chloroacetonitrile	51.3	51.5	100	70-130	
cis-1,3-Dichloropropene	1.00	1.16	116	70-130	
4-Methyl-2-pentanone (MIBK)	5.00	5.64	113	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Matrix: Water Level: Low Lab File ID: lkra03.d
Lab ID: ICV 200-78664/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	ICV CONCENTRATION (ug/L)	ICV % REC	QC LIMITS REC	#
1,1-Dichloro-2-propanone	21.1	22.9	109	70-130	
Toluene	1.00	1.13	113	70-130	
trans-1,3-Dichloropropene	1.00	1.19	119	70-130	
Ethyl methacrylate	1.00	1.07	107	70-130	
1,1,2-Trichloroethane	1.00	1.19	119	70-130	
Tetrachloroethene	1.00	1.10	110	70-130	
1,3-Dichloropropane	1.00	1.09	109	70-130	
2-Hexanone	5.00	5.75	115	70-130	
Dibromochloromethane	1.00	1.12	112	70-130	
1,2-Dibromoethane	1.00	1.14	114	70-130	
Chlorobenzene	1.00	1.12	112	70-130	
1,1,1,2-Tetrachloroethane	1.00	1.12	112	70-130	
Ethylbenzene	1.00	1.12	112	70-130	
m&p-Xylene	2.00	2.25	112	70-130	
o-Xylene	1.00	1.09	109	70-130	
Styrene	1.00	1.08	108	70-130	
Bromoform	1.00	1.08	108	70-130	
Isopropylbenzene	1.00	1.11	111	70-130	
Bromobenzene	1.00	1.10	110	70-130	
1,1,2,2-Tetrachloroethane	1.00	1.17	117	70-130	
1,2,3-Trichloropropane	1.00	1.19	119	70-130	
trans-1,4-Dichloro-2-butene	1.00	1.16	116	70-130	
n-Propylbenzene	1.00	1.11	111	70-130	
2-Chlorotoluene	1.00	1.12	112	70-130	
4-Chlorotoluene	1.00	1.15	115	70-130	
1,3,5-Trimethylbenzene	1.00	1.13	113	70-130	
tert-Butylbenzene	1.00	1.11	111	70-130	
Pentachloroethane	1.00	1.07	107	70-130	
1,2,4-Trimethylbenzene	1.00	1.13	113	70-130	
sec-Butylbenzene	1.00	1.09	109	70-130	
1,3-Dichlorobenzene	1.00	1.10	110	70-130	
p-Isopropyltoluene	1.00	1.08	108	70-130	
1,4-Dichlorobenzene	1.00	1.06	106	70-130	
1,2-Dichlorobenzene	1.00	1.12	112	70-130	
n-Butylbenzene	1.00	1.09	109	70-130	
Hexachloroethane	1.00	1.02	102	70-130	
1,2-Dibromo-3-Chloropropane	1.00	1.14	114	70-130	
Nitrobenzene	51.3	44.8	87	70-130	
1,3,5-Trichlorobenzene	1.00	1.14	114	70-130	
1,2,4-Trichlorobenzene	1.00	1.13	113	70-130	
Hexachlorobutadiene	1.00	1.20	120	70-130	
Naphthalene	1.00	1.21	121	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Matrix: Water Level: Low Lab File ID: lkra03.d
Lab ID: ICV 200-78664/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	ICV CONCENTRATION (ug/L)	ICV % REC	QC LIMITS REC	#
1,2,3-Trichlorobenzene	1.00	1.14	114	70-130	

Column to be used to flag recovery and RPD values

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
 SDG No.: A8091390 (200-24551)
 Lab Sample ID: CCVIS 200-78664/2 Calibration Date: 10/13/2014 09:00
 Instrument ID: L.i Calib Start Date: 10/10/2014 16:32
 GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 10/10/2014 18:43
 Lab File ID: lkra02.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3770	0.3669		1.95	2.00	-2.7	30.0
Chloromethane	Ave	0.2233	0.2147		1.92	2.00	-3.8	30.0
Vinyl chloride	Ave	0.2695	0.2583		1.92	2.00	-4.2	30.0
Bromomethane	Ave	0.1050	0.1368		2.61	2.00	30.3*	30.0
Chloroethane	Ave	0.1735	0.1778		2.05	2.00	2.5	30.0
Trichlorofluoromethane	Ave	0.4927	0.4684		1.90	2.00	-4.9	30.0
Diethyl ether	Ave	0.1677	0.1666		1.99	2.00	-0.7	30.0
1,1-Dichloroethene	Ave	0.2596	0.2551		1.97	2.00	-1.7	30.0
Acetone	Ave	0.0470	0.0434		9.25	10.0	-7.5	30.0
Methyl iodide	Ave	0.1642	0.1448		1.76	2.00	-11.9	30.0
Carbon disulfide	Ave	0.6455	0.6747		2.09	2.00	4.5	30.0
Allyl chloride	Ave	0.5477	0.5335		1.95	2.00	-2.6	30.0
Methylene Chloride	Ave	0.2670	0.2724		2.04	2.00	2.0	30.0
t-Butyl alcohol	Ave	0.0158	0.0165		105	100	4.6	30.0
Acrylonitrile	Ave	0.0597	0.0505		1.69	2.00	-15.4	30.0
trans-1,2-Dichloroethene	Ave	0.2800	0.2753		1.97	2.00	-1.7	30.0
Methyl t-butyl ether	Ave	0.5558	0.5458		1.96	2.00	-1.8	30.0
1,1-Dichloroethane	Ave	0.5836	0.5490		1.88	2.00	-5.9	30.0
2,2-Dichloropropane	Ave	0.4324	0.4564		2.11	2.00	5.5	30.0
cis-1,2-Dichloroethene	Ave	0.2926	0.2954		2.02	2.00	0.9	30.0
2-Butanone	Ave	0.0191	0.0193		10.1	10.0	1.1	30.0
Propionitrile	Ave	0.0215	0.0199		94.1	102	-7.8	30.0
Methyl acrylate	Ave	0.2602	0.2781		2.14	2.00	6.8	30.0
Methacrylonitrile	Ave	0.0710	0.0664		1.87	2.00	-6.4	30.0
Bromochloromethane	Ave	0.1737	0.1716		1.98	2.00	-1.2	30.0
Tetrahydrofuran	Ave	0.0766	0.0751		9.81	10.0	-1.9	30.0
Chloroform	Ave	0.5655	0.5460		1.93	2.00	-3.5	30.0
1,1,1-Trichloroethane	Ave	0.4655	0.4526		1.94	2.00	-2.8	30.0
1-Chlorobutane	Ave	0.6093	0.5988		1.97	2.00	-1.7	30.0
1,1-Dichloropropene	Ave	0.4337	0.4114		1.90	2.00	-5.2	30.0
Carbon tetrachloride	Ave	0.4333	0.4110		1.90	2.00	-5.2	30.0
Benzene	Ave	0.8301	0.8034		1.94	2.00	-3.2	30.0
1,2-Dichloroethane	Ave	0.2846	0.2909		2.04	2.00	2.2	30.0
Trichloroethene	Ave	0.3548	0.3472		1.96	2.00	-2.1	30.0
1,2-Dichloropropane	Ave	0.3650	0.3445		1.89	2.00	-5.6	30.0
Dibromomethane	Ave	0.2761	0.2840		2.06	2.00	2.9	30.0
Methyl methacrylate	Ave	0.1932	0.1880		1.95	2.00	-2.7	30.0
Bromodichloromethane	Ave	0.5719	0.5459		1.91	2.00	-4.6	30.0
2-Nitropropane	Ave	0.0581	0.0520		37.6	42.0	-10.5	30.0
Chloroacetonitrile	Ave	0.0101	0.0095		96.2	102	-5.6	30.0
cis-1,3-Dichloropropene	Ave	0.5052	0.5135		2.03	2.00	1.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
 SDG No.: A8091390 (200-24551)
 Lab Sample ID: CCVIS 200-78664/2 Calibration Date: 10/13/2014 09:00
 Instrument ID: L.i Calib Start Date: 10/10/2014 16:32
 GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 10/10/2014 18:43
 Lab File ID: lkra02.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Methyl-2-pentanone (MIBK)	Ave	0.1058	0.1010		9.55	10.0	-4.5	30.0
1,1-Dichloro-2-propanone	Ave	0.0066	0.0061		39.0	42.0	-7.2	30.0
Toluene	Ave	0.5382	0.5115		1.90	2.00	-5.0	30.0
trans-1,3-Dichloropropene	Ave	0.3823	0.4146		2.17	2.00	8.5	30.0
Ethyl methacrylate	Ave	0.3900	0.3549		1.82	2.00	-9.0	30.0
1,1,2-Trichloroethane	Ave	0.2533	0.2416		1.91	2.00	-4.6	30.0
1,3-Dichloropropane	Ave	0.4831	0.4872		2.02	2.00	0.9	30.0
Tetrachloroethene	Ave	0.4537	0.4373		1.93	2.00	-3.6	30.0
2-Hexanone	Ave	0.2001	0.1911		9.55	10.0	-4.5	30.0
Dibromochloromethane	Ave	0.6369	0.5418		1.70	2.00	-14.9	30.0
1,2-Dibromoethane	Ave	0.5536	0.5054		1.83	2.00	-8.7	30.0
Chlorobenzene	Ave	0.8788	0.7852		1.79	2.00	-10.6	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4549	0.3912		1.72	2.00	-14.0	30.0
Ethylbenzene	Ave	1.445	1.251		1.73	2.00	-13.4	30.0
m&p-Xylene	Ave	0.5067	0.4446		3.51	4.00	-12.3	30.0
o-Xylene	Ave	0.4890	0.4228		1.73	2.00	-13.5	30.0
Styrene	Ave	0.8344	0.7257		1.74	2.00	-13.0	30.0
Bromoform	Ave	0.4907	0.4157		1.69	2.00	-15.3	30.0
Isopropylbenzene	Ave	1.409	1.216		1.73	2.00	-13.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6559	0.5762		1.76	2.00	-12.2	30.0
Bromobenzene	Ave	0.4649	0.4186		1.80	2.00	-10.0	30.0
1,2,3-Trichloropropane	Ave	0.1435	0.1269		1.77	2.00	-11.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1213	0.1094		1.80	2.00	-9.8	30.0
n-Propylbenzene	Ave	0.3288	0.2883		1.75	2.00	-12.3	30.0
2-Chlorotoluene	Ave	0.3388	0.3054		1.80	2.00	-9.8	30.0
1,3,5-Trimethylbenzene	Ave	0.9634	0.8081		1.68	2.00	-16.1	30.0
4-Chlorotoluene	Ave	0.3253	0.2926		1.80	2.00	-10.1	30.0
tert-Butylbenzene	Ave	0.2845	0.2382		1.67	2.00	-16.3	30.0
Pentachloroethane	Ave	0.3535	0.3035		1.72	2.00	-14.1	30.0
1,2,4-Trimethylbenzene	Ave	0.8731	0.7305		1.67	2.00	-16.3	30.0
sec-Butylbenzene	Ave	1.380	1.165		1.69	2.00	-15.6	30.0
1,3-Dichlorobenzene	Ave	0.7118	0.6429		1.81	2.00	-9.7	30.0
p-Isopropyltoluene	Ave	1.002	0.8407		1.68	2.00	-16.1	30.0
1,4-Dichlorobenzene	Ave	0.7321	0.6607		1.81	2.00	-9.7	30.0
1,2-Dichlorobenzene	Ave	0.6659	0.5816		1.75	2.00	-12.7	30.0
n-Butylbenzene	Ave	0.8763	0.7273		1.66	2.00	-17.0	30.0
Hexachloroethane	Ave	0.4871	0.4234		1.74	2.00	-13.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1107	0.0959		1.73	2.00	-13.4	30.0
Nitrobenzene	Ave	0.0266	0.0204		78.2	102	-23.3	30.0
1,3,5-Trichlorobenzene	Ave	0.4831	0.4276		1.77	2.00	-11.5	30.0
1,2,4-Trichlorobenzene	Ave	0.4000	0.3713		1.86	2.00	-7.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Lab Sample ID: CCVIS 200-78664/2 Calibration Date: 10/13/2014 09:00
Instrument ID: L.i Calib Start Date: 10/10/2014 16:32
GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 10/10/2014 18:43
Lab File ID: lkra02.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorobutadiene	Ave	0.2763	0.2516		1.82	2.00	-8.9	30.0
Naphthalene	Ave	0.6465	0.5769		1.78	2.00	-10.8	30.0
1,2,3-Trichlorobenzene	Ave	0.3562	0.3372		1.89	2.00	-5.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-24551-1

SDG No.: A8091390 (200-24551)

Lab Sample ID: CCVIS 200-78697/3 Calibration Date: 10/14/2014 08:56

Instrument ID: L.i Calib Start Date: 10/10/2014 16:32

GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 10/10/2014 18:43

Lab File ID: lkrb03.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3770	0.4113		2.18	2.00	9.1	30.0
Chloromethane	Ave	0.2233	0.2361		2.11	2.00	5.7	30.0
Vinyl chloride	Ave	0.2695	0.2904		2.16	2.00	7.8	30.0
Bromomethane	Ave	0.1050	0.1083		2.06	2.00	3.1	30.0
Chloroethane	Ave	0.1735	0.1901		2.19	2.00	9.6	30.0
Trichlorofluoromethane	Ave	0.4927	0.5355		2.17	2.00	8.7	30.0
Diethyl ether	Ave	0.1677	0.1812		2.16	2.00	8.0	30.0
1,1-Dichloroethene	Ave	0.2596	0.2720		2.10	2.00	4.8	30.0
Acetone	Ave	0.0470	0.0483		10.3	10.0	2.8	30.0
Methyl iodide	Ave	0.1642	0.1509		1.84	2.00	-8.1	30.0
Carbon disulfide	Ave	0.6455	0.7174		2.22	2.00	11.1	30.0
Allyl chloride	Ave	0.5477	0.6053		2.21	2.00	10.5	30.0
Methylene Chloride	Ave	0.2670	0.2908		2.18	2.00	8.9	30.0
t-Butyl alcohol	Ave	0.0158	0.0176		112	100	11.6	30.0
Acrylonitrile	Ave	0.0597	0.0620		2.08	2.00	3.8	30.0
trans-1,2-Dichloroethene	Ave	0.2800	0.3023		2.16	2.00	8.0	30.0
Methyl t-butyl ether	Ave	0.5558	0.6137		2.21	2.00	10.4	30.0
1,1-Dichloroethane	Ave	0.5836	0.6322		2.17	2.00	8.3	30.0
2,2-Dichloropropane	Ave	0.4324	0.4790		2.22	2.00	10.8	30.0
cis-1,2-Dichloroethene	Ave	0.2926	0.3189		2.18	2.00	9.0	30.0
2-Butanone	Ave	0.0191	0.0197		10.3	10.0	2.9	30.0
Propionitrile	Ave	0.0215	0.0213		101	102	-0.9	30.0
Methyl acrylate	Ave	0.2602	0.3015		2.32	2.00	15.9	30.0
Methacrylonitrile	Ave	0.0710	0.0735		2.07	2.00	3.6	30.0
Bromochloromethane	Ave	0.1737	0.1846		2.13	2.00	6.3	30.0
Tetrahydrofuran	Ave	0.0766	0.0806		10.5	10.0	5.3	30.0
Chloroform	Ave	0.5655	0.6089		2.15	2.00	7.7	30.0
1,1,1-Trichloroethane	Ave	0.4655	0.5018		2.16	2.00	7.8	30.0
1-Chlorobutane	Ave	0.6093	0.6596		2.16	2.00	8.2	30.0
1,1-Dichloropropene	Ave	0.4337	0.4527		2.09	2.00	4.4	30.0
Carbon tetrachloride	Ave	0.4333	0.4588		2.12	2.00	5.9	30.0
Benzene	Ave	0.8301	0.8973		2.16	2.00	8.1	30.0
1,2-Dichloroethane	Ave	0.2846	0.3075		2.16	2.00	8.1	30.0
Trichloroethene	Ave	0.3548	0.3733		2.10	2.00	5.2	30.0
1,2-Dichloropropane	Ave	0.3650	0.3845		2.11	2.00	5.3	30.0
Dibromomethane	Ave	0.2761	0.2929		2.12	2.00	6.1	30.0
Methyl methacrylate	Ave	0.1932	0.2062		2.13	2.00	6.7	30.0
Bromodichloromethane	Ave	0.5719	0.6136		2.15	2.00	7.3	30.0
2-Nitropropane	Ave	0.0581	0.0571		41.2	42.0	-1.8	30.0
Chloroacetonitrile	Ave	0.0101	0.0095		96.3	102	-5.6	30.0
cis-1,3-Dichloropropene	Ave	0.5052	0.4915		1.95	2.00	-2.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
 SDG No.: A8091390 (200-24551)
 Lab Sample ID: CCVIS 200-78697/3 Calibration Date: 10/14/2014 08:56
 Instrument ID: L.i Calib Start Date: 10/10/2014 16:32
 GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 10/10/2014 18:43
 Lab File ID: lkrb03.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Methyl-2-pentanone (MIBK)	Ave	0.1058	0.1112		10.5	10.0	5.1	30.0
1,1-Dichloro-2-propanone	Ave	0.0066	0.0070		44.4	42.0	5.7	30.0
Toluene	Ave	0.5382	0.5827		2.17	2.00	8.3	30.0
trans-1,3-Dichloropropene	Ave	0.3823	0.4115		2.15	2.00	7.6	30.0
Ethyl methacrylate	Ave	0.3900	0.4022		2.06	2.00	3.1	30.0
1,1,2-Trichloroethane	Ave	0.2533	0.2708		2.14	2.00	6.9	30.0
1,3-Dichloropropane	Ave	0.4831	0.5152		2.13	2.00	6.6	30.0
Tetrachloroethene	Ave	0.4537	0.4884		2.15	2.00	7.6	30.0
2-Hexanone	Ave	0.2001	0.2088		10.4	10.0	4.4	30.0
Dibromochloromethane	Ave	0.6369	0.6606		2.07	2.00	3.7	30.0
1,2-Dibromoethane	Ave	0.5536	0.5872		2.12	2.00	6.1	30.0
Chlorobenzene	Ave	0.8788	0.9393		2.14	2.00	6.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4549	0.4842		2.13	2.00	6.4	30.0
Ethylbenzene	Ave	1.445	1.502		2.08	2.00	4.0	30.0
m&p-Xylene	Ave	0.5067	0.5310		4.19	4.00	4.8	30.0
o-Xylene	Ave	0.4890	0.5147		2.11	2.00	5.3	30.0
Styrene	Ave	0.8344	0.8454		2.03	2.00	1.3	30.0
Bromoform	Ave	0.4907	0.5165		2.11	2.00	5.3	30.0
Isopropylbenzene	Ave	1.409	1.495		2.12	2.00	6.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6559	0.6959		2.12	2.00	6.1	30.0
Bromobenzene	Ave	0.4649	0.4943		2.13	2.00	6.3	30.0
1,2,3-Trichloropropane	Ave	0.1435	0.1580		2.20	2.00	10.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1213	0.1170		1.93	2.00	-3.5	30.0
n-Propylbenzene	Ave	0.3288	0.3503		2.13	2.00	6.5	30.0
2-Chlorotoluene	Ave	0.3388	0.3519		2.08	2.00	3.9	30.0
1,3,5-Trimethylbenzene	Ave	0.9634	1.002		2.08	2.00	4.0	30.0
4-Chlorotoluene	Ave	0.3253	0.3387		2.08	2.00	4.1	30.0
Pentachloroethane	Ave	0.3535	0.3679		2.08	2.00	4.1	30.0
tert-Butylbenzene	Ave	0.2845	0.2938		2.07	2.00	3.3	30.0
1,2,4-Trimethylbenzene	Ave	0.8731	0.8998		2.06	2.00	3.1	30.0
sec-Butylbenzene	Ave	1.380	1.431		2.08	2.00	3.8	30.0
1,3-Dichlorobenzene	Ave	0.7118	0.7526		2.11	2.00	5.7	30.0
p-Isopropyltoluene	Ave	1.002	1.013		2.02	2.00	1.2	30.0
1,4-Dichlorobenzene	Ave	0.7321	0.7719		2.11	2.00	5.4	30.0
1,2-Dichlorobenzene	Ave	0.6659	0.7043		2.12	2.00	5.8	30.0
n-Butylbenzene	Ave	0.8763	0.8915		2.03	2.00	1.7	30.0
Hexachloroethane	Ave	0.4871	0.5046		2.07	2.00	3.6	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1107	0.1132		2.05	2.00	2.3	30.0
Nitrobenzene	Ave	0.0266	0.0218		83.4	102	-18.2	30.0
1,3,5-Trichlorobenzene	Ave	0.4831	0.5050		2.09	2.00	4.5	30.0
1,2,4-Trichlorobenzene	Ave	0.4000	0.4193		2.10	2.00	4.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Lab Sample ID: CCVIS 200-78697/3 Calibration Date: 10/14/2014 08:56
Instrument ID: L.i Calib Start Date: 10/10/2014 16:32
GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 10/10/2014 18:43
Lab File ID: lkrb03.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorobutadiene	Ave	0.2763	0.2926		2.12	2.00	5.9	30.0
Naphthalene	Ave	0.6465	0.6744		2.09	2.00	4.3	30.0
1,2,3-Trichlorobenzene	Ave	0.3562	0.3723		2.09	2.00	4.5	30.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-78664/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra05.d</u>
Analysis Method: <u>524.2</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 10:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.090
74-87-3	Chloromethane	0.50	U	0.50	0.12
75-01-4	Vinyl chloride	0.50	U	0.50	0.076
74-83-9	Bromomethane	0.50	U	0.50	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.22
75-69-4	Trichlorofluoromethane	0.50	U	0.50	0.10
60-29-7	Diethyl ether	0.50	U	0.50	0.066
75-35-4	1,1-Dichloroethene	0.50	U	0.50	0.074
67-64-1	Acetone	5.0	U	5.0	0.84
74-88-4	Methyl iodide	0.50	U	0.50	0.13
75-15-0	Carbon disulfide	0.50	U	0.50	0.12
107-05-1	Allyl chloride	0.50	U	0.50	0.10
75-09-2	Methylene Chloride	0.50	U	0.50	0.084
107-13-1	Acrylonitrile	0.50	U	0.50	0.16
75-65-0	t-Butyl alcohol	50	U	50	4.4
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	0.071
1634-04-4	Methyl t-butyl ether	0.50	U	0.50	0.080
75-34-3	1,1-Dichloroethane	0.50	U	0.50	0.094
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	0.087
594-20-7	2,2-Dichloropropane	0.50	U	0.50	0.16
78-93-3	2-Butanone	5.0	U	5.0	0.16
107-12-0	Propionitrile	25	U	25	2.9
96-33-3	Methyl acrylate	0.50	U	0.50	0.13
126-98-7	Methacrylonitrile	0.50	U	0.50	0.081
74-97-5	Bromochloromethane	0.50	U	0.50	0.076
109-99-9	Tetrahydrofuran	2.5	U	2.5	0.52
67-66-3	Chloroform	0.50	U	0.50	0.085
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	0.092
109-69-3	1-Chlorobutane	0.50	U	0.50	0.10
56-23-5	Carbon tetrachloride	0.50	U	0.50	0.12
563-58-6	1,1-Dichloropropene	0.50	U	0.50	0.12
71-43-2	Benzene	0.50	U	0.50	0.10
107-06-2	1,2-Dichloroethane	0.50	U	0.50	0.092
79-01-6	Trichloroethene	0.50	U	0.50	0.10
78-87-5	1,2-Dichloropropane	0.50	U	0.50	0.087
74-95-3	Dibromomethane	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-78664/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra05.d</u>
Analysis Method: <u>524.2</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 10:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	0.50	U	0.50	0.25
75-27-4	Bromodichloromethane	0.50	U	0.50	0.10
79-46-9	2-Nitropropane	10	U	10	1.3
107-14-2	Chloroacetonitrile	25	U	25	4.1
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.12
108-10-1	4-Methyl-2-pentanone (MIBK)	2.5	U	2.5	0.32
513-88-2	1,1-Dichloro-2-propanone	10	U	10	1.1
108-88-3	Toluene	0.50	U	0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.082
97-63-2	Ethyl methacrylate	0.50	U	0.50	0.073
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.070
127-18-4	Tetrachloroethene	0.50	U	0.50	0.089
142-28-9	1,3-Dichloropropane	0.50	U	0.50	0.10
591-78-6	2-Hexanone	2.5	U	2.5	0.40
124-48-1	Dibromochloromethane	0.50	U	0.50	0.081
106-93-4	1,2-Dibromoethane	0.50	U	0.50	0.072
108-90-7	Chlorobenzene	0.50	U	0.50	0.093
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.10
100-41-4	Ethylbenzene	0.50	U	0.50	0.10
179601-23-1	m&p-Xylene	0.50	U	0.50	0.20
95-47-6	o-Xylene	0.50	U	0.50	0.092
100-42-5	Styrene	0.50	U	0.50	0.075
75-25-2	Bromoform	0.50	U	0.50	0.067
98-82-8	Isopropylbenzene	0.50	U	0.50	0.10
108-86-1	Bromobenzene	0.50	U	0.50	0.083
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.078
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	0.10
110-57-6	trans-1,4-Dichloro-2-butene	0.50	U	0.50	0.12
103-65-1	n-Propylbenzene	0.50	U	0.50	0.10
95-49-8	2-Chlorotoluene	0.50	U	0.50	0.10
106-43-4	4-Chlorotoluene	0.50	U	0.50	0.10
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	0.10
98-06-6	tert-Butylbenzene	0.50	U	0.50	0.089
76-01-7	Pentachloroethane	0.50	U	0.50	0.089
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	0.10
135-98-8	sec-Butylbenzene	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Client Sample ID: _____ Lab Sample ID: MB 200-78664/5
Matrix: Water Lab File ID: lkra05.d
Analysis Method: 524.2 Date Collected: _____
Sample wt/vol: 5(mL) Date Analyzed: 10/13/2014 10:37
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 78664 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	0.11
99-87-6	p-Isopropyltoluene	0.50	U	0.50	0.090
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	0.10
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	0.081
104-51-8	n-Butylbenzene	0.50	U	0.50	0.13
67-72-1	Hexachloroethane	0.50	U	0.50	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U	0.50	0.10
98-95-3	Nitrobenzene	25	U	25	3.6
108-70-3	1,3,5-Trichlorobenzene	0.50	U	0.50	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.083
87-68-3	Hexachlorobutadiene	0.50	U	0.50	0.089
91-20-3	Naphthalene	0.50	U	0.50	0.062
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Client Sample ID: _____ Lab Sample ID: MB 200-78664/5
Matrix: Water Lab File ID: lkra05.d
Analysis Method: 524.2 Date Collected: _____
Sample wt/vol: 5(mL) Date Analyzed: 10/13/2014 10:37
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 78664 Units: ug/L
Number TICs Found: 2 TIC Result Total: 2.059

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	7.86	1.55	J
	Unknown	21.01	0.509	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-78697/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb05.d</u>
Analysis Method: <u>524.2</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 10:01</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.090
74-87-3	Chloromethane	0.50	U	0.50	0.12
75-01-4	Vinyl chloride	0.50	U	0.50	0.076
74-83-9	Bromomethane	0.50	U	0.50	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.22
75-69-4	Trichlorofluoromethane	0.50	U	0.50	0.10
60-29-7	Diethyl ether	0.50	U	0.50	0.066
75-35-4	1,1-Dichloroethene	0.50	U	0.50	0.074
67-64-1	Acetone	5.0	U	5.0	0.84
74-88-4	Methyl iodide	0.50	U	0.50	0.13
75-15-0	Carbon disulfide	0.50	U	0.50	0.12
107-05-1	Allyl chloride	0.50	U	0.50	0.10
75-09-2	Methylene Chloride	0.50	U	0.50	0.084
107-13-1	Acrylonitrile	0.50	U	0.50	0.16
75-65-0	t-Butyl alcohol	50	U	50	4.4
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	0.071
1634-04-4	Methyl t-butyl ether	0.50	U	0.50	0.080
75-34-3	1,1-Dichloroethane	0.50	U	0.50	0.094
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	0.087
594-20-7	2,2-Dichloropropane	0.50	U	0.50	0.16
78-93-3	2-Butanone	5.0	U	5.0	0.16
107-12-0	Propionitrile	25	U	25	2.9
96-33-3	Methyl acrylate	0.50	U	0.50	0.13
126-98-7	Methacrylonitrile	0.50	U	0.50	0.081
74-97-5	Bromochloromethane	0.50	U	0.50	0.076
109-99-9	Tetrahydrofuran	2.5	U	2.5	0.52
67-66-3	Chloroform	0.50	U	0.50	0.085
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	0.092
109-69-3	1-Chlorobutane	0.50	U	0.50	0.10
56-23-5	Carbon tetrachloride	0.50	U	0.50	0.12
563-58-6	1,1-Dichloropropene	0.50	U	0.50	0.12
71-43-2	Benzene	0.50	U	0.50	0.10
107-06-2	1,2-Dichloroethane	0.50	U	0.50	0.092
79-01-6	Trichloroethene	0.50	U	0.50	0.10
78-87-5	1,2-Dichloropropane	0.50	U	0.50	0.087
74-95-3	Dibromomethane	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-78697/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb05.d</u>
Analysis Method: <u>524.2</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 10:01</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	0.50	U	0.50	0.25
75-27-4	Bromodichloromethane	0.50	U	0.50	0.10
79-46-9	2-Nitropropane	10	U	10	1.3
107-14-2	Chloroacetonitrile	25	U	25	4.1
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.12
108-10-1	4-Methyl-2-pentanone (MIBK)	2.5	U	2.5	0.32
513-88-2	1,1-Dichloro-2-propanone	10	U	10	1.1
108-88-3	Toluene	0.50	U	0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.082
97-63-2	Ethyl methacrylate	0.50	U	0.50	0.073
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.070
127-18-4	Tetrachloroethene	0.50	U	0.50	0.089
142-28-9	1,3-Dichloropropane	0.50	U	0.50	0.10
591-78-6	2-Hexanone	2.5	U	2.5	0.40
124-48-1	Dibromochloromethane	0.50	U	0.50	0.081
106-93-4	1,2-Dibromoethane	0.50	U	0.50	0.072
108-90-7	Chlorobenzene	0.50	U	0.50	0.093
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.10
100-41-4	Ethylbenzene	0.50	U	0.50	0.10
179601-23-1	m&p-Xylene	0.50	U	0.50	0.20
95-47-6	o-Xylene	0.50	U	0.50	0.092
100-42-5	Styrene	0.50	U	0.50	0.075
75-25-2	Bromoform	0.50	U	0.50	0.067
98-82-8	Isopropylbenzene	0.50	U	0.50	0.10
108-86-1	Bromobenzene	0.50	U	0.50	0.083
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.078
96-18-4	1,2,3-Trichloropropane	0.50	U	0.50	0.10
110-57-6	trans-1,4-Dichloro-2-butene	0.50	U	0.50	0.12
103-65-1	n-Propylbenzene	0.50	U	0.50	0.10
95-49-8	2-Chlorotoluene	0.50	U	0.50	0.10
106-43-4	4-Chlorotoluene	0.50	U	0.50	0.10
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.50	0.10
98-06-6	tert-Butylbenzene	0.50	U	0.50	0.089
76-01-7	Pentachloroethane	0.50	U	0.50	0.089
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.50	0.10
135-98-8	sec-Butylbenzene	0.50	U	0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Client Sample ID: _____ Lab Sample ID: MB 200-78697/5
Matrix: Water Lab File ID: lkrb05.d
Analysis Method: 524.2 Date Collected: _____
Sample wt/vol: 5(mL) Date Analyzed: 10/14/2014 10:01
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 78697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	0.11
99-87-6	p-Isopropyltoluene	0.50	U	0.50	0.090
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	0.10
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	0.081
104-51-8	n-Butylbenzene	0.50	U	0.50	0.13
67-72-1	Hexachloroethane	0.50	U	0.50	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U	0.50	0.10
98-95-3	Nitrobenzene	25	U	25	3.6
108-70-3	1,3,5-Trichlorobenzene	0.50	U	0.50	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.083
87-68-3	Hexachlorobutadiene	0.50	U	0.50	0.089
91-20-3	Naphthalene	0.50	U	0.50	0.062
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-78697/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb05.d</u>
Analysis Method: <u>524.2</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 10:01</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>
Number TICs Found: <u>1</u>	TIC Result Total: <u>1.71</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	7.86	1.71	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 200-78664/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra04.d</u>
Analysis Method: <u>524.2</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 10:05</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.51		0.50	0.090
74-87-3	Chloromethane	1.53		0.50	0.12
75-01-4	Vinyl chloride	1.31		0.50	0.076
74-83-9	Bromomethane	1.37		0.50	0.20
75-00-3	Chloroethane	1.08		0.50	0.22
75-69-4	Trichlorofluoromethane	1.24		0.50	0.10
60-29-7	Diethyl ether	1.06		0.50	0.066
75-35-4	1,1-Dichloroethene	1.12		0.50	0.074
67-64-1	Acetone	5.55		5.0	0.84
74-88-4	Methyl iodide	0.928		0.50	0.13
75-15-0	Carbon disulfide	1.17		0.50	0.12
107-05-1	Allyl chloride	0.938		0.50	0.10
75-09-2	Methylene Chloride	1.41		0.50	0.084
107-13-1	Acrylonitrile	1.04		0.50	0.16
75-65-0	t-Butyl alcohol	113		50	4.4
156-60-5	trans-1,2-Dichloroethene	1.13		0.50	0.071
1634-04-4	Methyl t-butyl ether	1.12		0.50	0.080
75-34-3	1,1-Dichloroethane	1.09		0.50	0.094
156-59-2	cis-1,2-Dichloroethene	1.11		0.50	0.087
594-20-7	2,2-Dichloropropane	1.20		0.50	0.16
78-93-3	2-Butanone	5.05		5.0	0.16
107-12-0	Propionitrile	53.6		25	2.9
96-33-3	Methyl acrylate	1.06		0.50	0.13
126-98-7	Methacrylonitrile	1.12		0.50	0.081
74-97-5	Bromochloromethane	1.17		0.50	0.076
109-99-9	Tetrahydrofuran	5.71		2.5	0.52
67-66-3	Chloroform	1.13		0.50	0.085
71-55-6	1,1,1-Trichloroethane	1.09		0.50	0.092
109-69-3	1-Chlorobutane	1.01		0.50	0.10
56-23-5	Carbon tetrachloride	1.05		0.50	0.12
563-58-6	1,1-Dichloropropene	1.20		0.50	0.12
71-43-2	Benzene	1.12		0.50	0.10
107-06-2	1,2-Dichloroethane	1.07		0.50	0.092
79-01-6	Trichloroethene	1.13		0.50	0.10
78-87-5	1,2-Dichloropropane	1.07		0.50	0.087
74-95-3	Dibromomethane	1.10		0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 200-78664/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkra04.d</u>
Analysis Method: <u>524.2</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/13/2014 10:05</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78664</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	1.02		0.50	0.25
75-27-4	Bromodichloromethane	1.08		0.50	0.10
79-46-9	2-Nitropropane	22.4		10	1.3
107-14-2	Chloroacetonitrile	51.0		25	4.1
10061-01-5	cis-1,3-Dichloropropene	1.06		0.50	0.12
108-10-1	4-Methyl-2-pentanone (MIBK)	5.40		2.5	0.32
513-88-2	1,1-Dichloro-2-propanone	21.1		10	1.1
108-88-3	Toluene	1.08		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	1.11		0.50	0.082
97-63-2	Ethyl methacrylate	1.02		0.50	0.073
79-00-5	1,1,2-Trichloroethane	1.08		0.50	0.070
127-18-4	Tetrachloroethene	1.08		0.50	0.089
142-28-9	1,3-Dichloropropane	1.07		0.50	0.10
591-78-6	2-Hexanone	5.88		2.5	0.40
124-48-1	Dibromochloromethane	1.07		0.50	0.081
106-93-4	1,2-Dibromoethane	1.05		0.50	0.072
108-90-7	Chlorobenzene	1.05		0.50	0.093
630-20-6	1,1,1,2-Tetrachloroethane	1.05		0.50	0.10
100-41-4	Ethylbenzene	1.08		0.50	0.10
179601-23-1	m&p-Xylene	2.11		0.50	0.20
95-47-6	o-Xylene	1.05		0.50	0.092
100-42-5	Styrene	1.06		0.50	0.075
75-25-2	Bromoform	0.997		0.50	0.067
98-82-8	Isopropylbenzene	1.05		0.50	0.10
108-86-1	Bromobenzene	1.07		0.50	0.083
79-34-5	1,1,2,2-Tetrachloroethane	1.04		0.50	0.078
96-18-4	1,2,3-Trichloropropane	1.09		0.50	0.10
110-57-6	trans-1,4-Dichloro-2-butene	0.963		0.50	0.12
103-65-1	n-Propylbenzene	1.01		0.50	0.10
95-49-8	2-Chlorotoluene	1.10		0.50	0.10
106-43-4	4-Chlorotoluene	1.05		0.50	0.10
108-67-8	1,3,5-Trimethylbenzene	1.05		0.50	0.10
98-06-6	tert-Butylbenzene	1.00		0.50	0.089
76-01-7	Pentachloroethane	1.01		0.50	0.089
95-63-6	1,2,4-Trimethylbenzene	1.08		0.50	0.10
135-98-8	sec-Butylbenzene	1.02		0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Client Sample ID: _____ Lab Sample ID: LCS 200-78664/4
Matrix: Water Lab File ID: lkra04.d
Analysis Method: 524.2 Date Collected: _____
Sample wt/vol: 5(mL) Date Analyzed: 10/13/2014 10:05
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 78664 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	1.05		0.50	0.11
99-87-6	p-Isopropyltoluene	1.03		0.50	0.090
106-46-7	1,4-Dichlorobenzene	0.987		0.50	0.10
95-50-1	1,2-Dichlorobenzene	1.03		0.50	0.081
104-51-8	n-Butylbenzene	1.02		0.50	0.13
67-72-1	Hexachloroethane	0.958		0.50	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	1.05		0.50	0.10
98-95-3	Nitrobenzene	42.8		25	3.6
108-70-3	1,3,5-Trichlorobenzene	1.04		0.50	0.10
120-82-1	1,2,4-Trichlorobenzene	1.07		0.50	0.083
87-68-3	Hexachlorobutadiene	1.06		0.50	0.089
91-20-3	Naphthalene	1.05		0.50	0.062
87-61-6	1,2,3-Trichlorobenzene	1.09		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 200-78697/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb04.d</u>
Analysis Method: <u>524.2</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 09:28</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.48		0.50	0.090
74-87-3	Chloromethane	1.35		0.50	0.12
75-01-4	Vinyl chloride	1.31		0.50	0.076
74-83-9	Bromomethane	1.35		0.50	0.20
75-00-3	Chloroethane	1.11		0.50	0.22
75-69-4	Trichlorofluoromethane	1.23		0.50	0.10
60-29-7	Diethyl ether	1.03		0.50	0.066
75-35-4	1,1-Dichloroethene	1.11		0.50	0.074
67-64-1	Acetone	7.03		5.0	0.84
74-88-4	Methyl iodide	0.981		0.50	0.13
75-15-0	Carbon disulfide	1.16		0.50	0.12
107-05-1	Allyl chloride	0.915		0.50	0.10
75-09-2	Methylene Chloride	1.38		0.50	0.084
107-13-1	Acrylonitrile	1.01		0.50	0.16
75-65-0	t-Butyl alcohol	111		50	4.4
156-60-5	trans-1,2-Dichloroethene	1.11		0.50	0.071
1634-04-4	Methyl t-butyl ether	1.10		0.50	0.080
75-34-3	1,1-Dichloroethane	1.10		0.50	0.094
156-59-2	cis-1,2-Dichloroethene	1.16		0.50	0.087
594-20-7	2,2-Dichloropropane	1.18		0.50	0.16
78-93-3	2-Butanone	5.24		5.0	0.16
107-12-0	Propionitrile	51.2		25	2.9
96-33-3	Methyl acrylate	0.850		0.50	0.13
126-98-7	Methacrylonitrile	1.00		0.50	0.081
74-97-5	Bromochloromethane	1.09		0.50	0.076
109-99-9	Tetrahydrofuran	4.99		2.5	0.52
67-66-3	Chloroform	1.14		0.50	0.085
71-55-6	1,1,1-Trichloroethane	1.07		0.50	0.092
109-69-3	1-Chlorobutane	1.10		0.50	0.10
56-23-5	Carbon tetrachloride	1.05		0.50	0.12
563-58-6	1,1-Dichloropropene	1.13		0.50	0.12
71-43-2	Benzene	1.05		0.50	0.10
107-06-2	1,2-Dichloroethane	1.06		0.50	0.092
79-01-6	Trichloroethene	1.08		0.50	0.10
78-87-5	1,2-Dichloropropane	1.05		0.50	0.087
74-95-3	Dibromomethane	1.09		0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 200-78697/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb04.d</u>
Analysis Method: <u>524.2</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 09:28</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	1.05		0.50	0.25
75-27-4	Bromodichloromethane	1.08		0.50	0.10
79-46-9	2-Nitropropane	20.3		10	1.3
107-14-2	Chloroacetonitrile	47.9		25	4.1
10061-01-5	cis-1,3-Dichloropropene	1.07		0.50	0.12
108-10-1	4-Methyl-2-pentanone (MIBK)	5.34		2.5	0.32
513-88-2	1,1-Dichloro-2-propanone	18.3		10	1.1
108-88-3	Toluene	1.06		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	1.10		0.50	0.082
97-63-2	Ethyl methacrylate	0.967		0.50	0.073
79-00-5	1,1,2-Trichloroethane	1.07		0.50	0.070
127-18-4	Tetrachloroethene	1.10		0.50	0.089
142-28-9	1,3-Dichloropropane	1.08		0.50	0.10
591-78-6	2-Hexanone	5.32		2.5	0.40
124-48-1	Dibromochloromethane	1.07		0.50	0.081
106-93-4	1,2-Dibromoethane	1.07		0.50	0.072
108-90-7	Chlorobenzene	1.11		0.50	0.093
630-20-6	1,1,1,2-Tetrachloroethane	1.09		0.50	0.10
100-41-4	Ethylbenzene	1.09		0.50	0.10
179601-23-1	m&p-Xylene	2.21		0.50	0.20
95-47-6	o-Xylene	1.08		0.50	0.092
100-42-5	Styrene	1.09		0.50	0.075
75-25-2	Bromoform	0.991		0.50	0.067
98-82-8	Isopropylbenzene	1.10		0.50	0.10
108-86-1	Bromobenzene	1.09		0.50	0.083
79-34-5	1,1,2,2-Tetrachloroethane	1.08		0.50	0.078
96-18-4	1,2,3-Trichloropropane	1.10		0.50	0.10
110-57-6	trans-1,4-Dichloro-2-butene	0.984		0.50	0.12
103-65-1	n-Propylbenzene	1.05		0.50	0.10
95-49-8	2-Chlorotoluene	1.12		0.50	0.10
106-43-4	4-Chlorotoluene	1.09		0.50	0.10
108-67-8	1,3,5-Trimethylbenzene	1.08		0.50	0.10
98-06-6	tert-Butylbenzene	1.02		0.50	0.089
76-01-7	Pentachloroethane	1.05		0.50	0.089
95-63-6	1,2,4-Trimethylbenzene	1.11		0.50	0.10
135-98-8	sec-Butylbenzene	1.06		0.50	0.090

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Client Sample ID: _____ Lab Sample ID: LCS 200-78697/4
Matrix: Water Lab File ID: lkrb04.d
Analysis Method: 524.2 Date Collected: _____
Sample wt/vol: 5(mL) Date Analyzed: 10/14/2014 09:28
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 78697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	1.07		0.50	0.11
99-87-6	p-Isopropyltoluene	1.04		0.50	0.090
106-46-7	1,4-Dichlorobenzene	1.09		0.50	0.10
95-50-1	1,2-Dichlorobenzene	1.09		0.50	0.081
104-51-8	n-Butylbenzene	1.05		0.50	0.13
67-72-1	Hexachloroethane	0.976		0.50	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	1.09		0.50	0.10
98-95-3	Nitrobenzene	38.9		25	3.6
108-70-3	1,3,5-Trichlorobenzene	1.04		0.50	0.10
120-82-1	1,2,4-Trichlorobenzene	1.09		0.50	0.083
87-68-3	Hexachlorobutadiene	1.13		0.50	0.089
91-20-3	Naphthalene	1.07		0.50	0.062
87-61-6	1,2,3-Trichlorobenzene	1.10		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 MS</u>	Lab Sample ID: <u>200-24551-10 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb08.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 11:38</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	14.7		2.1	0.38
74-87-3	Chloromethane	13.7		2.1	0.50
75-01-4	Vinyl chloride	13.1		2.1	0.32
74-83-9	Bromomethane	12.4		2.1	0.84
75-00-3	Chloroethane	9.75		2.1	0.92
75-69-4	Trichlorofluoromethane	12.1		2.1	0.42
60-29-7	Diethyl ether	9.96		2.1	0.28
75-35-4	1,1-Dichloroethene	11.0		2.1	0.31
67-64-1	Acetone	65.3		21	3.5
74-88-4	Methyl iodide	9.43		2.1	0.55
75-15-0	Carbon disulfide	10.7		2.1	0.50
107-05-1	Allyl chloride	8.70		2.1	0.42
75-09-2	Methylene Chloride	13.3		2.1	0.35
107-13-1	Acrylonitrile	11.7		2.1	0.67
75-65-0	t-Butyl alcohol	535		210	18
156-60-5	trans-1,2-Dichloroethene	12.0		2.1	0.30
1634-04-4	Methyl t-butyl ether	12.6		2.1	0.34
75-34-3	1,1-Dichloroethane	10.9		2.1	0.39
156-59-2	cis-1,2-Dichloroethene	100		2.1	0.37
594-20-7	2,2-Dichloropropane	11.5		2.1	0.67
78-93-3	2-Butanone	62.8		21	0.67
107-12-0	Propionitrile	518		110	12
96-33-3	Methyl acrylate	10.3		2.1	0.55
126-98-7	Methacrylonitrile	10.5		2.1	0.34
74-97-5	Bromochloromethane	11.0		2.1	0.32
109-99-9	Tetrahydrofuran	52.5		11	2.2
67-66-3	Chloroform	10.5		2.1	0.36
71-55-6	1,1,1-Trichloroethane	10.6		2.1	0.39
109-69-3	1-Chlorobutane	10.2		2.1	0.42
56-23-5	Carbon tetrachloride	10.3		2.1	0.50
563-58-6	1,1-Dichloropropene	11.2		2.1	0.50
71-43-2	Benzene	10.5		2.1	0.42
107-06-2	1,2-Dichloroethane	10.6		2.1	0.39
79-01-6	Trichloroethene	31.5		2.1	0.42
78-87-5	1,2-Dichloropropane	11.3		2.1	0.37
74-95-3	Dibromomethane	11.0		2.1	0.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 MS</u>	Lab Sample ID: <u>200-24551-10 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb08.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 11:38</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	9.71		2.1	1.1
75-27-4	Bromodichloromethane	10.2		2.1	0.42
79-46-9	2-Nitropropane	208		42	5.5
107-14-2	Chloroacetonitrile	518		110	17
10061-01-5	cis-1,3-Dichloropropene	10.2		2.1	0.50
108-10-1	4-Methyl-2-pentanone (MIBK)	53.7		11	1.3
513-88-2	1,1-Dichloro-2-propanone	214		42	4.6
108-88-3	Toluene	10.4		2.1	0.42
10061-02-6	trans-1,3-Dichloropropene	10.2		2.1	0.34
97-63-2	Ethyl methacrylate	10.1		2.1	0.31
79-00-5	1,1,2-Trichloroethane	11.0		2.1	0.29
127-18-4	Tetrachloroethene	10.6		2.1	0.37
142-28-9	1,3-Dichloropropane	10.0		2.1	0.42
591-78-6	2-Hexanone	55.1		11	1.7
124-48-1	Dibromochloromethane	10.4		2.1	0.34
106-93-4	1,2-Dibromoethane	10.6		2.1	0.30
108-90-7	Chlorobenzene	10.6		2.1	0.39
630-20-6	1,1,1,2-Tetrachloroethane	10.8		2.1	0.42
100-41-4	Ethylbenzene	10.4		2.1	0.42
179601-23-1	m&p-Xylene	21.0		2.1	0.84
95-47-6	o-Xylene	10.6		2.1	0.39
100-42-5	Styrene	10.3		2.1	0.32
75-25-2	Bromoform	10.2		2.1	0.28
98-82-8	Isopropylbenzene	10.6		2.1	0.42
108-86-1	Bromobenzene	10.4		2.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	10.8		2.1	0.33
96-18-4	1,2,3-Trichloropropane	11.0		2.1	0.42
110-57-6	trans-1,4-Dichloro-2-butene	9.03		2.1	0.50
103-65-1	n-Propylbenzene	10.0		2.1	0.42
95-49-8	2-Chlorotoluene	10.5		2.1	0.42
106-43-4	4-Chlorotoluene	10.7		2.1	0.42
108-67-8	1,3,5-Trimethylbenzene	10.3		2.1	0.42
98-06-6	tert-Butylbenzene	10.3		2.1	0.37
76-01-7	Pentachloroethane	10.2		2.1	0.37
95-63-6	1,2,4-Trimethylbenzene	10.4		2.1	0.42
135-98-8	sec-Butylbenzene	10.4		2.1	0.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 MS</u>	Lab Sample ID: <u>200-24551-10 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb08.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 11:38</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	10.4		2.1	0.46
99-87-6	p-Isopropyltoluene	10.3		2.1	0.38
106-46-7	1,4-Dichlorobenzene	10.3		2.1	0.42
95-50-1	1,2-Dichlorobenzene	10.3		2.1	0.34
104-51-8	n-Butylbenzene	10.0		2.1	0.55
67-72-1	Hexachloroethane	9.77		2.1	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	10.3		2.1	0.42
98-95-3	Nitrobenzene	420		110	15
108-70-3	1,3,5-Trichlorobenzene	10.5		2.1	0.42
120-82-1	1,2,4-Trichlorobenzene	10.4		2.1	0.35
87-68-3	Hexachlorobutadiene	10.6		2.1	0.37
91-20-3	Naphthalene	10.1		2.1	0.26
87-61-6	1,2,3-Trichlorobenzene	10.3		2.1	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 DU</u>	Lab Sample ID: <u>200-24551-10 DU</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb07.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 11:06</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	2.1	U	2.1	0.38
74-87-3	Chloromethane	2.1	U	2.1	0.50
75-01-4	Vinyl chloride	2.1	U	2.1	0.32
74-83-9	Bromomethane	2.1	U	2.1	0.84
75-00-3	Chloroethane	2.1	U	2.1	0.92
75-69-4	Trichlorofluoromethane	2.1	U	2.1	0.42
60-29-7	Diethyl ether	2.1	U	2.1	0.28
75-35-4	1,1-Dichloroethene	2.1	U	2.1	0.31
67-64-1	Acetone	21	U	21	3.5
74-88-4	Methyl iodide	2.1	U	2.1	0.55
75-15-0	Carbon disulfide	2.1	U	2.1	0.50
107-05-1	Allyl chloride	2.1	U	2.1	0.42
75-09-2	Methylene Chloride	2.1	U	2.1	0.35
107-13-1	Acrylonitrile	2.1	U	2.1	0.67
75-65-0	t-Butyl alcohol	210	U	210	18
156-60-5	trans-1,2-Dichloroethene	2.1	U	2.1	0.30
1634-04-4	Methyl t-butyl ether	2.1	U	2.1	0.34
75-34-3	1,1-Dichloroethane	2.1	U	2.1	0.39
156-59-2	cis-1,2-Dichloroethene	78.7		2.1	0.37
594-20-7	2,2-Dichloropropane	2.1	U	2.1	0.67
78-93-3	2-Butanone	21	U	21	0.67
107-12-0	Propionitrile	110	U	110	12
96-33-3	Methyl acrylate	2.1	U	2.1	0.55
126-98-7	Methacrylonitrile	2.1	U	2.1	0.34
74-97-5	Bromochloromethane	2.1	U	2.1	0.32
109-99-9	Tetrahydrofuran	11	U	11	2.2
67-66-3	Chloroform	2.1	U	2.1	0.36
71-55-6	1,1,1-Trichloroethane	2.1	U	2.1	0.39
109-69-3	1-Chlorobutane	2.1	U	2.1	0.42
56-23-5	Carbon tetrachloride	2.1	U	2.1	0.50
563-58-6	1,1-Dichloropropene	2.1	U	2.1	0.50
71-43-2	Benzene	2.1	U	2.1	0.42
107-06-2	1,2-Dichloroethane	2.1	U	2.1	0.39
79-01-6	Trichloroethene	18.8		2.1	0.42
78-87-5	1,2-Dichloropropane	2.1	U	2.1	0.37
74-95-3	Dibromomethane	2.1	U	2.1	0.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 DU</u>	Lab Sample ID: <u>200-24551-10 DU</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb07.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 11:06</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	2.1	U	2.1	1.1
75-27-4	Bromodichloromethane	2.1	U	2.1	0.42
79-46-9	2-Nitropropane	42	U	42	5.5
107-14-2	Chloroacetonitrile	110	U	110	17
10061-01-5	cis-1,3-Dichloropropene	2.1	U	2.1	0.50
108-10-1	4-Methyl-2-pentanone (MIBK)	11	U	11	1.3
513-88-2	1,1-Dichloro-2-propanone	42	U	42	4.6
108-88-3	Toluene	2.1	U	2.1	0.42
10061-02-6	trans-1,3-Dichloropropene	2.1	U	2.1	0.34
97-63-2	Ethyl methacrylate	2.1	U	2.1	0.31
79-00-5	1,1,2-Trichloroethane	2.1	U	2.1	0.29
127-18-4	Tetrachloroethene	2.1	U	2.1	0.37
142-28-9	1,3-Dichloropropane	2.1	U	2.1	0.42
591-78-6	2-Hexanone	11	U	11	1.7
124-48-1	Dibromochloromethane	2.1	U	2.1	0.34
106-93-4	1,2-Dibromoethane	2.1	U	2.1	0.30
108-90-7	Chlorobenzene	2.1	U	2.1	0.39
630-20-6	1,1,1,2-Tetrachloroethane	2.1	U	2.1	0.42
100-41-4	Ethylbenzene	2.1	U	2.1	0.42
179601-23-1	m&p-Xylene	2.1	U	2.1	0.84
95-47-6	o-Xylene	2.1	U	2.1	0.39
100-42-5	Styrene	2.1	U	2.1	0.32
75-25-2	Bromoform	2.1	U	2.1	0.28
98-82-8	Isopropylbenzene	2.1	U	2.1	0.42
108-86-1	Bromobenzene	2.1	U	2.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	2.1	U	2.1	0.33
96-18-4	1,2,3-Trichloropropane	2.1	U	2.1	0.42
110-57-6	trans-1,4-Dichloro-2-butene	2.1	U	2.1	0.50
103-65-1	n-Propylbenzene	2.1	U	2.1	0.42
95-49-8	2-Chlorotoluene	2.1	U	2.1	0.42
106-43-4	4-Chlorotoluene	2.1	U	2.1	0.42
108-67-8	1,3,5-Trimethylbenzene	2.1	U	2.1	0.42
98-06-6	tert-Butylbenzene	2.1	U	2.1	0.37
76-01-7	Pentachloroethane	2.1	U	2.1	0.37
95-63-6	1,2,4-Trimethylbenzene	2.1	U	2.1	0.42
135-98-8	sec-Butylbenzene	2.1	U	2.1	0.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 DU</u>	Lab Sample ID: <u>200-24551-10 DU</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb07.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 11:06</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	2.1	U	2.1	0.46
99-87-6	p-Isopropyltoluene	2.1	U	2.1	0.38
106-46-7	1,4-Dichlorobenzene	2.1	U	2.1	0.42
95-50-1	1,2-Dichlorobenzene	2.1	U	2.1	0.34
104-51-8	n-Butylbenzene	2.1	U	2.1	0.55
67-72-1	Hexachloroethane	2.1	U	2.1	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	2.1	U	2.1	0.42
98-95-3	Nitrobenzene	110	U	110	15
108-70-3	1,3,5-Trichlorobenzene	2.1	U	2.1	0.42
120-82-1	1,2,4-Trichlorobenzene	2.1	U	2.1	0.35
87-68-3	Hexachlorobutadiene	2.1	U	2.1	0.37
91-20-3	Naphthalene	2.1	U	2.1	0.26
87-61-6	1,2,3-Trichlorobenzene	2.1	U	2.1	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 DU</u>	Lab Sample ID: <u>200-24551-10 DU</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb07.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 11:06</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 TRL</u>	Lab Sample ID: <u>200-24551-10 TRL</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb09.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 12:11</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	2.1	U	2.1	0.38
74-87-3	Chloromethane	2.1	U	2.1	0.50
75-01-4	Vinyl chloride	2.1	U	2.1	0.32
74-83-9	Bromomethane	2.1	U	2.1	0.84
75-00-3	Chloroethane	2.1	U	2.1	0.92
75-69-4	Trichlorofluoromethane	2.1	U	2.1	0.42
60-29-7	Diethyl ether	2.1	U	2.1	0.28
75-35-4	1,1-Dichloroethene	2.1	U	2.1	0.31
67-64-1	Acetone	21	U	21	3.5
74-88-4	Methyl iodide	2.1	U	2.1	0.55
75-15-0	Carbon disulfide	2.1	U	2.1	0.50
107-05-1	Allyl chloride	2.1	U	2.1	0.42
75-09-2	Methylene Chloride	2.1	U	2.1	0.35
107-13-1	Acrylonitrile	2.1	U	2.1	0.67
75-65-0	t-Butyl alcohol	210	U	210	18
156-60-5	trans-1,2-Dichloroethene	2.1	U	2.1	0.30
1634-04-4	Methyl t-butyl ether	2.1	U	2.1	0.34
75-34-3	1,1-Dichloroethane	2.1	U	2.1	0.39
156-59-2	cis-1,2-Dichloroethene	75.6		2.1	0.37
594-20-7	2,2-Dichloropropane	2.1	U	2.1	0.67
78-93-3	2-Butanone	21	U	21	0.67
107-12-0	Propionitrile	110	U	110	12
96-33-3	Methyl acrylate	2.1	U	2.1	0.55
126-98-7	Methacrylonitrile	2.1	U	2.1	0.34
74-97-5	Bromochloromethane	2.1	U	2.1	0.32
109-99-9	Tetrahydrofuran	11	U	11	2.2
67-66-3	Chloroform	2.1	U	2.1	0.36
71-55-6	1,1,1-Trichloroethane	2.1	U	2.1	0.39
109-69-3	1-Chlorobutane	2.1	U	2.1	0.42
56-23-5	Carbon tetrachloride	2.1	U	2.1	0.50
563-58-6	1,1-Dichloropropene	2.1	U	2.1	0.50
71-43-2	Benzene	2.1	U	2.1	0.42
107-06-2	1,2-Dichloroethane	2.1	U	2.1	0.39
79-01-6	Trichloroethene	17.4		2.1	0.42
78-87-5	1,2-Dichloropropane	2.1	U	2.1	0.37
74-95-3	Dibromomethane	2.1	U	2.1	0.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 TRL</u>	Lab Sample ID: <u>200-24551-10 TRL</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb09.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 12:11</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	2.1	U	2.1	1.1
75-27-4	Bromodichloromethane	2.1	U	2.1	0.42
79-46-9	2-Nitropropane	42	U	42	5.5
107-14-2	Chloroacetonitrile	110	U	110	17
10061-01-5	cis-1,3-Dichloropropene	2.1	U	2.1	0.50
108-10-1	4-Methyl-2-pentanone (MIBK)	11	U	11	1.3
513-88-2	1,1-Dichloro-2-propanone	42	U	42	4.6
108-88-3	Toluene	2.1	U	2.1	0.42
10061-02-6	trans-1,3-Dichloropropene	2.1	U	2.1	0.34
97-63-2	Ethyl methacrylate	2.1	U	2.1	0.31
79-00-5	1,1,2-Trichloroethane	2.1	U	2.1	0.29
127-18-4	Tetrachloroethene	2.1	U	2.1	0.37
142-28-9	1,3-Dichloropropane	2.1	U	2.1	0.42
591-78-6	2-Hexanone	11	U	11	1.7
124-48-1	Dibromochloromethane	2.1	U	2.1	0.34
106-93-4	1,2-Dibromoethane	2.1	U	2.1	0.30
108-90-7	Chlorobenzene	2.1	U	2.1	0.39
630-20-6	1,1,1,2-Tetrachloroethane	2.1	U	2.1	0.42
100-41-4	Ethylbenzene	2.1	U	2.1	0.42
179601-23-1	m&p-Xylene	2.1	U	2.1	0.84
95-47-6	o-Xylene	2.1	U	2.1	0.39
100-42-5	Styrene	2.1	U	2.1	0.32
75-25-2	Bromoform	2.1	U	2.1	0.28
98-82-8	Isopropylbenzene	2.1	U	2.1	0.42
108-86-1	Bromobenzene	2.1	U	2.1	0.35
79-34-5	1,1,2,2-Tetrachloroethane	2.1	U	2.1	0.33
96-18-4	1,2,3-Trichloropropane	2.1	U	2.1	0.42
110-57-6	trans-1,4-Dichloro-2-butene	2.1	U	2.1	0.50
103-65-1	n-Propylbenzene	2.1	U	2.1	0.42
95-49-8	2-Chlorotoluene	2.1	U	2.1	0.42
106-43-4	4-Chlorotoluene	2.1	U	2.1	0.42
108-67-8	1,3,5-Trimethylbenzene	2.1	U	2.1	0.42
98-06-6	tert-Butylbenzene	2.1	U	2.1	0.37
76-01-7	Pentachloroethane	2.1	U	2.1	0.37
95-63-6	1,2,4-Trimethylbenzene	2.1	U	2.1	0.42
135-98-8	sec-Butylbenzene	2.1	U	2.1	0.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Client Sample ID: PW-52 TRL Lab Sample ID: 200-24551-10 TRL
Matrix: Water Lab File ID: lkrb09.d
Analysis Method: 524.2 Date Collected: 10/01/2014 09:54
Sample wt/vol: 5(mL) Date Analyzed: 10/14/2014 12:11
Soil Aliquot Vol: _____ Dilution Factor: 4.2
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 78697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
541-73-1	1,3-Dichlorobenzene	2.1	U	2.1	0.46
99-87-6	p-Isopropyltoluene	2.1	U	2.1	0.38
106-46-7	1,4-Dichlorobenzene	2.1	U	2.1	0.42
95-50-1	1,2-Dichlorobenzene	2.1	U	2.1	0.34
104-51-8	n-Butylbenzene	2.1	U	2.1	0.55
67-72-1	Hexachloroethane	2.1	U	2.1	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	2.1	U	2.1	0.42
98-95-3	Nitrobenzene	110	U	110	15
108-70-3	1,3,5-Trichlorobenzene	2.1	U	2.1	0.42
120-82-1	1,2,4-Trichlorobenzene	2.1	U	2.1	0.35
87-68-3	Hexachlorobutadiene	2.1	U	2.1	0.37
91-20-3	Naphthalene	2.1	U	2.1	0.26
87-61-6	1,2,3-Trichlorobenzene	2.1	U	2.1	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-24551-1</u>
SDG No.: <u>A8091390 (200-24551)</u>	
Client Sample ID: <u>PW-52 TRL</u>	Lab Sample ID: <u>200-24551-10 TRL</u>
Matrix: <u>Water</u>	Lab File ID: <u>lkrb09.d</u>
Analysis Method: <u>524.2</u>	Date Collected: <u>10/01/2014 09:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/14/2014 12:11</u>
Soil Aliquot Vol: <u> </u>	Dilution Factor: <u>4.2</u>
Soil Extract Vol.: <u> </u>	GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>
% Moisture: <u> </u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>78697</u>	Units: <u>ug/L</u>
Number TICs Found: <u>1</u>	TIC Result Total: <u>2.63</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	4.62	2.63	J

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-24551-1
SDG No.: A8091390 (200-24551)
Instrument ID: L.i Start Date: 10/10/2014 15:14
Analysis Batch Number: 78579 End Date: 10/10/2014 20:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-78579/1		10/10/2014 15:14	1	lkr01.d	DB-624 0.53 (mm)
ZZZZZ		10/10/2014 15:27	1		DB-624 0.53 (mm)
ZZZZZ		10/10/2014 16:00	1		DB-624 0.53 (mm)
IC 200-78579/4		10/10/2014 16:32	1	lkr04.d	DB-624 0.53 (mm)
ICIS 200-78579/5		10/10/2014 17:05	1	lkr05.d	DB-624 0.53 (mm)
IC 200-78579/6		10/10/2014 17:37	1	lkr06.d	DB-624 0.53 (mm)
IC 200-78579/7		10/10/2014 18:10	1	lkr07.d	DB-624 0.53 (mm)
IC 200-78579/8		10/10/2014 18:43	1	lkr08.d	DB-624 0.53 (mm)
VIBLK 200-78579/9		10/10/2014 19:15	1		DB-624 0.53 (mm)
VIBLK 200-78579/10		10/10/2014 19:48	1		DB-624 0.53 (mm)
VIBLK 200-78579/11		10/10/2014 20:20	1		DB-624 0.53 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-24551-1SDG No.: A8091390 (200-24551)Instrument ID: L.iStart Date: 10/13/2014 08:47Analysis Batch Number: 78664End Date: 10/13/2014 20:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-78664/1		10/13/2014 08:47	1	lkra01.d	DB-624 0.53 (mm)
CCVIS 200-78664/2		10/13/2014 09:00	1	lkra02.d	DB-624 0.53 (mm)
ICV 200-78664/3		10/13/2014 09:32	1	lkra03.d	DB-624 0.53 (mm)
LCS 200-78664/4		10/13/2014 10:05	1	lkra04.d	DB-624 0.53 (mm)
MB 200-78664/5		10/13/2014 10:37	1	lkra05.d	DB-624 0.53 (mm)
200-24551-1	TRIP BLANK	10/13/2014 11:09	1	lkra06.d	DB-624 0.53 (mm)
200-24551-10	PW-52	10/13/2014 11:42	1	lkra07.d	DB-624 0.53 (mm)
ZZZZZ		10/13/2014 12:14	1		DB-624 0.53 (mm)
VIBLK 200-78664/9		10/13/2014 12:47	1		DB-624 0.53 (mm)
200-24551-11	PW-53	10/13/2014 13:19	1	lkra10.d	DB-624 0.53 (mm)
200-24551-12	DUP	10/13/2014 13:52	1	lkra11.d	DB-624 0.53 (mm)
ZZZZZ		10/13/2014 14:24	1		DB-624 0.53 (mm)
ZZZZZ		10/13/2014 14:57	1		DB-624 0.53 (mm)
ZZZZZ		10/13/2014 15:30	1		DB-624 0.53 (mm)
ZZZZZ		10/13/2014 16:02	1		DB-624 0.53 (mm)
ZZZZZ		10/13/2014 16:34	1		DB-624 0.53 (mm)
ZZZZZ		10/13/2014 17:07	1		DB-624 0.53 (mm)
ZZZZZ		10/13/2014 17:39	1		DB-624 0.53 (mm)
ZZZZZ		10/13/2014 18:12	1		DB-624 0.53 (mm)
ZZZZZ		10/13/2014 18:44	1		DB-624 0.53 (mm)
ZZZZZ		10/13/2014 19:17	1		DB-624 0.53 (mm)
VIBLK 200-78664/19		10/13/2014 19:49	1		DB-624 0.53 (mm)
VIBLK 200-78664/20		10/13/2014 20:22	1		DB-624 0.53 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-24551-1SDG No.: A8091390 (200-24551)Instrument ID: L.iStart Date: 10/14/2014 08:10Analysis Batch Number: 78697End Date: 10/14/2014 19:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-78697/1		10/14/2014 08:10	1	lkrb01.d	DB-624 0.53 (mm)
ZZZZZ		10/14/2014 08:23	1		DB-624 0.53 (mm)
CCVIS 200-78697/3		10/14/2014 08:56	1	lkrb03.d	DB-624 0.53 (mm)
LCS 200-78697/4		10/14/2014 09:28	1	lkrb04.d	DB-624 0.53 (mm)
MB 200-78697/5		10/14/2014 10:01	1	lkrb05.d	DB-624 0.53 (mm)
200-24551-10 DL	PW-52 DL	10/14/2014 10:33	4.2	lkrb06.d	DB-624 0.53 (mm)
200-24551-10 DU	PW-52 DU	10/14/2014 11:06	4.2	lkrb07.d	DB-624 0.53 (mm)
200-24551-10 MS	PW-52 MS	10/14/2014 11:38	4.2	lkrb08.d	DB-624 0.53 (mm)
200-24551-10 TRL	PW-52 TRL	10/14/2014 12:11	4.2	lkrb09.d	DB-624 0.53 (mm)
ZZZZZ		10/14/2014 12:44	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 13:17	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 13:49	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 14:22	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 14:55	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 15:27	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 16:00	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 16:33	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 17:05	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 17:38	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 18:10	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 18:43	1		DB-624 0.53 (mm)
ZZZZZ		10/14/2014 19:15	1		DB-624 0.53 (mm)