

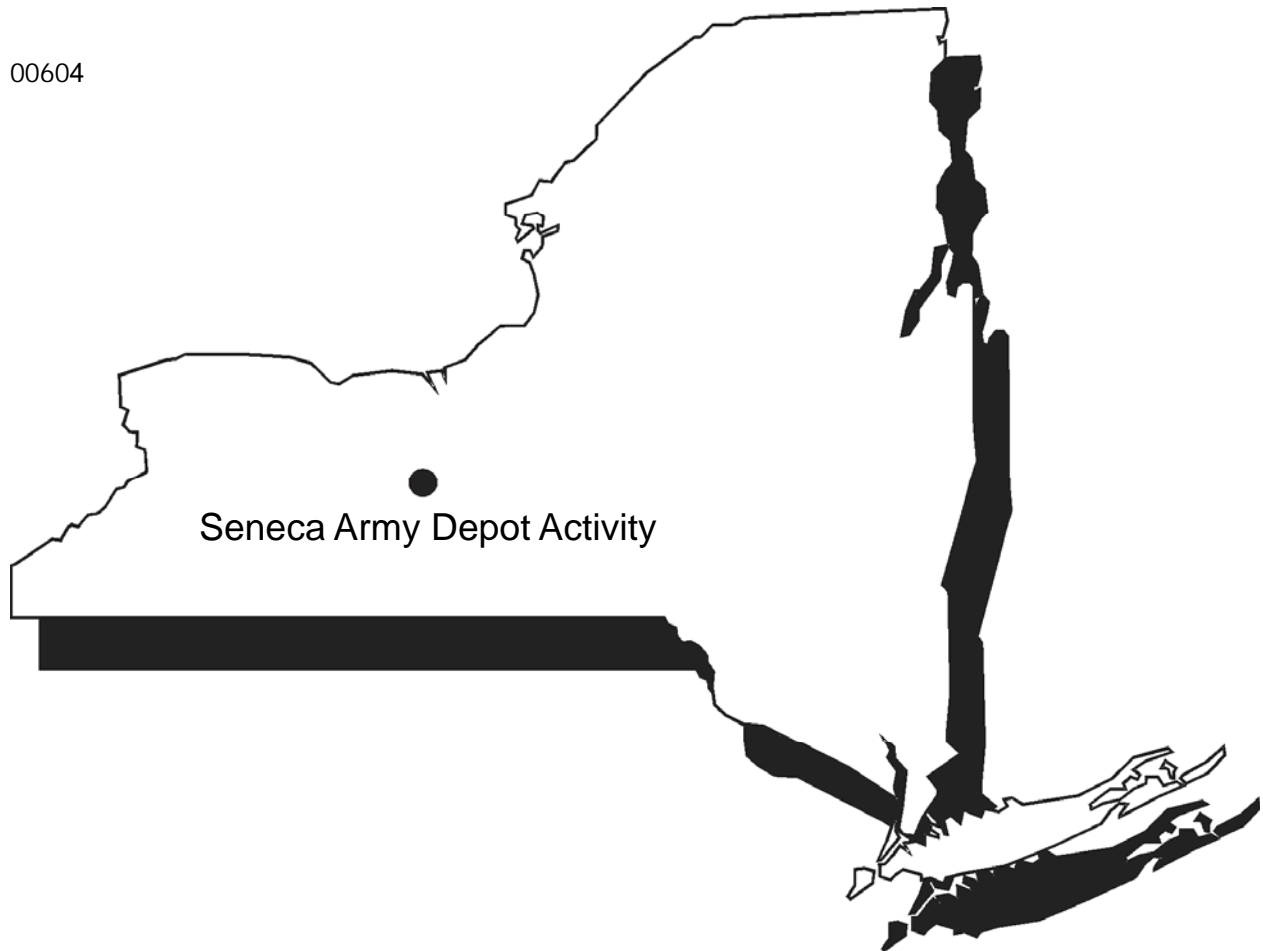


US Army, Engineering & Support Center
Huntsville, AL



Seneca Army Depot Activity
Romulus, NY

00604



DRAFT

2015 ANNUAL LONG-TERM MONITORING REPORT

FIRE TRAINING AND DEMONSTRATION PAD (SEAD-25)

SENECA ARMY DEPOT ACTIVITY

Contract No. W912DY-08-D-0003

Task Order No. 0015

EPA Site ID# NY0213820830

NY Site ID# 8-50-006

PARSONS

August 2015

DRAFT
2015 ANNUAL LONG-TERM MONITORING REPORT

FOR THE FIRE TRAINING AND DEMONSTRATION PAD (SEAD-25)
SENECA ARMY DEPOT ACTIVITY, ROMULUS, NEW YORK

Prepared for:

U.S. ARMY, ENGINEERING & SUPPORT CENTER, HUNTSVILLE
4820 UNIVERSITY SQUARE
HUNTSVILLE, AL 35816

and

SENECA ARMY DEPOT ACTIVITY
ROMULUS, NEW YORK

Prepared by:

PARSONS
100 High Street
Boston, MA 02110

Contract Number W912DY-08-D-0003
Task Order No. 0015
EPA Site ID# NY0213820830
NY Site ID# 8-50-006

August 2015

TABLE OF CONTENTS

List of Tables	ii
List of Figures	ii
List of Appendices	iii
1.0 INTRODUCTION	1
2.0 SITE BACKGROUND	2
2.1 Site Description.....	2
2.2 Soil and Groundwater Impacts.....	3
2.3 Summary of the Remedial Action.....	4
2.4 Natural Attenuation Process Evaluation	4
2.5 Well Decommissioning.....	6
2.6 Land Use Control Inspection	6
3.0 LONG-TERM MONITORING RESULTS	7
3.1 2015 Sampling Event.....	7
3.2 Groundwater Elevations	7
3.3 Analytical Data Summary	8
3.3.1 2015 LTM Results	8
3.3.2 SEAD-25 LTM Analytical Summary	9
3.4 Data Trends and Natural Attenuation Evaluation	11
3.4.1 General Data Trends (VOCs)	11
3.4.2 General Data Trends (Geochemical and Field Indicator Parameters)	11
3.4.3 Data Trend Summary.....	12
4.0 REMEDY EVALUATION.....	14
5.0 LONG-TERM MONITORING CONCLUSIONS AND RECOMMENDATIONS	15
5.1 Conclusions.....	15
5.2 Recommendations.....	15

LIST OF TABLES

Table 1	Summary of SEAD-25 Long-Term Monitoring Events
Table 2	Monitoring Well Locations
Table 3	SEAD-25 Groundwater Elevation Data
Table 4	SEAD-25 Primary COC Concentrations in Groundwater (Event 12)
Table 5	Summary of SEAD-25 Geochemical Parameters

LIST OF FIGURES

Figure 1	SEDA Location Map
Figure 2	SEDA Site Map and AOC Location
Figure 3	SEAD-25 Site Plan
Figure 4A	SEAD-25 Groundwater Elevations - Northern Profile
Figure 4B	SEAD-25 Groundwater Elevations - Southern Profile
Figure 5	SEAD-25 Groundwater Contours for the Till/Weathered Shale Saturated Zone – March 2015
Figure 6	VOCs Detected in Groundwater at SEAD-25
Figure 7A	Concentrations of BTEX over Time at MW25-2
Figure 7B	Concentrations of BTEX over Time at MW25-3
Figure 7C	Concentrations of BTEX over Time at MW25-9
Figure 8A	Chlorinated VOC COC Concentrations at MW25-2
Figure 8B	Chlorinated VOC COC Concentrations at MW25-3
Figure 8C	Chlorinated VOC COC Concentrations at MW25-9
Figure 9A	Concentrations of Detected COCs in MW25-2
Figure 9A(b)	Concentrations of Detected COCs in MW25-2
Figure 9B	Concentrations of Detected COCs in MW25-3
Figure 9C	Concentrations of Detected COCs in MW25-9

LIST OF APPENDICES

- A Long-Term Monitoring Event 2015 Field Forms
- B Long-Term Monitoring Event 2015 Laboratory Reports (provided on enclosed CD)
- C Historic Groundwater Elevations (Events 1 through 12)
- D Complete LTM Groundwater Analytical Data (Events 1 through 12)
- E Long-Term Monitoring Event 2015 Data Validation Sheets

1.0 INTRODUCTION

This report provides a review of the calendar year (CY) 2015 (Event 12) long-term groundwater monitoring (LTM) sampling event conducted at the Fire Training and Demonstration Pad (SEAD-25) at the Seneca Army Depot Activity (SEDA or Depot) in Seneca County, New York in March 2015. This document also provides recommendations for future LTM and a review of the effectiveness of the remedy implemented at SEAD-25 in 2005. This report has been issued by Parsons Government Services Inc. (Parsons) on behalf of the U.S. Army (Army), Engineering and Support Center, Huntsville and the Seneca Army Depot Activity.

In accordance with the *Record of Decision (ROD) for the Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area (SEAD-26)* (Parsons, 2004) and the *Final Remedial Design Work Plan and Design Report (RDR) for the Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area (SEAD-26)* (Parsons, 2005), a Remedial Action (RA) was completed in November 2005 for both area of concerns (AOCs), and the results of the actions were documented in the *Construction Completion Report for SEAD-25 and SEAD-26, Final (CCR)* (Parsons, 2006). The SEAD-25 RA involved the removal of approximately 1,722 cubic yards (cy) of soil and sediment impacted by volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) at SEAD-25. Groundwater monitoring at SEAD-26 was terminated by the Army, with the approval of the Environmental Protection Agency (EPA) and the New York State Department of Environmental Conservation (NYSDEC), after the first year of sampling and analysis indicated that no COCs were present in the groundwater at concentrations above defined cleanup goals.

Long-term groundwater monitoring is being performed at SEAD-25 as part of the continuing post-closure monitoring and maintenance (PCMM) operations as described in the RDR. Groundwater monitoring was required at the AOC as a condition of the ROD since contaminant concentrations found in the groundwater at the AOCs prior to the RA exceeded applicable groundwater standards. Semi-annual groundwater monitoring of the ten monitoring wells (MW25-2, MW25-3, MW25-8, MW25-9, MW25-10, MW25-13, MW25-15, MW25-17, MW25-18, and MW25-19) located at SEAD-25 continued through 2013. The EPA and NYSDEC agreed, as recommended in the *SEAD-25 Fourth Long-Term Monitoring and Site Review Report* (Parsons, 2011) and *Draft Final Five-Year Review Report* (Parsons, 2012), to reduce the frequency of the semi-annual monitoring events to annual monitoring events. It was also agreed to reduce the number of wells to be monitored from ten to five since the down-gradient wells have shown no COCs during any of the post-RA sampling events. Beginning in 2014, the focus of the sampling effort is on wells MW25-2, MW25-3, MW25-9, MW25-10 and MW25-17 where historic information indicates that COCs of interest were detected.

Table 1 presents a summary of the historic LTM sampling and analysis events that were conducted at SEAD-25 since the completion of the RA activities. Twelve (12) LTM sampling events, including the most current event completed in the first quarter of 2015(2015Q1), were conducted at SEAD-25 since the completion of the RA at the site in late 2005. This *2015 Long-Term Monitoring Report* provides the details of LTM activities conducted during the annual LTM event in March 2015. This Report also provides an overall summary of the data collected at SEAD-25 since LTM began in late 2005.

2.0 SITE BACKGROUND

2.1 Site Description

The Seneca Army Depot is a 10,587-acre former military facility located in Seneca County in the towns of Romulus and Varick, New York, which was owned by the United States Government and operated by the Department of the Army between 1941 and 2000. The general location of the SEDA is shown on **Figure 1**. In 1999, SEDA's military mission was terminated and the installation was closed in 2000. Since 2000, the Army has assumed a caretaker role at the SEDA, pending the close-out of environmental investigations, studies, and remedial activities that are required at the former facility. As part of SEDA close-out activities, more than 8,250 acres of land within the former Depot was transferred to new owners for reuse.

The Seneca Army Depot is located between Seneca Lake and Cayuga Lake in Seneca County and is bordered by New York State Highway 96 on the east, New York State Highway 96A on the west, and sparsely populated farmland to the north and south. The Fire Training and Demonstration Pad (SEAD-25) is located in the east-central portion of SEDA. The site is bounded to the east by Administration Avenue, beyond which is undeveloped land covered by deciduous trees; to the south by Ordnance Drive beyond which is an open grassy field and a stand of coniferous trees; to the west by a drainage ditch running from the northeast to the southwest with grassland, brush and conifers between the site and the ditch; and, to the north by grassland and a former baseball field. A site map of the SEAD-25 area and its location within the SEDA is included as **Figure 2**. As situated, SEAD-25 sits a minimum of 1,350 feet away from the nearest SEDA boundary, which is located to the east of the AOC. A more detailed site map of SEAD-25 is provided as **Figure 3**. SEAD-25 was in use from the late 1960s to the late 1980s. The former pad was used for fire control training. During the 1980s, the pad was used twice for fire-fighting demonstrations, including one demonstration in 1982 or 1983, and one in 1987.

Site Hydrologic and Geologic Conditions

The hydrogeologic setting for SEAD-25 was previously described in detail in Section 3.1.6 of the *Final RI Report*¹ (RI Report) dated May 1998. A brief summary of hydrologic conditions described in the RI Report and historical groundwater conditions encountered during previous sampling events is presented below. Hydrologic conditions as observed during the 2015 LTM event are discussed in **Section 3.1** of this Report. Groundwater contours presented in the RI Report indicate that shallow groundwater flow below the pad is radial, with a stronger horizontal gradient to the south and west. The radial groundwater flow observed below the pad at SEAD-25 is believed to be a local phenomenon influenced by a bedrock topographic high located beneath the pad. The RI Report identified a west and southwest direction of groundwater flow in the deeper, competent shale bedrock.

The horizontal hydraulic gradients as presented in the RI Report ranged from 0.01 feet per foot (ft/ft) to 0.02 ft/ft in both the shallow saturated zone located in the till/weathered shale bedrock and in the deep saturated zone located in the competent shale bedrock. The hydraulic conductivities at SEAD-25 were found to range

¹ *Remedial Investigation Report for the Fire Training and Demonstration Pad (SEAD-25) and the Fire Training Pit and Area (SEAD-26), Seneca Army Depot Activity, Parsons Engineering Science, Inc., May 1998*

from 1.0×10^{-5} centimeters per second (cm/sec) to 3.4×10^{-3} cm/sec, with an average of 6.1×10^{-4} cm/sec in the shale/weathered bedrock. Both downward and upward vertical gradients were calculated for SEAD-25; the downward hydraulic gradients ranged from -0.04 ft/ft to -0.21 ft/ft, and upward hydraulic gradients ranged from 0.01 ft/ft to 0.07 ft/ft.

SEAD-25 is located very near a combined topographic and bedrock high within the east central portion of the former Depot. As such, all recharge to the local groundwater table comes from infiltration of storm-event precipitation which originates down through the surface into the underlying aquifer at, and in very close proximity to, the AOC. Infiltration rates are hindered because much of the storm-event precipitation is captured in neighboring drainage ditches and is conveyed to lower elevation areas within the Depot, which are down-gradient of the AOC's well recharge area.

The shallow overburden underlying SEAD-25 is thin, consisting of a till and fractured shale ranging from roughly 5 to 15 feet in thickness, which overlies competent shale bedrock. The monitoring wells sampled as part of SEAD-25 LTM effort are located in the shallow, overburden aquifer where the groundwater contamination was originally identified. As such, the combination of run-off and low infiltration or aquifer recharge periods that occur during extended dry or low water periods cause the overburden water table to thin to levels where samples cannot be collected from many of the wells and historically has not allowed a strict adherence to a semi-annual sampling schedule. This affects the collection of samples from one or more of the three source wells (MW25-2, MW25-3, and MW25-9). These wells are located closest to the former source area that was removed during the 2005 RA activities and historically have shown elevated levels of BTEX (i.e., benzene, toluene, ethyl benzene, and total xylenes) and chlorinated organic compound content.

2.2 Soil and Groundwater Impacts

As described in the RI Report, the primary COCs historically observed at SEAD-25 included aromatic VOCs (benzene, toluene, ethyl benzene, and total xylenes) in soil and groundwater and lesser amounts of five chlorinated VOCs, including 1,1,1-trichloroethane, 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethene (total) (1,2-DCE), chloroform, and trichloroethene (TCE), in groundwater. Vinyl chloride (VC), a degradation product of TCE and 1,2-DCE, was identified above its cleanup goal ($2.0 \mu\text{g/L}$) at a concentration of $2.6 \mu\text{g/L}$ in MW25-2 during event 8 LTM and thus is included in the list of COCs at the site.

The pre-remedial action impacts from BTEX compounds occurred at three soil sample locations (SB25-3, SB25-4, and SB25-5) clustered together in the western half of the pad. The vertical impacts extended from the land surface to a depth of 4 to 6 feet below ground surface (bgs), which corresponds approximately to the top of competent bedrock (encountered at approximately 4.5 feet bgs during the RA). The highest concentrations of BTEX were detected at soil boring SB25-5, measuring 15,810 micrograms per kilogram ($\mu\text{g/kg}$), 151,500 $\mu\text{g/kg}$, and 10,200 $\mu\text{g/kg}$ at depth intervals of 0-2 feet, 2-4 feet, and 4-6 feet bgs, respectively. Lower concentrations of BTEX were detected in the surface soil at sample locations SB25-3 (5,410 $\mu\text{g/kg}$) and at SB25-4 (2,900 $\mu\text{g/kg}$), respectively.

Impacts to soil located in the adjacent drainage swales at SEAD-25 were also noted and were mainly associated with SVOCs, pesticides, and heavy metals. The most significant impacts from SVOCs and metals were found in the drainage swale northwest of the pad. In the ditch that runs along the west side of Administration Ave where it turns west along Ordnance Drive, the most significant SVOC impact was found in a single upgradient location. No COCs were identified in SEAD-25 surface water in concentrations that indicated remediation was required, and therefore remediation of surface water was not performed.

Based on the Final RI results, the primary groundwater impact was associated with two overlapping VOC plumes located in the overburden, both of which originated in the southwestern portion of the Fire Training and Demonstration Pad near the locations of the contaminated soil. Chlorinated ethenes and BTEX constituents were not detected in any of the bedrock wells at SEAD-25. The primary plume observed during the RI measured approximately 200 feet long and was composed of aromatic hydrocarbon compounds that are typically associated with gasoline (i.e., BTEX). The maximum concentration of total BTEX detected in the groundwater during the RI was 6,220 micrograms per liter ($\mu\text{g/L}$) at well MW25-2. During the Expanded Site Investigation (ESI) (Parsons, December 1995), the maximum concentration of total chlorinated organics ($96 \mu\text{g/L}$) was also detected at well MW25-2.

2.3 Summary of the Remedial Action

The excavation of the BTEX-impacted soil at the SEAD-25 pad began on November 15, 2005 and was completed on December 1, 2005, with soil removal totaling approximately 961 cy. The depth of excavation extended to the top of the competent shale bedrock, or approximately 4.5 feet bgs. Ten confirmatory soil samples (plus one duplicate sample) were collected from the sidewalls of the excavation area and analyzed for VOCs and SVOCs. The analytical results of the confirmatory soil sample analyses achieved the site-specific cleanup goals, and the Army determined that soils at SEAD-25 did not require further action. The EPA and NYSDEC concurred with this determination that the excavation of the soil at the pad removed the source of groundwater contamination.

Excavation of the SVOC-impacted soil in the swale at SEAD-25 began on November 7, 2005 and was completed on November 8, 2005. The soil excavation extended to bedrock from the toe of slope on one bank to the toe of slope on the other bank, resulting in the removal and off-site disposal of approximately 761 cy of soil from SEAD-25. After the excavation, the swale bottom consisted of exposed competent bedrock, and since no native overburden soil remained in the swale, no confirmatory samples were collected or analyzed.

A total of approximately 1,722 cy (approximately 2,600 tons) of soil were excavated from the pad and the swale at SEAD-25 and disposed off-site at Ontario County Landfill. The pad excavation was backfilled with approximately 793 cy of on-site fill material and 168 cy of fill material obtained from an off-site source, and restored to the existing grade.

2.4 Natural Attenuation Process Evaluation

One of the purposes of long-term groundwater monitoring at SEAD-25 is to show that continued natural attenuation of the groundwater plume is occurring. This section gives a brief overview of the natural

attenuation process and how the process can be evaluated. Numerous natural processes contribute to the reduction in dissolved phase contaminant concentrations over distance and time and are referred to as natural attenuation. These processes include sorption, dilution, dispersion, volatilization, and biodegradation. Of these, biodegradation is of primary interest because this process destroys the contaminant, and because at many sites, it is the primary attenuation mechanism. The EPA's *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* (USEPA, 1998) can be used as guidance to determine if natural attenuation is occurring at SEAD-25.

Numerous laboratory and field studies have shown that many organic compounds are readily biodegraded via naturally occurring processes. Benzene and other petroleum hydrocarbons biodegrade readily under aerobic (oxygen-rich) conditions and have also been shown at multiple sites to biodegrade under anaerobic (oxygen-poor) conditions. Chlorinated ethenes biodegrade under anaerobic conditions through a process referred to as reductive dechlorination. Some chlorinated ethenes can also be biodegraded via direct aerobic oxidation (aerobic conditions).

Geochemical data including potential electron acceptors, biodegradation byproducts, and related analytes can be used as an indirect measure to show that organic compounds are biodegrading in saturated soil and groundwater. Depressed concentrations, when compared to background levels, of electron acceptors such as nitrate, oxygen, and sulfate that are used by microorganisms to facilitate the oxidation of VOCs within groundwater are geochemical indicators that VOCs are biodegrading. Similarly, elevated concentrations of biodegradation byproducts, such as iron II (Fe 2+), in groundwater are also geochemical indicators that compounds are biodegrading. Depressed oxidation/reduction potential (ORP) may also indicate the occurrence of biodegradation.

Biodegradation of chlorinated organics requires the presence of natural or anthropogenic carbon to create the conditions (anaerobic, low redox potential) necessary to stimulate reductive dechlorination of the more chlorinated solvents such as tetrachloroethene or perchloroethene (PCE) and TCE. Daughter products of these compounds (dichloroethene, or DCE; and VC) can be reductively dechlorinated under reducing conditions or directly oxidized under aerobic (oxidizing) conditions. Therefore, indicators of conditions appropriate for chlorinated biodegradation includes those parameters, such as methane, already identified for petroleum biodegradation and the presence of chlorinated daughter products and chloride. It should be noted, however, that the presence of road salt applied during the winter months may interfere with chloride data interpretation. The most common road salt is sodium chloride (NaCl), other commonly used road salt include calcium chloride (CaCl) and potassium chloride (KCl). Chloride ions are very soluble and mobile and can enter the groundwater by infiltration or surface water runoff.

Trends in natural attenuation parameters are more evident when higher concentrations of contaminants are present to naturally attenuate. At SEAD-25, trends in natural attenuation parameters are difficult to interpret since the contaminant concentrations are low, and have remained this way since the completion of the RA.

2.5 Well Decommissioning

The shallow saturated zone monitoring well MW25-11 and six deep saturated zone monitoring wells (MW25-4D, MW25-5D, MW25-7D, MW25-12D, MW25-14D, and MW25-16D) at SEAD-25 were removed in September 2010 as part of a SEDA-wide well decommissioning project; information pertinent to the well decommissioning project is provided in the *Final Well Decommissioning Report* (Parsons, 2013). The location of decommissioned and existing SEAD-25 monitoring wells, including latitude/longitude and northing/easting coordinates, and well elevation information, are provided in **Table 2**.

2.6 Land Use Control Inspection

SEAD-25 was inspected during the 2015 LTM event for compliance with the Land Use Control (LUC) restrictions that are in effect for AOCs located within the Planned Industrial/ Office Development (PID) and Warehouse Area at the former Depot. Land Use Controls for the PID/Warehouse Area implement and maintain requirements to:

- Prohibit the development and use of property for residential housing, elementary and secondary schools, childcare facilities, and playgrounds; and
- Prohibit access to or use of the groundwater, other than for monitoring purposes, until the applicable NYSDEC Class GA Groundwater Standards are met.

No residential housing units, elementary or secondary schools, childcare facilities or playgrounds were observed at SEAD-25. The 12 LTM groundwater monitoring wells were identified at SEAD-25 during the site visit. As discussed previously, many of the wells on the SEAD-25 site were decommissioned in September 2010.

3.0 LONG-TERM MONITORING RESULTS

3.1 2015 Sampling Event

The 2015 sampling event was completed at SEAD-25 between March 16 and March 18, 2015. Field forms documenting the collection of groundwater samples are provided in **Appendix A**. Groundwater laboratory analytical reports for this event are provided on a CD as **Appendix B**. Sampling procedures, sample handling and custody, holding times, and collection of field parameters were conducted in accordance with the *Final Sampling and Analysis Plan for Seneca Army Depot Activity* (SAP) (Parsons, 2005).

Water level measurements were collected from the 12 monitoring wells at SEAD-25; however, as discussed above, only five wells (MW25-2, MW25-3, MW25-9, MW25-10 and MW25-17) were sampled. Groundwater samples were collected using low-flow sampling techniques and were analyzed for VOCs and natural attenuation parameters. A low-flow bladder pump was used to purge wells; following purging, samples were collected from each of the five wells for analysis of VOCs, sulfate, nitrate/nitrite, chloride, sodium, iron, methane, ethane, and ethene (MEE). Samples were submitted to TestAmerica in Savannah, Georgia. Analytes and analysis methods used are summarized below:

- VOCs - EPA SW846 Method 8260B
- MEE - RSK-175
- Nitrate and Nitrite - EPA Method 353.2
- Chloride - EPA Method 300.0
- Sulfate - EPA Method 300.0
- Iron - EPA SW846 Method 6010C
- Sodium -EPA SW846 Method 6010C

Analytical results reported for the primary COCs (i.e., BTEX, and five chlorinated VOCs) and other detected VOCs were compared to New York State GA groundwater standards. Results of the other analyses conducted were used to assess if there is evidence that natural attenuation is occurring.

The following indicator and geochemical parameters were measured and recorded in the field:

- Sulfide
- Dissolved oxygen
- Temperature
- Turbidity
- pH
- Conductivity
- ORP

Indicator parameters including pH, ORP, conductivity, temperature, and turbidity of the groundwater were measured with a Horiba model U-52 water quality meter and dissolved oxygen (DO) content was measured with a YSI Inc. (YSI) model 85 DO Meter. Sulfide concentration was measured in the field using a Hach® colorimeter test at well locations. Indicator parameters were collected at all five wells (**Table 5**).

3.2 Groundwater Elevations

SEAD-25 Event 12 groundwater elevation data were recorded on March 16, 2015. Groundwater elevation data (events 10-12) and the historic post-2005 soil-removal action groundwater elevation range for the site are presented in **Table 3**. **Appendix C** provides groundwater elevations recorded from 2006 to 2015 and groundwater elevation measurements performed between LTM sampling events. Groundwater elevation trends for SEAD-25 wells during the 12 LTM events performed from 2006 through 2015 are summarized on **Figure 4A** (Northern Profile) and **Figure 4B** (Southern Profile). Event 12 groundwater

elevations ranged from 736.98 feet above mean sea level (amsl) in well MW25-13 to 743.25 feet amsl in well MW25-3. Groundwater elevations observed during this event averaged approximately 4 feet higher than the June 2014 (event 11) groundwater elevations, with changes in groundwater elevations ranging from a minimum increase of 1.74 foot observed in MW25-1 to a high of 5.06 feet observed in MW25-17.

Groundwater contours were generated based on the groundwater elevation data collected on March 16, 2015 and are consistent with historic groundwater contour interpretation supporting the presence of a radial groundwater flow pattern beneath the pad (**Figure 5**). Contour interpretation indicates that shallow groundwater flow is radial, with the highest elevations located in the area of the former Fire Training and Demonstration Pad where soil removal was conducted in 2005.

3.3 Analytical Data Summary

3.3.1 2015 LTM Results

During the 2015 sampling event, six groundwater samples (including one duplicate sample from MW25-3) were collected for the analysis of VOCs. A summary of the primary COCs detected for event 12 are presented in **Table 4**, along with the applicable NYSDEC Class GA Groundwater Standards. The laboratory analysis reports are provided on a CD as **Appendix B**. A summary of the analytical results for each LTM event is provided in **Appendix D**. The data validation sheets are provided in **Appendix E**; there were no non-compliance issues reported.

During the 2015 sampling event, two VOCs were detected in two samples. Benzene was detected at a concentration of 0.64 $\mu\text{g/L}$ in well MW25-2 and one chlorinated solvent compound, TCE, was detected at a concentration of 1.6 $\mu\text{g/L}$ in well MW25-9. Both concentrations were below their applicable groundwater cleanup standards and no other VOCs were detected in any of the other sampled wells.

A summary of the range of concentrations for the primary COCs found during the SEAD-25 LTM monitoring event is presented below. Results from the 2015 sampling event indicate that none of the primary COCs exceeded applicable groundwater cleanup standards.

SEAD-25 2015 LTM Concentration Ranges Compared to NYS Class GA Groundwater Standards		
COCs	SEAD-25 2015 LTM Concentration Range (µg/L)	NYSDEC GA Groundwater Standard (µg/L)
Benzene *	ND – 0.64 J	1
Toluene *	ND	5
Ethylbenzene *	ND	5
Xylene (total) *	ND	5
Ortho Xylene	NA	5
Meta/Para Xylene	NA	5
1,1,1-Trichloroethane *	ND	5
1,1-Dichloroethane (DCA)*	ND	5
1,2-DCE (total) *	ND	5
Cis-1,2- DCE	ND	5
Trans-DCE	ND	5
Chloroform *	ND	7
Trichloroethene *	ND – 1.6	5
Vinyl chloride	ND	2
Notes: * = Primary COCs, signified with *, and other detected VOCs used to calculate total chlorinated organics with concentrations in excess of GA groundwater standards during annual events, are reported. NA = Not Analyzed; ND = non-detect; J = estimated value		

3.3.2 SEAD-25 LTM Analytical Summary

A summary of the historic groundwater sampling results for total BTEX and total chlorinated organics at SEAD-25 for the period from November 1995 (pre-RA) to March 2015 is presented on **Figure 6**. Total BTEX values were calculated using the following VOCs:

- benzene
- toluene
- ethyl benzene
- ortho xylene & meta/para xylene (if xylene total was not reported)
- xylene total (if meta/para and ortho xylenes were not reported)

Total chlorinated organics were calculated using the following VOCs:

- 1,1,1-trichloroethane
- 1,1-dichloroethane
- 1,2-dichloroethene total (if reported in lieu of cis- and trans-)
- cis-1,2-dichloroethene (if 1,2-dichloroethene total was not reported)
- trichloroethene
- chloroform
- vinyl chloride

3.3.2.1 BTEX Analytical Summary

Analytical results from LTM since 1995 indicate that BTEX compounds were only observed in the three source wells at SEAD-25 (i.e., MW25-2, MW25-3, and MW25-9). Generally, these data indicate that the pre-RA (1993-1996) groundwater concentrations of BTEX compounds decreased once the RA was completed in 2006. Since the RA was completed, BTEX contaminants identified at SEAD-25 predominantly were detected in source wells MW25-2 and MW25-9, and less frequently in source well MW25-3.

Total BTEX concentrations in well MW25-2 ranged from 115.6 J $\mu\text{g/L}$ (event 7) to a minimum concentration of 0.64 J $\mu\text{g/L}$ (event 12) (**Figures 6 and 7A**). Historically, benzene and ethyl benzene are the contaminants most frequently detected in MW25-2 and are the contaminants most frequently found at levels above their respective GA standards in this well.

At MW25-3, after the completion of the RA, total BTEX concentrations have not exceeded 5.5 $\mu\text{g/L}$ (event 11) and have been non-detect in seven of twelve events (**Figures 6 and 7B**). The only BTEX compound to have exceeded its GA standard (1 $\mu\text{g/L}$) in this well is benzene - once in event 5 (1.7 $\mu\text{g/L}$) and once in event 11 (1.8 $\mu\text{g/L}$).

Total BTEX concentrations in groundwater collected from MW25-9 ranged from 124 $\mu\text{g/L}$ (event 1) to non-detect (events 6 and 12) (**Figures 6 and 7C**). Detections of BTEX compounds exceeded their respective GA standards in well MW25-9 five times (twice for benzene and once each for ethyl benzene, toluene, and total xylene). Four of these exceedances were observed during the first post-RA sampling event. Except for event 1, the only BTEX exceedance in well MW25-9 was benzene in event 4 (2.3 $\mu\text{g/L}$). No other BTEX components have exceeded their respective screening criteria in well MW25-9 except those detected during event 1.

3.3.2.2 Chlorinated COCs Analytical Summary

Analytical results from LTM since 1995 indicate that chlorinated organics were only observed in the three source wells at SEAD-25 (i.e., MW25-2, MW25-3, and MW25-9), with the exception of well MW25-10 with a concentration of 0.53 J $\mu\text{g/L}$ (1,1,1-TCA) in event 2 and well MW25-19 where a concentration of 0.2 J $\mu\text{g/L}$ (cis-1,2-DCE) was observed during event 3. The concentration of chlorinated COCs found in the groundwater at SEAD-25 decreased once the RA was completed and remained at non-detect to low aggregate part per billion ($\mu\text{g/L}$) concentrations in all wells until events 7 and 8 (**Figure 6**).

During events 7 and 8, chlorinated VOCs in MW25-2 were detected at concentrations higher than previous events (**Figure 8A**). Concentrations were found to decrease during event 9, but increased in events 10 and 11; however, the concentrations of individual chlorinated VOCs have remained below their applicable GA standards since event 9. The elevated concentrations in events 7, 8 and 11 correspond with periods of low groundwater elevation and are assumed to be elevated as a result of the limited saturated thickness of the groundwater table at these times (**Figure 4B**). Concentrations of chlorinated COCs in well MW25-2 ranged from 24.8 J $\mu\text{g/L}$ (event 7) to non-detect (events 1, 2, 4, and 12) (**Figures 6 and 8A**). In well MW25-2, individual chlorinated VOCs have not exceeded their applicable GA Standards since event 8.

Chlorinated COC concentrations in MW25-3 have been non-detect since the first RI (November 1995) (**Figures 6 and 8B**).

At well MW25-9, the total chlorinated COC concentration collected during event 1 was 5.44 µg/L; subsequent sampling events yielded non-detect values with the exception of event 12 (1.6 µg/L, TCE only) (**Figures 6 and 8C**). No individual chlorinated COCs have exceeded their applicable GA Standards in well MW25-9.

3.4 Data Trends and Natural Attenuation Evaluation

3.4.1 General Data Trends (VOCs)

There are two main lines of evidence to determine whether natural attenuation is occurring:

1. Reduction in contaminant concentrations; and
2. Indirect geochemical indicators to assess the groundwater's assimilative capacity.

The primary line of evidence, reduction in VOC concentrations, is the only direct measure of the attenuation of a plume. Since the completion of the remedial action at SEAD-25, benzene, ethyl benzene, toluene, and xylenes are the predominant aromatic VOCs detected in the groundwater. The detections of these VOCs are found exclusively at the three source wells (MW25-2, MW25-3, and MW25-9) with the majority of the benzene and ethyl benzene exceedances found in MW25-2. Over time, the BTEX concentrations have declined in these three wells with toluene and xylene concentrations generally non-detect in MW25-3 and MW25-9 since event 1 (**Appendix D**).

Total BTEX concentrations in the three source wells (MW25-2, MW25-3, and MW25-9) have decreased from pre-RA levels (**Figure 6** and **Figures 7A, 7B, and 7C**). At well MW25-2, BTEX concentrations fluctuate and have a moderate correlation with the saturated thickness at the time of sampling (**Figure 7A**). Elevated BTEX concentrations at MW25-2 are typically associated with lower groundwater levels. With two exceptions (events 5 and 11), BTEX concentrations at well MW25-3 are below their respective GA standards (**Figure 7B**). With the exception of events 1 and 4, BTEX concentrations are consistently below screening criteria in well MW25-9 (**Figure 7C**). Except for a limited exceedance of benzene (1.8 µg/L) in well MW25-3 in event 11, the BTEX concentrations of concern are restricted to well MW25-2.

Similarly, the concentrations of chlorinated COCs have decreased over time in the three source wells (**Figure 6** and **Figures 8A, 8B, and 8C**). The concentrations of chlorinated COCs in well MW25-2 are variable; however, only 1,2-DCE, cis-1,2-DCE, and VC have exceeded their individual cleanup standards during events 7 or 8. In wells MW25-3 and MW25-9, no chlorinated VOCs have exceeded their individual GA standards during LTM. Only MW25-2 exhibits concentrations of chlorinated VOCs that have exceeded their respective GA standards. The most recent exceedance of a chlorinated VOC in well MW25-2 was in event 8 in which all of the results were estimated (J flagged).

3.4.2 General Data Trends (Geochemical and Field Indicator Parameters)

Geochemical parameters (iron II, sodium, chloride, nitrate/nitrite, sulfate, and methane/ethane/ethene laboratory analysis, and field-measured DO, ORP and sulfide analysis) provide an indirect indication of the natural attenuation of the plume (**Table 5**). A review of historical field indicator data shows that no

clear trends of degradation are observed across SEAD-25; however, some parameters measured in the source wells suggest limited evidence for anaerobic biodegradation.

Methane was detected in the five wells sampled during the 2015 sampling event at concentrations of 4.2 µg/L (MW25-2), 1.85 µg/L (MW25-3), 0.8 µg/L (MW25-9), 0.54 µg/L (MW25-10), and 0.96 µg/L (MW25-17) (**Table 5**). During the 2015 sampling event, MW25-2 yielded the highest detection of methane and no detections of chlorinated organics. Historical levels of methane measured in the source wells exhibit concentrations better than the suggested benchmark² of 0.5 mg/L or greater. The detection of methane in conjunction with BTEX COCs is interpreted to indicate that reductive dechlorination is occurring.

Concentrations of nitrate in the source wells are approximately equal to or better than the suggested benchmark² (< 1 mg/kg) for effective reductive dechlorination (**Table 5**). As discussed below, this value cannot be compared with background or upgradient concentrations to determine if an improving trend is found in the source area.

Parameters such as DO and ORP vary at each well location over time (**Table 5**). In the past, geochemical parameters have been conducive to reductive dechlorination (DO < 1 mg/kg and ORP < 50)²; however, a comparison in the data trend cannot be made as there is no upgradient well. At monitoring well MW25-2, the predominant source well, during events 2 through 11, DO and ORP were measured at levels better than the suggested benchmark values for a likely reductive pathway (i.e., < 0.5 mg/L for DO and < 50 mV for ORP)². Water level measurements from the most recent sampling event show indicated higher than normal groundwater conditions; the elevated levels of DO and ORP recorded in all of the wells during event 12 are assumed to be the result of an influx of fresh meltwater from the winter snowpack. DO and ORP are expected to return to historical values as the meltwater disperses through the shallow aquifer.

An assessment of other parameters (e.g., iron II, sodium, chloride) requires comparison to background concentrations or upgradient wells. Because of the radial groundwater flow pattern that exists at the site and the fact that the most contaminated wells are located near the central portion of the flow, determination of background conditions at SEAD-25 currently is not feasible. Overall, the review of the indicator parameters at well MW25-2 suggest that the VOCs are attenuating; indicator parameter results at the remaining monitoring wells are inconclusive due the historic lack of VOC contamination at these wells and the sporadic sampling frequency due to lack of water measured in the wells. Overall, the geochemical parameters for Event 12 are inconsistent with previous events due to the high groundwater levels and fresh meltwater encountered during this sampling round. Although this makes interpreting data collected from this event difficult, the historical trends at the source wells continue to indicate an environment conducive to natural attenuation.

3.4.3 Data Trend Summary

Aromatic VOC concentrations in the three source wells (MW25-2, MW25-3, and MW25-9) generally indicate that the associated plume is attenuating (**Figures 9A, 9B, and 9C**). Comparison of the pre- and

² EPA (1998). Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater. September 1998.

post-RA groundwater concentrations at these wells demonstrate that the aromatic compound concentrations have decreased significantly since the removal of the source area in late 2005. Prior to the remedial action the total aromatic COC concentration in well MW25-2 exceeded 5,000 µg/L. In wells MW25-3 and MW25-9, the total aromatic COC concentrations were approximately 200 µg/L.

Since the completion of the SEAD-25 RA, the total BTEX concentration in two of the three source wells has reached the GA standard. In the last five events, total BTEX concentrations in well MW25-2 have decreased to a maximum of 42 µg/L. BTEX components which exceed their GA Standard in well MW25-2 are limited to benzene and ethyl benzene. The historical pattern at MW25-2 indicates a fluctuation in the concentration that is thought to be related to the groundwater saturated thickness during the time of the sampling events. Further, MW25-2 is the only well at the site where BTEX COCs were detected in all of the consecutive LTM events until the 2015 event, suggesting that the overall groundwater impact has lessened and that BTEX COCs are not migrating.

Chlorinated VOCs contaminant distributions are similar to those observed for the BTEX VOCs. All of the noted exceedances of GA standards for the applicable chlorinated VOCs historically were observed at MW25-2.

Limited evidence for anaerobic biodegradation is supported by geochemical parameters such as low values of DO and negative values of ORP measured in the source wells. Methane and nitrate concentrations are generally better than their benchmark values indicating an environment where a reductive pathway is possible. Evidence that supports a subsurface environment that is conducive to natural attenuation in the area of the source wells suggests that COC concentrations in the area around well MW25-2 will decrease with time.

4.0 REMEDY EVALUATION

As discussed in Section 2.3, approximately 961 cy of VOC-impacted soil was removed from the location of the Fire Training and Demonstration Pad at SEAD-25 (**Figure 6**). The soil was removed to eliminate the source of VOCs which could have contributed to further groundwater degradation in the area. Since 2006, long-term groundwater monitoring continues to be conducted at SEAD-25 to show that the soil removal remedy is effectively eliminating further VOC releases from the vicinity of the former pad and that natural attenuation of the VOC plumes at SEAD-25 continues to improve the groundwater quality.

Groundwater concentrations of BTEX and chlorinated organics have decreased by more than 99% since the soil removal due to the natural attenuation process and the removal of the source material during RA activities in 2005 (**Figures 7 and 8**). Soil removal therefore is determined to be an effective remedy at SEAD-25.

The remedy for SEAD-25 required the implementation and maintenance of LUCs. The LUC requirements are detailed in the Final Record of Decision for SEAD-25 and SEAD-26 (Parsons 2004), Addendum 1 in the *Land Use Control Remedial Design for SEAD 27, 66, 64A, Final* (2006) and are additionally covered under the area-wide LUCs Planned Industrial/Office or Warehousing Area ("PID Area") (Parsons, 2004; 2006). The selected LUCs for SEAD-25 are as follows:

- Prevent residential housing, elementary and secondary schools, childcare facilities and playground activities; and
- Prevent access to and use of groundwater at SEAD-25, for purposes other than required monitoring, until NYS Class GA Groundwater Standards are met.

The areas of SEAD-25 were inspected to determine if the LUCs are being maintained. While performing the groundwater sampling, it was confirmed that at SEAD-25 no facilities, as described above, were constructed and no access to or use of groundwater, other than the collection of required LTM samples of groundwater, was evident.

5.0 LONG-TERM MONITORING CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

- The concentrations of BTEX in the groundwater at SEAD-25 have decreased by up to two orders of magnitude since 1994;
- Volatile organic compounds COCs were not detected above cleanup goals in the five wells sampled during the 2015 LTM event;
- The general trends of the field indicator parameters for most of the LTM wells provide inconclusive evidence due to the historic lack of VOC contamination at these wells and the lack of an upgradient or background well for comparison; however, typically low DO and negative ORP values at MW25-2 suggests an environment conducive to anaerobic degradation;
- With the exception of MW25-2, VOC concentrations at SEAD-25 have generally attenuated to levels close to or below the applicable groundwater standards;
- COCs are limited in concentration and are not migrating outside the vicinity of MW25-2. In general, any remaining contamination is restricted to the area in the vicinity of MW25-2;
- Based on evaluation of available LTM data, the soil excavation remedy at SEAD-25 has been effective;
- The land and groundwater use restrictions imposed at SEAD-25 are maintained as part of both the approved ROD for SEAD-25 and the larger Planned Industrial/Office or Warehousing Area ("PID Area") (Parsons, 2004; 2006). There are no signs of unauthorized use or access; and,
- Based on the information and discussion provided above, it appears that BTEX concentrations observed at MW25-2 fluctuate in correlation with changes in saturated thickness of the groundwater table, indicating that the increase is not due to the release of additional contaminants. The removal of the source area present at SEAD-25, and the verification that soils left at the site achieved cleanup objectives, supports the interpretation that a continuous release of contaminants at SEAD-25 is no longer occurring.

5.2 Recommendations

Based on the current area-wide LUC prohibiting the use of groundwater within the PID Area (which includes SEAD-25), the Army proposes to change the groundwater monitoring to a five-year frequency at this site because of the following:

- Groundwater use is prohibited by the area-wide LUC and an alternate potable water source is available;
- Periodic LUC inspections will continue to insure that the groundwater is not accessed;
- Results from 10 years of LTM indicate site COCs are not migrating outside the local area of MW25-2;

- Trends demonstrate that the remedial action performed did not adversely impact groundwater; and,
- Concentrations within MW25-2 are decreasing and have reached the GA Standard in the most recent round.

Upon acceptance of these recommendations, the wells will be sampled during the 2021 5-year review. If the trend remains the same, and the groundwater conditions show that the groundwater standards have been met, the wells will then be decommissioned.

TABLES

Table 1	Summary of SEAD-25 Long-Term Monitoring Events
Table 2	Monitoring Well Locations
Table 3	SEAD-25 Groundwater Elevation Data
Table 4	SEAD-25 Primary COC Concentrations in Groundwater (Event 12)
Table 5	Summary of SEAD-25 Geochemical Parameters

Table 1
Summary of SEAD-25 Long-Term Monitoring Events
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

LTM Event Number	Sampling Event Designation ⁽¹⁾	Sampling Begin Date	Sampling End Date	Report Date	Report Type	Notes
Event 1	2006Q1	01/24/06	01/31/06	05/31/06	Technical Memo	One sample collected 04/12/06
Event 2	2006Q3	08/07/06	08/14/06	12/07/06 & 02/02/07	Technical Memo and Annual Report	Recommendation to terminate sampling at SEAD-26
Event 3	2007Q2	06/07/07	07/07/07	09/10/07	Technical Memo	
Event 4	2008Q1	03/03/08	03/04/08	04/18/08 & 06/18/08	Technical Memo and Annual Report	
Event 5	2009Q2	04/28/09	04/29/09	06/17/09	Technical Memo	
Event 6	2010Q1	01/11/10	01/14/10	01/21/11	Annual Report	Includes Event 5
Event 7	2010Q3	08/03/10	08/06/10	01/21/11	Technical Memo	
Event 8	2011Q1	02/07/11	02/10/11	05/26/11	Annual Report	Includes Event 7. Recommended to reduce semi-annual sampling to annual sampling and reduce number of wells to be sampled from 10 to 5 wells.
Event 9	2012Q1	02/28/12	03/02/12	05/01/12	Annual Report	
Event 10	2013Q2	05/06/13	05/09/13	03/07/14	Annual Report	
Event 11	2014Q2	06/17/14	06/18/14	09/30/14	Annual Report	Number of wells sampled reduced from 10 to 5 wells.
Event 12	2015Q1	03/16/15	03/18/15	06/30/15	Annual Report	

Notes:

(1) Event designation defined by year (XXXX) and quarter (QX) when samples were collected

Table 2
Monitoring Well Locations
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Location ID	Northing ⁽¹⁾	Easting ⁽¹⁾	Loc_Elev ⁽²⁾	Latitude ⁽³⁾	Longitude ⁽³⁾
MW25-1	998030.6639	751123.9323	740.3	42.73891679	-76.84050203
MW25-10	997966.2625	750999.2626	741.81	42.73873904	-76.84096538
MW25-11*	997865.7588	750955.8786	738.75	42.7384629	-76.84112574
MW25-12D*	997867.0397	750966.7103	738.89	42.7384665	-76.84108543
MW25-13	997864.8083	750869.3787	737.94	42.73845956	-76.84144772
MW25-14D*	997867.0994	750875.7165	738.23	42.7384659	-76.84142415
MW25-15	997972.6083	750764.5382	739.6	42.73875448	-76.84183921
MW25-16D*	997975.0098	750771.8704	739.75	42.73876113	-76.84181194
MW25-17	998188.4165	750964.1907	742.24	42.73934832	-76.84109846
MW25-18	998116.3641	751083.1527	743.05	42.73915161	-76.84065481
MW25-19	998136.6741	750763.1757	740.05	42.73920465	-76.84184615
MW25-2	998024.3007	750974.6108	743.76	42.73889808	-76.84105781
MW25-3	998079.4313	750926.4855	743.26	42.73904895	-76.84123758
MW25-4D*	998023.3883	750983.1189	743.81	42.73889565	-76.84102613
MW25-5D*	998081.3786	750938.3683	743.41	42.7390544	-76.84119337
MW25-6	998276.9972	751007.5574	742.24	42.73959174	-76.84093804
MW25-7D*	998279.0181	751016.2292	742.25	42.73959736	-76.84090578
MW25-8	998077.3072	750855.5452	741.36	42.73904253	-76.84150163
MW25-9	998004.1484	750898.1419	741.26	42.73884214	-76.84134223

Notes:

(1) Northing/Easting coordinates are based on New York State Plane NAD 83 coordinate system.

(2) Elevation measurements are based on New York State Plane NAD 83 coordinate system.

(3) Latitude and Longitude are in Universal Transverse Mercator (UTM) system and were obtained by converting the State Plane coordinates using U.S. Army Corps of Engineers Corpscon 6 software.

* = Indicates well was decommissioned in September 2010.

Bold location IDs denote the wells sampled in this event.

Table 3
SEAD-25 Groundwater Elevation Data
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft) ³	Well Depth (ft)	Event 10 - May 6, 2013				Event 11 - June 17, 2014				Event 12 - March 16, 2015				LTM Rounds 1 through 12 Groundwater Elevation (ft) Max/Min Comparison and Range		
			Measured Well Depth (ft) ⁴	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Measured Well Depth (ft) ⁴	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Measured Well Depth (ft) ⁴	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Maximum	Minimum	Range
			MW25-1	743.00	7.77	7.71	1.48	6.23	736.77	7.73	1.16	6.57	736.43	7.71	2.88	4.83	738.17
MW25-2	746.36	11.31	11.25	5.28	5.97	740.39	11.26	4.35	6.91	739.45	11.25	7.37	3.88	742.48	742.48	738.54	3.94
MW25-3	746.34	9.58	9.80	3.64	6.16	740.18	9.80	2.01	7.79	738.55	9.80	6.71	3.09	743.25	743.25	737.58	5.67
MW25-6	744.44	14.27	14.26	7.81	6.45	737.99	14.30	6.37	7.93	736.51	14.27	11.34	2.93	741.51	741.51	735.89	5.62
MW25-8	742.46	5.47	5.43	1.60	3.83	738.63	5.42	0.38	5.04	737.42	5.44	3.93	1.51	740.95	740.95	737.30	3.65
MW25-9	742.36	5.42	5.39	1.48	3.91	738.45	5.40	0.45	4.95	737.41	5.40	4.07	1.33	741.03	741.03	737.35	3.68
MW25-10	743.01	6.20	6.38	0.58	5.80	737.21	6.39	0.26	6.13	736.88	6.38	5.00	1.38	741.63	741.63	736.88	4.75
MW25-13	739.64	5.70	5.48	0.30	5.18	734.46	5.48	0.33	5.15	734.49	5.47	2.81	2.66	736.98	736.98	734.46	2.52
MW25-15	741.00	7.20	7.18	1.53	5.65	735.35	7.20	0.23	6.97	734.03	7.20	5.23	1.97	739.03	739.03	734.03	5.00
MW25-17	743.94	11.60	11.25	6.36	4.89	739.05	11.26	4.48	6.78	737.16	11.24	9.52	1.72	742.22	742.22	736.49	5.73
MW25-18	744.35	11.00	11.20	5.23	5.97	738.38	11.18	4.28	6.90	737.45	11.16	7.84	3.32	741.03	744.20	737.13	7.07
MW25-19	741.95	12.10	12.00	6.13	5.87	736.08	12.00	3.54	8.46	733.49	12.01	7.87	4.14	737.81	738.30	732.92	5.38

Notes:

1. Groundwater levels were recorded in May 2013, June 2014, and March 2015.
2. Bedrock wells and well MW25-11 were decommissioned in September 2010 as part of the SEDA-wide Well Decommissioning Project .
3. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels after 8/27/2008 were adjusted to reflect the change in well total depth.
4. If well depths were not recorded during an event then the previously recorded well depth was used.

Table 4
SEAD-25 Primary COC Concentrations in Groundwater (Event 12)
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	SEAD-25 MW25-2 GROUNDWATER 25LM20113 3/18/2015 SA LTM 12 Total	SEAD-25 MW25-3 GROUNDWATER 25LM20114 3/18/2015 SA LTM 12 Total	SEAD-25 MW25-3 GROUNDWATER 25LM20115 3/18/2015 DU LTM 12 Total	SEAD-25 MW25-9 GROUNDWATER 25LM20116 3/17/2015 SA LTM 12 Total	SEAD-25 MW25-10 GROUNDWATER 25LM20117 3/17/2015 SA LTM 12 Total	SEAD-25 MW25-17 GROUNDWATER 25LM20112 3/17/2015 SA LTM 12 Total	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25 MW25-2		SEAD-25 MW25-3		SEAD-25 MW25-3		SEAD-25 MW25-9		SEAD-25 MW25-10		SEAD-25 MW25-17		
														Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	
Parameter	Unit	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	
1,1,1-Trichloroethane	UG/L	0	0%	GA	5	0	0	6	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
1,1-Dichloroethane	UG/L	0	0%	GA	5	0	0	6	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
Chloroform	UG/L	0	0%	GA	7	0	0	6	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cis-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	6	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U
Trichloroethene	UG/L	1.6	17%	GA	5	0	1	6	0.48	U	0.48	U	0.48	U	1.6	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
Vinyl chloride	UG/L	0	0%	GA	2	0	0	6	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
TOTAL Chlorinated Organics									ND		ND		ND		1.6		ND		ND		ND		ND		ND	
Benzene	UG/L	0.64	17%	GA	1	0	1	6	0.64	J	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
Ethyl benzene	UG/L	0	0%	GA	5	0	0	6	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Toluene	UG/L	0	0%	GA	5	0	0	6	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
Total Xylenes	UG/L	0	0%	GA	5	0	0	6	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
TOTAL BTEX									0.64	J	ND		ND		ND		ND		ND		ND		ND		ND	

Notes:
1. Only primary COCs with site-specific cleanup goals are included.
2. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
3. Shading indicates concentration above cleanup goal.

J = the reported value is an estimated concentration
U = the compound was not detected
ND = Non-Detect

SA = Sample
DU = Duplicate

Table 5
Summary of SEAD-25 Geochemical Parameters
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

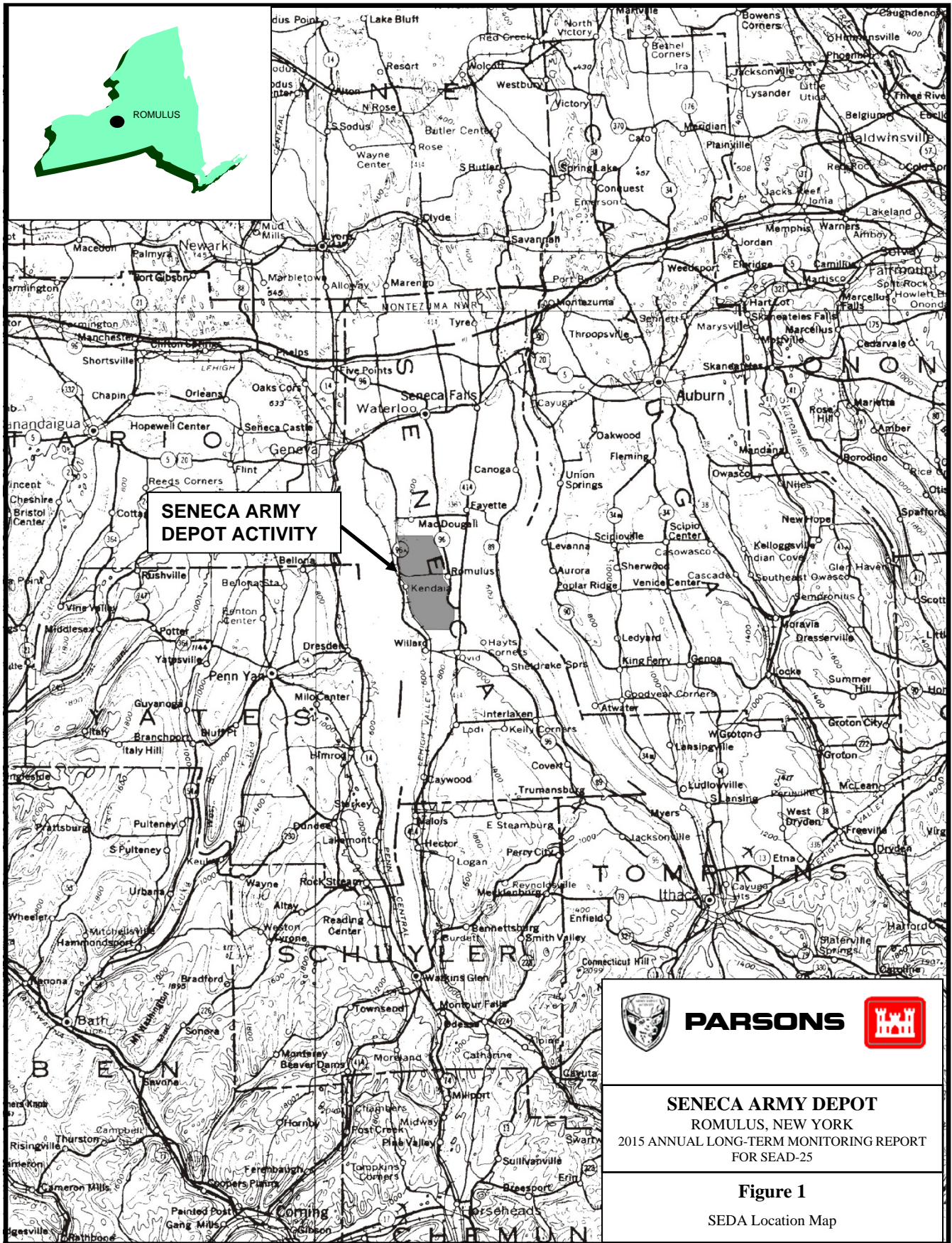
Well ID	Date	Event	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Turbidity (NTU)	pH (Std units)	Conductivity (S/m)	Iron (ug/L)	Sodium (ug/L)	Chloride (mg/L)	Nitrate (mg/L-N)	Nitrite (mg/L-N)	Sulfate (mg/L)	Ethane (ug/L)	Ethene (ug/L)	Methane (ug/L)	Sulfide (mg/L)	
MW25-2	4/12/06 ¹	1	6.29	-11	10.5	16.1	7.17	0.551	2,510 J	4,730	6.5	0.05 U	0.05 U	39.6	2 U	2 U	80 J	0.01	
	8/9/06 ¹	2	0.3	-82	26.55	2.3	6.93	0.562	667	5,600 J	2.2 J	0.05 U	0.05 U	32.1	10 U	10 U	35.5	0.15	
	6/6/07	3	0.07	-92	12.4	11	7.11	0.454	2,600 J	6,000 J	4	0.5 J	0.5	22	0.24	4.2	170	--	
	3/4/08	4	1.35	-60	3.2	2.78	7.15	0.64	711	3,460	0.2 U	0.305 J	0.305	31.1	1 U	1 U	3.2 J	0.01 U	
	4/29/09 ¹	5	0.11	-115	8.1	0.9	6.84	0.702	15,050	7,100	2.2	0.05 U	0.01 U	79.2	1 U	1 U	66	0.04	
	1/12/10 ¹	6	0.41	-151	6.3	1.06	7.25	0.573	2,655	7,800	2.8	0.199 J	0.007 UJ	64.6 J	0.16 U	0.17 U	21	0.16	
	8/3/10 ^{1,4}	7	0.02	-230	21.2	3.4	6.79	1.09	1,660	10,300	2.9	0.013 UJ	--	42.8	0.16 U	0.17 U	125	--	
	2/8/11 ^{1,6}	8	0.24	-148	5.08	0.6	6.98	0.806	13,100	10,200	5.8	0.0152 U	0.00321 U	45 J	0.58 U	0.69 U	45.5	--	
	3/1/12	9	0.24	-106	5.3	5.38	6.79	0.681	3,780 J	9,320 J	0.9 J	0.0152 U	0.022 J	52 J	0.58 U	0.69 U	31 J	0.2	
	5/8/2013 ^{1,8}	10	0.11	-350	8.4	3.11	7.20	0.907	8,750 J	13,000 J	1.75 J	0.0185 U	0.01 U	155 J	4 U	3 U	23.5	0.15	
	6/18/14	11	0.68	-63	11.6	1.21	6.83	1.05	9,900	9,100	1.9	0.059	0.01 U	10	0.55 U	0.5 U	0.32 J	--	
	3/18/15	12	8.84	44	3.3	1.48	7.57	0.411	340	2,500	0.74	1.3	0.01 U	24	0.55 U	0.5 U	4.2	0.00	
MW25-3	1/31/06 ¹	1	1.19	79	4.3	2.2	7.1	0.49	81 J	12,150	2.2	0.05 U	0.05 U	39.85	2 U	2 U	2 U	0.04	
	8/11/06	2	3.6	77.9	21.54	1.2	7.02	0.686	3,820	11,300 J	1.5 J	0.05 U	0.05 U	44.9	2 U	2 U	2 U	0.03	
	3/4/08	4	0.87	124	3.5	2	7.15	0.675	107	5,540	2.66	0.098 J	0.01 UJ	100	1 U	1 U	0.34 J	0.01	
	4/29/09	5	0.19	-102	7.9	0.35	7.03	0.627	1,570	9,000	3.3	0.05 U	0.01 U	122	1 U	1 U	13	0.42	
	1/12/10	6	1.78	-63	4.9	3	6.51	0.741	702	7,370	2.8	0.05 UJ	0.007 UJ	182 J	0.16 U	0.17 U	0.14 U	0.04	
	8/4/10 ^{1,5}	7	0	-124	20.6	2.37	6.84	1.26	--	--	--	--	--	0.16 U	0.17 U	12	--		
	2/8/11 ⁶	8	0.37	-85	4.5	3.31	6.99	0.851	463	7,990	3.2	0.057	0.00321 U	110 J	0.58 U	0.69 U	1.5 J	--	
	2/29/12	9	0.1	-141	4.6	1.99	6.94	0.766	494 J	5,970	1.45 J	0.0152 U	0.0225 J	50 J	0.58 U	0.69 U	18 J	0.46	
	5/9/13	10	0.25	-79	7.8	1.5	6.99	0.808	2,200	8,900	1 U	0.019 J	0.01 U	100	0.55 U	0.5 U	0.29 U	0.03	
	6/18/14 ^{2,5}	11	--	--	--	--	--	--	--	--	--	--	--	--	0.55 U	0.5 U	11	--	
	3/18/15 ¹	12	4.06	189	3.1	1.79	7.29	0.686	50 U	5,900	1.1	0.69	0.01 U	69	0.55 U	0.5 U	1.85	0.00	
	MW25-9	1/31/06	1	5.33	91	4.8	2.49	7.15	0.535	57 J	14,500	1.1	0.05 U	0.05 U	21.8	2 U	2 U	2 U	0.02
8/9/06		2	5.22	62.5	23.11	3.38	7.15	0.718	12 U	16,400 J	0.99 J	0.1	0.05 U	25.3	2 U	2 U	2 U	0.45	
3/4/08		4	2.02	99	3.3	1.3	7.33	0.59	100 U	8,380	0.2 U	0.05 UJ	0.01 UJ	24.8	1 U	1 U	2.4 J	0.01 U	
4/29/09 ^{2,3}		5	--	--	--	--	--	--	9,440	26,000	2.7	0.05 U	0.01 U	39.7	1 U	1 U	3.5	0.12	
1/12/10 ³		6	--	-72	3.62	2.8	6.73	0.427	916	16,500	0.5 U	0.05 UJ	0.007 UJ	35.3 J	0.16 U	0.17 U	0.14 U	0.01	
2/9/11 ^{2,3}		8	--	--	--	--	--	--	3,580	29,600	1.6 J	0.0152 U	0.00321 U	32 J	0.58 U	0.69 U	5.4 J	--	
2/29/12		9	1.77	-129	4.1	2.74	7.41	0.555	2,080 J	45,300	0.55 J	0.018 J	0.022 J	26 J	0.58 U	0.69 U	4 J	--	
5/7/13		10	0.16	-90	9.1	2.57	7.50	0.502	3,000	34,000	1 U	0.033 J	0.01 U	28	0.81 U	0.73 U	0.45 U	0.03	
6/18/14 ⁷		11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/17/15		12	10.97	192	2.2	4.81	7.73	0.423	92 J	14,000	2.3	0.85	0.013 J	25	0.55 U	0.5 U	0.8	0.02	
MW25-10		1/31/06	1	4.22	107	5	1.09	6.97	0.464	63 J	8,870	0.73	0.05 U	0.05 U	18.1	2 U	2 U	2 U	0.1
		8/9/06	2	4.23	138.8	21.56	1.95	6.56	0.701	358	6,530 J	0.71 J	0.05 U	0.05 U	18.4	2 U	2 U	2 U	0.28
	3/4/08	4	3.65	130	3.6	2.36	7.31	0.473	100 U	6,090	0.2 U	0.102 J	0.01 UJ	12.9	1 U	1 U	2 U	0.02	
	1/13/10 ³	6	--	230	5.6	3.3	7.19	0.396	508	6,420	2.1	0.05 UJ	0.007 UJ	27.1 J	0.21 U	0.22 U	0.14 U	0.09	
	2/9/11 ^{2,5}	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/28/12	9	--	--	--	--	--	--	231 J	5,040	0.45 J	0.02 J	0.015 J	14 J	0.58 U	0.69 U	1.2 J	--	
	5/7/2013 ⁶	10	--	--	--	--	--	--	200 J	4,800 J	1 U	0.026 J	0.01 U	14 J	0.81 U	0.73 U	0.45 U	0.01	
	6/18/14 ⁷	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/17/15	12	12.6	165	2.7	3.66	7.64	0.365	200	9,100	2.1	0.066	0.01 U	4.2	0.55 U	0.5 U	0.54 J	0.01	
	MW25-17	1/31/06	1	8.46	68	6.3	3.4	7.69	0.462	46	4,240	0.7	0.05 U	0.05 U	17.2	2 U	2 U	2 U	0.01
		8/11/06	2	5.31	157	18.27	1.7	6.72	0.593	9 U	5,170 J	1.4 J	0.11	0.05 U	16.3	2 U	2 U	2 U	0.01 U
		6/7/07 ¹	3	0.31	134	13.2	12	7.2	0.418	440 J	8,500 J	3.6	3.44 J	0.73 J	18.5	0.23	1.3	6.55	0.06
3/4/08 ¹		4	8.24	155	6	2.03	7.3	0.532	100 U	4,550	0.2 U	0.899 J	0.01 UJ	19.35	1 U	1 U	2 U	0.01	
4/28/09		5	7.45	192	7.2	1.2	7.31	0.379	160	4,700	0.2 U	0.05 U	0.01 U	17.3	1 U	1 U	2 U	0.01 U	
1/14/10		6	6.79	211	8.1	1.4	7.29	0.418	87 J	4,450	2.5	0.245 J	0.007 UJ	16.7 J	0.21 U	0.22 U	0.14 U	0.01 U	
8/5/10 ⁴		7	4.1	61	17.6	2.45	7.25	0.584	56 J	5,650	5.3	0.484 J	--	21.7	0.16 U	0.17 U	0.14 U	0.01 U	
2/10/11		8	5.36	193	6.4	0	7.38	0.547	16 J	4,470	2.3	0.27	0.00321 U	16 J	0.58 U	0.69 U	0.98 J	0.01 U	
2/28/12		9	6.91	196	6.5	3.47	7.48	0.423	22 J	4,370	0.47 J	0.12	0.015 J	11 J	0.58 U	0.69 U	0.93 J	--	
5/8/13		10	6.52	73	7.4	2.48	7.76	0.558	50 U	5,500 J	1 U	0.19	0.01 U	18 J	0.81 U	0.73 U	0.45 U	0.01	
6/18/14 ¹		11	4.70	248	10.0	0.86	7.16	0.682	50 U	6,200	0.59	0.17	0.01 U	14	0.55 U	0.5 U	0.32 J	0.00	
3/17/15		12	5.59	224	5.0	1.65	7.51	0.520	50 U	5,200	1.2	0.24	0.01 U	16	0.55 U	0.5 U	0.96	0.01	

Notes:

- = geo parameter was not measured or sampled
- 1. Duplicate samples were averaged for available parameters.
- 2. Insufficient water volume to fill flow cell prior to sample collection.
- 3. Well was pumped dry and sampled the following day after recharge.
- 4. Lab analyzed for combined Nitrate/Nitrite Nitrogen.
- 5. Insufficient water to fill all the sample bottles; VOCs were collected and if additional water remained MEE was collected.
- 6. Well ran dry during sampling, allowed well to recharge overnight, and remaining samples were collected the next day.
- 7. Well was not sampled due to insufficient water volume.

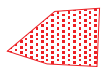
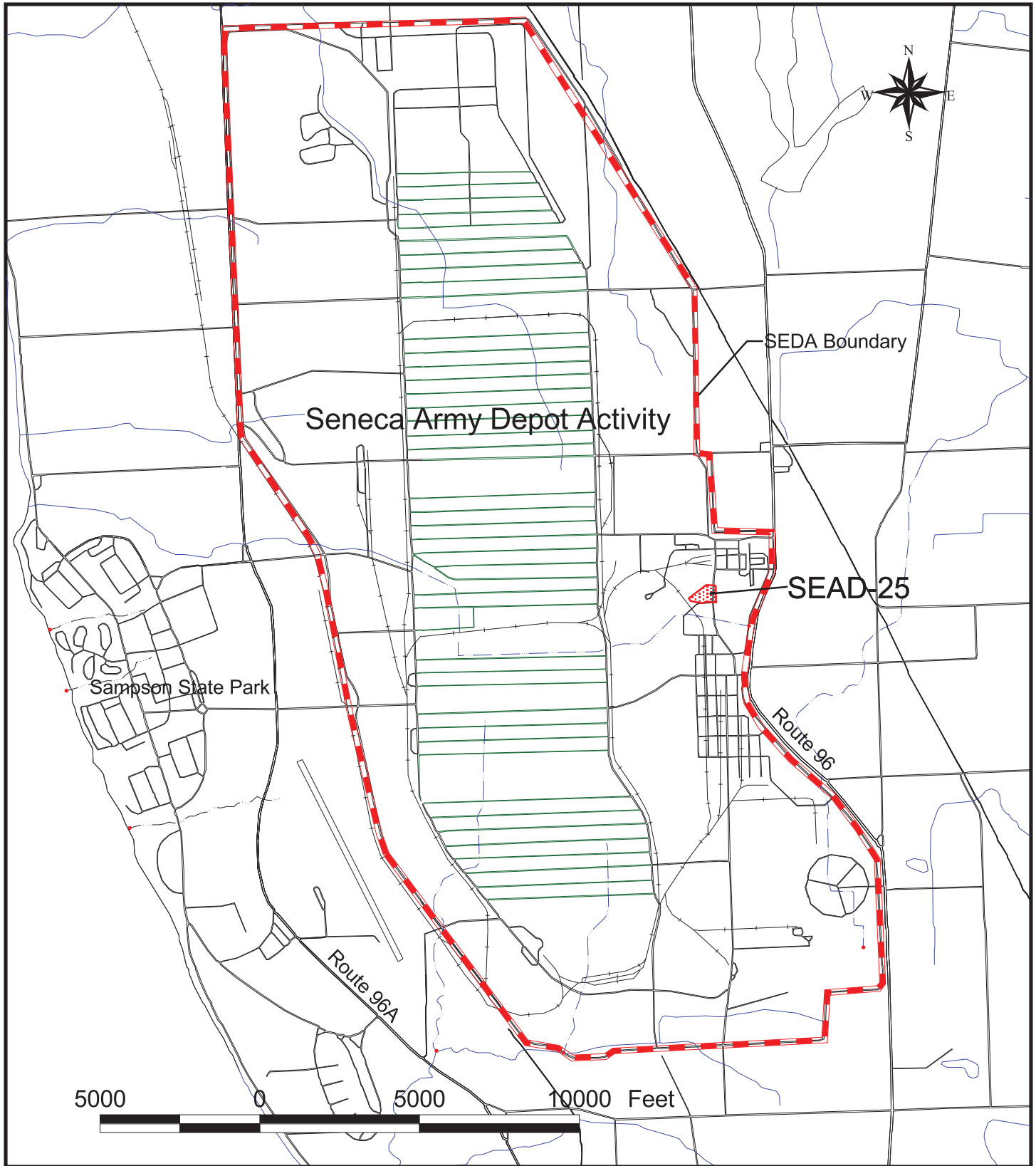
FIGURES

Figure 1	SEDA Location Map
Figure 2	SEDA Site Map and AOC Location
Figure 3	SEAD-25 Site Plan
Figure 4A	SEAD-25 Groundwater Elevations - Northern Profile
Figure 4B	SEAD-25 Groundwater Elevations - Southern Profile
Figure 5	SEAD-25 Groundwater Contours for the Till/Weathered Shale Saturated Zone – March 2015
Figure 6	VOCs Detected in Groundwater at SEAD-25
Figure 7A	Concentrations of BTEX over Time at MW25-2
Figure 7B	Concentrations of BTEX over Time at MW25-3
Figure 7C	Concentrations of BTEX over Time at MW25-9
Figure 8A	Chlorinated VOC COC Concentrations at MW25-2
Figure 8B	Chlorinated VOC COC Concentrations at MW25-3
Figure 8C	Chlorinated VOC COC Concentrations at MW25-9
Figure 9A	Concentrations of Detected COCs in MW25-2
Figure 9A(b)	Concentrations of Detected COCs in MW25-2
Figure 9B	Concentrations of Detected COCs in MW25-3
Figure 9C	Concentrations of Detected COCs in MW25-9



SENECA ARMY DEPOT
 ROMULUS, NEW YORK
 2015 ANNUAL LONG-TERM MONITORING REPORT
 FOR SEAD-25

Figure 1
 SEDA Location Map



Approximate Boundary and extent of SEDA-25



Approximate Boundary of SEDA Site



PARSONS



CLIENT / PROJECT TITLE

**SENECA ARMY DEPOT
ROMULUS, NEW YORK**

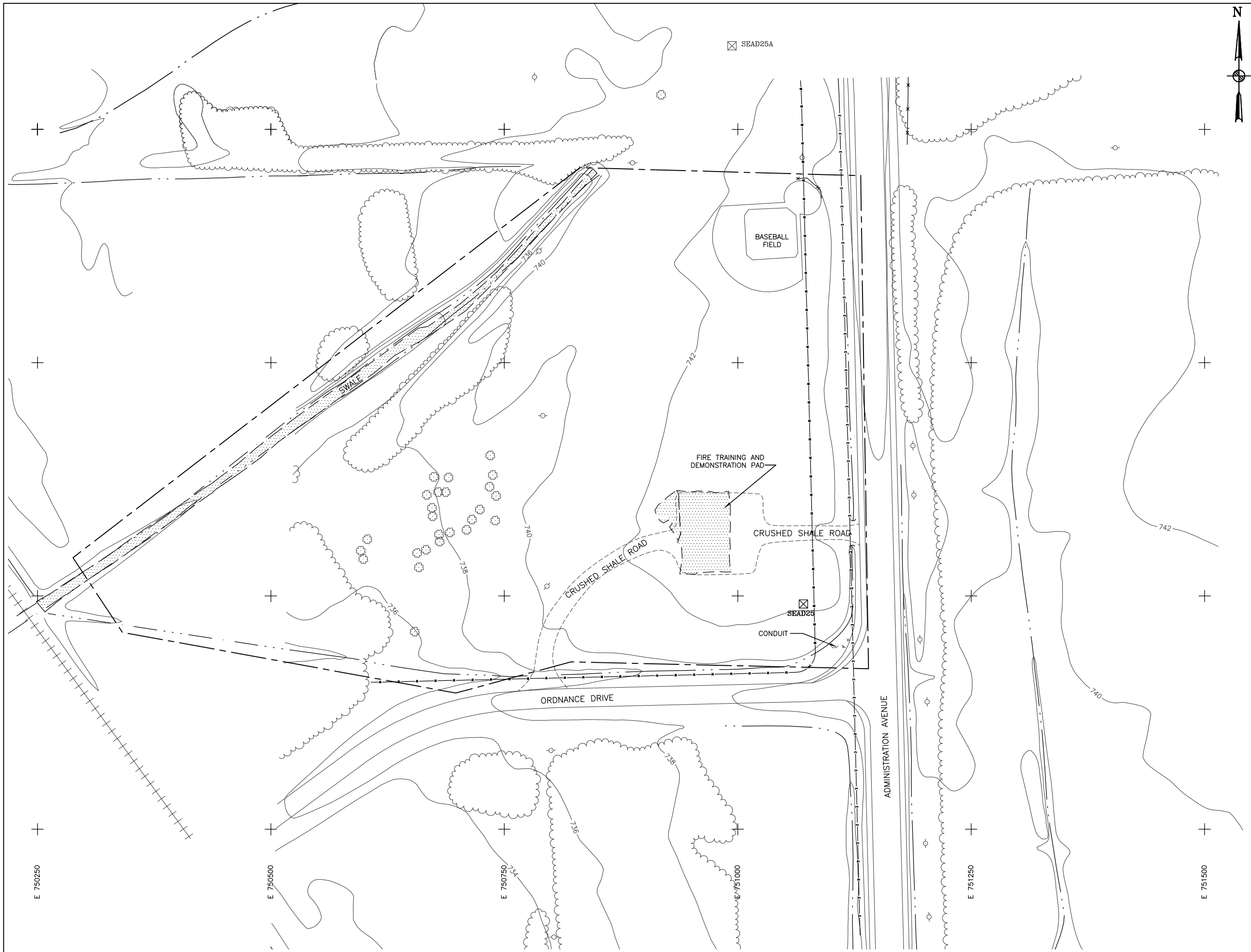
2015 ANNUAL LONG-TERM MONITORING REPORT FOR SEAD-25

DEPT: ENVIRONMENTAL REMEDIATION

Figure 2

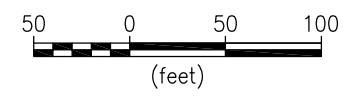
SEDA Site Map and AOC Location

DATE: JUNE 2015



LEGEND	
	DRAINAGE DITCH
	FENCE
	UNPAVED ROAD
	SEAD 25 BOUNDARY
	BRUSH LINE
	RAILROAD
	GROUND SURFACE ELEVATION CONTOUR
	UNDERGROUND ELECTRIC UTILITY LINE
	UNDERGROUND WATER UTILITY LINE
	ROAD SIGN
	OVERHEAD UTILITY POLE
	HYDRANT
	MANHOLE
	UTILITY BOX
	DECIDUOUS TREE
	COORD. GRID (250' GRID)
	POLE
	SEAD-25 SURVEY MONUMENT
	NOV/DEC 2005 REMEDIATED AREAS

- NOTES:**
- TOPOGRAPHY BASED ON AERIAL SURVEY BY:
LOCKWOOD SURVEY
36 KARLAN DRIVE
ROCHESTER NEW YORK
 - HORIZONTAL DATUM IS BASED ON NAD83 PER SENECA ARMY DEPOT SEAD 25A MONUMENTS SURVEY CONTROL COORDINATES DATED 1994.
 - VERTICAL DATUM IS BASED ON NAD88.



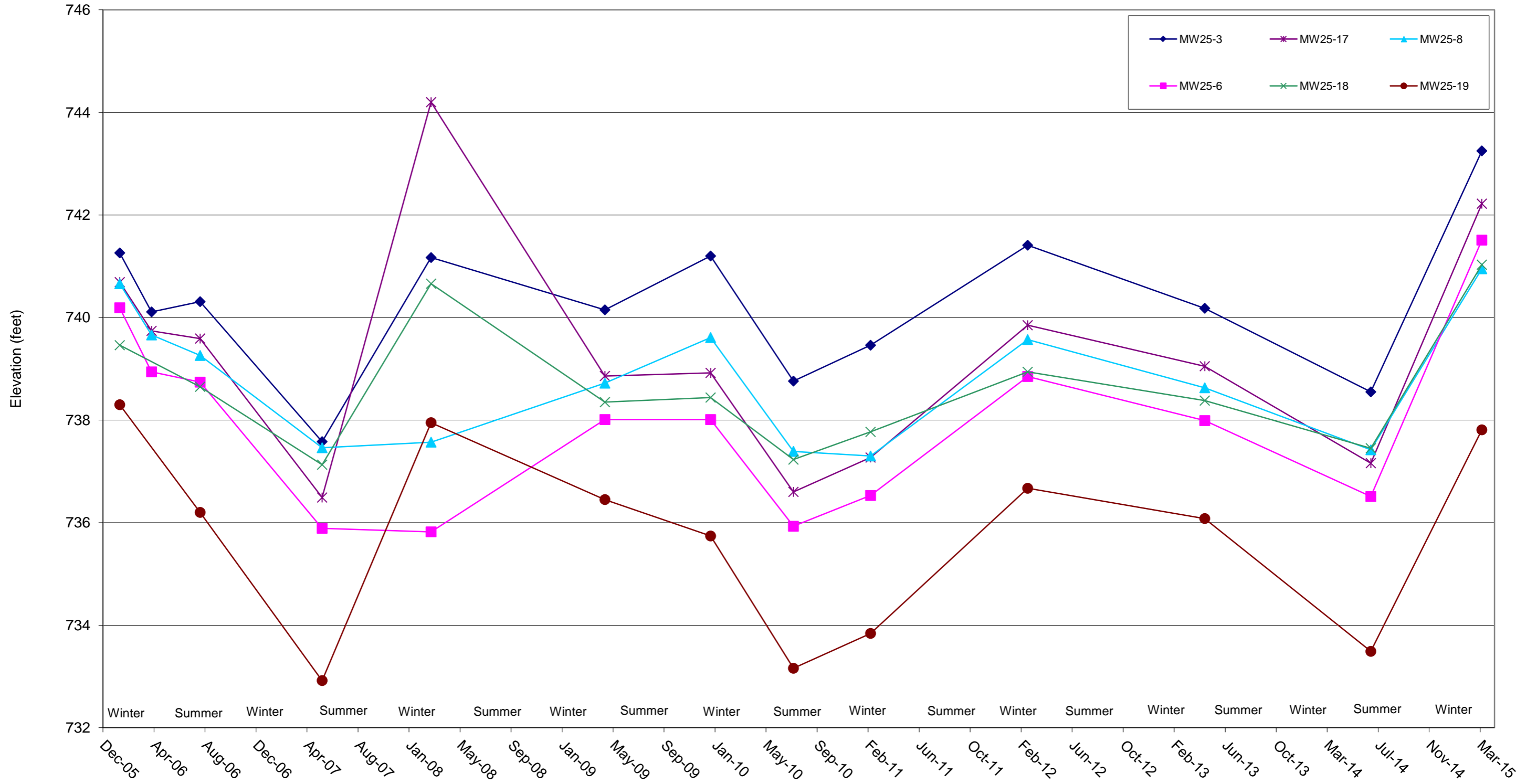
CLIENT/PROJECT TITLE
SENECA ARMY DEPOT
 ROMULUS, NEW YORK
 2015 ANNUAL LONG-TERM MONITORING REPORT FOR SEAD-25

DEPT. ENVIRONMENTAL ENGINEERING Dwg. No.

FIGURE 3
 SEAD-25 SITE PLAN

SCALE AS SHOWN	DATE MARCH 2014	REV
-------------------	--------------------	-----

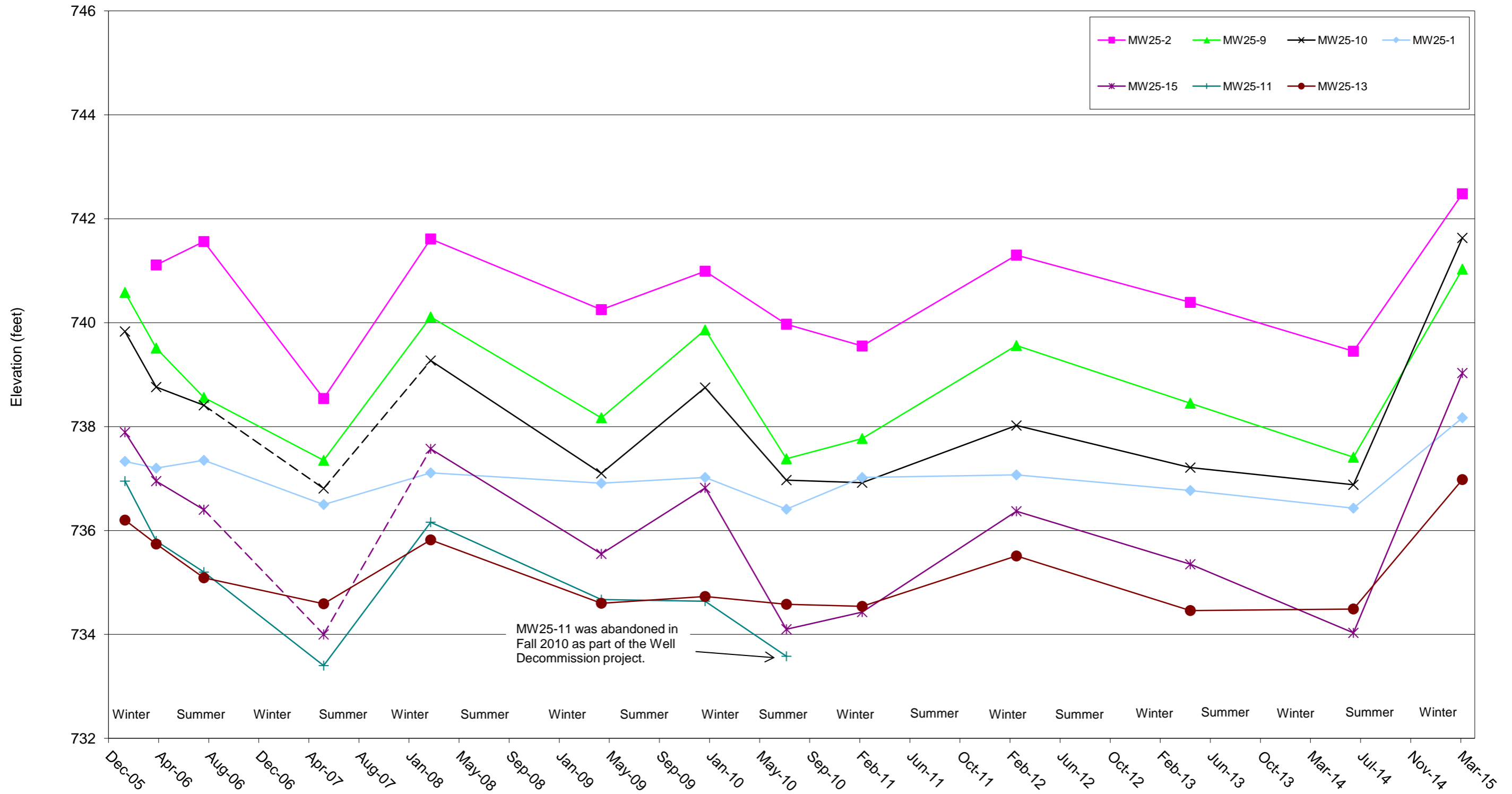
Figure 4A
 SEAD-25 Groundwater Elevations - Northern Profile
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



Notes:

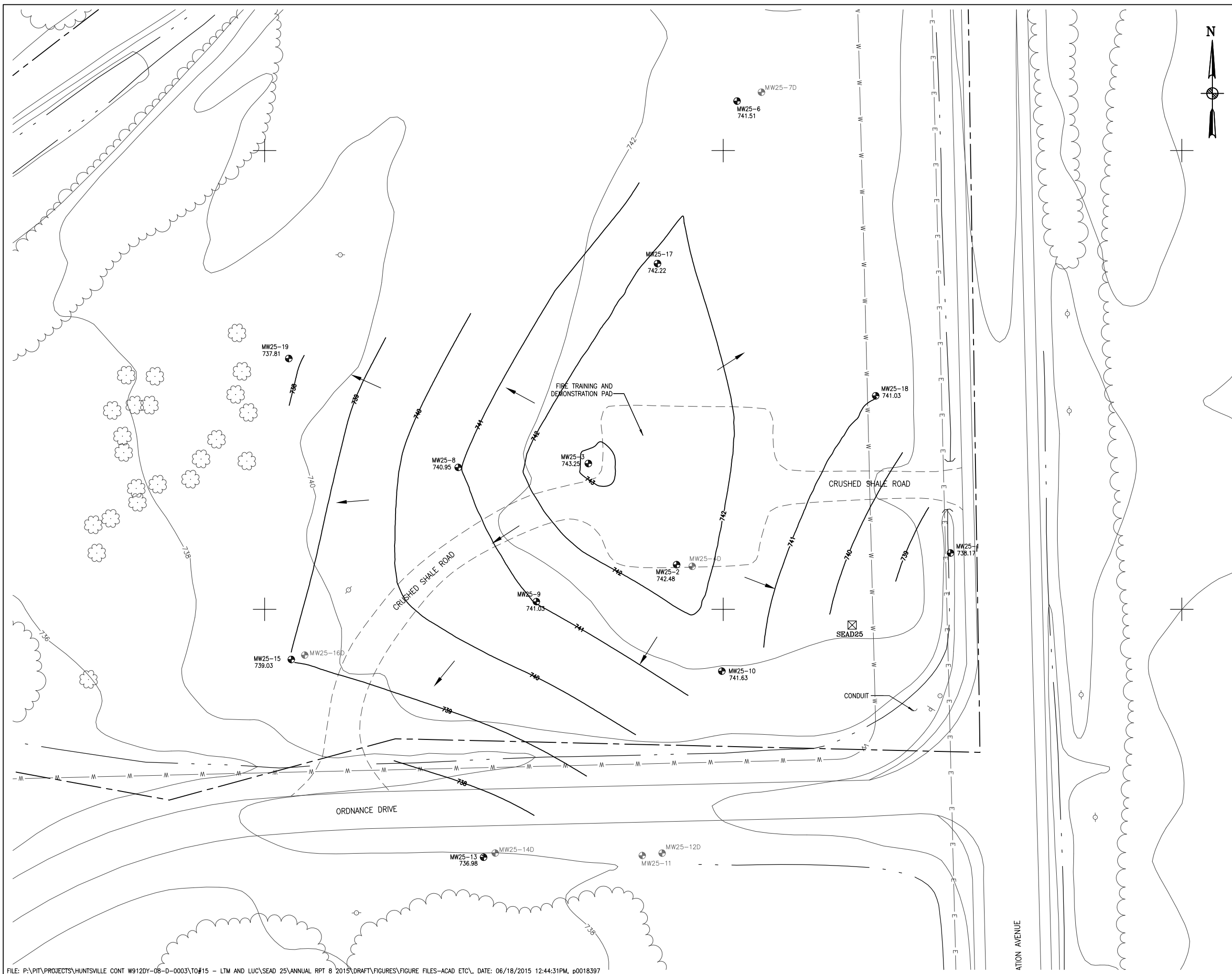
- 1) Groundwater elevation was measured on the following dates: January 24, 2006; April 4, 2006; August 9, 2006; June 4, 2007; February 26, 2008; April 27, 2009; January 11, 2010; August 2, 2010; February 27, 2012; May 6, 2013; June 17, 2014; and March 16, 2015.
- 2) MW25-18 and MW25-19 groundwater elevations were not measured on April 4, 2006.

Figure 4B
 SEAD-25 Groundwater Elevations - Southern Profile
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



Notes:

- 1) Groundwater elevation was measured on the following dates: January 24, 2006; April 4, 2006; August 9, 2006; June 4, 2007; February 26, 2008; April 27, 2009; January 11, 2010; August 2, 2010; February 7, 2011; February 27, 2012; May 6, 2013; June 17, 2014; and March 16, 2015.
- 2) The dashed line indicates MW25-10 and MW25-15 were dry during the June 6, 2007 sampling event and the bottom of the well elevation are ~736.8 ft and ~734 ft, respectively.



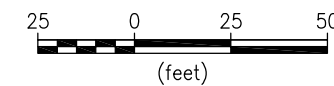
LEGEND

- DRAINAGE DITCH
- FENCE
- UNPAVED ROAD
- SEAD 25 BOUNDARY
- BRUSH LINE
- RAILROAD
- GROUND SURFACE ELEVATION CONTOUR
- UNDERGROUND ELECTRIC UTILITY LINE
- UNDERGROUND WATER UTILITY LINE
- ROAD SIGN
- OVERHEAD UTILITY POLE
- HYDRANT
- MANHOLE
- UTILITY BOX
- DECIDUOUS TREE
- COORD. GRID (250' GRID) POLE
- SEAD-25 SURVEY MONUMENT
- MONITORING WELL LOCATION & ELEVATION OF WATER TABLE
- FORMER MONITORING WELL LOCATION
- 736 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- INDICATES PREDOMINANT FLOW DIRECTION



NOTE:

FORMER MONITORING WELLS WERE REMOVED IN SEPTEMBER 2010 AS PART OF THE WELL DECOMMISSIONING PROJECT.



PARSONS

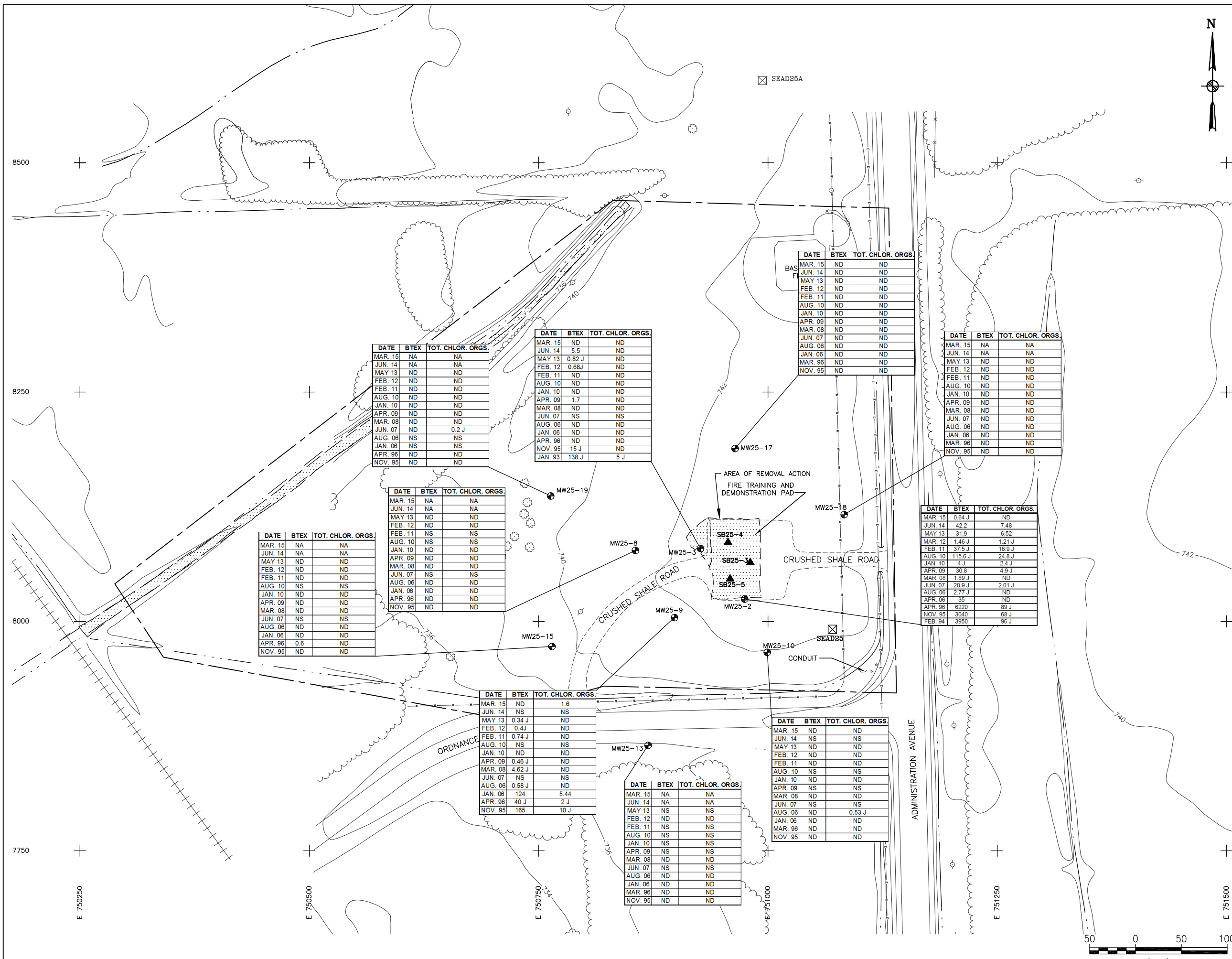


CLIENT/PROJECT TITLE
SENECA ARMY DEPOT
 ROMULUS, NEW YORK
 2015 ANNUAL LONG-TERM MONITORING REPORT FOR SEAD-25

DEPT. ENVIRONMENTAL ENGINEERING Dwg. No.

FIGURE 5
 SEAD-25 GROUNDWATER CONTOURS
 TILL/WEATHERED SHALE SATURATED ZONE
 MARCH 2015

SCALE AS SHOWN DATE JUNE 2015 REV



LEGEND

- DRAINAGE DITCH
- FENCE
- UNPAVED ROAD
- SEAD 25 BOUNDARY
- BRUSH LINE
- RAILROAD
- GROUND SURFACE ELEVATION CONTOUR
- UNDERGROUND ELECTRIC UTILITY LINE
- UNDERGROUND WATER UTILITY LINE
- ROAD SIGN
- OVERHEAD UTILITY POLE
- HYDRANT
- MANHOLE
- UTILITY BOX
- DECIDUOUS TREE
- COORD. GRID (250' GRID)
- POLE
- SURVEY MONUMENT
- SEAD-25
- MW25-2
- MW25-3
- SB25-3

DATE	BTEX	TOT. CHLOR. ORGS.
JUN. 07	29.9	2.01
AUG. 06	3	ND
APR. 06	35	ND
NOV. 95	3040	68
FEB. 94	3950	71

CONTAMINANT CONCENTRATIONS OF BTEX:
 - BENZENE
 - TOLUENE
 - ETHYL BENZENE
 - TOTAL XYLENES
 (OR M/P + O XYLENE)

AND TOTAL CHLORINATED ORGANICS:
 - 1,1,1-TRICHLOROETHANE
 - 1,1-DICHLOROETHANE
 - 1,2-DICHLOROETHANE TOTAL
 (OR 1,2-DICHLOROETHENE)
 - CHLOROFORM
 - TRICHLOROETHENE
 - VINYL CHLORIDE

UNITS (ug/L)
 APR 96, NOV 95, FEB 94, &
 JAN 93 ARE PRE-REMEDIATION.
 ALL OTHER ROUNDS (BOLD)
 ARE POST-REMEDIATION.

ND NOT-DETECT
 NS NOT SAMPLED DUE TO LOW GROUNDWATER LEVELS
 NA WELL NO LONGER SAMPLED AS PART OF THE LTM PROGRAM

NOTES:

1. THE TOTAL BTEX OR TOTAL CHLORINATED ORGANICS CONCENTRATION IS THE SUM OF DETECTED VALUES ONLY.
2. AT WELL LOCATIONS WHERE A DUPLICATE SAMPLE WAS COLLECTED, THE AVERAGE RESULT OF THE SAMPLE AND THE DUPLICATE IS PRESENTED.
3. BEGINNING WITH THE JUNE 2014 SAMPLING EVENT, THE NUMBER OF WELLS SAMPLED AS PART OF THE LTM WAS REDUCED FROM 10 WELLS TO 5 WELLS CONSISTING OF MW25-2, MW25-3, MW25-9, MW25-10, AND MW25-17.



PARSONS



CLIENT/PROJECT TITLE
SENECA ARMY DEPOT
 ROMULUS, NEW YORK
 2015 ANNUAL LONG-TERM MONITORING REPORT FOR SEAD-25

DEPT. ENVIRONMENTAL ENGINEERING Dwg. No.

FIGURE 6
 VOCS DETECTED IN GROUNDWATER
 AT SEAD-25

SCALE AS SHOWN DATE JUNE 2015 REV

Figure 7A
 Concentrations of BTEX over Time at MW25-2
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity

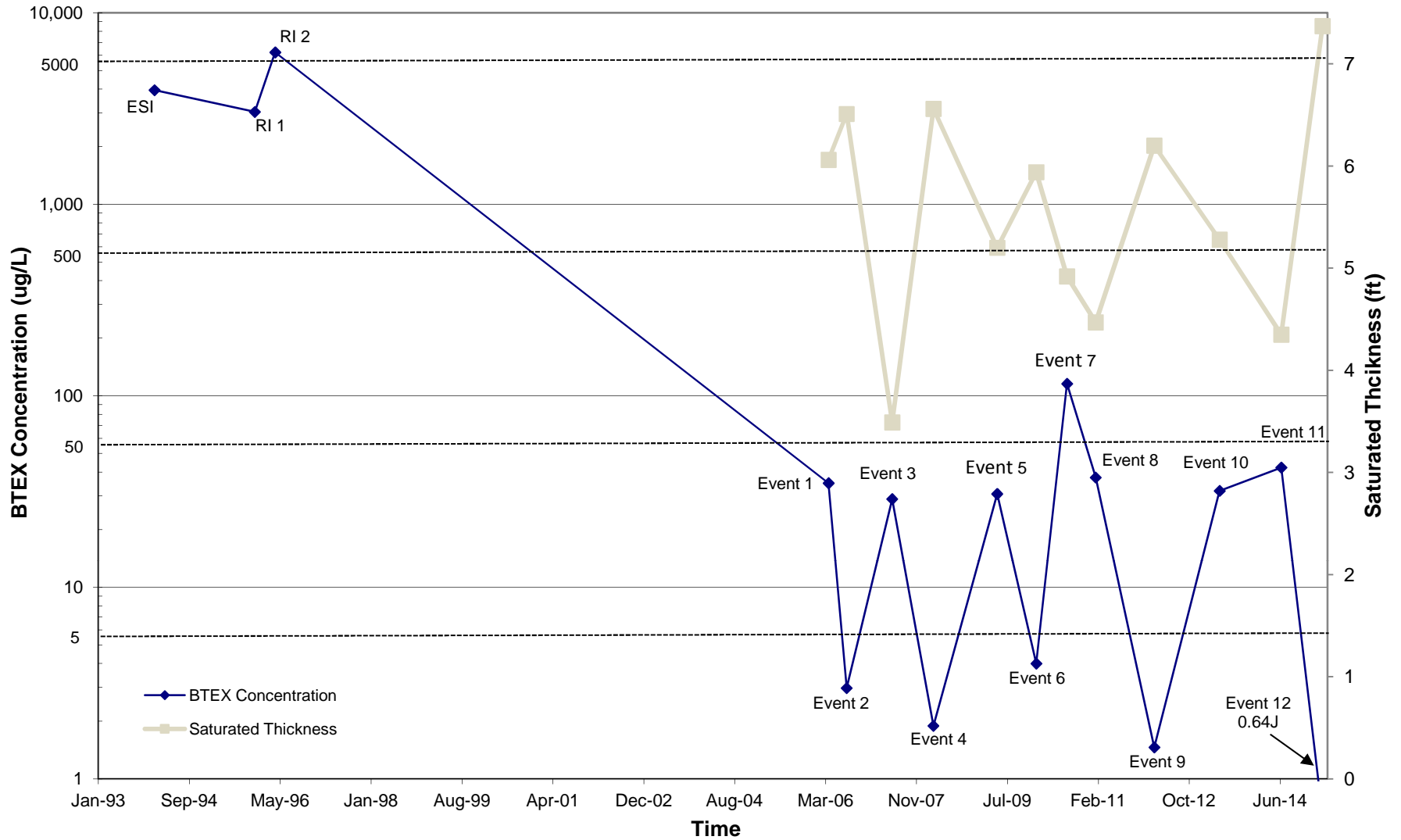
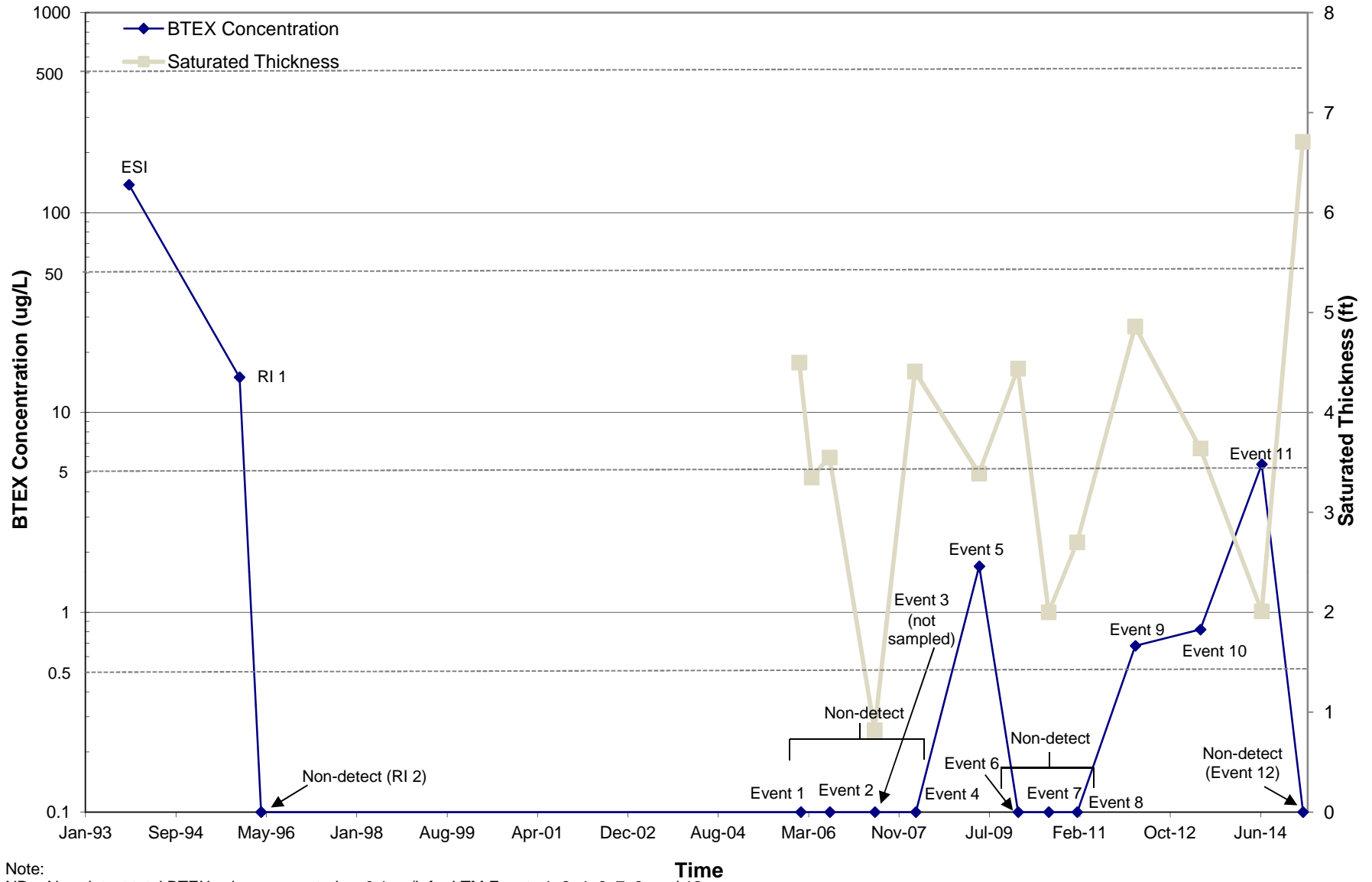
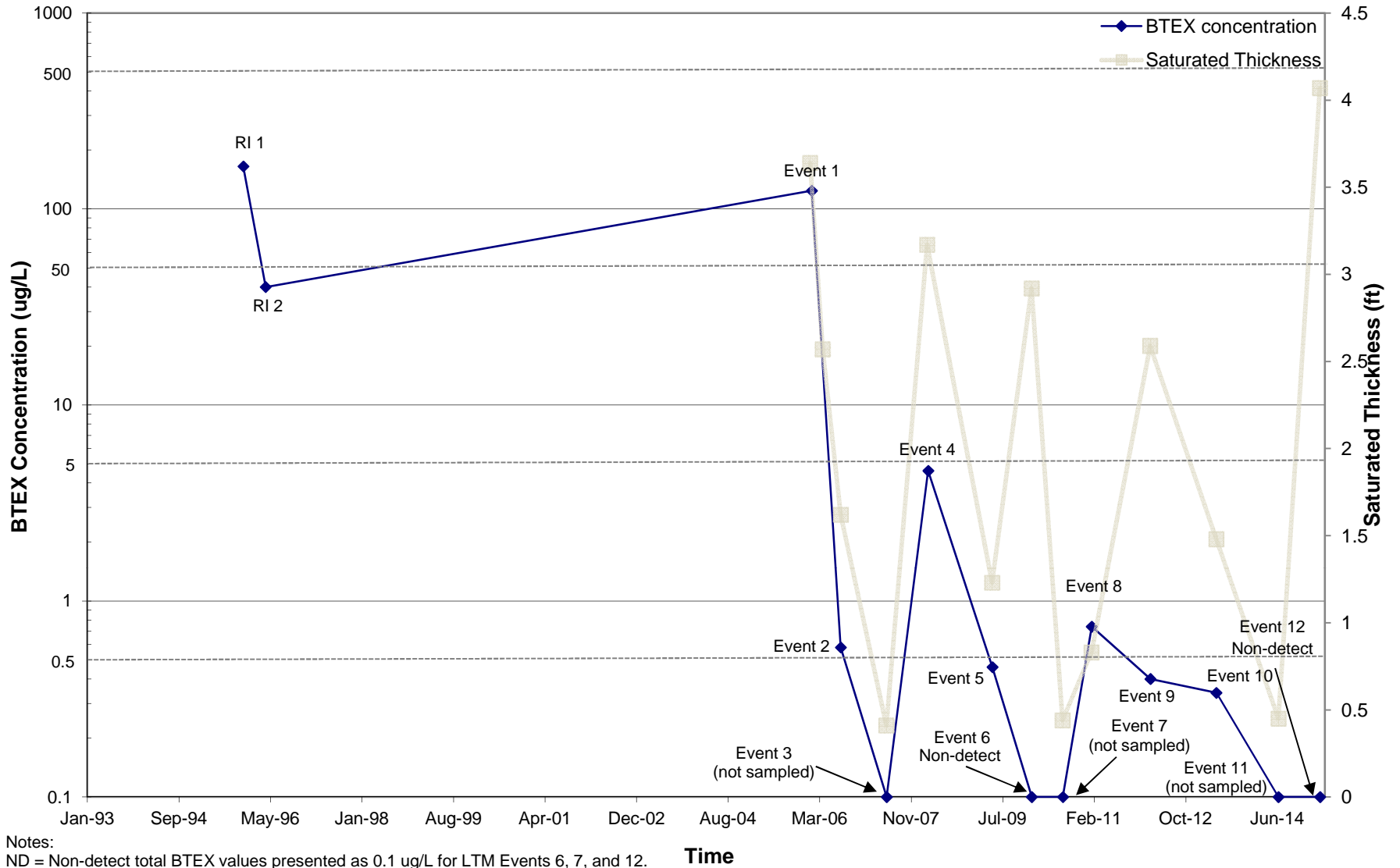


Figure 7B
 Concentrations of BTEX over Time at MW25-3
 2014 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



Note:
 ND = Non-detect total BTEX values presented as 0.1 ug/L for LTM Events 1, 2, 4, 6, 7, 8, and 12.

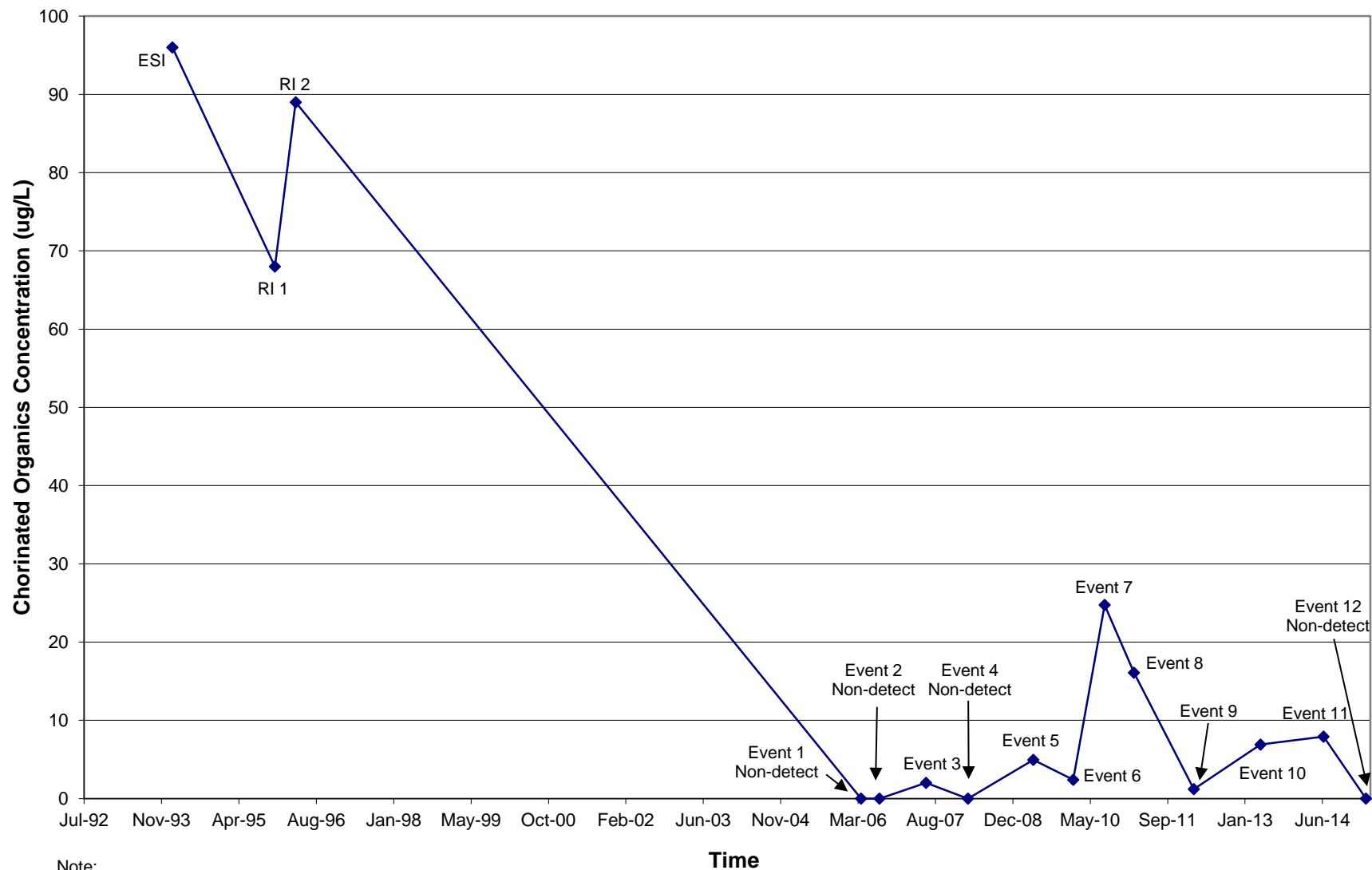
Figure 7C
 Concentrations of BTEX over Time at MW25-9
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



Notes:
 ND = Non-detect total BTEX values presented as 0.1 ug/L for LTM Events 6, 7, and 12.
 MW-9 was not sampled during Event 11 due to a lack of water volume in the well.

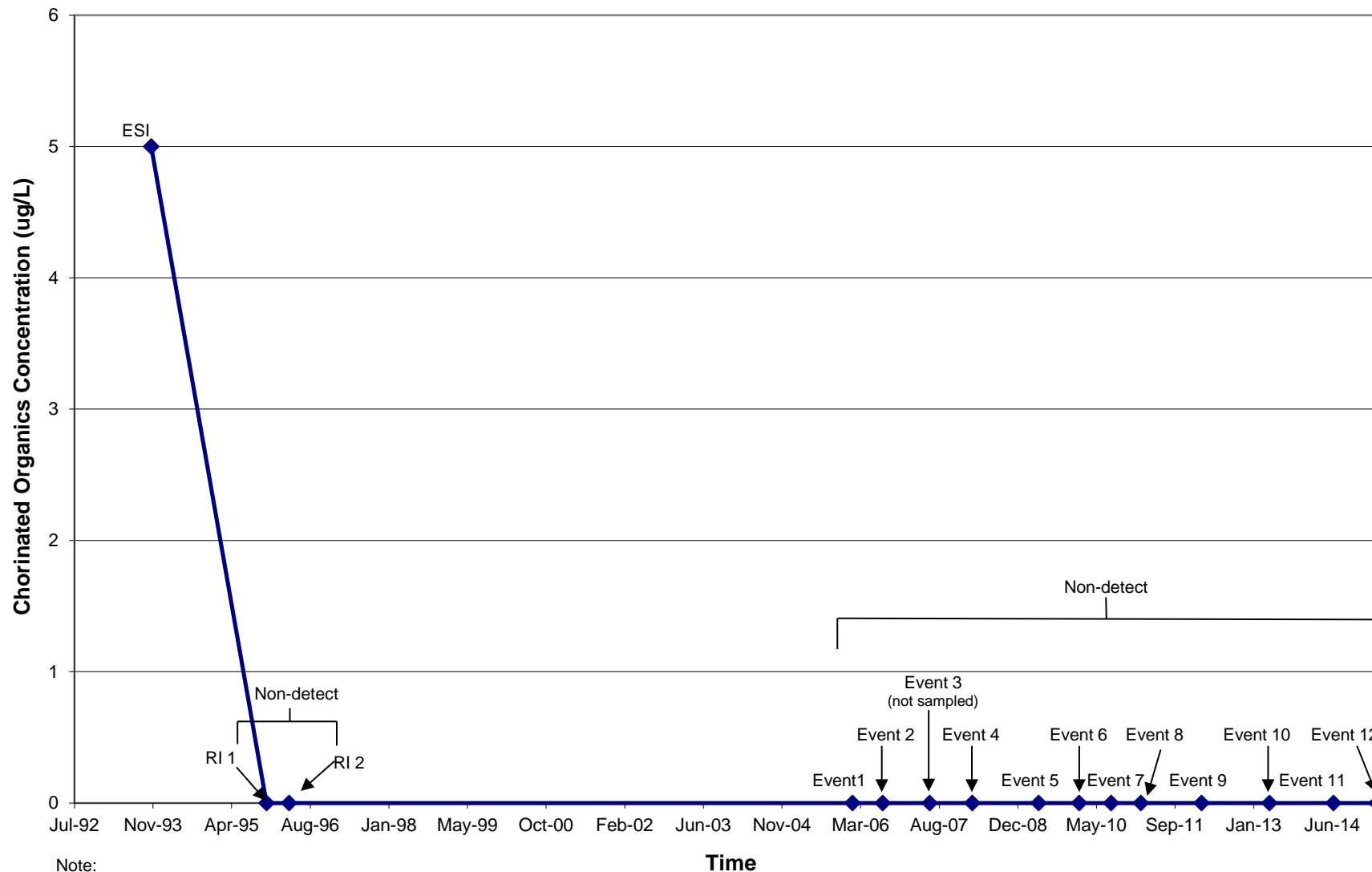
Time

Figure 8A
 Chlorinated VOC COC Concentrations at MW25-2
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



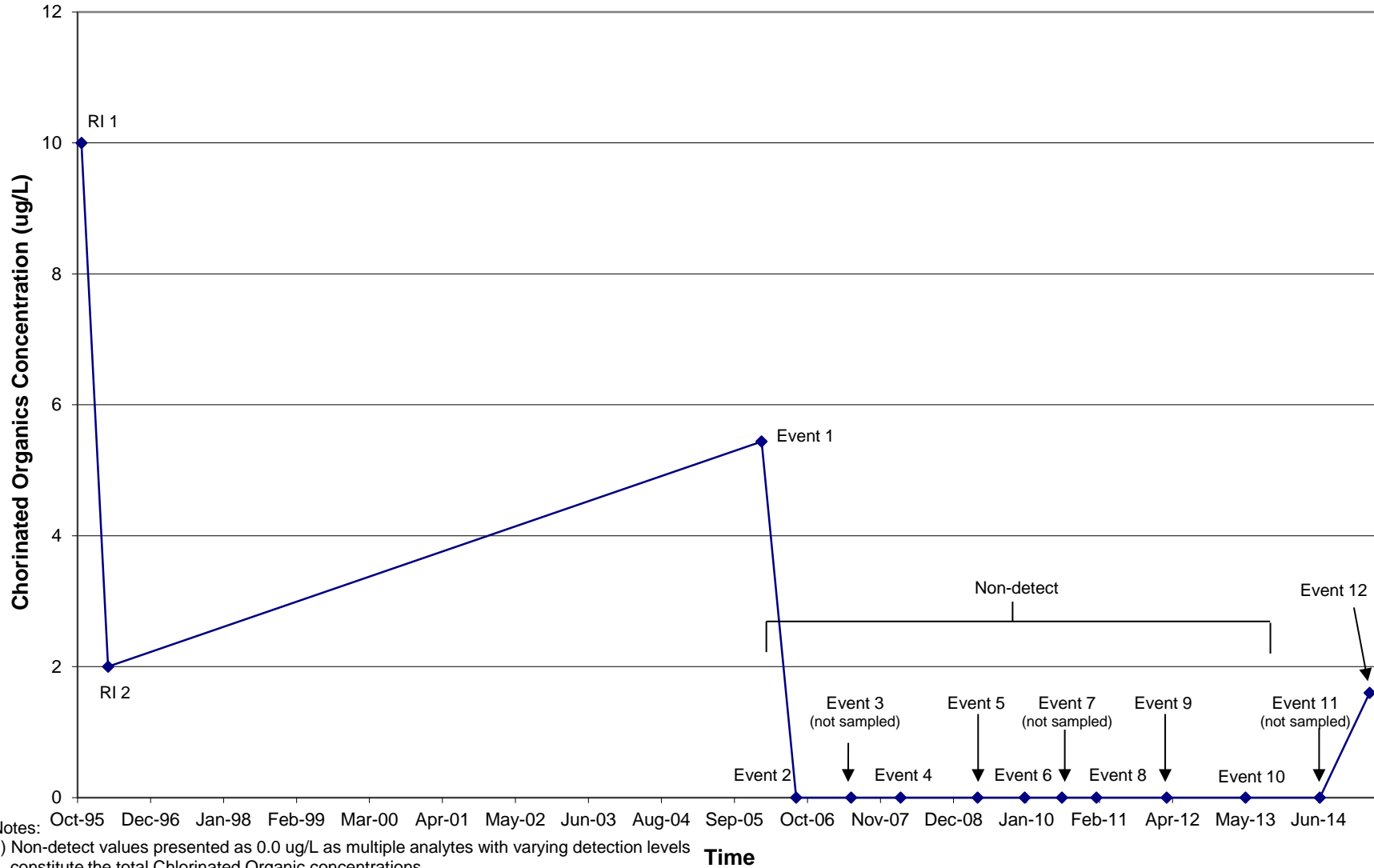
Note:
 Non-detect values presented as 0.0 ug/L as multiple analytes with varying detection levels constitute the total Chlorinated Organic concentrations.

Figure 8B
 Chlorinated VOC COC Concentrations at MW25-3
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



Note:
 Non-detect values presented as 0.0 ug/L as multiple analytes with varying detection levels constitute the total Chlorinated Organic concentrations.

Figure 8C
 Chlorinated VOC COC Concentrations at MW25-9
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity



Notes:
 1) Non-detect values presented as 0.0 ug/L as multiple analytes with varying detection levels constitute the total Chlorinated Organic concentrations.
 2) MW25-9 was not sampled during event 11 due to a lack of water volume in the well.

Figure 9A
 Concentrations of Detected COCs in MW25-2
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activiy

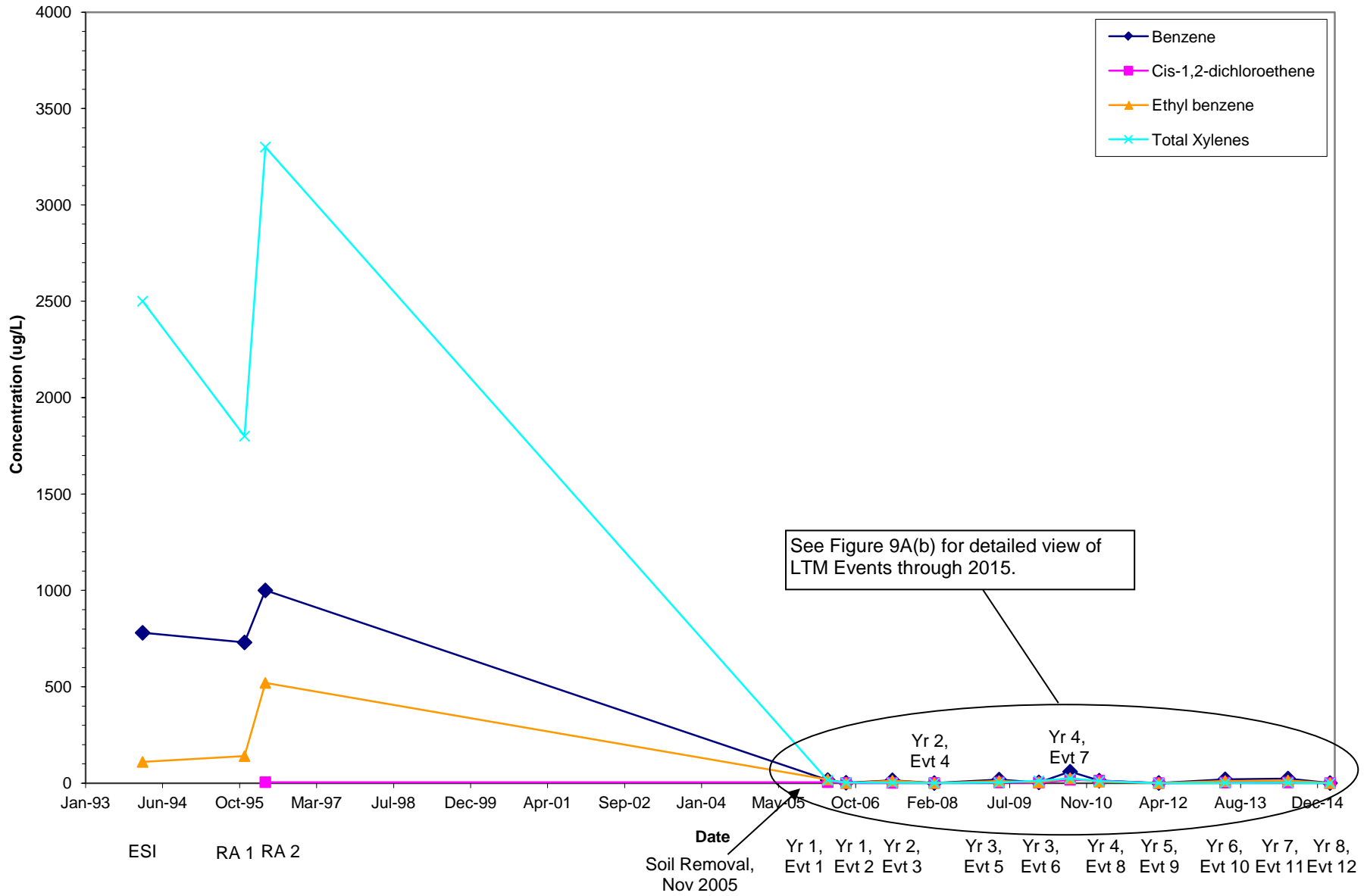


Figure 9A(b)
 Concentrations of Detected COCs in MW25-2
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activiy

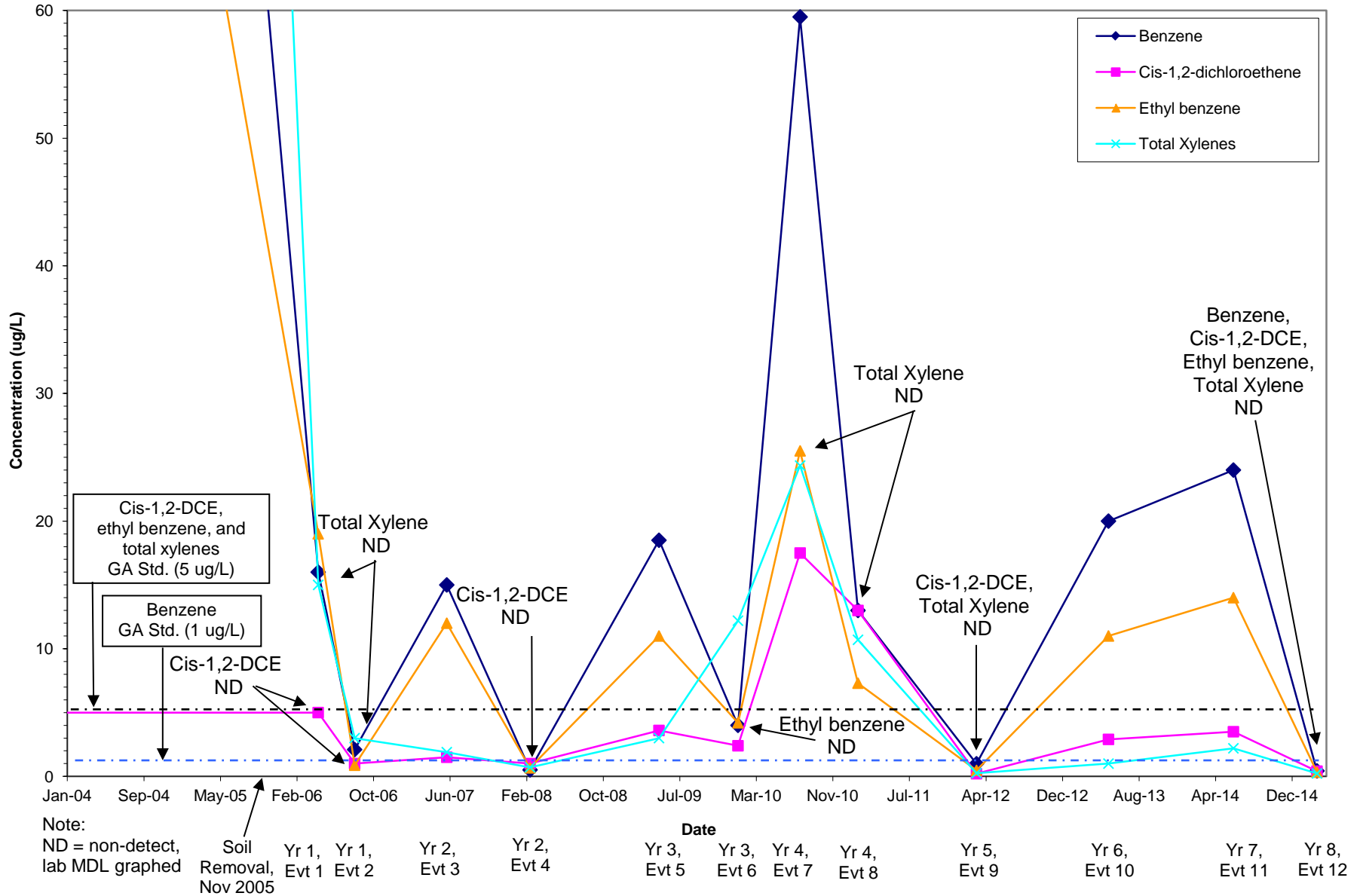


Figure 9B
 Concentrations of Detected COCs in MW25-3
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activiy

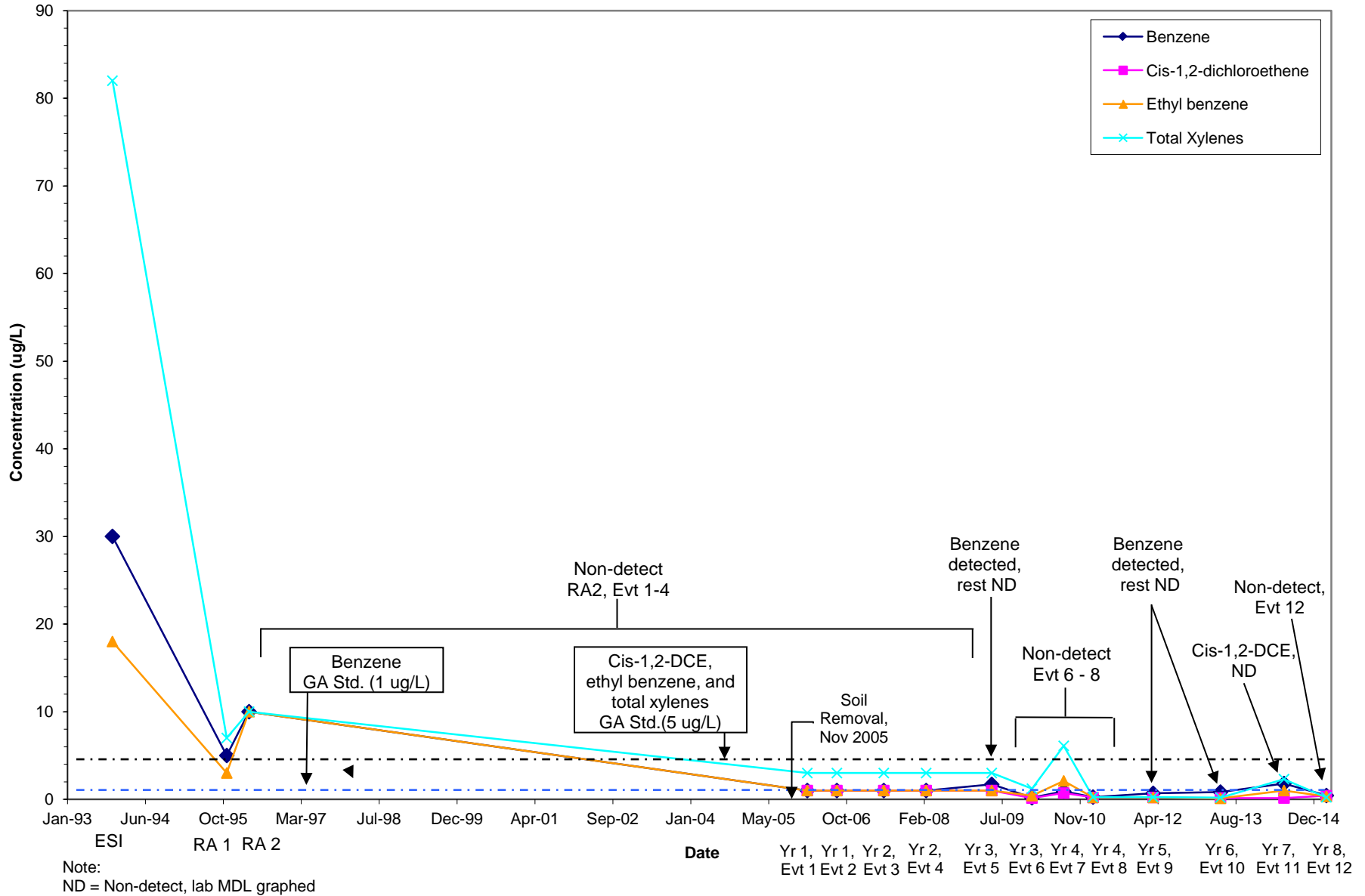
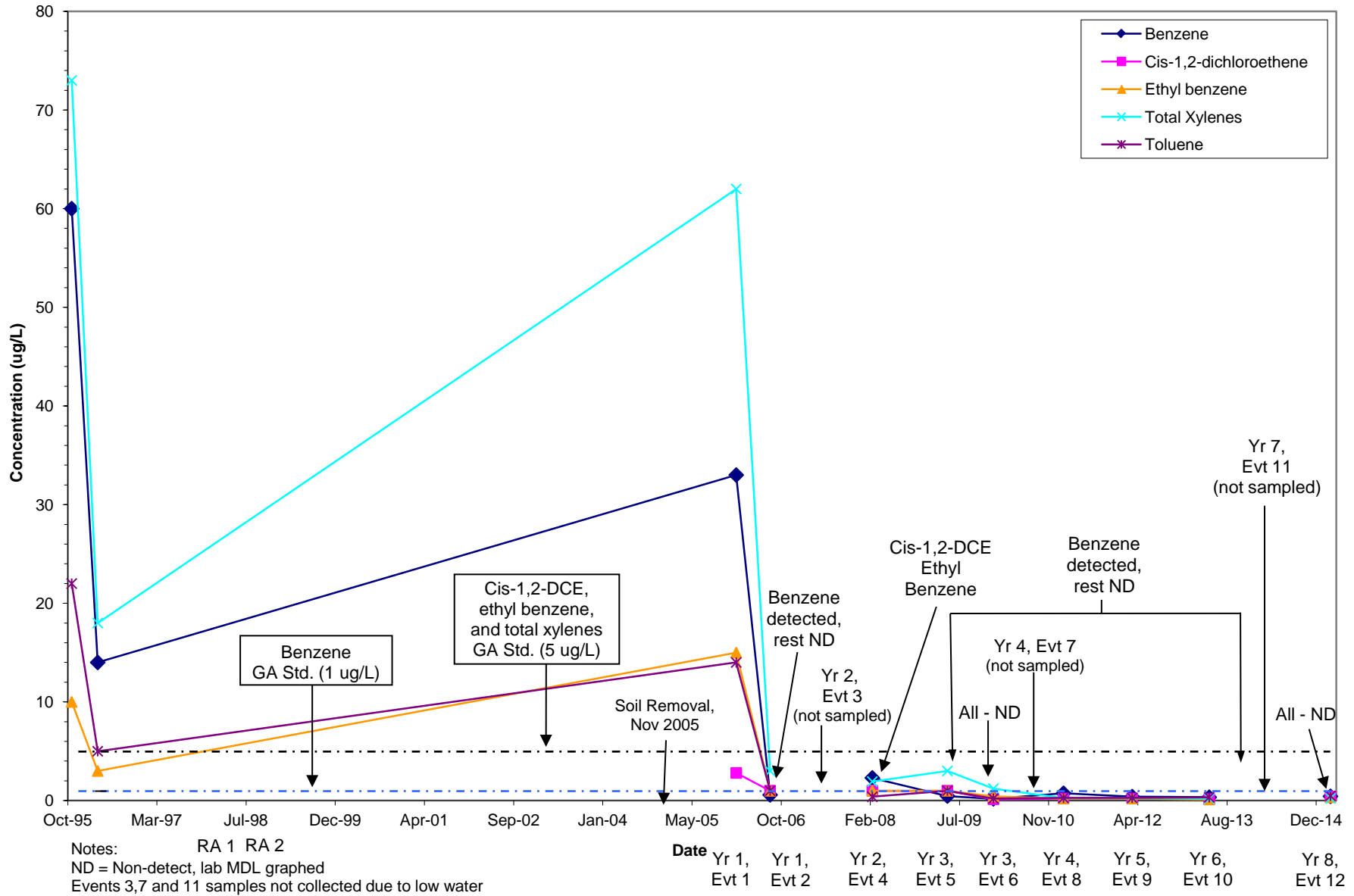


Figure 9C
 Concentrations of Detected COCs in MW25-9
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activiy



APPENDICES

- A Long-Term Monitoring Event 2015 Field Forms
- B Long-Term Monitoring Event 2015 Laboratory Reports
- C Historic Groundwater Elevations (Events 1 through 12)
- D Complete LTM Groundwater Analytical Data (Events 1 through 12)
- E Long-Term Monitoring Event 2015 Data Validation Sheets

APPENDIX A
LONG-TERM MONITORING EVENT 2015 FIELD FORMS

GROUNDWATER ELEVATION REPORT

PARSONS				CLIENT:				DATE: 3/16/2015			
PROJECT: SEAD-25 LTM Round 12								PROJECT NO: _____			
LOCATION: Romeus, NY								INSPECTOR: BBO/SD			
MONITORING EQUIPMENT:						WATER LEVEL INDICATOR:				COMMENTS: Show covered gravel partially wetted	
INSTRUMENT	DETECTOR	BGD	TIME	REMARKS	INSTRUMENT	CORRECTION FACTOR					
WELL	TIME	DEPTH TO Well		CORRECTED	MEASURED	INSTALLED	PRODUCT	WELL STATUS / COMMENTS			
		WATER	PRODUCT	WATER LEVEL	POW	POW	SPEC. GRAV.	<small>(Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of riser, concrete, protective casing, etc.)</small>			
25-1	1432	4.83	7.71					locked, difficult to open			
25-13	1437	2.66	5.47					locked, difficult to open			
25-15	1442	1.97	7.20					locked, stiff to open			
25-18	1453	3.32	11.16					locked, stiff to open			
25-19	1504	4.14	12.01					sprayed lock w/ WD40 to open			
25-16	1508	2.93	14.27					sprayed lock w/ WD40 to open			
25-17	1514	1.72	11.24					locked			
25-10	1518	1.38	6.38					locked			
25-9	1523	1.33	5.40					locked			
25-8	1525	1.51	5.44					locked			
25-3	1527	3.09	9.80					locked			
25-2	1530	3.88	11.25					locked			

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY **PARSONS** WELL #: MW25-2

PROJECT: SEAD-25 LTM Groundwater Sampling - Round 12
 LOCATION: ROMULUS, NY
 DATE: 3/18/15
 INSPECTORS: BB0
 PUMP #: 024852

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)
 SAMPLE ID #: 252M20113

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS	MONITORING	
				VELOCITY (APPRX)	DIRECTION (0 - 360)		INSTRUMENT	DETECTOR
853	21	snow slush		5-15	NW-SE	snow	OVM-580	PID

WELL VOLUME CALCULATION FACTORS
 DIAMETER (INCHES): 0.25 1 2 3 4 6
 GALLONS / FOOT: 0.0026 0.041 0.163 0.367 0.654 1.47
 LITERS / FOOT: 0.010 0.151 0.617 1.389 2.475 5.564
 ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]
1.19 gals = 1 well vol

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
		11.25'				
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME	
		3.97'				
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)			

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (cm/S*2)	pH	ORP (mV)	TURBIDITY (NTU)
911	3.92	Pump started		YSI	YSI	Horiba	Horiba	Horiba	Hech
918	4.17	102		7.16	4.7	0.558	6.96	-49	25.5
923	4.19	114		7.12	4.5	0.613	7.06	-66	20.8
928	4.20		4.57	6.82	4.1	0.655	7.11	-66	12.8
938	4.20	114	~0.25 gal	7.03	3.8	0.625	7.19	-29	9.01
943	4.2			7.29	3.7	0.592	7.23	-15	8.60
948	4.2		~0.5 gal	8.14	3.6	0.534	7.30	2	10.3
953	4.2	113		8.49	3.6	0.501	7.35	12	6.41
958	4.2		~0.8 gal	8.66	3.6	0.478	7.38	21	5.33
1003	4.2	110	~1.0 gal	9.01	3.5	0.464	7.41	30	4.65
1008	4.2			9.01	3.5	0.457	7.43	36	3.72
1013	4.2		~1.25 gals	9.14	3.5	0.449	7.45	38	3.17
1018	4.2	114		9.14	3.4	0.445	7.46	39	2.85
1023	4.2		~1.6 gals	7.14	3.4	0.443	7.48	40	2.59
1028	4.2	116	~1.75 gals	9.16	3.4	0.439	7.48	41	2.55
1033	4.2			8.82	3.4	0.435	7.56	43	-
1038	4.2		~2.0 gal	8.81	3.3	0.432	7.53	44	1.77
1043	4.2	110	~2.25 gal	8.90	3.3	0.426	7.52	44	1.78

1030 - replaced turbidimeter batteries due to low battery light, recalibrated device
 0.1 NTU =
 20 NTU = OK no cal errors
 100 NTU =
 500 NTU =

SAMPLING RECORD - GROUNDWATER									
SENECA ARMY DEPOT ACTIVITY				PARSONS			WELL #: <u>M025-2</u>		
PROJECT: <u>SEAD-25 LTM Groundwater Sampling - Round 12</u>						DATE: <u>3/18/15</u>		INSPECTORS: <u>BBB</u>	
LOCATION: <u>ROMULUS, NY</u>						PUMP #: <u>024852</u>		SAMPLE ID #: <u>25LM 20113</u>	
WEATHER / FIELD CONDITIONS CHECKLIST					(RECORD MAJOR CHANGES)				
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	(FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS		MONITORING	
1039	21	snow shower		10-20	NW-2SE	snow		OVM-580	PID
WELL VOLUME CALCULATION FACTORS DIAMETER (INCHES): 0.25 1 2 3 4 6 GALLONS / FOOT: 0.0026 0.041 0.162 0.367 0.654 1.47 LITERS/FOOT 0.010 0.151 0.617 1.389 2.475 5.564					ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]				
HISTORIC DATA		DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND		
		11.25'							
DATA COLLECTED AT WELL SITE		PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)		DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME		
			3.97						
RADIATION SCREENING DATA		PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)				
MONITORING DATA COLLECTED DURING PURGING OPERATIONS									
TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (cm/S^2)	pH	ORP (mV)	TURBIDITY (NTU)
		Instruments		YSI	YSI	Hor. bx	Hor. bx	Hor. bx	Hech
1048	4.2		~ 2.3 gals	8.85	3.3	0.419	7.57	44	1.63
1053	4.2			8.84	3.3	0.411	7.57	44	1.48
1100		~ 2.5 gals				Sulfide = 0.00 mg/L			
		Samples Collected				checked twice			
		- 3x VOAs for VOC							
		- 3x VOAs for MEF							
		- 1x Plastic for Cl/SO4							
		- 1x Plastic for NO2/NO3							
		- 1x Plastic for Fe/Mn							

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MU25-3
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 12	DATE: 3/18/15	
LOCATION: ROMULUS, NY	INSPECTORS: SD	
	PUMP #: 9500	
	SAMPLE ID #: 25LM20114/115	

WEATHER / FIELD CONDITIONS CHECKLIST				(RECORD MAJOR CHANGES)		
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL.	WIND (FROM)		GROUND / SITE
			HUMIDITY (GEN)	VELOCITY (APPRX)	DIRECTION (0 - 360)	SURFACE CONDITIONS
850	21	snow showers		5-15	NW-75E	snow

WELL VOLUME CALCULATION FACTORS						ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]	
DIAMETER (INCHES):	0.25	1	2	3	4		6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654		1.47
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564	

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
		9.80'				
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME	
		3.26'				
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)		

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (cm/S^2)	pH	ORP (mV)	TURBIDITY (NTU)
		Pump 9	YST in the well	3217	85	Hardy			27206
9:30		Pump Started		3.10					
10:00		Air line iced up. Got cleared. Then water line frozen. Got unblocked. Pumping							
10:05	4.93	118		2.17	3.0	0.819	6.96	245	
10:10	4.98			2.64	3.0	0.823	7.09	245	
10:15	5.04			2.95	2.9	0.823	7.12	244	
10:20	5.03	115		3.14	2.9	0.819	7.14	243	
10:25	5.04			4.04	2.8	0.809	7.18	240	
10:30	5.04	112		3.95	2.8	0.807	7.18	239	5.95
10:35	5.04		6.25 gal	3.65	2.9	0.790	7.20	235	
10:40	5.05			3.53	2.9	0.781	7.19	233	4.83
10:45	5.06	114		3.58	3.0	0.768	7.21	228	4.40
10:50	5.06			3.17	3.0	0.757	7.22	226	
10:55	5.07			3.55	3.1	0.745	7.22	223	3.39
11:00	5.07	114		3.64	3.1	0.741	7.23	222	2.87
11:05	5.07		2 gal	3.65	3.1	0.730	7.23	217	2.49
11:10	5.07	110		3.72	3.1	0.718	7.22	211	2.56
11:15	5.07			3.75	3.1	0.711	7.26	211	2.20
11:20	5.07			3.71	3.1	0.707	7.25	210	2.24
11:25	5.05	111	2.7 gal	3.65	3.1	0.706	7.26	210	2.20
11:30	5.04			3.90	3.1	0.701	7.26	208	2.17

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: <u>MW 25-3</u>
PROJECT: <u>SEAD-25 LTM Groundwater Sampling - Round 12</u>	LOCATION: <u>ROMULUS, NY</u>	DATE: <u>3/18/15</u>
		INSPECTORS: <u>SD</u>
		PUMP #: <u>9500</u>
		SAMPLE ID #: <u>25LM2014/115</u>

WEATHER / FIELD CONDITIONS CHECKLIST				(RECORD MAJOR CHANGES)		
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS
				VELOCITY (APPRX)	DIRECTION (0 - 360)	

WELL VOLUME CALCULATION FACTORS DIAMETER (INCHES): 0.25 1 2 3 4 6 GALLONS / FOOT: 0.0026 0.041 0.163 0.367 0.654 1.47 LITERS / FOOT 0.010 0.151 0.617 1.389 2.475 5.564				ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)] <u>1.05 x .75 = 3.139 gal</u>
---	--	--	--	--

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
		<u>9.80</u>				
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME	
		<u>3.26</u>				
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)			

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (cm/S^2)	pH	ORP (mV)	TURBIDITY (NTU)
<u>1135</u>	<u>5.04</u>	<u>110</u>	<u>3 gal</u>	<u>4.00</u>	<u>3.1</u>	<u>0.698</u>	<u>7.27</u>	<u>207</u>	<u>1.95</u>
<u>1140</u>	<u>5.07</u>	<u>110</u>		<u>4.00</u>	<u>3.1</u>	<u>0.693</u>	<u>7.26</u>	<u>207</u>	<u>2.21</u>
<u>1145</u>	<u>5.07</u>	<u>110</u>		<u>4.01</u>	<u>3.0</u>	<u>0.690</u>	<u>7.28</u>	<u>203</u>	<u>1.83</u>
<u>1150</u>	<u>5.07</u>	<u>110</u>	<u>3.75 gal</u>	<u>4.02</u>	<u>3.1</u>	<u>0.691</u>	<u>7.28</u>	<u>202</u>	<u>1.84</u>
<u>1155</u>	<u>5.07</u>	<u>110</u>		<u>3.76</u>	<u>3.1</u>	<u>0.690</u>	<u>7.28</u>	<u>199</u>	<u>1.91</u>
<u>1200</u>	<u>5.04</u>	<u>110</u>		<u>3.98</u>	<u>3.0</u>	<u>0.693</u>	<u>7.28</u>	<u>196</u>	<u>1.78</u>
<u>1205</u>	<u>5.05</u>	<u>110</u>		<u>3.99</u>	<u>3.0</u>	<u>0.688</u>	<u>7.28</u>	<u>194</u>	<u>1.81</u>
<u>1210</u>	<u>5.05</u>	<u>110</u>		<u>4.06</u>	<u>3.1</u>	<u>0.686</u>	<u>7.29</u>	<u>189</u>	<u>1.79</u>
<u>SAMPLE at 12:15</u>						<u>Sulfide = 0.00 mg/L</u>			
			<u>~ 5.0 gals</u>	<u>check twice</u>					

SAMPLING RECORD - GROUNDWATER										
SENECA ARMY DEPOT ACTIVITY				PARSONS			WELL #: MW25-9			
PROJECT: SEAD-25 LTM Groundwater Sampling - Round 12						DATE: 3/17/15		INSPECTORS: BBC/SD		
LOCATION: ROMULUS, NY						PUMP #: 11284		SAMPLE ID #: 25LM20116		
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)										
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	(FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS		MONITORING INSTRUMENT DETECTOR		
1141	36	overcast		5-15	NW-7SE	snow covered		OVM-580	PID	
1241	33	scattered rain showers		10-20	NW-7SE					
WELL VOLUME CALCULATION FACTORS						ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]				
DIAMETER (INCHES):		0.25	1	2	3	4	6	0.65 gal = 1 well vol		
GALLONS / FOOT:		0.0026	0.041	0.163	0.367	0.654	1.47			
LITERS/FOOT		0.010	0.151	0.617	1.389	2.475	5.564			
HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)		DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND			
	5.40'									
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		DEPTH TO STATIC WATER LEVEL (TOC)		DEPTH TO STABILIZED WATER LEVEL (TOC)		DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME		
			1.37'							
RADIATION SCREENING DATA		PUMP PRIOR TO SAMPLING (cps)				PUMP AFTER SAMPLING (cps)				
MONITORING DATA COLLECTED DURING PURGING OPERATIONS										
TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (cm/S^2)	pH	ORP (mV)	TURBIDITY (NTU)	
1157	0.85	Pump?	YSI in the well							
1157		Pump started		YSI	YSI	Horiba	Horiba	Horiba	Hach	
1204	1.98	85		12.98	2.4	0.400	7.75	211		
1209	2.53	140		13.03	2.3	0.405	7.77	214	7.96	
1214	2.86	95		13.38	2.2	0.406	7.79	210	7.62	
1219	3.32	160	1/2 gal	13.97	2.2	0.395	7.83	205	7.33	
1224	3.25	~150		13.94	2.2	0.405	7.81	204	6.85	
1229	2.94		~1 gal	13.80	2.3	0.424	7.78	202	5.72	
1234	2.80	100		13.76	2.3	0.428	7.73	200	5.36	
1239	2.80	2.75	~1.25 gal	11.74	2.3	0.429	7.75	198	5.18	
1244	2.63	100	~1.25 gals	11.51	2.3	0.429	7.72	195	7.70	
1249	2.74		~1.6 gals	11.11	2.3	0.424	7.74	193	6.38	
1254	2.83		~1.75 gals	10.97	2.2	0.423	7.73	192	4.81	
			~2.5 gals							
1302			Samples Collected							
			-3x VOAs for VOC						Sulfide = 0.02 mg/L	
			-3x VOAs for MEE							
			-1 Plastic for Cd/SO4							
			-1 Plastic for NO2/NO3							
			-1 Plastic for Fe/Mn							

Adjusted to 100 ml
do not include
cube →

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: <u>MW25-10</u>
PROJECT: <u>SEAD-25 LTM Groundwater Sampling - Round 12</u>		DATE: <u>3/17/15</u>
LOCATION: <u>ROMULUS, NY</u>		INSPECTORS: <u>DBO/SD</u>
		PUMP #: <u>R8489</u>
		SAMPLE ID #: <u>25LM20117</u>

WEATHER / FIELD CONDITIONS CHECKLIST				(RECORD MAJOR CHANGES)		
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS
				VELOCITY (APPRX)	DIRECTION (0 - 360)	
1352	32	scattered cloud		10-25	NW → SE	swamp patch

WELL VOLUME CALCULATION FACTORS DIAMETER (INCHES): 0.25 1 2 3 4 6 GALLONS / FOOT: 0.0026 0.041 0.163 0.367 0.654 1.47 LITERS/FOOT: 0.010 0.151 0.617 1.389 2.475 5.564	ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)] <u>0.83 gal = 1 well vol</u>
---	--

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
		6.38'				
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME	
		1.31'				
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)		

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (cm/S^2)	pH	ORP (mV)	TURBIDITY (NTU)
1359	1.08	Pump	2 VST in Well						
1359		Pump	Started						
1407						13.01	2.9		
1407	2.71	~155		13.01	2.9	0.349	7.77	159	5.15
1402	2.73	100		12.90	2.7	0.352	7.70	160	4.15
1417	2.78	130		12.79	2.8	0.357	7.73	159	4.56
1422	2.88		3/4 gal	12.65	2.7	0.362	7.69	161	3.88
1427	2.91	-130		12.80	2.7	0.364	7.67	162	3.58
1432	2.96		~0.9 gal	12.65	2.7	0.366	7.65	164	3.53
1437	2.97	~130		12.60	2.7	0.365	7.64	165	3.66
			~1.75 gal						
1451	1302	Samples Collected							
		-3x VOAs for VOC							
		-3x VOAs for MEE							
		-1x Plastic for CR/SO4							
		-1x Plastic for NO2/NO3							
		-1x Plastic for Fe/Mn							

SAMPLING RECORD - GROUNDWATER													
SENECA ARMY DEPOT ACTIVITY				PARSONS			WELL #: <u>MU25-17</u>						
PROJECT: <u>SEAD-25 LTM Groundwater Sampling - Round 12</u>						DATE: <u>3/17/15</u>							
LOCATION: <u>ROMULUS, NY</u>						INSPECTORS: <u>BBO/SO</u>							
						PUMP #: <u>16362</u>							
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)													
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS	MONITORING						
				VELOCITY (APPRX)	DIRECTION (0 - 360)		INSTRUMENT		DETECTOR				
<u>934</u>	<u>38</u>	<u>overcast light rain</u>		<u>5-10</u>	<u>NW→SE</u>	<u>snow patches</u>	<u>OVM-580</u>		<u>PID</u>				
WELL VOLUME CALCULATION FACTORS DIAMETER (INCHES): 0.25 1 2 3 4 6 GALLONS / FOOT: 0.0026 0.041 0.163 0.367 0.654 1.47 LITERS/FOOT: 0.010 0.151 0.617 1.389 2.475 5.564						ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)] <u>1.56 gal = 1 well vol</u>							
HISTORIC DATA		DEPTH TO POINT OF WELL (TOC)		DEPTH TO TOP OF SCREEN (TOC)		SCREEN LENGTH (FT)		WELL DEVELOPMENT TURBIDITY		WELL DEVELOPMENT pH		WELL DEVELOPMENT SPEC. COND	
		<u>11.24'</u>											
DATA COLLECTED AT WELL SITE		PID READING (OPENING WELL)		DEPTH TO STATIC WATER LEVEL (TOC)		DEPTH TO STABILIZED WATER LEVEL (TOC)		DEPTH TO PUMP INTAKE (TOC)		PUMPING START TIME			
				<u>1.64'</u>									
RADIATION SCREENING DATA			PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)							
MONITORING DATA COLLECTED DURING PURGING OPERATIONS													
TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (cm/S*2)	pH	ORP (mV)	TURBIDITY (NTU)				
<u>953</u>	<u>1.23</u>	<u>Pump started & YSI in well</u>											
<u>954</u>		<u>Pump started</u>											
<u>1004</u>	<u>1.96</u>	<u>78</u>		<u>5.63</u>	<u>4.6</u>	<u>0.537</u>	<u>7.41</u>	<u>217</u>	<u>9.33</u>				
<u>1009</u>	<u>2.21</u>	<u>100</u>		<u>5.89</u>	<u>4.7</u>	<u>0.540</u>	<u>7.45</u>	<u>226</u>	<u>8.63</u>				
<u>1014</u>	<u>2.33</u>			<u>5.49</u>	<u>4.7</u>	<u>0.530</u>	<u>7.49</u>	<u>226</u>	<u>8.08</u>				
<u>1019</u>	<u>2.41</u>	<u>95</u>		<u>4.93</u>	<u>4.9</u>	<u>0.521</u>	<u>7.51</u>	<u>226</u>	<u>5.45</u>				
<u>1024</u>	<u>2.44</u>			<u>4.74</u>	<u>4.8</u>	<u>0.521</u>	<u>7.51</u>	<u>225</u>	<u>3.94</u>				
<u>1029</u>	<u>2.46</u>	<u>70</u>		<u>4.51</u>	<u>5.0</u>	<u>0.519</u>	<u>7.52</u>	<u>223</u>	<u>2.82</u>				
<u>1034</u>	<u>2.51</u>	<u>102</u>		<u>5.22</u>	<u>4.9</u>	<u>0.517</u>	<u>7.50</u>	<u>224</u>	<u>2.43</u>				
<u>1039</u>	<u>2.55</u>		<u>1/2 gal</u>	<u>5.32</u>	<u>5.0</u>	<u>0.514</u>	<u>7.49</u>	<u>227</u>	<u>2.53</u>				
<u>1044</u>		<u>120</u>											
<u>1049</u>	<u>2.55</u>	<u>100</u>	<u>3/4 gal</u>	<u>6.06</u>	<u>5.0</u>	<u>0.515</u>	<u>7.50</u>	<u>226</u>	<u>2.31</u>				
<u>1054</u>	<u>2.97</u>	<u>160</u>		<u>5.80</u>	<u>4.8</u>	<u>0.520</u>	<u>7.48</u>	<u>227</u>	<u>1.82</u>				
<u>1059</u>	<u>3.07</u>		<u>~1.5 gal</u> <u>~2.5 gals</u>	<u>5.59</u>	<u>5.0</u>	<u>0.520</u>	<u>7.51</u>	<u>224</u>	<u>1.65</u>				
<u>1108</u>			<u>Sample collected</u>										
			<u>Filled 3x VOAs for VOC</u>							<u>Sulfide = 0.01 mg/L</u>			
			<u>3x VOAs for MEE</u>							<u>checked time</u>			
			<u>1x Plastic for Cl/SO4</u>										
			<u>1x Plastic for Fe/Mn</u>							<u>→ organic odor to purge water</u>			
			<u>1x Plastic for NO2/NO3</u>										

APPENDIX B
LONG-TERM MONITORING EVENT 2015 LABORATORY REPORTS

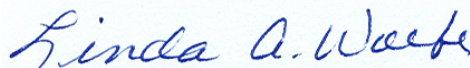
Laboratory Reports have been provided on the electronic (CD) version of this report.

ANALYTICAL REPORT

Job Number: 680-110742-1

Job Description: SEAD-25 Long Term Monitoring

For:
Parsons Corporation
100 High Street
4th Floor
Boston, MA 02110-1713
Attention: Cris Grill



Approved for release.
Linda A Wolfe
Project Manager II
3/30/2015 4:25 PM

Linda A Wolfe, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3005
linda.wolfe@testamericainc.com
03/30/2015

cc: Mr. Brendan Baranek-Olmstead
Ms. Julia Kiberd

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com



Table of Contents

Cover Title Page	1
Data Summaries	5
Report Narrative	5
Sample Summary	6
Executive Summary	7
Method Summary	8
Method / Analyst Summary	9
Sample Datasheets	10
Surrogate Summary	30
QC Data Summary	31
Data Qualifiers	44
QC Association Summary	45
Lab Chronicle	47
Organic Sample Data	49
GC/MS VOA	49
Method 8260B	49
Method 8260B QC Summary	50
Method 8260B Sample Data	60
Standards Data	77
Method 8260B ICAL Data	77
Method 8260B CCAL Data	119
Raw QC Data	133
Method 8260B Tune Data	133
Method 8260B Blank Data	139
Method 8260B LCS/LCSD Data	143
Method 8260B Run Logs	156

Table of Contents

GC VOA	158
Method RSK-175	158
Method RSK-175 QC Summary	159
Method RSK-175 Sample Data	162
Standards Data	171
Method RSK-175 ICAL Data	171
Method RSK-175 CCAL Data	192
Raw QC Data	204
Method RSK-175 Blank Data	204
Method RSK-175 LCS/LCSD Data	207
Method RSK-175 Run Logs	212
HPLC/IC	217
300_ORGFM_28D	217
300_ORGFM_28D QC Summary	218
300_ORGFM_28D Sample Data	221
Standards Data	233
300_ORGFM_28D ICAL Data	233
300_ORGFM_28D CCAL Data	251
Raw QC Data	267
300_ORGFM_28D Blank Data	267
300_ORGFM_28D LCS/LCSD Data	270
300_ORGFM_28D Run Logs	276
Inorganic Sample Data	278
Metals Data	278
Met Cover Page	279
Met Sample Data	280

Table of Contents

Met QC Data	283
Met ICV/CCV	283
Met CRQL	285
Met Blanks	286
Met ICSA/ICSAB	289
Met LCS/LCSD	291
Met MDL	293
Met IECF	295
Met Preparation Log	297
Met Analysis Run Log	298
Met Raw Data	304
Met Prep Data	559
General Chemistry Data	560
Gen Chem Cover Page	561
Gen Chem Sample Data	562
Gen Chem QC Data	565
Gen Chem ICV/CCV	565
Gen Chem Blanks	566
Gen Chem LCS/LCSD	567
Gen Chem MDL	568
Gen Chem Analysis Run Log	570
Gen Chem Raw Data	571
Gen Chem Prep Data	578
Shipping and Receiving Documents	579
Client Chain of Custody	579
Sample Receipt Checklist	580

CASE NARRATIVE

Client: Parsons Corporation

Project: SEAD-25 Long Term Monitoring

Report Number: 680-110742-1

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

RECEIPT

The samples were received on 03/18/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.5 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 25LM20112 (680-110742-1), 25LM20116 (680-110742-2), 25LM20117 (680-110742-3) and 25LM00026 (680-110742-4) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/27/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 376299.

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

DISSOLVED GASES

Samples 25LM20112 (680-110742-1), 25LM20116 (680-110742-2) and 25LM20117 (680-110742-3) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 03/18/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 375077.

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

METALS (ICP)

Samples 25LM20112 (680-110742-1), 25LM20116 (680-110742-2) and 25LM20117 (680-110742-3) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/19/2015 and analyzed on 03/20/2015.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples 25LM20112 (680-110742-1), 25LM20116 (680-110742-2) and 25LM20117 (680-110742-3) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 03/28/2015.

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

NITRATE-NITRITE AS NITROGEN

Samples 25LM20112 (680-110742-1), 25LM20116 (680-110742-2) and 25LM20117 (680-110742-3) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 03/18/2015.

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

SAMPLE SUMMARY

Client: Parsons Corporation

Job Number: 680-110742-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-110742-1	25LM20112	Water	03/17/2015 1108	03/18/2015 0934
680-110742-2	25LM20116	Water	03/17/2015 1302	03/18/2015 0934
680-110742-3	25LM20117	Water	03/17/2015 1451	03/18/2015 0934
680-110742-4	25LM00026	Water	03/17/2015 1550	03/18/2015 0934

EXECUTIVE SUMMARY - Detections

Client: Parsons Corporation

Job Number: 680-110742-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
680-110742-1	25LM20112					
Methane		0.96		0.58	ug/L	RSK-175
Sodium		5200		1000	ug/L	6010C
Nitrate as N		0.24		0.050	mg/L	353.2
Chloride		1.2		0.50	mg/L	300.0
Sulfate		16		1.0	mg/L	300.0
680-110742-2	25LM20116					
Trichloroethene		1.6		1.0	ug/L	8260B
Methane		0.80		0.58	ug/L	RSK-175
Iron		92	J	100	ug/L	6010C
Sodium		14000		1000	ug/L	6010C
Nitrate as N		0.85		0.050	mg/L	353.2
Nitrite as N		0.013	J	0.050	mg/L	353.2
Chloride		2.3		0.50	mg/L	300.0
Sulfate		25		1.0	mg/L	300.0
680-110742-3	25LM20117					
Methane		0.54	J	0.58	ug/L	RSK-175
Iron		200		100	ug/L	6010C
Sodium		9100		1000	ug/L	6010C
Nitrate as N		0.066		0.050	mg/L	353.2
Chloride		2.1		0.50	mg/L	300.0
Sulfate		4.2		1.0	mg/L	300.0

METHOD SUMMARY

Client: Parsons Corporation

Job Number: 680-110742-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Dissolved Gases (GC)	TAL SAV	RSK RSK-175	
Anions, Ion Chromatography	TAL SAV	MCAWW 300.0	
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Total Metals	TAL SAV		SW846 3010A
Nitrogen, Nitrate-Nitrite	TAL SAV	MCAWW 353.2	

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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

METHOD / ANALYST SUMMARY

Client: Parsons Corporation

Job Number: 680-110742-1

Method	Analyst	Analyst ID
SW846 8260B	Tippins, Meagan MT	MMT
RSK RSK-175	McNamara, Alison J	AJMc
SW846 6010C	Bland, Brian C	BCB
MCAWW 353.2	Xiang, George R	GRX
MCAWW 300.0	Seabrooks, Deanna A	DAS

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Date Sampled: 03/17/2015 1108

Client Matrix: Water

Date Received: 03/18/2015 0934

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376299	Instrument ID:	CMSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	OC2716.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/27/2015 1353			Final Weight/Volume:	5 mL
Prep Date:	03/27/2015 1353				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
2-Butanone	ND		3.4	10
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
Dichlorodifluoromethane	ND		0.60	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2-Dichloropropane	ND		0.67	1.0
Ethylbenzene	ND		0.33	1.0
2-Hexanone	ND		2.0	10
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
4-Methyl-2-pentanone	ND		2.1	10
Methyl tert-butyl ether	ND		0.30	10
Styrene	ND		0.27	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
Trichloroethene	ND		0.48	1.0
Trichlorofluoromethane	ND		0.42	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Client Matrix: Water

Date Sampled: 03/17/2015 1108

Date Received: 03/18/2015 0934

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376299	Instrument ID:	CMSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	OC2716.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/27/2015 1353			Final Weight/Volume:	5 mL
Prep Date:	03/27/2015 1353				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Date Sampled: 03/17/2015 1302

Client Matrix: Water

Date Received: 03/18/2015 0934

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376299	Instrument ID:	CMSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	OC2722.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/27/2015 1621			Final Weight/Volume:	5 mL
Prep Date:	03/27/2015 1621				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
2-Butanone	ND		3.4	10
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
Dichlorodifluoromethane	ND		0.60	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2-Dichloropropane	ND		0.67	1.0
Ethylbenzene	ND		0.33	1.0
2-Hexanone	ND		2.0	10
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
4-Methyl-2-pentanone	ND		2.1	10
Methyl tert-butyl ether	ND		0.30	10
Styrene	ND		0.27	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
Trichloroethene	1.6		0.48	1.0
Trichlorofluoromethane	ND		0.42	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Date Sampled: 03/17/2015 1302

Client Matrix: Water

Date Received: 03/18/2015 0934

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376299	Instrument ID:	CMSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	OC2722.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/27/2015 1621			Final Weight/Volume:	5 mL
Prep Date:	03/27/2015 1621				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	112		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Date Sampled: 03/17/2015 1451

Client Matrix: Water

Date Received: 03/18/2015 0934

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376299	Instrument ID:	CMSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	OC2717.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/27/2015 1415			Final Weight/Volume:	5 mL
Prep Date:	03/27/2015 1415				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
2-Butanone	ND		3.4	10
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
Dichlorodifluoromethane	ND		0.60	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2-Dichloropropane	ND		0.67	1.0
Ethylbenzene	ND		0.33	1.0
2-Hexanone	ND		2.0	10
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
4-Methyl-2-pentanone	ND		2.1	10
Methyl tert-butyl ether	ND		0.30	10
Styrene	ND		0.27	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
Trichloroethene	ND		0.48	1.0
Trichlorofluoromethane	ND		0.42	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Date Sampled: 03/17/2015 1451

Client Matrix: Water

Date Received: 03/18/2015 0934

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376299	Instrument ID:	CMSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	OC2717.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/27/2015 1415			Final Weight/Volume:	5 mL
Prep Date:	03/27/2015 1415				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM00026

Lab Sample ID: 680-110742-4

Date Sampled: 03/17/2015 1550

Client Matrix: Water

Date Received: 03/18/2015 0934

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376299	Instrument ID:	CMSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	OC2712.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/27/2015 1223			Final Weight/Volume:	5 mL
Prep Date:	03/27/2015 1223				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
2-Butanone	ND		3.4	10
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
Dichlorodifluoromethane	ND		0.60	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2-Dichloropropane	ND		0.67	1.0
Ethylbenzene	ND		0.33	1.0
2-Hexanone	ND		2.0	10
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
4-Methyl-2-pentanone	ND		2.1	10
Methyl tert-butyl ether	ND		0.30	10
Styrene	ND		0.27	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
Trichloroethene	ND		0.48	1.0
Trichlorofluoromethane	ND		0.42	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM00026

Lab Sample ID: 680-110742-4

Date Sampled: 03/17/2015 1550

Client Matrix: Water

Date Received: 03/18/2015 0934

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376299	Instrument ID:	CMSO2
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	OC2712.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/27/2015 1223			Final Weight/Volume:	5 mL
Prep Date:	03/27/2015 1223				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Client Matrix: Water

Date Sampled: 03/17/2015 1108

Date Received: 03/18/2015 0934

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	680-375077	Instrument ID:	CVGU
	N/A		N/A	Initial Weight/Volume:	17 mL
Dilution:	1.0			Final Weight/Volume:	17 mL
Analysis Date:	03/18/2015 1533			Injection Volume:	5 mL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethane	ND		0.55	1.1
Ethene	ND		0.50	1.0
Methane	0.96		0.29	0.58

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Date Sampled: 03/17/2015 1302

Client Matrix: Water

Date Received: 03/18/2015 0934

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	680-375077	Instrument ID:	CVGU
	N/A		N/A	Initial Weight/Volume:	17 mL
Dilution:	1.0			Final Weight/Volume:	17 mL
Analysis Date:	03/18/2015 1546			Injection Volume:	5 mL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethane	ND		0.55	1.1
Ethene	ND		0.50	1.0
Methane	0.80		0.29	0.58

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Date Sampled: 03/17/2015 1451

Client Matrix: Water

Date Received: 03/18/2015 0934

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	680-375077	Instrument ID:	CVGU
	N/A		N/A	Initial Weight/Volume:	17 mL
Dilution:	1.0			Final Weight/Volume:	17 mL
Analysis Date:	03/18/2015 1559			Injection Volume:	5 mL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethane	ND		0.55	1.1
Ethene	ND		0.50	1.0
Methane	0.54	J	0.29	0.58

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Client Matrix: Water

Date Sampled: 03/17/2015 1108

Date Received: 03/18/2015 0934

300.0 Anions, Ion Chromatography

Analysis Method:	300.0	Analysis Batch:	680-376520	Instrument ID:	CICL
	N/A	Prep Batch:	N/A	Lab File ID:	0328150028-44.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2015 0028			Final Weight/Volume:	5 mL
Prep Date:	N/A			Injection Volume:	25 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chloride	1.2		0.20	0.50
Sulfate	16		0.40	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Date Sampled: 03/17/2015 1302

Client Matrix: Water

Date Received: 03/18/2015 0934

300.0 Anions, Ion Chromatography

Analysis Method:	300.0	Analysis Batch:	680-376520	Instrument ID:	CICL
	N/A	Prep Batch:	N/A	Lab File ID:	0328150043-45.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2015 0043			Final Weight/Volume:	5 mL
Prep Date:	N/A			Injection Volume:	25 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chloride	2.3		0.20	0.50
Sulfate	25		0.40	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Client Matrix: Water

Date Sampled: 03/17/2015 1451

Date Received: 03/18/2015 0934

300.0 Anions, Ion Chromatography

Analysis Method:	300.0	Analysis Batch:	680-376520	Instrument ID:	CICL
	N/A	Prep Batch:	N/A	Lab File ID:	0328150057-46.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/28/2015 0057			Final Weight/Volume:	5 mL
Prep Date:	N/A			Injection Volume:	25 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chloride	2.1		0.20	0.50
Sulfate	4.2		0.40	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Client Matrix: Water

Date Sampled: 03/17/2015 1108

Date Received: 03/18/2015 0934

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-375647	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-375261	Lab File ID:	E03202015B.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/20/2015 1938			Final Weight/Volume:	50 mL
Prep Date:	03/19/2015 1117				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	ND		50	100
Sodium	5200		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Date Sampled: 03/17/2015 1302

Client Matrix: Water

Date Received: 03/18/2015 0934

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-375647	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-375261	Lab File ID:	E03202015B.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/20/2015 1942			Final Weight/Volume:	50 mL
Prep Date:	03/19/2015 1117				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	92	J	50	100
Sodium	14000		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-110742-1

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Date Sampled: 03/17/2015 1451

Client Matrix: Water

Date Received: 03/18/2015 0934

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-375647	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-375261	Lab File ID:	E03202015B.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/20/2015 1947			Final Weight/Volume:	50 mL
Prep Date:	03/19/2015 1117				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	200		50	100
Sodium	9100		500	1000

Client: Parsons Corporation

Job Number: 680-110742-1

General Chemistry

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Date Sampled: 03/17/2015 1108

Client Matrix: Water

Date Received: 03/18/2015 0934

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.24		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375288	Analysis Date: 03/18/2015 1835					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375288	Analysis Date: 03/18/2015 1835					

Client: Parsons Corporation

Job Number: 680-110742-1

General Chemistry

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Date Sampled: 03/17/2015 1302

Client Matrix: Water

Date Received: 03/18/2015 0934

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.85		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375288	Analysis Date: 03/18/2015 1836					
Nitrite as N	0.013	J	mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375288	Analysis Date: 03/18/2015 1836					

Client: Parsons Corporation

Job Number: 680-110742-1

General Chemistry

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Date Sampled: 03/17/2015 1451

Client Matrix: Water

Date Received: 03/18/2015 0934

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.066		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375288	Analysis Date: 03/18/2015 1837					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375288	Analysis Date: 03/18/2015 1837					

Client: Parsons Corporation

Job Number: 680-110742-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
680-110742-1	25LM20112	97	98	98	90
680-110742-2	25LM20116	108	112	98	98
680-110742-3	25LM20117	99	97	100	95
680-110742-4	25LM00026	101	99	102	92
MB 680-376299/9		100	97	101	96
LCS 680-376299/4		98	101	97	88
LCSD 680-376299/5		100	97	100	87

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

Method Blank - Batch: 680-376299

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: MB 680-376299/9
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 1110
 Prep Date: 03/27/2015 1110
 Leach Date: N/A

Analysis Batch: 680-376299
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CMSO2
 Lab File ID: OC2709Q.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	ND		7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
2-Butanone	ND		3.4	10
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
Dichlorodifluoromethane	ND		0.60	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2-Dichloropropane	ND		0.67	1.0
Ethylbenzene	ND		0.33	1.0
2-Hexanone	ND		2.0	10
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
4-Methyl-2-pentanone	ND		2.1	10
Methyl tert-butyl ether	ND		0.30	10
Styrene	ND		0.27	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
Trichloroethene	ND		0.48	1.0
Trichlorofluoromethane	ND		0.42	1.0

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

Method Blank - Batch: 680-376299

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 680-376299/9
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/27/2015 1110
Prep Date: 03/27/2015 1110
Leach Date: N/A

Analysis Batch: 680-376299
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: CMSO2
Lab File ID: OC2709Q.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	97	70 - 130
Dibromofluoromethane (Surr)	100	70 - 130
4-Bromofluorobenzene (Surr)	96	70 - 130

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-376299**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376299/4	Analysis Batch: 680-376299	Instrument ID: CMSO2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: OC2704Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/27/2015 0902	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/27/2015 0902		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 680-376299/5	Analysis Batch: 680-376299	Instrument ID: CMSO2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: OC2705Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/27/2015 0924	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/27/2015 0924		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Acetone	90	87	60 - 154	4	40		
Benzene	100	101	73 - 131	2	30		
Bromodichloromethane	99	98	77 - 129	1	20		
Bromoform	98	100	69 - 135	2	20		
Bromomethane	58	68	20 - 180	16	40		
2-Butanone	93	93	75 - 133	0	30		
Carbon disulfide	91	94	73 - 127	3	20		
Carbon tetrachloride	99	103	75 - 130	5	20		
Chlorobenzene	100	100	80 - 120	0	20		
Chloroethane	73	79	50 - 151	9	30		
Chloroform	100	101	79 - 122	1	20		
Chloromethane	77	78	63 - 126	2	30		
cis-1,2-Dichloroethene	97	99	80 - 122	2	20		
cis-1,3-Dichloropropene	100	97	80 - 133	3	20		
Cyclohexane	94	101	69 - 130	7	30		
Dibromochloromethane	102	98	71 - 136	4	20		
1,2-Dibromo-3-Chloropropane	112	113	59 - 141	1	30		
1,2-Dibromoethane	100	98	77 - 131	2	30		
1,2-Dichlorobenzene	97	99	80 - 120	2	20		
1,3-Dichlorobenzene	97	98	80 - 120	2	20		
1,4-Dichlorobenzene	98	99	80 - 120	1	20		
Dichlorodifluoromethane	64	68	51 - 140	6	40		
1,1-Dichloroethane	99	101	80 - 120	2	20		
1,2-Dichloroethane	103	100	75 - 130	3	20		
1,1-Dichloroethene	89	92	74 - 125	4	20		
1,2-Dichloropropane	96	98	80 - 123	2	20		
Ethylbenzene	99	100	80 - 120	1	20		
2-Hexanone	97	98	70 - 141	1	40		
Isopropylbenzene	98	103	80 - 120	4	20		
Methyl acetate	111	111	66 - 134	1	30		
Methylcyclohexane	94	100	75 - 127	7	30		
Methylene Chloride	95	97	76 - 129	2	20		
4-Methyl-2-pentanone	102	103	75 - 135	0	30		
Methyl tert-butyl ether	100	100	74 - 135	0	20		
Styrene	94	97	80 - 122	3	20		
1,1,2,2-Tetrachloroethane	104	104	72 - 128	1	20		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-376299**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376299/4	Analysis Batch: 680-376299	Instrument ID: CMSO2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: OC2704Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/27/2015 0902	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/27/2015 0902		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 680-376299/5	Analysis Batch: 680-376299	Instrument ID: CMSO2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: OC2705Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/27/2015 0924	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/27/2015 0924		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Tetrachloroethene	100	100	77 - 123	1	20		
Toluene	97	99	80 - 122	2	20		
trans-1,2-Dichloroethene	94	100	78 - 123	6	20		
trans-1,3-Dichloropropene	105	105	74 - 140	0	20		
1,2,4-Trichlorobenzene	99	99	77 - 131	0	20		
1,1,1-Trichloroethane	97	102	74 - 128	6	20		
1,1,2-Trichloroethane	99	98	79 - 125	1	20		
Trichloroethene	100	100	80 - 123	0	20		
Trichlorofluoromethane	79	104	58 - 145	28	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	87	95	65 - 131	8	30		
Vinyl chloride	92	96	68 - 132	5	30		
Xylenes, Total	96	99	80 - 120	3	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	97		100		70 - 130		
1,2-Dichloroethane-d4 (Surr)	101		97		70 - 130		
Dibromofluoromethane (Surr)	98		100		70 - 130		
4-Bromofluorobenzene (Surr)	88		87		70 - 130		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-376299**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376299/4 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 0902
 Prep Date: 03/27/2015 0902
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-376299/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 0924
 Prep Date: 03/27/2015 0924
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	250	250	226	217
Benzene	50.0	50.0	49.8	50.7
Bromodichloromethane	50.0	50.0	49.5	49.0
Bromoform	50.0	50.0	49.1	50.1
Bromomethane	50.0	50.0	29.0	34.0
2-Butanone	250	250	232	231
Carbon disulfide	50.0	50.0	45.7	47.2
Carbon tetrachloride	50.0	50.0	49.3	51.6
Chlorobenzene	50.0	50.0	50.1	50.0
Chloroethane	50.0	50.0	36.5	39.7
Chloroform	50.0	50.0	50.1	50.5
Chloromethane	50.0	50.0	38.4	39.1
cis-1,2-Dichloroethene	50.0	50.0	48.7	49.7
cis-1,3-Dichloropropene	50.0	50.0	50.0	48.5
Cyclohexane	50.0	50.0	47.1	50.4
Dibromochloromethane	50.0	50.0	51.2	49.1
1,2-Dibromo-3-Chloropropane	50.0	50.0	55.9	56.3
1,2-Dibromoethane	50.0	50.0	50.1	49.2
1,2-Dichlorobenzene	50.0	50.0	48.6	49.4
1,3-Dichlorobenzene	50.0	50.0	48.5	49.2
1,4-Dichlorobenzene	50.0	50.0	49.0	49.4
Dichlorodifluoromethane	50.0	50.0	32.1	34.0
1,1-Dichloroethane	50.0	50.0	49.7	50.6
1,2-Dichloroethane	50.0	50.0	51.7	50.1
1,1-Dichloroethene	50.0	50.0	44.3	46.1
1,2-Dichloropropane	50.0	50.0	48.2	49.0
Ethylbenzene	50.0	50.0	49.4	49.9
2-Hexanone	250	250	243	245
Isopropylbenzene	50.0	50.0	49.2	51.3
Methyl acetate	250	250	279	277
Methylcyclohexane	50.0	50.0	46.8	49.9
Methylene Chloride	50.0	50.0	47.5	48.3
4-Methyl-2-pentanone	250	250	255	256
Methyl tert-butyl ether	50.0	50.0	49.9	49.8
Styrene	50.0	50.0	47.1	48.5
1,1,2,2-Tetrachloroethane	50.0	50.0	51.8	52.2
Tetrachloroethene	50.0	50.0	50.2	49.9
Toluene	50.0	50.0	48.7	49.7
trans-1,2-Dichloroethene	50.0	50.0	47.2	50.1

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-376299**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376299/4 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 0902
 Prep Date: 03/27/2015 0902
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-376299/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 0924
 Prep Date: 03/27/2015 0924
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
trans-1,3-Dichloropropene	50.0	50.0	52.5	52.4
1,2,4-Trichlorobenzene	50.0	50.0	49.7	49.7
1,1,1-Trichloroethane	50.0	50.0	48.3	51.1
1,1,2-Trichloroethane	50.0	50.0	49.7	49.1
Trichloroethene	50.0	50.0	49.8	50.0
Trichlorofluoromethane	50.0	50.0	39.3	52.1
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0	43.6	47.4
Vinyl chloride	50.0	50.0	45.9	48.1
Xylenes, Total	100	100	96.3	99.0

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

Method Blank - Batch: 680-375077

Lab Sample ID: MB 680-375077/8
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/18/2015 1111
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-375077
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

**Method: RSK-175
 Preparation: N/A**

Instrument ID: CVGU
 Lab File ID: Uc1807.d
 Initial Weight/Volume: 17 mL
 Final Weight/Volume: 17 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Ethane	ND		0.55	1.1
Ethene	ND		0.50	1.0
Methane	ND		0.29	0.58

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 680-375077

**Method: RSK-175
 Preparation: N/A**

LCS Lab Sample ID: LCS 680-375077/6
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/18/2015 1058
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-375077
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CVGU
 Lab File ID: Uc1806.d
 Initial Weight/Volume: 17 mL
 Final Weight/Volume: 17 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-375077/23
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/18/2015 1712
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-375077
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CVGU
 Lab File ID: Uc1823.d
 Initial Weight/Volume: 17 mL
 Final Weight/Volume: 17 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethane	103	104	75 - 125	2	30		
Ethene	104	103	75 - 125	1	30		
Methane	107	111	75 - 125	4	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-375077**

**Method: RSK-175
Preparation: N/A**

LCS Lab Sample ID: LCS 680-375077/6 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/18/2015 1058
Prep Date: N/A
Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-375077/23
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/18/2015 1712
Prep Date: N/A
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ethane	288	288	296	300
Ethene	269	269	279	277
Methane	154	154	164	170

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

Method Blank - Batch: 680-376520

Lab Sample ID: MB 680-376520/25
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 2036
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376520
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

**Method: 300.0
 Preparation: N/A**

Instrument ID: CICL
 Lab File ID: 0327152036-28.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

Analyte	Result	Qual	MDL	RL
Chloride	ND		0.20	0.50
Sulfate	ND		0.40	1.0

**Lab Control Sample/
 Lab Control Sample Duplicate Recovery Report - Batch: 680-376520**

**Method: 300.0
 Preparation: N/A**

LCS Lab Sample ID: LCS 680-376520/26
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 2051
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376520
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: CICL
 Lab File ID: 0327152051-29.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

LCSD Lab Sample ID: LCSD 680-376520/27
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 2105
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376520
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: CICL
 Lab File ID: 0327152105-30.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Chloride	104	104	90 - 110	0	30		
Sulfate	97	98	90 - 110	0	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-376520**

**Method: 300.0
Preparation: N/A**

LCS Lab Sample ID: LCS 680-376520/26 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/27/2015 2051
Prep Date: N/A
Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-376520/27
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/27/2015 2105
Prep Date: N/A
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	10.0	10.0	10.4	10.4
Sulfate	10.0	10.0	9.72	9.75

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

Method Blank - Batch: 680-375261

**Method: 6010C
Preparation: 3010A**

Lab Sample ID: MB 680-375261/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/20/2015 1850
Prep Date: 03/19/2015 1117
Leach Date: N/A

Analysis Batch: 680-375647
Prep Batch: 680-375261
Leach Batch: N/A
Units: ug/L

Instrument ID: ICPE
Lab File ID: E03202015B.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Iron	ND		50	100
Sodium	ND		500	1000

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-375261**

**Method: 6010C
Preparation: 3010A**

LCS Lab Sample ID: LCS 680-375261/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/20/2015 1855
Prep Date: 03/19/2015 1117
Leach Date: N/A

Analysis Batch: 680-375647
Prep Batch: 680-375261
Leach Batch: N/A
Units: ug/L

Instrument ID: ICPE
Lab File ID: E03202015B.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 680-375261/10-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/20/2015 1952
Prep Date: 03/19/2015 1118
Leach Date: N/A

Analysis Batch: 680-375647
Prep Batch: 680-375261
Leach Batch: N/A
Units: ug/L

Instrument ID: ICPE
Lab File ID: E03202015B.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Iron	101	101	80 - 120	0	20		
Sodium	104	106	80 - 120	2	20		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-375261**

**Method: 6010C
Preparation: 3010A**

LCS Lab Sample ID: LCS 680-375261/2-A Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/20/2015 1855
Prep Date: 03/19/2015 1117
Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-375261/10-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/20/2015 1952
Prep Date: 03/19/2015 1118
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Iron	5000	5000	5070	5050
Sodium	5000	5000	5190	5280

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

Method Blank - Batch: 680-375288

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 680-375288/13	Analysis Batch:	680-375288	Instrument ID:	LACHAT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	OM_3-18-2015_18-05-14.C
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	03/18/2015 1820	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate as N	ND		0.010	0.050
Nitrite as N	ND		0.010	0.050

Lab Control Sample - Batch: 680-375288

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCS 680-375288/16	Analysis Batch:	680-375288	Instrument ID:	LACHAT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	OM_3-18-2015_18-05-14.C
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	03/18/2015 1824	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	0.500	0.525	105	75 - 125	
Nitrite as N	0.500	0.489	98	90 - 110	

DATA REPORTING QUALIFIERS

Client: Parsons Corporation

Job Number: 680-110742-1

Lab Section	Qualifier	Description
GC VOA	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-376299					
LCS 680-376299/4	Lab Control Sample	T	Water	8260B	
LCSD 680-376299/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-376299/9	Method Blank	T	Water	8260B	
680-110742-1	25LM20112	T	Water	8260B	
680-110742-2	25LM20116	T	Water	8260B	
680-110742-3	25LM20117	T	Water	8260B	
680-110742-4	25LM00026	T	Water	8260B	

Report Basis

T = Total

GC VOA

Analysis Batch:680-375077					
LCS 680-375077/6	Lab Control Sample	T	Water	RSK-175	
LCSD 680-375077/23	Lab Control Sample Duplicate	T	Water	RSK-175	
MB 680-375077/8	Method Blank	T	Water	RSK-175	
680-110742-1	25LM20112	T	Water	RSK-175	
680-110742-2	25LM20116	T	Water	RSK-175	
680-110742-3	25LM20117	T	Water	RSK-175	

Report Basis

T = Total

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-375261					
LCS 680-375261/2-A	Lab Control Sample	T	Water	3010A	
LCSD 680-375261/10-A	Lab Control Sample Duplicate	T	Water	3010A	
MB 680-375261/1-A	Method Blank	T	Water	3010A	
680-110742-1	25LM20112	T	Water	3010A	
680-110742-2	25LM20116	T	Water	3010A	
680-110742-3	25LM20117	T	Water	3010A	
Analysis Batch:680-375647					
LCS 680-375261/2-A	Lab Control Sample	T	Water	6010C	680-375261
LCSD 680-375261/10-A	Lab Control Sample Duplicate	T	Water	6010C	680-375261
MB 680-375261/1-A	Method Blank	T	Water	6010C	680-375261
680-110742-1	25LM20112	T	Water	6010C	680-375261
680-110742-2	25LM20116	T	Water	6010C	680-375261
680-110742-3	25LM20117	T	Water	6010C	680-375261
Report Basis					
T = Total					
General Chemistry					
Analysis Batch:680-375288					
LCS 680-375288/16	Lab Control Sample	T	Water	353.2	
MB 680-375288/13	Method Blank	T	Water	353.2	
680-110742-1	25LM20112	T	Water	353.2	
680-110742-2	25LM20116	T	Water	353.2	
680-110742-3	25LM20117	T	Water	353.2	
Report Basis					
T = Total					
HPLC/IC					
Analysis Batch:680-376520					
LCS 680-376520/26	Lab Control Sample	T	Water	300.0	
LCSD 680-376520/27	Lab Control Sample Duplicate	T	Water	300.0	
MB 680-376520/25	Method Blank	T	Water	300.0	
680-110742-1	25LM20112	T	Water	300.0	
680-110742-2	25LM20116	T	Water	300.0	
680-110742-3	25LM20117	T	Water	300.0	
Report Basis					
T = Total					

TestAmerica Savannah

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

Laboratory Chronicle

Lab ID: 680-110742-1

Client ID: 25LM20112

Sample Date/Time: 03/17/2015 11:08

Received Date/Time: 03/18/2015 09:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110742-D-1		680-376299		03/27/2015 13:53	1	TAL SAV	MMT
A:8260B	680-110742-D-1		680-376299		03/27/2015 13:53	1	TAL SAV	MMT
A:RSK-175	680-110742-G-1		680-375077		03/18/2015 15:33	1	TAL SAV	AJMc
A:300.0	680-110742-C-1		680-376520		03/28/2015 00:28	1	TAL SAV	DAS
P:3010A	680-110742-A-1-A		680-375647	680-375261	03/19/2015 11:17	1	TAL SAV	BJB
A:6010C	680-110742-A-1-A		680-375647	680-375261	03/20/2015 19:38	1	TAL SAV	BCB
A:353.2	680-110742-C-1		680-375288		03/18/2015 18:35	1	TAL SAV	GRX

Lab ID: 680-110742-2

Client ID: 25LM20116

Sample Date/Time: 03/17/2015 13:02

Received Date/Time: 03/18/2015 09:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110742-E-2		680-376299		03/27/2015 16:21	1	TAL SAV	MMT
A:8260B	680-110742-E-2		680-376299		03/27/2015 16:21	1	TAL SAV	MMT
A:RSK-175	680-110742-G-2		680-375077		03/18/2015 15:46	1	TAL SAV	AJMc
A:300.0	680-110742-C-2		680-376520		03/28/2015 00:43	1	TAL SAV	DAS
P:3010A	680-110742-A-2-A		680-375647	680-375261	03/19/2015 11:17	1	TAL SAV	BJB
A:6010C	680-110742-A-2-A		680-375647	680-375261	03/20/2015 19:42	1	TAL SAV	BCB
A:353.2	680-110742-C-2		680-375288		03/18/2015 18:36	1	TAL SAV	GRX

Lab ID: 680-110742-3

Client ID: 25LM20117

Sample Date/Time: 03/17/2015 14:51

Received Date/Time: 03/18/2015 09:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110742-D-3		680-376299		03/27/2015 14:15	1	TAL SAV	MMT
A:8260B	680-110742-D-3		680-376299		03/27/2015 14:15	1	TAL SAV	MMT
A:RSK-175	680-110742-G-3		680-375077		03/18/2015 15:59	1	TAL SAV	AJMc
A:300.0	680-110742-C-3		680-376520		03/28/2015 00:57	1	TAL SAV	DAS
P:3010A	680-110742-A-3-A		680-375647	680-375261	03/19/2015 11:17	1	TAL SAV	BJB
A:6010C	680-110742-A-3-A		680-375647	680-375261	03/20/2015 19:47	1	TAL SAV	BCB
A:353.2	680-110742-C-3		680-375288		03/18/2015 18:37	1	TAL SAV	GRX

Lab ID: 680-110742-4

Client ID: 25LM00026

Sample Date/Time: 03/17/2015 15:50

Received Date/Time: 03/18/2015 09:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110742-A-4		680-376299		03/27/2015 12:23	1	TAL SAV	MMT
A:8260B	680-110742-A-4		680-376299		03/27/2015 12:23	1	TAL SAV	MMT

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110742-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-376299/9		680-376299		03/27/2015 11:10	1	TAL SAV	MMT
A:8260B	MB 680-376299/9		680-376299		03/27/2015 11:10	1	TAL SAV	MMT
A:RSK-175	MB 680-375077/8		680-375077		03/18/2015 11:11	1	TAL SAV	AJMc
A:300.0	MB 680-376520/25		680-376520		03/27/2015 20:36	1	TAL SAV	DAS
P:3010A	MB 680-375261/1-A		680-375647	680-375261	03/19/2015 11:17	1	TAL SAV	BJB
A:6010C	MB 680-375261/1-A		680-375647	680-375261	03/20/2015 18:50	1	TAL SAV	BCB
A:353.2	MB 680-375288/13		680-375288		03/18/2015 18:20	1	TAL SAV	GRX

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-376299/4		680-376299		03/27/2015 09:02	1	TAL SAV	MMT
A:8260B	LCS 680-376299/4		680-376299		03/27/2015 09:02	1	TAL SAV	MMT
A:RSK-175	LCS 680-375077/6		680-375077		03/18/2015 10:58	1	TAL SAV	AJMc
A:300.0	LCS 680-376520/26		680-376520		03/27/2015 20:51	1	TAL SAV	DAS
P:3010A	LCS 680-375261/2-A		680-375647	680-375261	03/19/2015 11:17	1	TAL SAV	BJB
A:6010C	LCS 680-375261/2-A		680-375647	680-375261	03/20/2015 18:55	1	TAL SAV	BCB
A:353.2	LCS 680-375288/16		680-375288		03/18/2015 18:24	1	TAL SAV	GRX

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-376299/5		680-376299		03/27/2015 09:24	1	TAL SAV	MMT
A:8260B	LCSD 680-376299/5		680-376299		03/27/2015 09:24	1	TAL SAV	MMT
A:RSK-175	LCSD 680-375077/23		680-375077		03/18/2015 17:12	1	TAL SAV	AJMc
A:300.0	LCSD 680-376520/27		680-376520		03/27/2015 21:05	1	TAL SAV	DAS
P:3010A	LCSD 680-375261/10-A		680-375647	680-375261	03/19/2015 11:18	1	TAL SAV	BJB
A:6010C	LCSD 680-375261/10-A		680-375647	680-375261	03/20/2015 19:52	1	TAL SAV	BCB

Lab References:

TAL SAV = TestAmerica Savannah

Method 8260B

Volatile Organic Compounds (GC/MS)
by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
25LM20112	680-110742-1	97	98	98	90
25LM20116	680-110742-2	108	112	98	98
25LM20117	680-110742-3	99	97	100	95
25LM00026	680-110742-4	101	99	102	92
	MB 680-376299/9	100	97	101	96
	LCS 680-376299/4	98	101	97	88
	LCSD 680-376299/5	100	97	100	87

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

QC LIMITS

70-130
70-130
70-130
70-130

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: OC2704Q.D
 Lab ID: LCS 680-376299/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	250	226	90	60-154	
Benzene	50.0	49.8	100	73-131	
Bromodichloromethane	50.0	49.5	99	77-129	
Bromoform	50.0	49.1	98	69-135	
Bromomethane	50.0	29.0	58	20-180	
2-Butanone	250	232	93	75-133	
Carbon disulfide	50.0	45.7	91	73-127	
Carbon tetrachloride	50.0	49.3	99	75-130	
Chlorobenzene	50.0	50.1	100	80-120	
Chloroethane	50.0	36.5	73	50-151	
Chloroform	50.0	50.1	100	79-122	
Chloromethane	50.0	38.4	77	63-126	
cis-1,2-Dichloroethene	50.0	48.7	97	80-122	
cis-1,3-Dichloropropene	50.0	50.0	100	80-133	
Cyclohexane	50.0	47.1	94	69-130	
Dibromochloromethane	50.0	51.2	102	71-136	
1,2-Dibromo-3-Chloropropane	50.0	55.9	112	59-141	
1,2-Dibromoethane	50.0	50.1	100	77-131	
1,2-Dichlorobenzene	50.0	48.6	97	80-120	
1,3-Dichlorobenzene	50.0	48.5	97	80-120	
1,4-Dichlorobenzene	50.0	49.0	98	80-120	
Dichlorodifluoromethane	50.0	32.1	64	51-140	
1,1-Dichloroethane	50.0	49.7	99	80-120	
1,2-Dichloroethane	50.0	51.7	103	75-130	
1,1-Dichloroethene	50.0	44.3	89	74-125	
1,2-Dichloropropane	50.0	48.2	96	80-123	
Ethylbenzene	50.0	49.4	99	80-120	
2-Hexanone	250	243	97	70-141	
Isopropylbenzene	50.0	49.2	98	80-120	
Methyl acetate	250	279	111	66-134	
Methylcyclohexane	50.0	46.8	94	75-127	
Methylene Chloride	50.0	47.5	95	76-129	
4-Methyl-2-pentanone	250	255	102	75-135	
Methyl tert-butyl ether	50.0	49.9	100	74-135	
Styrene	50.0	47.1	94	80-122	
1,1,2,2-Tetrachloroethane	50.0	51.8	104	72-128	
Tetrachloroethene	50.0	50.2	100	77-123	
Toluene	50.0	48.7	97	80-122	
trans-1,2-Dichloroethene	50.0	47.2	94	78-123	
trans-1,3-Dichloropropene	50.0	52.5	105	74-140	
1,2,4-Trichlorobenzene	50.0	49.7	99	77-131	
1,1,1-Trichloroethane	50.0	48.3	97	74-128	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: OC2704Q.D
 Lab ID: LCS 680-376299/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,2-Trichloroethane	50.0	49.7	99	79-125	
Trichloroethene	50.0	49.8	100	80-123	
Trichlorofluoromethane	50.0	39.3	79	58-145	
1,1,2-Trichloro-1,2,2-trifluor oethane	50.0	43.6	87	65-131	
Vinyl chloride	50.0	45.9	92	68-132	
Xylenes, Total	100	96.3	96	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: OC2705Q.D

Lab ID: LCSD 680-376299/5

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acetone	250	217	87	4	40	60-154	
Benzene	50.0	50.7	101	2	30	73-131	
Bromodichloromethane	50.0	49.0	98	1	20	77-129	
Bromoform	50.0	50.1	100	2	20	69-135	
Bromomethane	50.0	34.0	68	16	40	20-180	
2-Butanone	250	231	93	0	30	75-133	
Carbon disulfide	50.0	47.2	94	3	20	73-127	
Carbon tetrachloride	50.0	51.6	103	5	20	75-130	
Chlorobenzene	50.0	50.0	100	0	20	80-120	
Chloroethane	50.0	39.7	79	9	30	50-151	
Chloroform	50.0	50.5	101	1	20	79-122	
Chloromethane	50.0	39.1	78	2	30	63-126	
cis-1,2-Dichloroethene	50.0	49.7	99	2	20	80-122	
cis-1,3-Dichloropropene	50.0	48.5	97	3	20	80-133	
Cyclohexane	50.0	50.4	101	7	30	69-130	
Dibromochloromethane	50.0	49.1	98	4	20	71-136	
1,2-Dibromo-3-Chloropropane	50.0	56.3	113	1	30	59-141	
1,2-Dibromoethane	50.0	49.2	98	2	30	77-131	
1,2-Dichlorobenzene	50.0	49.4	99	2	20	80-120	
1,3-Dichlorobenzene	50.0	49.2	98	2	20	80-120	
1,4-Dichlorobenzene	50.0	49.4	99	1	20	80-120	
Dichlorodifluoromethane	50.0	34.0	68	6	40	51-140	
1,1-Dichloroethane	50.0	50.6	101	2	20	80-120	
1,2-Dichloroethane	50.0	50.1	100	3	20	75-130	
1,1-Dichloroethene	50.0	46.1	92	4	20	74-125	
1,2-Dichloropropane	50.0	49.0	98	2	20	80-123	
Ethylbenzene	50.0	49.9	100	1	20	80-120	
2-Hexanone	250	245	98	1	40	70-141	
Isopropylbenzene	50.0	51.3	103	4	20	80-120	
Methyl acetate	250	277	111	1	30	66-134	
Methylcyclohexane	50.0	49.9	100	7	30	75-127	
Methylene Chloride	50.0	48.3	97	2	20	76-129	
4-Methyl-2-pentanone	250	256	103	0	30	75-135	
Methyl tert-butyl ether	50.0	49.8	100	0	20	74-135	
Styrene	50.0	48.5	97	3	20	80-122	
1,1,2,2-Tetrachloroethane	50.0	52.2	104	1	20	72-128	
Tetrachloroethene	50.0	49.9	100	1	20	77-123	
Toluene	50.0	49.7	99	2	20	80-122	
trans-1,2-Dichloroethene	50.0	50.1	100	6	20	78-123	
trans-1,3-Dichloropropene	50.0	52.4	105	0	20	74-140	
1,2,4-Trichlorobenzene	50.0	49.7	99	0	20	77-131	
1,1,1-Trichloroethane	50.0	51.1	102	6	20	74-128	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: OC2705Q.D
 Lab ID: LCSO 680-376299/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,2-Trichloroethane	50.0	49.1	98	1	20	79-125	
Trichloroethene	50.0	50.0	100	0	20	80-123	
Trichlorofluoromethane	50.0	52.1	104	28	30	58-145	
1,1,2-Trichloro-1,2,2-trifluor oethane	50.0	47.4	95	8	30	65-131	
Vinyl chloride	50.0	48.1	96	5	30	68-132	
Xylenes, Total	100	99.0	99	3	20	80-120	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab File ID: OC2709Q.D Lab Sample ID: MB 680-376299/9
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CMSO2 Date Analyzed: 03/27/2015 11:10
 GC Column: Rtx-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-376299/4	OC2704Q.D	03/27/2015 09:02
	LCSD 680-376299/5	OC2705Q.D	03/27/2015 09:24
25LM00026	680-110742-4	OC2712.D	03/27/2015 12:23
25LM20112	680-110742-1	OC2716.D	03/27/2015 13:53
25LM20117	680-110742-3	OC2717.D	03/27/2015 14:15
25LM20116	680-110742-2	OC2722.D	03/27/2015 16:21

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

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab File ID: OC0301T.D BFB Injection Date: 03/03/2015
 Instrument ID: CMSO2 BFB Injection Time: 15:56
 Analysis Batch No.: 373126

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.3
75	30.0 - 66.0% of mass 95	44.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	50.0 - 120.0% of mass 95	93.0
175	4.0 - 9.0 % of mass 174	7.5 (8.0)1
176	93.0 - 101.0% of mass 174	91.5 (98.4)1
177	5.0 - 9.0% of mass 176	6.1 (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
	IC 680-373126/4	OC0304.D	03/03/2015	17:10
	IC 680-373126/5	OC0305.D	03/03/2015	17:32
	IC 680-373126/6	OC0306.D	03/03/2015	17:55
	IC 680-373126/7	OC0307.D	03/03/2015	18:17
	IC 680-373126/8	OC0308.D	03/03/2015	18:39
	ICIS 680-373126/9	OC0309.D	03/03/2015	19:02
	IC 680-373126/10	OC0310.D	03/03/2015	19:24
	IC 680-373126/11	OC0311.D	03/03/2015	19:46
	ICV 680-373126/13	OC0313.D	03/03/2015	20:31

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

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab File ID: OC2701T.D BFB Injection Date: 03/27/2015
 Instrument ID: CMSO2 BFB Injection Time: 07:45
 Analysis Batch No.: 376299

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.9	
75	30.0 - 66.0% of mass 95	46.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	7.6	
173	Less than 2.0% of mass 174	2.0	(2.0)1
174	50.0 - 120.0% of mass 95	100.4	
175	4.0 - 9.0 % of mass 174	8.7	(8.7)1
176	93.0 - 101.0% of mass 174	99.9	(99.5)1
177	5.0 - 9.0% of mass 176	7.0	(7.0)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 680-376299/3	OC2703Q.D	03/27/2015	08:39
	LCS 680-376299/4	OC2704Q.D	03/27/2015	09:02
	LCSD 680-376299/5	OC2705Q.D	03/27/2015	09:24
	MB 680-376299/9	OC2709Q.D	03/27/2015	11:10
25LM00026	680-110742-4	OC2712.D	03/27/2015	12:23
25LM20112	680-110742-1	OC2716.D	03/27/2015	13:53
25LM20117	680-110742-3	OC2717.D	03/27/2015	14:15
25LM20116	680-110742-2	OC2722.D	03/27/2015	16:21

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

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Sample No.: ICIS 680-373126/9 Date Analyzed: 03/03/2015 19:02
 Instrument ID: CMSO2 GC Column: Rtx-624 ID: 0.18 (mm)
 Lab File ID (Standard): OC0309.D Heated Purge: (Y/N) N
 Calibration ID: 37946

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	460817	4.21	195208	6.50	210156	8.40
UPPER LIMIT	921634	4.71	390416	7.00	420312	8.90
LOWER LIMIT	230409	3.71	97604	6.00	105078	7.90
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-373126/13	452331	4.21	189708	6.50	214962	8.40

FB = Fluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 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 Savannah Job No.: 680-110742-1
 SDG No.: _____
 Sample No.: CCVIS 680-376299/3 Date Analyzed: 03/27/2015 08:39
 Instrument ID: CMSO2 GC Column: Rtx-624 ID: 0.18 (mm)
 Lab File ID (Standard): OC2703Q.D Heated Purge: (Y/N) N
 Calibration ID: 37992

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	449406	4.21	192082	6.50	209349	8.40	
UPPER LIMIT	898812	4.71	384164	7.00	418698	8.90	
LOWER LIMIT	224703	3.71	96041	6.00	104675	7.90	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 680-376299/4		477719	4.21	205917	6.50	228719	8.40
LCSD 680-376299/5		489694	4.21	205997	6.50	236073	8.40
MB 680-376299/9		567593	4.21	228389	6.50	244381	8.40
680-110742-4	25LM00026	506218	4.21	208768	6.51	227481	8.40
680-110742-1	25LM20112	523850	4.21	215374	6.50	234922	8.40
680-110742-3	25LM20117	520001	4.21	208292	6.50	229799	8.40
680-110742-2	25LM20116	396866	4.21	171676	6.50	185269	8.40

FB = Fluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 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: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20112 Lab Sample ID: 680-110742-1
 Matrix: Water Lab File ID: OC2716.D
 Analysis Method: 8260B Date Collected: 03/17/2015 11:08
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 13:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
78-93-3	2-Butanone	ND		10	3.4
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
100-41-4	Ethylbenzene	ND		1.0	0.33
591-78-6	2-Hexanone	ND		10	2.0
98-82-8	Isopropylbenzene	ND		1.0	0.35
79-20-9	Methyl acetate	ND		5.0	1.8
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
100-42-5	Styrene	ND		1.0	0.27
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20112 Lab Sample ID: 680-110742-1
 Matrix: Water Lab File ID: OC2716.D
 Analysis Method: 8260B Date Collected: 03/17/2015 11:08
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 13:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2716.D
 Lims ID: 680-110742-D-1 Lab Sample ID: 680-110742-1
 Client ID: 25LM20112
 Sample Type: Client
 Inject. Date: 27-Mar-2015 13:53:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018211-016
 Misc. Info.: 742-1
 Operator ID: JK Instrument ID: CMSO2
 Method: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 27-Mar-2015 14:09:33 Calib Date: 08-Mar-2015 17:58:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150308-17670.b\OC0811.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tippinsm Date: 27-Mar-2015 14:09:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.747	3.746	0.001	97	135008	48.7	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.014	4.008	0.006	98	154196	48.9	
* 55 Fluorobenzene	96	4.209	4.209	0.000	0	523850	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.365	5.358	0.007	98	493977	49.1	
* 81 Chlorobenzene-d5	82	6.503	6.502	0.001	86	215374	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.452	7.451	0.001	90	186600	45.2	
* 109 1,4-Dichlorobenzene-d4	152	8.401	8.400	0.001	99	234922	50.0	

Reagents:

DOD ISSU_00069 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2716.D

Injection Date: 27-Mar-2015 13:53:30

Instrument ID: CMSO2

Operator ID: JK

Lims ID: 680-110742-D-1

Lab Sample ID: 680-110742-1

Worklist Smp#: 16

Client ID: 25LM20112

Purge Vol: 5.000 mL

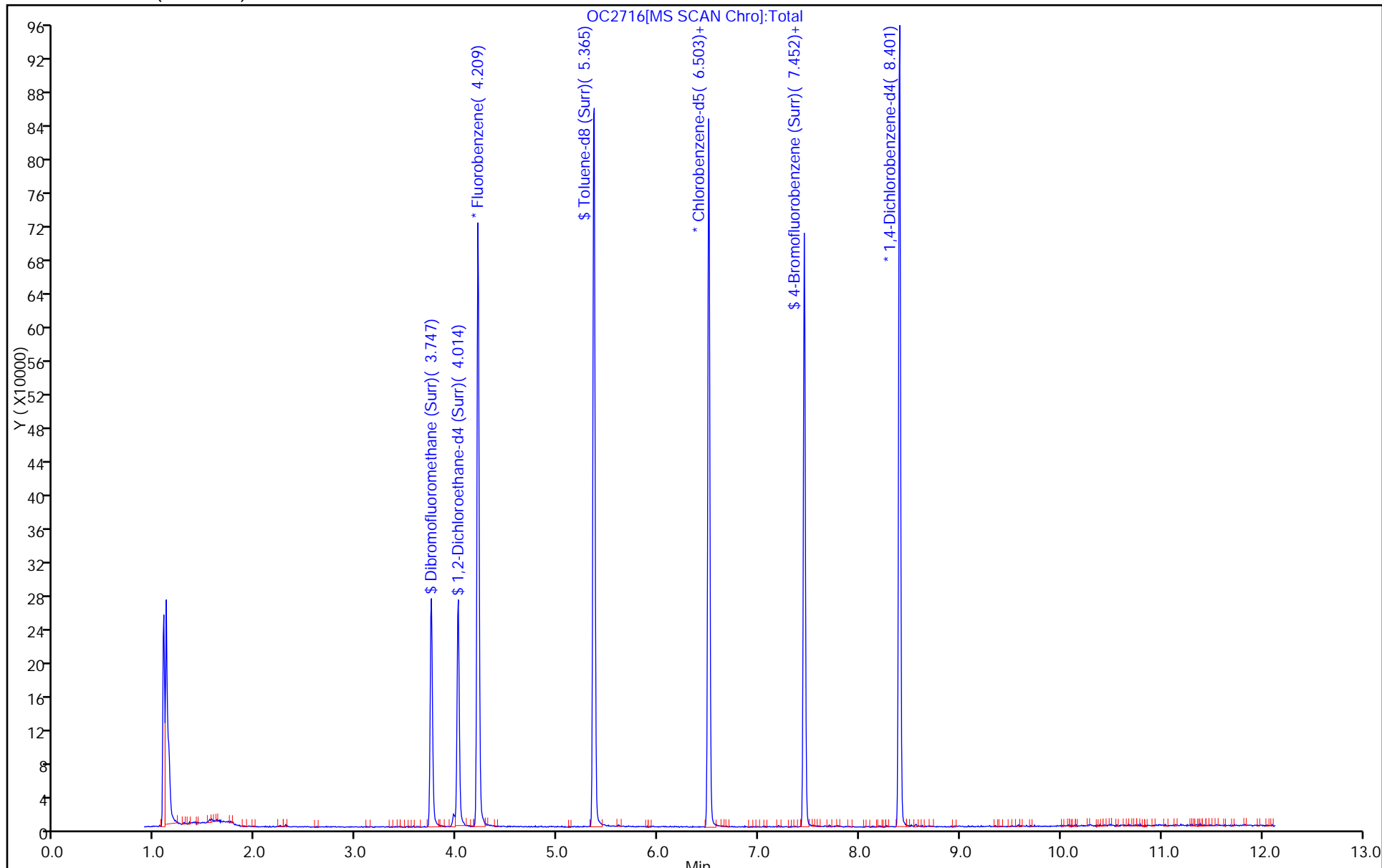
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20116 Lab Sample ID: 680-110742-2
 Matrix: Water Lab File ID: OC2722.D
 Analysis Method: 8260B Date Collected: 03/17/2015 13:02
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 16:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
78-93-3	2-Butanone	ND		10	3.4
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
100-41-4	Ethylbenzene	ND		1.0	0.33
591-78-6	2-Hexanone	ND		10	2.0
98-82-8	Isopropylbenzene	ND		1.0	0.35
79-20-9	Methyl acetate	ND		5.0	1.8
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
100-42-5	Styrene	ND		1.0	0.27
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20116 Lab Sample ID: 680-110742-2
 Matrix: Water Lab File ID: OC2722.D
 Analysis Method: 8260B Date Collected: 03/17/2015 13:02
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 16:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
79-01-6	Trichloroethene	1.6		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2722.D
 Lims ID: 680-110742-E-2 Lab Sample ID: 680-110742-2
 Client ID: 25LM20116
 Sample Type: Client
 Inject. Date: 27-Mar-2015 16:21:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018211-022
 Operator ID: JK Instrument ID: CMSO2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 28-Mar-2015 09:24:28 Calib Date: 08-Mar-2015 17:58:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150308-17670.b\OC0811.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: tippinsm Date: 27-Mar-2015 16:41:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.747	3.746	0.001	97	113016	53.8	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.014	4.008	0.006	98	133971	56.1	
* 55 Fluorobenzene	96	4.209	4.209	0.000	0	396866	50.0	
57 Trichloroethene	132	4.465	4.464	0.001	93	3643	1.56	
\$ 69 Toluene-d8 (Surr)	98	5.359	5.358	0.001	98	393780	49.1	
* 81 Chlorobenzene-d5	82	6.503	6.502	0.001	86	171676	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.452	7.451	0.001	91	159311	48.9	
* 109 1,4-Dichlorobenzene-d4	152	8.401	8.400	0.001	100	185269	50.0	

Reagents:

DOD ISSU_00069 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2722.D

Injection Date: 27-Mar-2015 16:21:30

Instrument ID: CMSO2

Operator ID: JK

Lims ID: 680-110742-E-2

Lab Sample ID: 680-110742-2

Worklist Smp#: 22

Client ID: 25LM20116

Purge Vol: 5.000 mL

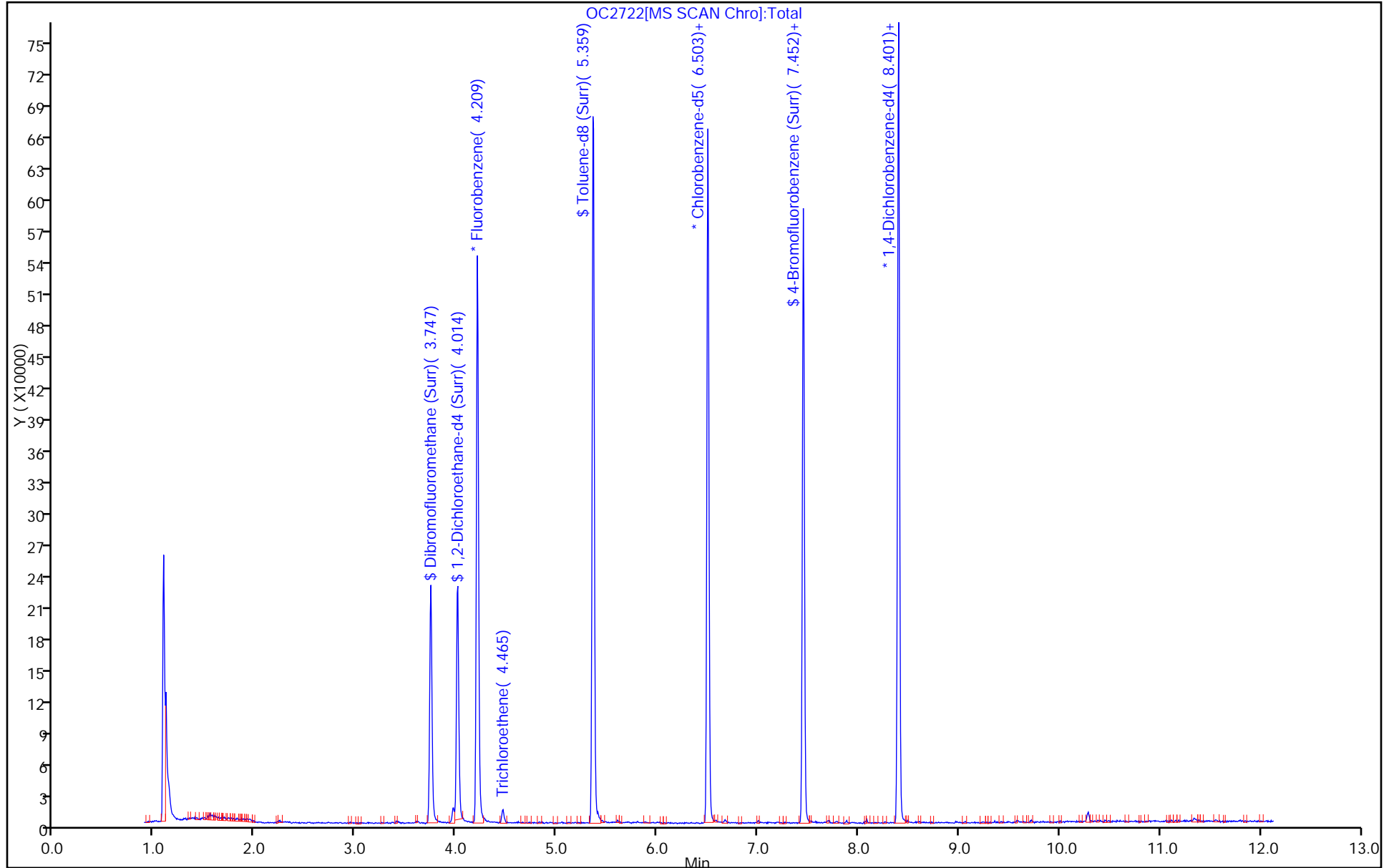
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah

Data File: \\ChromNA1g1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2722.D

Injection Date: 27-Mar-2015 16:21:30

Instrument ID: CMSO2

Lims ID: 680-110742-E-2

Lab Sample ID: 680-110742-2

Client ID: 25LM20116

Operator ID: JK

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

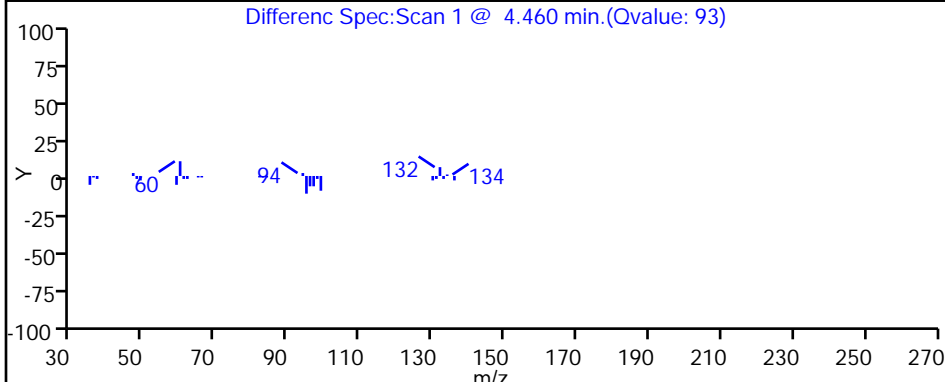
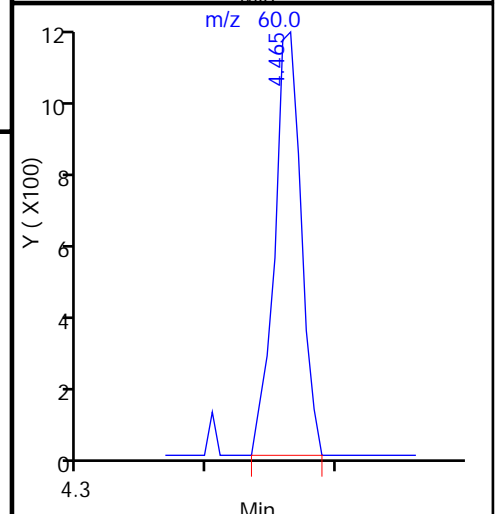
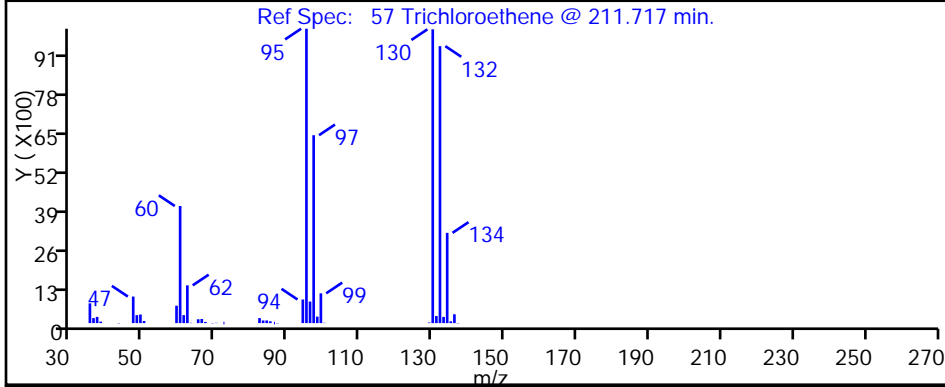
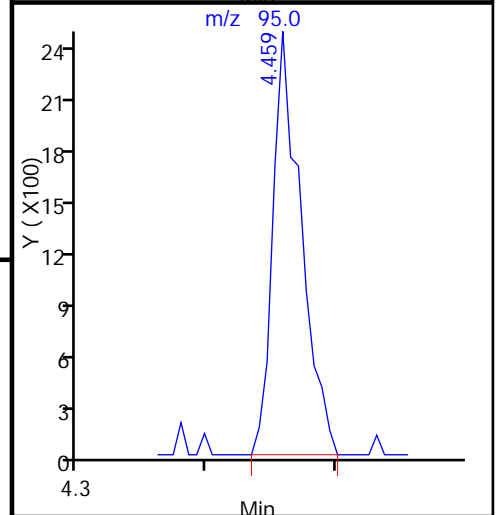
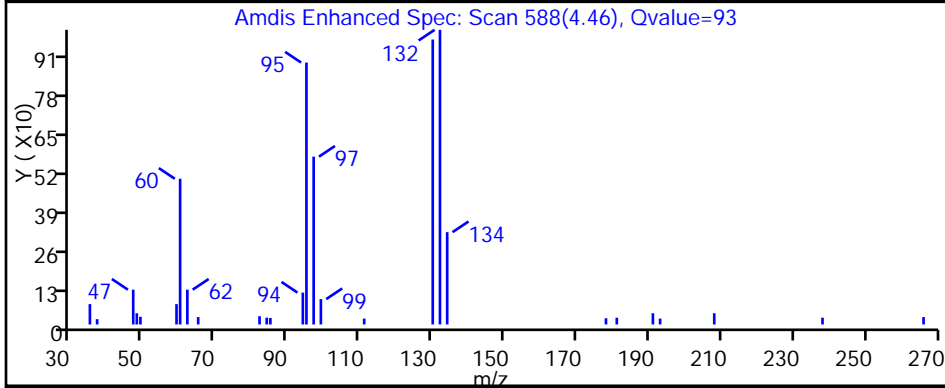
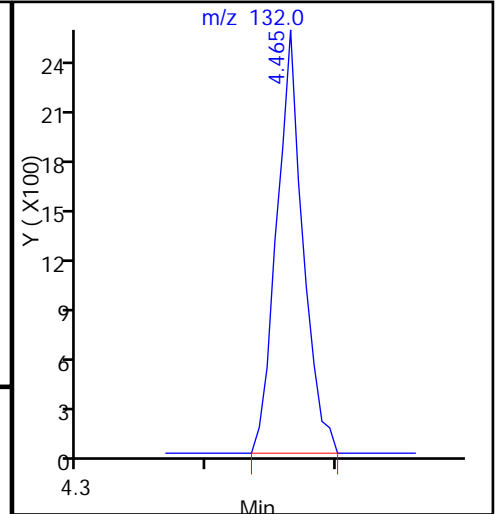
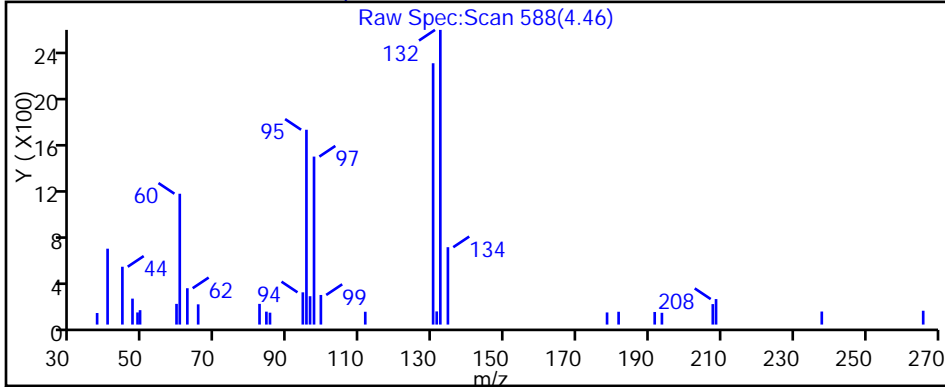
Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)

Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20117 Lab Sample ID: 680-110742-3
 Matrix: Water Lab File ID: OC2717.D
 Analysis Method: 8260B Date Collected: 03/17/2015 14:51
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 14:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
78-93-3	2-Butanone	ND		10	3.4
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
100-41-4	Ethylbenzene	ND		1.0	0.33
591-78-6	2-Hexanone	ND		10	2.0
98-82-8	Isopropylbenzene	ND		1.0	0.35
79-20-9	Methyl acetate	ND		5.0	1.8
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
100-42-5	Styrene	ND		1.0	0.27
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20117 Lab Sample ID: 680-110742-3
 Matrix: Water Lab File ID: OC2717.D
 Analysis Method: 8260B Date Collected: 03/17/2015 14:51
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 14:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2717.D
 Lims ID: 680-110742-D-3 Lab Sample ID: 680-110742-3
 Client ID: 25LM20117
 Sample Type: Client
 Inject. Date: 27-Mar-2015 14:15:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018211-017
 Misc. Info.: 742-3
 Operator ID: JK Instrument ID: CMSO2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 27-Mar-2015 14:39:02 Calib Date: 08-Mar-2015 17:58:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150308-17670.b\OC0811.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tippinsm Date: 27-Mar-2015 14:39:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.746	3.746	0.000	96	135792	49.4	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.014	4.008	0.006	98	152139	48.6	
* 55 Fluorobenzene	96	4.208	4.209	-0.001	0	520001	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.364	5.358	0.006	99	488600	50.2	
* 81 Chlorobenzene-d5	82	6.502	6.502	0.000	87	208292	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.451	7.451	0.000	90	191595	47.5	
* 109 1,4-Dichlorobenzene-d4	152	8.400	8.400	0.000	99	229799	50.0	

Reagents:

DOD ISSU_00069 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2717.D

Injection Date: 27-Mar-2015 14:15:30

Instrument ID: CMSO2

Operator ID: JK

Lims ID: 680-110742-D-3

Lab Sample ID: 680-110742-3

Worklist Smp#: 17

Client ID: 25LM20117

Purge Vol: 5.000 mL

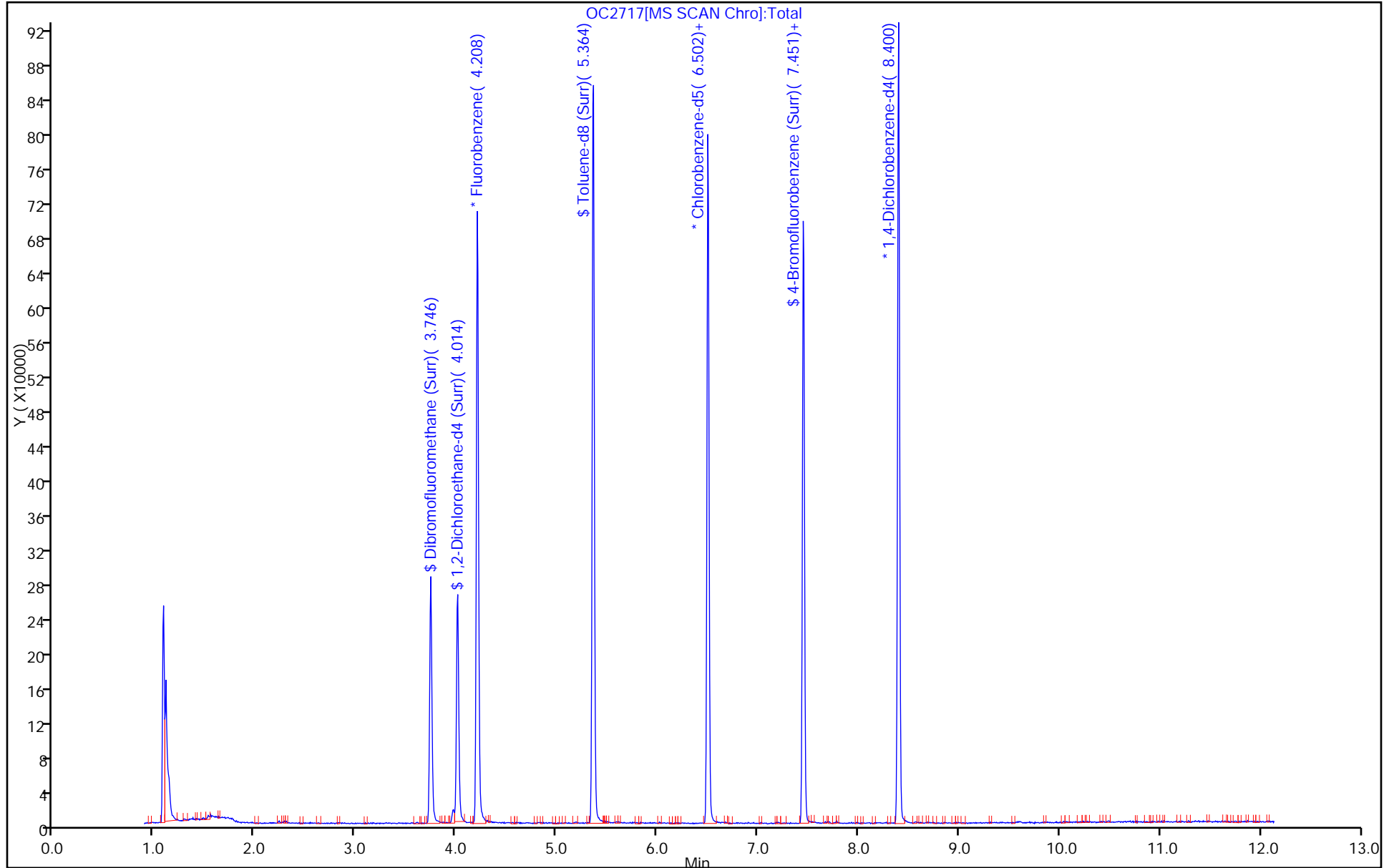
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM00026 Lab Sample ID: 680-110742-4
 Matrix: Water Lab File ID: OC2712.D
 Analysis Method: 8260B Date Collected: 03/17/2015 15:50
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 12:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
78-93-3	2-Butanone	ND		10	3.4
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
100-41-4	Ethylbenzene	ND		1.0	0.33
591-78-6	2-Hexanone	ND		10	2.0
98-82-8	Isopropylbenzene	ND		1.0	0.35
79-20-9	Methyl acetate	ND		5.0	1.8
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
100-42-5	Styrene	ND		1.0	0.27
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM00026 Lab Sample ID: 680-110742-4
 Matrix: Water Lab File ID: OC2712.D
 Analysis Method: 8260B Date Collected: 03/17/2015 15:50
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 12:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2712.D
 Lims ID: 680-110742-A-4 Lab Sample ID: 680-110742-4
 Client ID: 25LM00026
 Sample Type: Client
 Inject. Date: 27-Mar-2015 12:23:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018211-012
 Misc. Info.: 742-4
 Operator ID: JK Instrument ID: CMSO2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 27-Mar-2015 14:08:23 Calib Date: 08-Mar-2015 17:58:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150308-17670.b\OC0811.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tippinsm Date: 27-Mar-2015 14:08:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.744	3.746	-0.002	98	135470	50.6	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.012	4.008	0.004	99	150582	49.5	
* 55 Fluorobenzene	96	4.212	4.209	0.003	0	506218	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.362	5.358	0.004	99	499233	51.2	
* 81 Chlorobenzene-d5	82	6.506	6.502	0.004	87	208768	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.455	7.451	0.004	91	184627	46.2	
* 109 1,4-Dichlorobenzene-d4	152	8.398	8.400	-0.002	99	227481	50.0	

Reagents:

DOD ISSU_00069 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2712.D

Injection Date: 27-Mar-2015 12:23:30

Instrument ID: CMSO2

Operator ID: JK

Lims ID: 680-110742-A-4

Lab Sample ID: 680-110742-4

Worklist Smp#: 12

Client ID: 25LM00026

Purge Vol: 5.000 mL

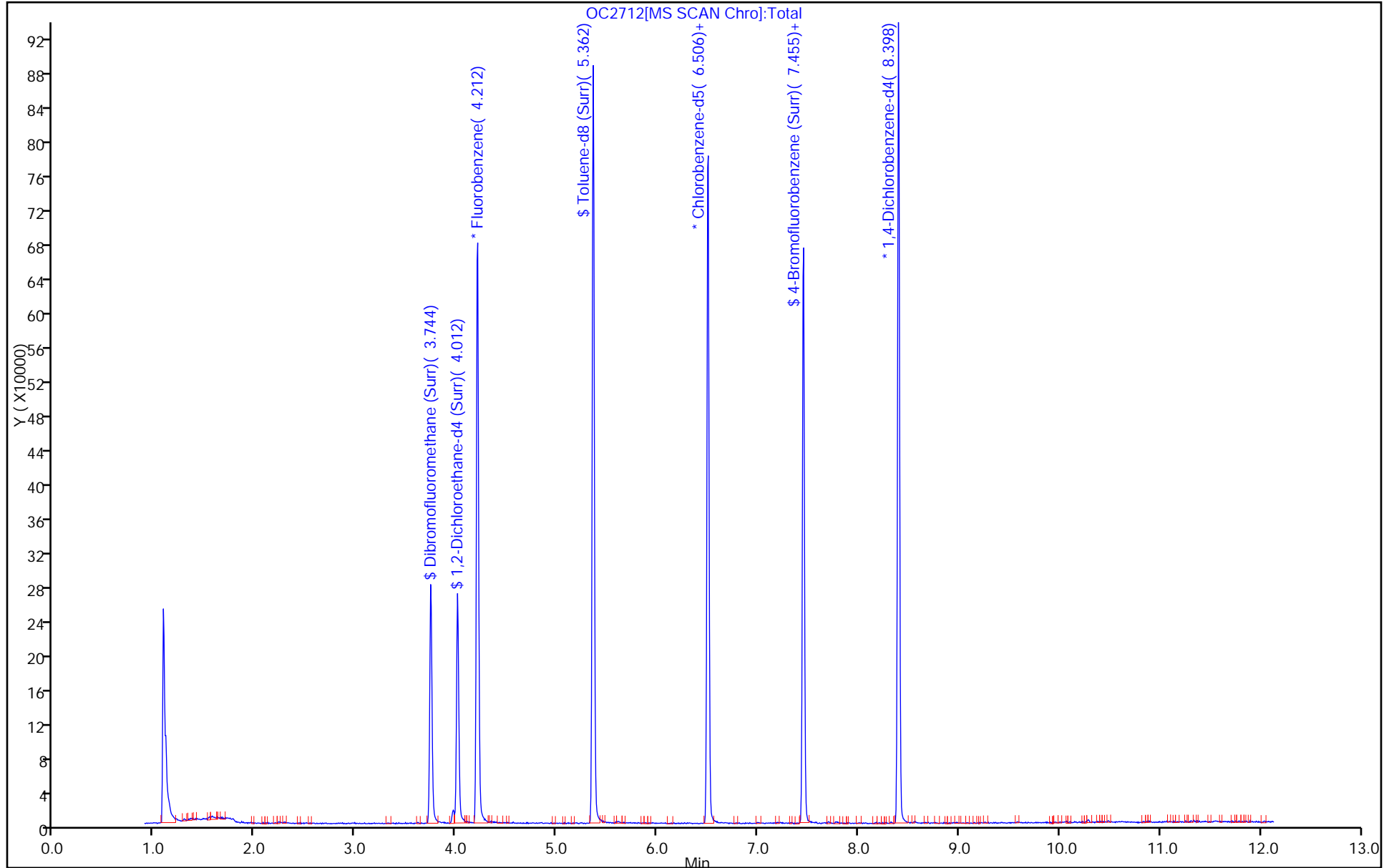
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 2014_MS02

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



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

Lab Name: TestAmerica Savannah Job No.: 680-110742-1 Analy Batch No.: 373126

SDG No.: _____

Instrument ID: CMSO2 GC Column: Rtx-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 17:10 Calibration End Date: 03/03/2015 19:46 Calibration ID: 37946

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-373126/4	OC0304.D
Level 2	IC 680-373126/5	OC0305.D
Level 3	IC 680-373126/6	OC0306.D
Level 4	IC 680-373126/7	OC0307.D
Level 5	IC 680-373126/8	OC0308.D
Level 6	ICIS 680-373126/9	OC0309.D
Level 7	IC 680-373126/10	OC0310.D
Level 8	IC 680-373126/11	OC0311.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								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	0.2771 0.2781	0.2870 0.2746	0.3009 0.2581	0.2792	0.2734	Ave		0.2785			4.4		15.0				
Vinyl chloride	0.2942 0.3114	0.3087 0.3885	0.3158 0.3796	0.4044	0.2970	Ave		0.3375			13.0		15.0				
1,3-Butadiene	0.2547 0.3550	0.2867 0.3580	0.3183 0.3466	0.3461	0.3402	Ave		0.3257			11.0		15.0				
Chloromethane	0.4056 0.5047	0.4412 0.5272	0.4472 0.5189	0.4864	0.4856	Ave		0.4771		0.1000	8.8		15.0				
Bromomethane	0.1465 0.1751	0.1482 0.1451	0.1111 0.1337	0.1175	0.1325	Ave		0.1387			14.0		15.0				
Chloroethane	0.2210 0.1876	0.2038 0.2142	0.2087 0.1843	0.1914	0.2189	Ave		0.2038			7.1		15.0				
Dichlorofluoromethane	0.5098 0.5434	0.4990 0.5671	0.4283 0.5282	0.5149	0.5742	Ave		0.5206			8.8		15.0				
Trichlorofluoromethane	0.3531 0.3872	0.4221 0.4263	0.3881 0.4135	0.3795	0.3954	Ave		0.3957			6.2		15.0				
Ethyl ether	0.1893 0.2315	0.2040 0.2319	0.2320 0.2229	0.2431	0.2464	Ave		0.2251			8.6		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2245 0.2339	0.2419 0.2447	0.2212 0.2424	0.2602	0.2691	Ave		0.2422			6.8		15.0				
Acrolein	++++ 0.0237	0.0173 0.0260	0.0208 0.0257	0.0221	0.0241	Ave		0.0228			13.0		15.0				
1,1-Dichloroethene	0.2131 0.2439	0.2426 0.2531	0.2392 0.2424	0.2613	0.2624	Ave		0.2447			6.4		15.0				
Acetone	++++ 0.0264	0.0386 0.0276	0.0309 0.0267	0.0250	0.0284	LinF		0.0269					1.0000		0.9900		
Iodomethane	++++ 0.4191	++++ 0.4418	0.3220 0.4314	0.3888	0.4320	Ave		0.4059			11.0		15.0				

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 Savannah

Job No.: 680-110742-1

Analy Batch No.: 373126

SDG No.: _____

Instrument ID: CMSO2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 17:10

Calibration End Date: 03/03/2015 19:46

Calibration ID: 37946

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								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	0.7962 0.8394	0.8686 0.8795	0.8505 0.8279	0.9184	0.9420	Ave		0.8653			5.5		15.0				
Allyl chloride	0.1813 0.1860	0.2037 0.2051	0.1868 0.2257	0.1993	0.2069	Ave		0.1993			7.2		15.0				
Methyl acetate	0.1895 0.2117	0.2137 0.2325	0.2113 0.2344	0.2279	0.2315	Ave		0.2191			7.0		15.0				
Methylene Chloride	0.3048 0.2783	0.3046 0.2920	0.2836 0.2785	0.2877	0.3040	Ave		0.2917			3.9		15.0				
tert-Butyl alcohol	0.0152 0.0206	0.0215 0.0223	0.0209 0.0221	0.0208	0.0220	Ave		0.0207			11.0		15.0				
Methyl tert-butyl ether	0.6617 0.7396	0.7532 0.7794	0.7627 0.7463	0.7354	0.7410	Ave		0.7399			4.7		15.0				
trans-1,2-Dichloroethene	0.2689 0.2589	0.2697 0.2697	0.2498 0.2627	0.2579	0.2569	Ave		0.2618			2.8		15.0				
Acrylonitrile	0.0864 0.1111	0.1049 0.1185	0.1044 0.1151	0.1099	0.1088	Ave		0.1074			9.1		15.0				
Hexane	0.5149 0.4533	0.5359 0.4662	0.4460 0.4458	0.4723	0.4692	Ave		0.4755			6.9		15.0				
1,1-Dichloroethane	0.4507 0.5098	0.5426 0.5270	0.4811 0.5063	0.5154	0.5012	Ave		0.5042		0.1000	5.6		15.0				
Vinyl acetate	0.5332 0.5772	0.5682 0.6094	0.5558 0.5784	0.5734	0.5553	Ave		0.5689			3.9		15.0				
2,2-Dichloropropane	0.3979 0.3829	0.4053 0.3850	0.3461 0.3723	0.3996	0.3859	Ave		0.3844			4.9		15.0				
cis-1,2-Dichloroethene	0.4310 0.4509	0.4461 0.4580	0.4097 0.4534	0.4419	0.4554	Ave		0.4433			3.6		15.0				
2-Butanone	+++++ 0.0301	0.0443 0.0318	0.0338 0.0308	0.0325	0.0286	LinF		0.0310						1.0000		0.9900	
Bromochloromethane	0.1679 0.1907	0.2039 0.2047	0.1821 0.1920	0.1857	0.1898	Ave		0.1896			6.2		15.0				
Tetrahydrofuran	0.1408 0.0920	0.1316 0.0983	0.0985 0.0949	0.1003	0.0876	LinF		0.0954						0.9990		0.9900	
Chloroform	0.4411 0.4642	0.4681 0.4765	0.4200 0.4573	0.4837	0.4542	Ave		0.4581			4.4		15.0				
Cyclohexane	0.3367 0.4131	0.4221 0.4310	0.3965 0.4236	0.4237	0.4198	Ave		0.4083			7.5		15.0				
1,1,1-Trichloroethane	0.3860 0.4027	0.3465 0.4141	0.3608 0.4010	0.3982	0.4032	Ave		0.3890			6.0		15.0				
Carbon tetrachloride	0.3106 0.3728	0.3495 0.3826	0.3577 0.3720	0.3741	0.3786	Ave		0.3622			6.5		15.0				

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 Savannah

Job No.: 680-110742-1

Analy Batch No.: 373126

SDG No.: _____

Instrument ID: CMSO2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 17:10

Calibration End Date: 03/03/2015 19:46

Calibration ID: 37946

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								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	0.3329 0.3641	0.3376 0.3648	0.3131 0.3598	0.3733	0.3612	Ave		0.3509			5.9		15.0				
Isobutanol	0.0076 0.0121	0.0109 0.0126	0.0133 0.0128	0.0130	0.0121	LinF		0.0127						1.0000		0.9900	
Benzene	1.0330 1.0797	1.0110 1.1089	1.0268 1.0663	1.0916	1.0706	Ave		1.0610			3.2		15.0				
1,2-Dichloroethane	0.3293 0.3606	0.3789 0.3744	0.3630 0.3517	0.3650	0.3545	Ave		0.3597			4.3		15.0				
n-Heptane	0.4693 0.5241	0.5274 0.5112	0.4757 0.5022	0.5148	0.4963	Ave		0.5026			4.2		15.0				
Trichloroethene	0.2735 0.2953	0.3212 0.2998	0.3000 0.2920	0.2925	0.2833	Ave		0.2947			4.7		15.0				
Methylcyclohexane	0.4611 0.5095	0.5126 0.5176	0.4672 0.5070	0.5118	0.4927	Ave		0.4974			4.4		15.0				
1,2-Dichloropropane	0.2818 0.3089	0.2916 0.3215	0.3168 0.3114	0.3240	0.3145	Ave		0.3088			4.8		15.0				
1,4-Dioxane	0.0025 0.0025	0.0032 0.0026	0.0024 0.0029	0.0023	0.0026	Ave		0.0026			11.0		15.0				
Dibromomethane	0.1819 0.1788	0.1908 0.1866	0.1854 0.1935	0.1770	0.1780	Ave		0.1840			3.3		15.0				
Bromodichloromethane	0.3876 0.3754	0.3786 0.4104	0.3862 0.4003	0.3733	0.3747	Ave		0.3858			3.5		15.0				
2-Chloroethyl vinyl ether	+++++ 0.0490	+++++ 0.0675	0.0319 0.0714	0.0319	0.0371	QuaF		0.0529	0.0000946					0.9960		0.9900	
cis-1,3-Dichloropropene	0.4550 0.4646	0.4733 0.5277	0.4363 0.4984	0.4666	0.4528	Ave		0.4718			6.1		15.0				
4-Methyl-2-pentanone	0.2771 0.3086	0.2929 0.3279	0.2965 0.3231	0.2935	0.2880	Ave		0.3010			5.8		15.0				
Toluene	0.6567 0.6725	0.6352 0.7338	0.6354 0.7086	0.6541	0.6629	Ave		0.6699			5.2		15.0				
trans-1,3-Dichloropropene	0.4348 0.4062	0.4179 0.4377	0.3885 0.4615	0.3993	0.3966	Ave		0.4178			6.0		15.0				
Ethyl methacrylate	0.3453 0.3571	0.3284 0.3714	0.3532 0.4057	0.3384	0.3455	Ave		0.3556			6.7		15.0				
1,1,2-Trichloroethane	0.2209 0.2358	0.2315 0.2439	0.2205 0.2595	0.2381	0.2348	Ave		0.2356			5.3		15.0				
Tetrachloroethene	0.2706 0.2746	0.2595 0.2931	0.2364 0.3092	0.2602	0.2734	Ave		0.2721			8.1		15.0				
1,3-Dichloropropane	0.4470 0.4604	0.5103 0.4932	0.4391 0.5109	0.4507	0.4542	Ave		0.4707			6.2		15.0				

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 Savannah

Job No.: 680-110742-1

Analy Batch No.: 373126

SDG No.: _____

Instrument ID: CMSO2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 17:10

Calibration End Date: 03/03/2015 19:46

Calibration ID: 37946

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								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.2312 0.1992	0.2463 0.2061	0.1793 0.2236	0.1972	0.2001	Ave		0.2104			10.0		15.0				
Dibromochloromethane	0.2938 0.3340	0.3362 0.3515	0.2993 0.3732	0.3224	0.3209	Ave		0.3289			7.9		15.0				
1,2-Dibromoethane	++++ 0.2873	0.3009 0.3033	0.2587 0.3205	0.2811	0.2793	Ave		0.2901			6.9		15.0				
Chlorobenzene	1.8398 1.8197	1.7349 1.8775	1.8130 1.8792	1.8146	1.8157	Ave		1.8243		0.3000	2.5		15.0				
Ethylbenzene	3.1186 3.1378	3.0980 3.0993	3.1037 3.2673	3.1283	3.1277	Ave		3.1351			1.8		15.0				
1,1,1,2-Tetrachloroethane	0.6340 0.6898	0.7097 0.7144	0.6711 0.7210	0.7146	0.7046	Ave		0.6949			4.2		15.0				
m-Xylene & p-Xylene	2.3515 2.3449	2.3169 2.3244	2.3463 2.4412	2.4893	2.5306	Ave		2.3931			3.4		15.0				
o-Xylene	2.3235 2.5501	2.5552 2.3644	2.4626 2.5182	2.6664	2.3390	Ave		2.4724			4.9		15.0				
Styrene	1.8620 2.0334	2.0549 1.9129	1.9584 2.0611	2.1320	1.9013	Ave		1.9895			4.8		15.0				
Bromoform	0.5902 0.6561	0.5952 0.6280	0.6513 0.6648	0.6874	0.5863	Ave		0.6324		0.1000	6.1		15.0				
Isopropylbenzene	3.0095 3.0838	3.0462 2.9270	3.0495 3.1765	3.3925	2.8985	Ave		3.0729			5.1		15.0				
Bromobenzene	0.9646 0.9016	0.8949 0.8426	0.9071 0.9204	0.9308	0.8312	Ave		0.8992			4.9		15.0				
1,1,2,2-Tetrachloroethane	0.8931 0.8528	0.8230 0.8199	0.8563 0.8800	0.9370	0.8178	Ave		0.8600		0.3000	4.9		15.0				
N-Propylbenzene	4.2278 3.8417	3.9304 3.6813	3.8362 3.9692	4.4915	3.7897	Ave		3.9710			6.7		15.0				
1,2,3-Trichloropropane	1.0415 0.9748	0.9764 0.9279	0.9655 1.0243	1.0722	0.8823	Ave		0.9831			6.3		15.0				
trans-1,4-Dichloro-2-butene	0.2326 0.2328	0.1755 0.2172	0.2120 0.2420	0.2404	0.2236	Ave		0.2220			9.7		15.0				
2-Chlorotoluene	2.3491 2.1808	2.1065 2.0765	2.1505 2.2232	2.4279	2.1407	Ave		2.2069			5.5		15.0				
1,3,5-Trimethylbenzene	2.8069 2.6154	2.5443 2.5213	2.5874 2.6800	2.8964	2.5149	Ave		2.6458			5.3		15.0				
4-Chlorotoluene	2.5648 2.3019	2.2236 2.1946	2.3979 2.3703	2.5808	2.2673	Ave		2.3626			6.2		15.0				
tert-Butylbenzene	2.3140 2.2658	2.2403 2.1426	2.2628 2.3375	2.4608	2.2229	Ave		2.2808			4.1		15.0				

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 Savannah

Job No.: 680-110742-1

Analy Batch No.: 373126

SDG No.: _____

Instrument ID: CMSO2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 17:10

Calibration End Date: 03/03/2015 19:46

Calibration ID: 37946

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								
	LVL 6	LVL 7	LVL 8	LVL 5													
1,2,4-Trimethylbenzene	2.8071 2.6978	2.5328 2.6135	2.6308 2.7819	2.8601	2.6131	Ave		2.6922			4.2		15.0				
sec-Butylbenzene	3.6602 3.4110	3.1410 3.2968	3.4087 3.5271	3.6188	3.2964	Ave		3.4200			5.2		15.0				
p-Isopropyltoluene	2.5729 2.7455	2.6777 2.8513	2.5750 2.7804	2.6698	2.7009	Ave		2.6967			3.6		15.0				
1,3-Dichlorobenzene	1.3865 1.5474	1.5687 1.5912	1.4954 1.5726	1.5113	1.5306	Ave		1.5255			4.2		15.0				
1,4-Dichlorobenzene	1.5527 1.5636	1.5477 1.6050	1.5817 1.5744	1.5245	1.5592	Ave		1.5636			1.5		15.0				
n-Butylbenzene	2.2772 2.6015	2.3244 2.6349	2.3776 2.5256	2.4627	2.5301	Ave		2.4667			5.3		15.0				
1,2-Dichlorobenzene	1.4373 1.4823	1.3922 1.4962	1.4520 1.4732	1.4183	1.4622	Ave		1.4517			2.4		15.0				
1,2-Dibromo-3-Chloropropane	0.1385 0.1662	0.1503 0.1595	0.1485 0.1755	0.1554	0.1770	Ave		0.1589			8.5		15.0				
1,2,4-Trichlorobenzene	0.9209 0.9461	1.0135 0.8892	0.8732 0.9576	0.8530	0.9750	Ave		0.9286			5.9		15.0				
Hexachlorobutadiene	0.6095 0.5769	0.5920 0.5151	0.5197 0.5610	0.5398	0.6114	Ave		0.5657			6.7		15.0				
Naphthalene	1.5192 1.4885	1.4455 1.4016	1.3287 1.6792	1.0667	1.4048	Ave		1.4168			12.0		15.0				
1,2,3-Trichlorobenzene	0.6439 0.7405	0.7849 0.7063	0.6901 0.7635	0.6598	0.7743	Ave		0.7204			7.4		15.0				
Dibromofluoromethane (Surr)	0.2649 0.2669	0.2560 0.2826	0.2392 0.2655	0.2702	0.2710	Ave		0.2645			4.8		15.0				
1,2-Dichloroethane-d4 (Surr)	0.3219 0.2973	0.2870 0.3062	0.2961 0.2922	0.3055	0.2995	Ave		0.3007			3.6		15.0				
Toluene-d8 (Surr)	2.7612 2.3134	2.1168 2.2884	2.3801 2.2470	2.3943	2.1731	Ave		2.3343			8.4		15.0				
4-Bromofluorobenzene (Surr)	1.0683 0.8623	0.9864 0.7718	0.8302 0.8409	0.8403	0.8266	Ave		0.8783			11.0		15.0				

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 Savannah Job No.: 680-110742-1 Analy Batch No.: 373126

SDG No.: _____

Instrument ID: CMSO2 GC Column: Rtx-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 17:10 Calibration End Date: 03/03/2015 19:46 Calibration ID: 37946

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-373126/4	OC0304.D
Level 2	IC 680-373126/5	OC0305.D
Level 3	IC 680-373126/6	OC0306.D
Level 4	IC 680-373126/7	OC0307.D
Level 5	IC 680-373126/8	OC0308.D
Level 6	ICIS 680-373126/9	OC0309.D
Level 7	IC 680-373126/10	OC0310.D
Level 8	IC 680-373126/11	OC0311.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
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	FB	Ave	2514 128138	4882 248312	14163 498179	24810	49059	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	2669 143506	5251 351311	14861 732849	35937	53302	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Butadiene	FB	Ave	2310 163597	4877 323728	14979 669133	30753	61060	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Chloromethane	FB	Ave	3679 232573	7504 476760	21046 1001701	43218	87151	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromomethane	FB	Ave	1329 80697	2520 131197	5227 258060	10442	23788	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Chloroethane	FB	Ave	2005 86462	3466 193710	9824 355844	17011	39288	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	4624 250421	8488 512898	20160 1019639	45750	103045	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	3203 178423	7180 385573	18268 798325	33721	70964	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	1717 106661	3470 209754	10920 430234	21599	44226	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2036 107796	4115 221341	10409 467966	23119	48291	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Acrolein	FB	Ave	++++ 218238	5885 471045	19606 990446	39316	86471	++++ 1000	40.0 2000	100 4000	200	400
1,1-Dichloroethene	FB	Ave	1933 112397	4126 228867	11256 467912	23219	47086	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Acetone	FB	LinF	++++ 60808	3285 124720	7268 258135	11117	25443	++++ 250	10.0 500	25.0 1000	50.0	100
Iodomethane	FB	Ave	++++ 193123	++++ 399588	15157 832921	34551	77536	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Carbon disulfide	FB	Ave	7222 386820	14774 795367	40028 1598366	81606	169058	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Savannah Job No.: 680-110742-1 Analy Batch No.: 373126

SDG No.: _____

Instrument ID: CMSO2 GC Column: Rtx-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 17:10 Calibration End Date: 03/03/2015 19:46 Calibration ID: 37946

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	1645 85707	3464 185481	8792 435642	17708	37131	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methyl acetate	FB	Ave	8597 487882	18176 1051228	49723 2262773	101271	207723	5.00 250	10.0 500	25.0 1000	50.0	100
Methylene Chloride	FB	Ave	2765 128258	5181 264057	13346 537714	25564	54554	1.00 50.0	2.00 100	5.00 200	10.0	20.0
tert-Butyl alcohol	FB	Ave	1382 94804	3652 201794	9839 427535	18462	39486	10.0 500	20.0 1000	50.0 2000	100	200
Methyl tert-butyl ether	FB	Ave	6002 340822	12810 704823	35897 1440838	65344	132989	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	2439 119296	4588 243898	11759 507138	22919	46112	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Acrylonitrile	FB	Ave	7836 511933	17844 1071955	49124 2221912	97682	195279	10.0 500	20.0 1000	50.0 2000	100	200
Hexane	FB	Ave	4671 208886	9115 421616	20992 860580	41968	84198	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	4088 234907	9228 476573	22643 977340	45797	89955	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	9674 531962	19327 1102221	52317 2233220	101894	199332	2.00 100	4.00 200	10.0 400	20.0	40.0
2,2-Dichloropropane	FB	Ave	3609 176457	6893 348163	16290 718765	35508	69248	1.00 50.0	2.00 100	5.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	3910 207774	7587 414224	19283 875288	39262	81730	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Butanone	FB	LinF	++++ 69446	3766 143921	7962 297458	14458	25693	++++ 250	10.0 500	25.0 1000	50.0	100
Bromochloromethane	FB	Ave	1523 87860	3468 185131	8570 370704	16496	34064	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	LinF	2555 84798	4477 177852	9276 366558	17824	31427	2.00 100	4.00 200	10.0 400	20.0	40.0
Chloroform	FB	Ave	4001 213906	7961 430970	19768 882730	42979	81517	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	3054 190368	7180 389815	18663 817789	37646	75332	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	3501 185584	5893 374496	16983 774094	35379	72352	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	2817 171803	5944 345983	16837 718181	33244	67938	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	3020 167794	5742 329916	14737 694673	33171	64825	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Isobutanol	FB	LinF	1730 139521	4656 285974	15692 615917	28846	54393	25.0 1250	50.0 2500	125 5000	250	500

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

Lab Name: TestAmerica Savannah Job No.: 680-110742-1 Analy Batch No.: 373126

SDG No.: _____

Instrument ID: CMSO2 GC Column: Rtx-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 17:10 Calibration End Date: 03/03/2015 19:46 Calibration ID: 37946

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	9370 497555	17195 1002821	48327 2058459	96995	192140	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloroethane	FB	Ave	2987 166165	6445 338617	17083 679028	32429	63621	1.00 50.0	2.00 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	4257 241509	8970 462296	22390 969464	45745	89069	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	2481 136101	5463 271156	14120 563771	25989	50850	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	4183 234802	8719 468090	21990 978783	45473	88415	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	2556 142357	4959 290779	14912 601249	28791	56442	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,4-Dioxane	FB	Ave	453 23360	1091 46629	2290 112081	4041	9458	20.0 1000	40.0 2000	100 4000	200	400
Dibromomethane	FB	Ave	1650 82384	3246 168710	8728 373632	15727	31952	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromodichloromethane	FB	Ave	3516 172971	6440 371156	18177 772861	33172	67241	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Chloroethyl vinyl ether	FB	QuaF	++++ 22572	++++ 61008	1503 137803	2832	6659	++++ 50.0	++++ 100	5.00 200	10.0	20.0
cis-1,3-Dichloropropene	FB	Ave	4127 214083	8050 477193	20535 962233	41460	81254	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Methyl-2-pentanone	FB	Ave	12568 710944	24910 1482815	69779 3118563	130409	258451	5.00 250	10.0 500	25.0 1000	50.0	100
Toluene	FB	Ave	5957 309904	10804 663658	29907 1367977	58118	118975	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	FB	Ave	3944 187198	7107 395853	18286 891027	35479	71171	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethyl methacrylate	FB	Ave	3132 164535	5585 335839	16623 783144	30072	62012	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	FB	Ave	2004 108659	3937 220616	10377 501027	21155	42137	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Tetrachloroethene	FB	Ave	2455 126540	4413 265047	11126 596884	23117	49061	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Dichloropropane	FB	Ave	4055 212179	8679 446063	20664 986395	40049	81514	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Hexanone	FB	Ave	10486 458934	20948 932084	42189 2158334	87602	179544	5.00 250	10.0 500	25.0 1000	50.0	100
Dibromochloromethane	FB	Ave	2665 153912	5719 317874	14086 720555	28651	57585	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dibromoethane	FB	Ave	++++ 132381	5117 274256	12175 618709	24978	50126	++++ 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

Analy Batch No.: 373126

SDG No.: _____

Instrument ID: CMSO2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 17:10

Calibration End Date: 03/03/2015 19:46

Calibration ID: 37946

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBZ	Ave	6817	13312	32754	66256	143880	1.00	2.00	5.00	10.0	20.0
			355222	789856	1698461			50.0	100	200		
Ethylbenzene	CBZ	Ave	11555	23772	56073	114222	247838	1.00	2.00	5.00	10.0	20.0
			612523	1303820	2953085			50.0	100	200		
1,1,1,2-Tetrachloroethane	CBZ	Ave	2349	5446	12124	26093	55834	1.00	2.00	5.00	10.0	20.0
			134663	300557	651677			50.0	100	200		
m-Xylene & p-Xylene	CBZ	Ave	8713	17778	42390	90893	200522	1.00	2.00	5.00	10.0	20.0
			457748	977839	2206416			50.0	100	200		
o-Xylene	CBZ	Ave	8609	19607	44490	97358	185347	1.00	2.00	5.00	10.0	20.0
			497792	994660	2276035			50.0	100	200		
Styrene	CBZ	Ave	6899	15768	35381	77846	150663	1.00	2.00	5.00	10.0	20.0
			396938	804743	1862911			50.0	100	200		
Bromoform	CBZ	Ave	2187	4567	11767	25100	46455	1.00	2.00	5.00	10.0	20.0
			128075	264193	600878			50.0	100	200		
Isopropylbenzene	CBZ	Ave	11151	23374	55094	123870	229680	1.00	2.00	5.00	10.0	20.0
			601982	1231338	2870959			50.0	100	200		
Bromobenzene	CBZ	Ave	3574	6867	16389	33985	65865	1.00	2.00	5.00	10.0	20.0
			175992	354476	831904			50.0	100	200		
1,1,2,2-Tetrachloroethane	CBZ	Ave	3309	6315	15471	34212	64804	1.00	2.00	5.00	10.0	20.0
			166471	344904	795375			50.0	100	200		
N-Propylbenzene	CBZ	Ave	15665	30159	69307	163997	300300	1.00	2.00	5.00	10.0	20.0
			749926	1548697	3587472			50.0	100	200		
1,2,3-Trichloropropane	CBZ	Ave	3859	7492	17443	39149	69914	1.00	2.00	5.00	10.0	20.0
			190291	390344	925745			50.0	100	200		
trans-1,4-Dichloro-2-butene	CBZ	Ave	862	1347	3830	8777	17721	1.00	2.00	5.00	10.0	20.0
			45437	91377	218720			50.0	100	200		
2-Chlorotoluene	CBZ	Ave	8704	16164	38852	88650	169632	1.00	2.00	5.00	10.0	20.0
			425701	873542	2009425			50.0	100	200		
1,3,5-Trimethylbenzene	CBZ	Ave	10400	19523	46746	105758	199279	1.00	2.00	5.00	10.0	20.0
			510544	1060672	2422261			50.0	100	200		
4-Chlorotoluene	CBZ	Ave	9503	17062	43321	94231	179659	1.00	2.00	5.00	10.0	20.0
			449349	923255	2142354			50.0	100	200		
tert-Butylbenzene	CBZ	Ave	8574	17190	40881	89850	176143	1.00	2.00	5.00	10.0	20.0
			442294	901354	2112731			50.0	100	200		
1,2,4-Trimethylbenzene	CBZ	Ave	10401	19435	47530	104432	207064	1.00	2.00	5.00	10.0	20.0
			526635	1099475	2514363			50.0	100	200		
sec-Butylbenzene	CBZ	Ave	13562	24102	61583	132135	261206	1.00	2.00	5.00	10.0	20.0
			665856	1386939	3187843			50.0	100	200		
p-Isopropyltoluene	DCB	Ave	11500	21516	53320	114889	227144	1.00	2.00	5.00	10.0	20.0
			576981	1330071	2772323			50.0	100	200		
1,3-Dichlorobenzene	DCB	Ave	6197	12605	30965	65036	128722	1.00	2.00	5.00	10.0	20.0
			325199	742268	1567994			50.0	100	200		

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

Lab Name: TestAmerica Savannah Job No.: 680-110742-1 Analy Batch No.: 373126

SDG No.: _____

Instrument ID: CMSO2 GC Column: Rtx-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 17:10 Calibration End Date: 03/03/2015 19:46 Calibration ID: 37946

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	6940 328595	12436 748695	32752 1569818	65604	131126	1.00 50.0	2.00 100	5.00 200	10.0	20.0
n-Butylbenzene	DCB	Ave	10178 546721	18677 1229143	49231 2518300	105975	212777	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	6424 311508	11187 697927	30067 1468967	61033	122971	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	619 34927	1208 74380	3074 175017	6686	14889	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	4116 198835	8144 414775	18081 954841	36707	81998	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCB	Ave	2724 121239	4757 240267	10761 559411	23229	51415	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Naphthalene	DCB	Ave	6790 312812	11615 653813	27513 1674282	45905	118145	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	2878 155620	6307 329481	14290 761326	28391	65116	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	2403 123005	4354 255600	11260 512591	24005	48636	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	2920 137001	4881 276943	13938 564032	27149	53758	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	10231 451592	16243 962712	43000 2030909	87422	172196	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCB	Ave	4775 181223	7926 360027	17190 838487	36159	69512	1.00 50.0	2.00 100	5.00 200	10.0	20.0

Curve Type Legend:

<p>Ave = Average ISTD LinF = Linear ISTD forced zero QuaF = Quadratic ISTD forced zero</p>
--

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0304.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 03-Mar-2015 17:10:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0017547-004
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSO2
 Sublist: chrom-2014_MSO2*sub9
 Method: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\2014_MSO2.m
 Limit Group: 8260B
 Last Update: 09-Mar-2015 18:34:34 Calib Date: 03-Mar-2015 19:46:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: beardnr

Date: 04-Mar-2015 07:33:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.218	1.215	0.003	97	2514	1.00	0.99	
2 Vinyl chloride	62	1.401	1.398	0.003	98	2669	1.00	0.8719	
3 Chloromethane	50	1.413	1.416	-0.003	63	3679	1.00	0.8501	
4 Butadiene	54	1.413	1.416	-0.003	92	2310	1.00	0.7819	
5 Bromomethane	94	1.607	1.605	0.002	88	1329	1.00	1.06	
6 Chloroethane	64	1.662	1.660	0.002	90	2005	1.00	1.08	
7 Dichlorofluoromethane	67	1.784	1.781	0.003	93	4624	1.00	0.9791	
8 Trichlorofluoromethane	101	1.790	1.793	-0.003	95	3203	1.00	0.8924	
10 Ethyl ether	59	1.978	1.976	0.002	84	1717	1.00	0.8408	
11 1,1,2-Trichloro-1,2,2-trif	151	2.112	2.110	0.002	90	2036	1.00	0.9266	
12 Acrolein	56	2.137	2.128	0.009	94	2828	20.0	13.7	
13 1,1-Dichloroethene	96	2.155	2.152	0.003	96	1933	1.00	0.8707	
14 Acetone	58	2.240	2.238	0.002	86	2180	5.00	8.94	
16 Iodomethane	142	2.289	2.286	0.003	92	1742	1.00	0.4731	
18 Carbon disulfide	76	2.319	2.317	0.002	99	7222	1.00	0.9201	
19 3-Chloro-1-propene	76	2.410	2.414	-0.004	80	1645	1.00	0.9097	
20 Methyl acetate	43	2.423	2.420	0.003	99	8597	5.00	4.33	
22 Methylene Chloride	84	2.526	2.523	0.003	97	2765	1.00	1.05	
23 2-Methyl-2-propanol	59	2.562	2.560	0.002	42	1382	10.0	7.37	
24 Methyl tert-butyl ether	73	2.654	2.651	0.003	97	6002	1.00	0.8943	
25 trans-1,2-Dichloroethene	96	2.672	2.669	0.003	96	2439	1.00	1.03	
26 Acrylonitrile	53	2.745	2.742	0.003	97	7836	10.0	8.04	
27 Hexane	57	2.794	2.797	-0.003	94	4671	1.00	1.08	
29 1,1-Dichloroethane	63	3.000	2.998	0.002	64	4088	1.00	0.8937	
30 Vinyl acetate	43	3.007	3.004	0.003	100	9674	2.00	1.87	
33 2,2-Dichloropropane	77	3.390	3.393	-0.003	95	3609	1.00	1.04	
34 cis-1,2-Dichloroethene	61	3.408	3.412	-0.004	93	3910	1.00	0.9724	
36 2-Butanone (MEK)	72	3.432	3.430	0.002	97	2512	5.00	8.94	
38 Chlorobromomethane	130	3.584	3.594	-0.010	97	1523	1.00	0.8856	
39 Tetrahydrofuran	42	3.603	3.594	0.009	93	2555	2.00	2.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.621	3.625	-0.004	97	4001	1.00	0.9628	
42 Cyclohexane	84	3.724	3.728	-0.004	96	3054	1.00	0.8245	
43 1,1,1-Trichloroethane	97	3.737	3.734	0.003	84	3501	1.00	0.99	
\$ 44 Dibromofluoromethane (Surr	113	3.743	3.746	-0.003	93	2403	1.00	1.00	
45 Carbon tetrachloride	117	3.828	3.825	0.003	98	2817	1.00	0.8573	
46 1,1-Dichloropropene	75	3.846	3.850	-0.004	92	3020	1.00	0.9489	
47 Isobutyl alcohol	43	3.943	3.935	0.008	58	1730	25.0	15.0	
50 Benzene	78	3.998	4.002	-0.004	98	9370	1.00	0.9736	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.010	4.014	-0.004	63	2920	1.00	1.07	
53 1,2-Dichloroethane	62	4.065	4.069	-0.004	92	2987	1.00	0.9155	
54 n-Heptane	43	4.102	4.099	0.003	95	4257	1.00	0.9337	
* 55 Fluorobenzene	96	4.211	4.209	0.002	0	453550	50.0	50.0	
57 Trichloroethene	132	4.467	4.464	0.003	97	2481	1.00	0.9280	
59 Methylcyclohexane	83	4.546	4.549	-0.003	94	4183	1.00	0.9270	
60 1,2-Dichloropropane	63	4.673	4.671	0.002	91	2556	1.00	0.9124	
62 1,4-Dioxane	88	4.759	4.756	0.003	39	453	20.0	19.0	
63 Dibromomethane	93	4.759	4.762	-0.003	93	1650	1.00	0.9885	
64 Dichlorobromomethane	83	4.862	4.859	0.003	95	3516	1.00	1.00	
67 cis-1,3-Dichloropropene	75	5.191	5.194	-0.003	95	4127	1.00	0.9643	
68 4-Methyl-2-pentanone (MIBK	43	5.306	5.304	0.002	98	12568	5.00	4.60	
\$ 69 Toluene-d8 (Surr)	98	5.361	5.364	-0.003	96	10231	1.00	1.18	
70 Toluene	92	5.416	5.413	0.003	92	5957	1.00	0.9803	
71 trans-1,3-Dichloropropene	75	5.635	5.632	0.003	91	3944	1.00	1.04	
72 Ethyl methacrylate	69	5.647	5.644	0.003	89	3132	1.00	0.9709	
73 1,1,2-Trichloroethane	83	5.775	5.778	-0.003	91	2004	1.00	0.9376	
74 Tetrachloroethene	164	5.811	5.809	0.003	95	2455	1.00	0.99	
75 1,3-Dichloropropane	76	5.914	5.912	0.002	96	4055	1.00	0.9496	
76 2-Hexanone	43	5.945	5.942	0.003	97	10486	5.00	5.49	
78 Chlorodibromomethane	129	6.060	6.064	-0.004	96	2665	1.00	0.8932	
* 81 Chlorobenzene-d5	82	6.505	6.502	0.003	86	185261	50.0	50.0	
82 Chlorobenzene	112	6.523	6.526	-0.003	95	6817	1.00	1.01	
83 Ethylbenzene	91	6.578	6.581	-0.003	98	11555	1.00	0.99	
84 1,1,1,2-Tetrachloroethane	131	6.596	6.593	0.003	93	2349	1.00	0.9123	
85 m-Xylene & p-Xylene	91	6.675	6.672	0.003	90	8713	1.00	0.9826	
87 o-Xylene	91	6.997	6.995	0.002	91	8609	1.00	0.9398	
88 Styrene	104	7.022	7.019	0.003	93	6899	1.00	0.9359	
89 Bromoform	173	7.204	7.196	0.008	94	2187	1.00	0.9333	
90 Isopropylbenzene	105	7.283	7.281	0.002	96	11151	1.00	0.9794	
\$ 92 4-Bromofluorobenzene (Surr	95	7.454	7.451	0.003	85	4775	1.00	1.22	
93 Bromobenzene	156	7.569	7.573	-0.004	93	3574	1.00	1.07	
94 1,1,2,2-Tetrachloroethane	83	7.587	7.591	-0.004	96	3309	1.00	1.04	
95 N-Propylbenzene	91	7.618	7.615	0.003	100	15665	1.00	1.06	
96 1,2,3-Trichloropropane	75	7.642	7.640	0.002	90	3859	1.00	1.06	
97 trans-1,4-Dichloro-2-buten	53	7.648	7.646	0.002	70	862	1.00	1.05	
98 2-Chlorotoluene	91	7.715	7.719	-0.004	96	8704	1.00	1.06	
99 1,3,5-Trimethylbenzene	105	7.770	7.767	0.003	93	10400	1.00	1.06	
100 4-Chlorotoluene	91	7.813	7.810	0.002	98	9503	1.00	1.09	
103 tert-Butylbenzene	119	8.019	8.023	-0.004	94	8574	1.00	1.01	
104 1,2,4-Trimethylbenzene	105	8.080	8.078	0.002	97	10401	1.00	1.04	
106 sec-Butylbenzene	105	8.208	8.205	0.003	99	13562	1.00	1.07	
107 4-Isopropyltoluene	119	8.324	8.327	-0.003	97	11500	1.00	0.9541	
108 1,3-Dichlorobenzene	146	8.342	8.339	0.003	91	6197	1.00	0.9089	

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0304.D

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 109 1,4-Dichlorobenzene-d4	152	8.397	8.400	-0.003	99	223479	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.421	8.418	0.003	90	6940	1.00	0.99	
113 n-Butylbenzene	91	8.664	8.668	-0.004	98	10178	1.00	0.9231	
114 1,2-Dichlorobenzene	146	8.731	8.735	-0.004	97	6424	1.00	0.99	
115 1,2-Dibromo-3-Chloropropan	157	9.412	9.410	0.002	86	619	1.00	0.8718	
117 1,2,4-Trichlorobenzene	180	10.063	10.067	-0.004	88	4116	1.00	0.99	
118 Hexachlorobutadiene	225	10.161	10.158	0.003	92	2724	1.00	1.08	
119 Naphthalene	128	10.282	10.280	0.002	99	6790	1.00	1.07	
120 1,2,3-Trichlorobenzene	180	10.489	10.487	0.002	93	2878	1.00	0.8938	
S 122 1,2-Dichloroethene, Total	1				0		2.00	2.00	
S 123 Xylenes, Total	1				0		2.00	1.92	
S 124 1,3-Dichloropropene, Total	1				0		2.00	2.00	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_Acrolein_00029	Amount Added: 0.10	Units: uL
VM_MMIX_01712	Amount Added: 0.10	Units: uL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0304.D

Injection Date: 03-Mar-2015 17:10:30

Instrument ID: CMSO2

Operator ID: DK

Lims ID: IC

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL/100g

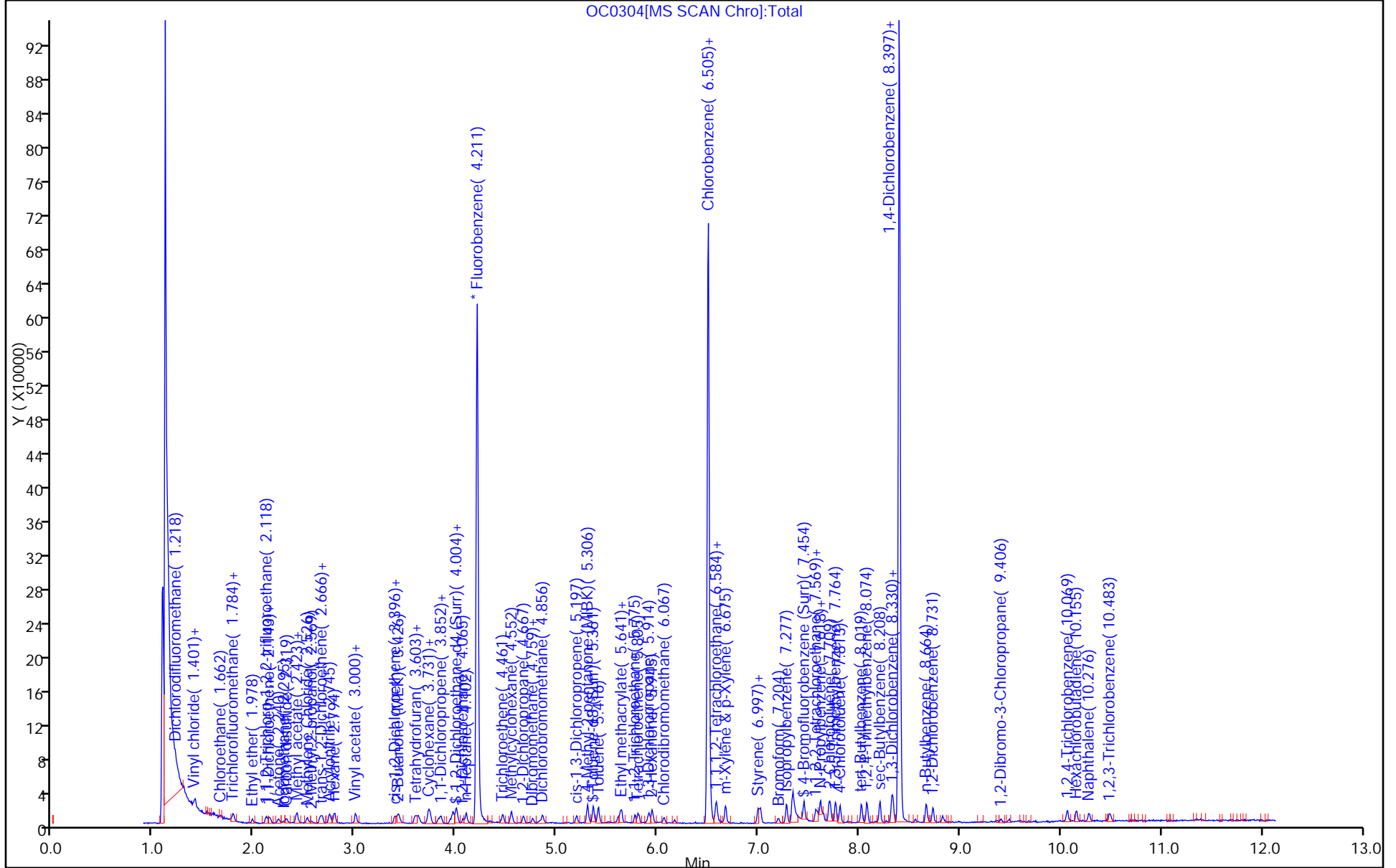
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0305.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 03-Mar-2015 17:32:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0017547-005
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSO2
 Sublist: chrom-2014_MS02*sub9
 Method: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 09-Mar-2015 18:34:38 Calib Date: 03-Mar-2015 19:46:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: beardnr

Date: 04-Mar-2015 07:57:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.219	1.215	0.004	99	4882	2.00	2.06	
2 Vinyl chloride	62	1.395	1.398	-0.003	98	5251	2.00	1.83	
3 Chloromethane	50	1.413	1.416	-0.003	67	7504	2.00	1.85	
4 Butadiene	54	1.413	1.416	-0.003	96	4877	2.00	1.76	
5 Bromomethane	94	1.608	1.605	0.003	81	2520	2.00	2.14	
6 Chloroethane	64	1.663	1.660	0.003	97	3466	2.00	2.00	
7 Dichlorofluoromethane	67	1.784	1.781	0.003	91	8488	2.00	1.92	
8 Trichlorofluoromethane	101	1.790	1.793	-0.003	97	7180	2.00	2.13	
10 Ethyl ether	59	1.973	1.976	-0.003	82	3470	2.00	1.81	
11 1,1,2-Trichloro-1,2,2-trif	151	2.119	2.110	0.009	91	4115	2.00	2.00	
12 Acrolein	56	2.137	2.128	0.009	94	5885	40.0	30.3	
13 1,1-Dichloroethene	96	2.149	2.152	-0.003	97	4126	2.00	1.98	
14 Acetone	58	2.247	2.238	0.009	85	3285	10.0	14.4	
16 Iodomethane	142	2.289	2.286	0.003	98	4647	2.00	1.35	
18 Carbon disulfide	76	2.320	2.317	0.003	100	14774	2.00	2.01	
19 3-Chloro-1-propene	76	2.411	2.414	-0.003	91	3464	2.00	2.04	
20 Methyl acetate	43	2.423	2.420	0.003	99	18176	10.0	9.76	
22 Methylene Chloride	84	2.527	2.523	0.004	98	5181	2.00	2.09	
23 2-Methyl-2-propanol	59	2.563	2.560	0.003	97	3652	20.0	20.8	
24 Methyl tert-butyl ether	73	2.654	2.651	0.003	97	12810	2.00	2.04	
25 trans-1,2-Dichloroethene	96	2.673	2.669	0.004	90	4588	2.00	2.06	
26 Acrylonitrile	53	2.746	2.742	0.004	95	17844	20.0	19.5	
27 Hexane	57	2.800	2.797	0.003	94	9115	2.00	2.25	
29 1,1-Dichloroethane	63	3.001	2.998	0.003	64	9228	2.00	2.15	
30 Vinyl acetate	43	3.007	3.004	0.003	100	19327	4.00	4.00	
33 2,2-Dichloropropane	77	3.390	3.393	-0.003	95	6893	2.00	2.11	
34 cis-1,2-Dichloroethene	61	3.415	3.412	0.003	96	7587	2.00	2.01	
36 2-Butanone (MEK)	72	3.433	3.430	0.003	98	3766	10.0	14.3	
38 Chlorobromomethane	130	3.591	3.594	-0.003	93	3468	2.00	2.15	
39 Tetrahydrofuran	42	3.603	3.594	0.009	89	4477	4.00	5.52	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.628	3.625	0.003	98	7961	2.00	2.04	
42 Cyclohexane	84	3.731	3.728	0.003	93	7180	2.00	2.07	
43 1,1,1-Trichloroethane	97	3.737	3.734	0.003	98	5893	2.00	1.78	
\$ 44 Dibromofluoromethane (Surr	113	3.743	3.746	-0.003	91	4354	2.00	1.94	
45 Carbon tetrachloride	117	3.828	3.825	0.003	96	5944	2.00	1.93	
46 1,1-Dichloropropene	75	3.853	3.850	0.003	97	5742	2.00	1.92	
47 Isobutyl alcohol	43	3.938	3.935	0.003	93	4656	50.0	43.1	
50 Benzene	78	4.005	4.002	0.003	97	17195	2.00	1.91	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.011	4.014	-0.003	59	4881	2.00	1.91	
53 1,2-Dichloroethane	62	4.066	4.069	-0.003	96	6445	2.00	2.11	
54 n-Heptane	43	4.102	4.099	0.003	96	8970	2.00	2.10	
* 55 Fluorobenzene	96	4.212	4.209	0.003	0	425211	50.0	50.0	
57 Trichloroethene	132	4.467	4.464	0.003	95	5463	2.00	2.18	
59 Methylcyclohexane	83	4.546	4.549	-0.003	94	8719	2.00	2.06	
60 1,2-Dichloropropane	63	4.668	4.671	-0.003	84	4959	2.00	1.89	
62 1,4-Dioxane	88	4.753	4.756	-0.003	44	1091	40.0	48.7	
63 Dibromomethane	93	4.759	4.762	-0.003	92	3246	2.00	2.07	
64 Dichlorobromomethane	83	4.863	4.859	0.004	99	6440	2.00	1.96	
65 2-Chloroethyl vinyl ether	63	5.076	5.078	-0.002	0	603	2.00	1.34	
67 cis-1,3-Dichloropropene	75	5.197	5.194	0.003	96	8050	2.00	2.01	
68 4-Methyl-2-pentanone (MIBK	43	5.307	5.304	0.003	98	24910	10.0	9.73	
\$ 69 Toluene-d8 (Surr)	98	5.361	5.364	-0.003	99	16243	2.00	1.81	
70 Toluene	92	5.416	5.413	0.003	92	10804	2.00	1.90	
71 trans-1,3-Dichloropropene	75	5.635	5.632	0.003	94	7107	2.00	2.00	
72 Ethyl methacrylate	69	5.641	5.644	-0.003	91	5585	2.00	1.85	
73 1,1,2-Trichloroethane	83	5.775	5.778	-0.003	94	3937	2.00	1.96	
74 Tetrachloroethene	164	5.812	5.809	0.004	95	4413	2.00	1.91	
75 1,3-Dichloropropane	76	5.915	5.912	0.003	96	8679	2.00	2.17	
76 2-Hexanone	43	5.945	5.942	0.003	99	20948	10.0	11.7	
78 Chlorodibromomethane	129	6.061	6.064	-0.003	98	5719	2.00	2.04	
79 Ethylene Dibromide	107	6.171	6.167	0.004	98	5117	2.00	2.07	
* 81 Chlorobenzene-d5	82	6.505	6.502	0.003	86	191831	50.0	50.0	
82 Chlorobenzene	112	6.523	6.526	-0.003	94	13312	2.00	1.90	
83 Ethylbenzene	91	6.578	6.581	-0.003	99	23772	2.00	1.98	
84 1,1,1,2-Tetrachloroethane	131	6.590	6.593	-0.003	95	5446	2.00	2.04	
85 m-Xylene & p-Xylene	91	6.676	6.672	0.004	90	17778	2.00	1.94	
87 o-Xylene	91	6.998	6.995	0.003	95	19607	2.00	2.07	
88 Styrene	104	7.022	7.019	0.003	95	15768	2.00	2.07	
89 Bromoform	173	7.199	7.196	0.003	97	4567	2.00	1.88	
90 Isopropylbenzene	105	7.278	7.281	-0.003	96	23374	2.00	1.98	
\$ 92 4-Bromofluorobenzene (Surr	95	7.454	7.451	0.003	91	7926	2.00	2.25	
93 Bromobenzene	156	7.570	7.573	-0.003	89	6867	2.00	1.99	
94 1,1,2,2-Tetrachloroethane	83	7.594	7.591	0.003	96	6315	2.00	1.91	
95 N-Propylbenzene	91	7.618	7.615	0.003	98	30159	2.00	1.98	
96 1,2,3-Trichloropropane	75	7.637	7.640	-0.003	93	7492	2.00	1.99	
97 trans-1,4-Dichloro-2-buten	53	7.649	7.646	0.003	69	1347	2.00	1.58	
98 2-Chlorotoluene	91	7.716	7.719	-0.003	97	16164	2.00	1.91	
99 1,3,5-Trimethylbenzene	105	7.764	7.767	-0.003	93	19523	2.00	1.92	
100 4-Chlorotoluene	91	7.813	7.810	0.003	97	17062	2.00	1.88	
103 tert-Butylbenzene	119	8.026	8.023	0.003	94	17190	2.00	1.96	
104 1,2,4-Trimethylbenzene	105	8.081	8.078	0.003	98	19435	2.00	1.88	
106 sec-Butylbenzene	105	8.209	8.205	0.004	98	24102	2.00	1.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.324	8.327	-0.003	98	21516	2.00	1.99	
108 1,3-Dichlorobenzene	146	8.336	8.339	-0.003	98	12605	2.00	2.06	
* 109 1,4-Dichlorobenzene-d4	152	8.397	8.400	-0.003	99	200880	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.415	8.418	-0.003	92	12436	2.00	1.98	
113 n-Butylbenzene	91	8.665	8.668	-0.003	98	18677	2.00	1.88	
114 1,2-Dichlorobenzene	146	8.732	8.735	-0.003	96	11187	2.00	1.92	
115 1,2-Dibromo-3-Chloropropan	157	9.407	9.410	-0.003	90	1208	2.00	1.89	
117 1,2,4-Trichlorobenzene	180	10.064	10.067	-0.003	91	8144	2.00	2.18	
118 Hexachlorobutadiene	225	10.161	10.158	0.003	94	4757	2.00	2.09	
119 Naphthalene	128	10.277	10.280	-0.003	98	11615	2.00	2.04	
120 1,2,3-Trichlorobenzene	180	10.484	10.487	-0.003	92	6307	2.00	2.18	
S 122 1,2-Dichloroethene, Total	1				0		4.00	4.07	
S 123 Xylenes, Total	1				0		4.00	4.00	
S 124 1,3-Dichloropropene, Total	1				0		4.00	4.01	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_Acrolein_00029	Amount Added: 0.20	Units: uL
VM_MMIX_01712	Amount Added: 0.20	Units: uL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0305.D

Injection Date: 03-Mar-2015 17:32:30

Instrument ID: CMSO2

Operator ID: DK

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL/100g

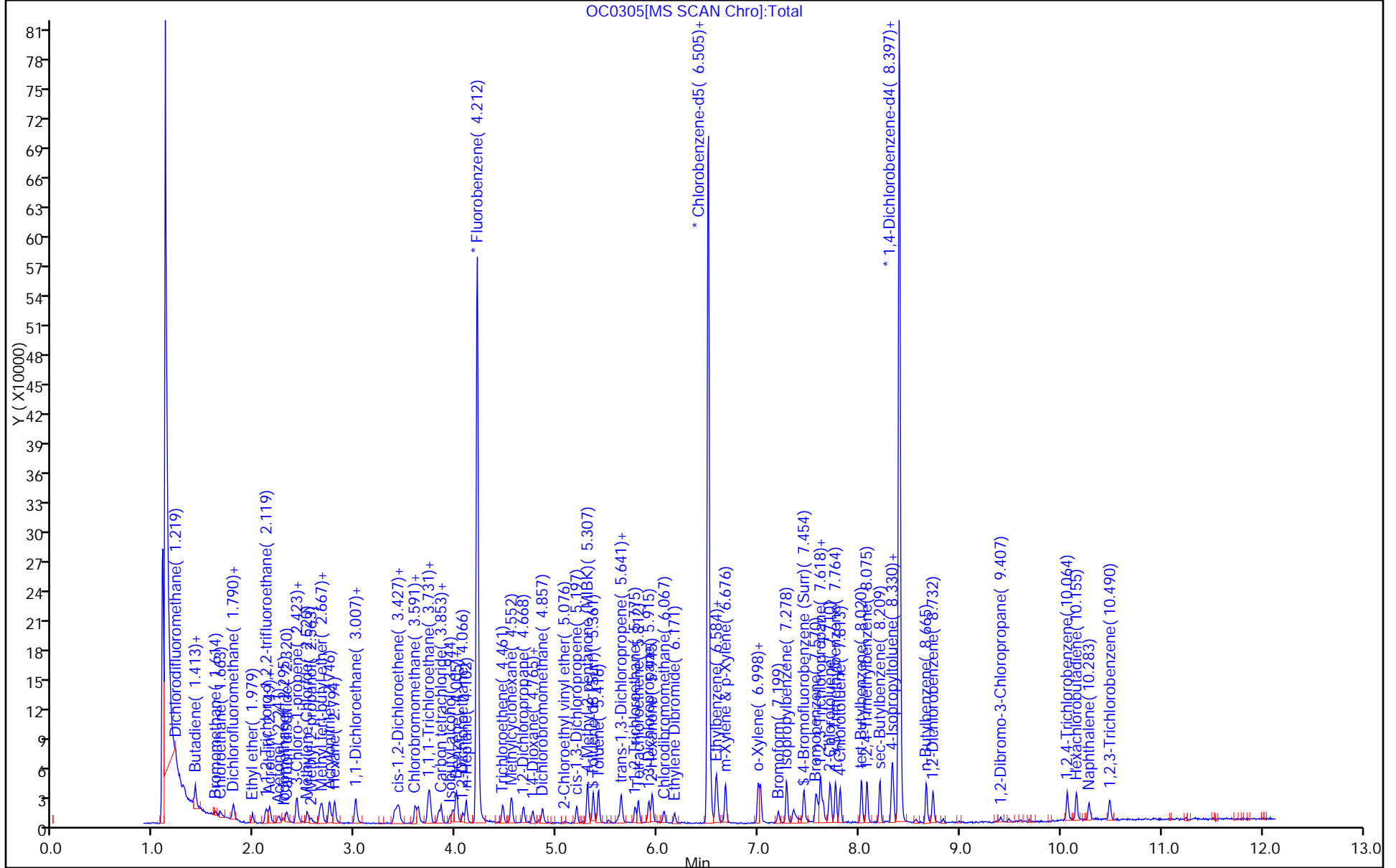
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0306.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 03-Mar-2015 17:55:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0017547-006
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSO2
 Sublist: chrom-2014_MSO2*sub9
 Method: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\2014_MSO2.m
 Limit Group: 8260B
 Last Update: 09-Mar-2015 18:34:40 Calib Date: 03-Mar-2015 19:46:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: beardenr

Date: 04-Mar-2015 07:59:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.216	1.215	0.001	99	14163	5.00	5.40	
2 Vinyl chloride	62	1.398	1.398	0.000	97	14861	5.00	4.68	
3 Chloromethane	50	1.416	1.416	0.000	65	21046	5.00	4.69	
4 Butadiene	54	1.416	1.416	0.000	98	14979	5.00	4.89	
5 Bromomethane	94	1.605	1.605	0.000	96	5227	5.00	4.00	
6 Chloroethane	64	1.666	1.660	0.006	100	9824	5.00	5.12	
7 Dichlorofluoromethane	67	1.788	1.781	0.007	99	20160	5.00	4.11	
8 Trichlorofluoromethane	101	1.800	1.793	0.007	98	18268	5.00	4.90	
10 Ethyl ether	59	1.976	1.976	0.000	92	10920	5.00	5.15	
11 1,1,2-Trichloro-1,2,2-trif	151	2.116	2.110	0.006	95	10409	5.00	4.56	
12 Acrolein	56	2.134	2.128	0.006	95	19606	100.0	91.3	
13 1,1-Dichloroethene	96	2.153	2.152	0.000	95	11256	5.00	4.89	
14 Acetone	58	2.238	2.238	0.000	86	7268	25.0	28.7	
16 Iodomethane	142	2.292	2.286	0.006	97	15157	5.00	3.97	
18 Carbon disulfide	76	2.323	2.317	0.006	100	40028	5.00	4.91	
19 3-Chloro-1-propene	76	2.414	2.414	0.000	92	8792	5.00	4.69	
20 Methyl acetate	43	2.426	2.420	0.006	99	49723	25.0	24.1	
22 Methylene Chloride	84	2.530	2.523	0.007	97	13346	5.00	4.86	
23 2-Methyl-2-propanol	59	2.566	2.560	0.006	99	9839	50.0	50.5	
24 Methyl tert-butyl ether	73	2.651	2.651	0.000	97	35897	5.00	5.15	
25 trans-1,2-Dichloroethene	96	2.676	2.669	0.007	97	11759	5.00	4.77	
26 Acrylonitrile	53	2.749	2.742	0.007	96	49124	50.0	48.6	
27 Hexane	57	2.797	2.797	0.000	94	20992	5.00	4.69	
29 1,1-Dichloroethane	63	2.998	2.998	0.000	97	22643	5.00	4.77	
30 Vinyl acetate	43	3.010	3.004	0.006	100	52317	10.0	9.77	
33 2,2-Dichloropropane	77	3.394	3.393	0.001	95	16290	5.00	4.50	
34 cis-1,2-Dichloroethene	61	3.412	3.412	0.000	95	19283	5.00	4.62	
36 2-Butanone (MEK)	72	3.436	3.430	0.006	98	7962	25.0	27.3	
38 Chlorobromomethane	130	3.594	3.594	0.000	88	8570	5.00	4.80	
39 Tetrahydrofuran	42	3.600	3.594	0.006	96	9276	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.625	3.625	0.000	97	19768	5.00	4.58	
42 Cyclohexane	84	3.728	3.728	0.000	96	18663	5.00	4.86	
43 1,1,1-Trichloroethane	97	3.740	3.734	0.006	98	16983	5.00	4.64	
\$ 44 Dibromofluoromethane (Surr	113	3.746	3.746	0.000	96	11260	5.00	4.52	
45 Carbon tetrachloride	117	3.832	3.825	0.007	94	16837	5.00	4.94	
46 1,1-Dichloropropene	75	3.850	3.850	0.000	93	14737	5.00	4.46	
47 Isobutyl alcohol	43	3.941	3.935	0.006	96	15692	125.0	131.2	
50 Benzene	78	4.002	4.002	0.000	97	48327	5.00	4.84	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.014	4.014	0.000	97	13938	5.00	4.92	
53 1,2-Dichloroethane	62	4.069	4.069	0.000	96	17083	5.00	5.05	
54 n-Heptane	43	4.099	4.099	0.000	96	22390	5.00	4.73	
* 55 Fluorobenzene	96	4.209	4.209	0.000	0	470649	50.0	50.0	
57 Trichloroethene	132	4.464	4.464	0.000	97	14120	5.00	5.09	
59 Methylcyclohexane	83	4.549	4.549	0.000	94	21990	5.00	4.70	
60 1,2-Dichloropropane	63	4.671	4.671	0.000	91	14912	5.00	5.13	
62 1,4-Dioxane	88	4.756	4.756	0.000	35	2290	100.0	92.4	
63 Dibromomethane	93	4.762	4.762	0.000	92	8728	5.00	5.04	
64 Dichlorobromomethane	83	4.860	4.859	0.001	98	18177	5.00	5.01	
65 2-Chloroethyl vinyl ether	63	5.085	5.078	0.007	0	1503	5.00	3.00	
67 cis-1,3-Dichloropropene	75	5.194	5.194	0.000	95	20535	5.00	4.62	
68 4-Methyl-2-pentanone (MIBK	43	5.304	5.304	0.000	98	69779	25.0	24.6	
\$ 69 Toluene-d8 (Surr)	98	5.365	5.364	0.001	98	43000	5.00	5.10	
70 Toluene	92	5.413	5.413	0.000	95	29907	5.00	4.74	
71 trans-1,3-Dichloropropene	75	5.638	5.632	0.006	98	18286	5.00	4.65	
72 Ethyl methacrylate	69	5.644	5.644	0.000	90	16623	5.00	4.97	
73 1,1,2-Trichloroethane	83	5.778	5.778	0.000	94	10377	5.00	4.68	
74 Tetrachloroethene	164	5.809	5.809	0.001	96	11126	5.00	4.34	
75 1,3-Dichloropropane	76	5.912	5.912	0.000	95	20664	5.00	4.66	
76 2-Hexanone	43	5.949	5.942	0.007	99	42189	25.0	21.3	
78 Chlorodibromomethane	129	6.064	6.064	0.000	98	14086	5.00	4.55	
79 Ethylene Dibromide	107	6.168	6.167	0.001	99	12175	5.00	4.46	
* 81 Chlorobenzene-d5	82	6.502	6.502	0.000	86	180666	50.0	50.0	
82 Chlorobenzene	112	6.527	6.526	0.001	96	32754	5.00	4.97	
83 Ethylbenzene	91	6.581	6.581	0.000	98	56073	5.00	4.95	
84 1,1,1,2-Tetrachloroethane	131	6.593	6.593	0.000	94	12124	5.00	4.83	
85 m-Xylene & p-Xylene	91	6.679	6.672	0.007	92	42390	5.00	4.90	
87 o-Xylene	91	7.001	6.995	0.006	93	44490	5.00	4.98	
88 Styrene	104	7.019	7.019	0.000	95	35381	5.00	4.92	
89 Bromoform	173	7.196	7.196	0.000	96	11767	5.00	5.15	
90 Isopropylbenzene	105	7.281	7.281	0.000	96	55094	5.00	4.96	
\$ 92 4-Bromofluorobenzene (Surr	95	7.451	7.451	0.000	90	17190	5.00	4.73	
93 Bromobenzene	156	7.573	7.573	0.000	95	16389	5.00	5.04	
94 1,1,2,2-Tetrachloroethane	83	7.591	7.591	0.000	96	15471	5.00	4.98	
95 N-Propylbenzene	91	7.615	7.615	0.000	99	69307	5.00	4.83	
96 1,2,3-Trichloropropane	75	7.640	7.640	0.000	94	17443	5.00	4.91	
97 trans-1,4-Dichloro-2-buten	53	7.646	7.646	0.000	68	3830	5.00	4.77	
98 2-Chlorotoluene	91	7.713	7.719	-0.006	97	38852	5.00	4.87	
99 1,3,5-Trimethylbenzene	105	7.768	7.767	0.001	94	46746	5.00	4.89	
100 4-Chlorotoluene	91	7.810	7.810	0.000	97	43321	5.00	5.07	
103 tert-Butylbenzene	119	8.023	8.023	0.000	93	40881	5.00	4.96	
104 1,2,4-Trimethylbenzene	105	8.078	8.078	0.000	98	47530	5.00	4.89	
106 sec-Butylbenzene	105	8.206	8.205	0.001	99	61583	5.00	4.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.327	8.327	0.000	98	53320	5.00	4.77	
108 1,3-Dichlorobenzene	146	8.339	8.339	0.000	98	30965	5.00	4.90	
* 109 1,4-Dichlorobenzene-d4	152	8.400	8.400	0.000	99	207066	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.418	8.418	0.000	95	32752	5.00	5.06	
113 n-Butylbenzene	91	8.668	8.668	0.000	97	49231	5.00	4.82	
114 1,2-Dichlorobenzene	146	8.729	8.735	-0.006	97	30067	5.00	5.00	
115 1,2-Dibromo-3-Chloropropan	157	9.404	9.410	-0.006	92	3074	5.00	4.67	
117 1,2,4-Trichlorobenzene	180	10.067	10.067	0.000	93	18081	5.00	4.70	
118 Hexachlorobutadiene	225	10.158	10.158	0.000	96	10761	5.00	4.59	
119 Naphthalene	128	10.280	10.280	0.000	99	27513	5.00	4.69	
120 1,2,3-Trichlorobenzene	180	10.493	10.487	0.006	95	14290	5.00	4.79	
S 122 1,2-Dichloroethene, Total	1				0		10.0	9.39	
S 123 Xylenes, Total	1				0		10.0	9.88	
S 124 1,3-Dichloropropene, Total	1				0		10.0	9.27	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_Acrolein_00029	Amount Added: 0.50	Units: uL
VM_MMIX_01712	Amount Added: 0.50	Units: uL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0306.D

Injection Date: 03-Mar-2015 17:55:30

Instrument ID: CMSO2

Operator ID: DK

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL/100g

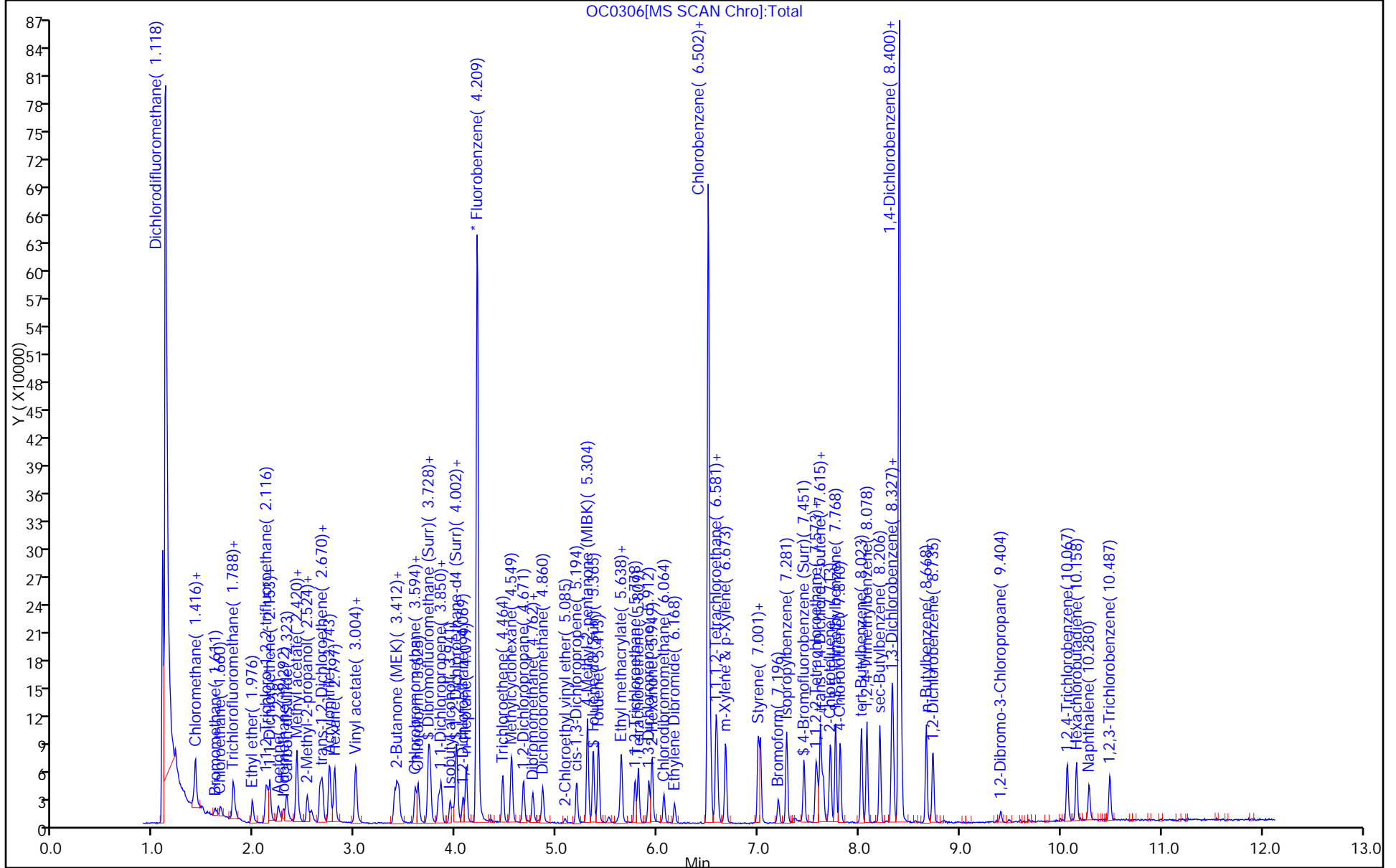
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0307.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 03-Mar-2015 18:17:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0017547-007
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSO2
 Sublist: chrom-2014_MSO2*sub9
 Method: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\2014_MSO2.m
 Limit Group: 8260B
 Last Update: 09-Mar-2015 18:34:42 Calib Date: 03-Mar-2015 19:46:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: beardnr

Date: 04-Mar-2015 07:58:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.218	1.215	0.003	100	24810	10.0	10.0	
2 Vinyl chloride	62	1.400	1.398	0.002	98	35937	10.0	12.0	
3 Chloromethane	50	1.413	1.416	-0.003	63	43218	10.0	10.2	
4 Butadiene	54	1.413	1.416	-0.003	95	30753	10.0	10.6	
5 Bromomethane	94	1.607	1.605	0.002	95	10442	10.0	8.47	
6 Chloroethane	64	1.662	1.660	0.002	99	17011	10.0	9.40	
7 Dichlorofluoromethane	67	1.784	1.781	0.003	99	45750	10.0	9.89	
8 Trichlorofluoromethane	101	1.796	1.793	0.003	97	33721	10.0	9.59	
10 Ethyl ether	59	1.978	1.976	0.002	90	21599	10.0	10.8	
11 1,1,2-Trichloro-1,2,2-trif	151	2.112	2.110	0.002	98	23119	10.0	10.7	
12 Acrolein	56	2.130	2.128	0.002	96	39316	200.0	193.9	
13 1,1-Dichloroethene	96	2.155	2.152	0.003	97	23219	10.0	10.7	
14 Acetone	58	2.240	2.238	0.002	86	11117	50.0	46.5	
16 Iodomethane	142	2.289	2.286	0.003	98	34551	10.0	9.58	
18 Carbon disulfide	76	2.319	2.317	0.002	99	81606	10.0	10.6	
19 3-Chloro-1-propene	76	2.416	2.414	0.002	92	17708	10.0	10.0	
20 Methyl acetate	43	2.422	2.420	0.002	99	101271	50.0	52.0	
22 Methylene Chloride	84	2.526	2.523	0.003	96	25564	10.0	9.86	
23 2-Methyl-2-propanol	59	2.562	2.560	0.002	98	18462	100.0	100.5	
24 Methyl tert-butyl ether	73	2.654	2.651	0.003	98	65344	10.0	9.94	
25 trans-1,2-Dichloroethene	96	2.672	2.669	0.003	97	22919	10.0	9.85	
26 Acrylonitrile	53	2.745	2.742	0.003	96	97682	100.0	102.4	
27 Hexane	57	2.794	2.797	-0.003	94	41968	10.0	9.93	
29 1,1-Dichloroethane	63	3.000	2.998	0.002	99	45797	10.0	10.2	
30 Vinyl acetate	43	3.006	3.004	0.002	100	101894	20.0	20.2	
33 2,2-Dichloropropane	77	3.390	3.393	-0.003	97	35508	10.0	10.4	
34 cis-1,2-Dichloroethene	61	3.414	3.412	0.002	95	39262	10.0	9.97	
36 2-Butanone (MEK)	72	3.432	3.430	0.002	98	14458	50.0	52.5	
38 Chlorobromomethane	130	3.591	3.594	-0.004	95	16496	10.0	9.79	
39 Tetrahydrofuran	42	3.597	3.594	0.003	87	17824	20.0	21.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.627	3.625	0.002	97	42979	10.0	10.6	
42 Cyclohexane	84	3.724	3.728	-0.004	96	37646	10.0	10.4	
43 1,1,1-Trichloroethane	97	3.737	3.734	0.002	98	35379	10.0	10.2	
\$ 44 Dibromofluoromethane (Surr	113	3.749	3.746	0.003	96	24005	10.0	10.2	
45 Carbon tetrachloride	117	3.828	3.825	0.003	96	33244	10.0	10.3	
46 1,1-Dichloropropene	75	3.852	3.850	0.002	95	33171	10.0	10.6	
47 Isobutyl alcohol	43	3.937	3.935	0.002	94	28846	250.0	255.5	
50 Benzene	78	4.004	4.002	0.002	98	96995	10.0	10.3	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.010	4.014	-0.004	58	27149	10.0	10.2	
53 1,2-Dichloroethane	62	4.071	4.069	0.002	97	32429	10.0	10.1	
54 n-Heptane	43	4.102	4.099	0.003	97	45745	10.0	10.2	
* 55 Fluorobenzene	96	4.211	4.209	0.002	0	444276	50.0	50.0	
57 Trichloroethene	132	4.467	4.464	0.003	96	25989	10.0	9.92	
59 Methylcyclohexane	83	4.552	4.549	0.003	95	45473	10.0	10.3	
60 1,2-Dichloropropane	63	4.667	4.671	-0.004	92	28791	10.0	10.5	
62 1,4-Dioxane	88	4.752	4.756	-0.004	37	4041	200.0	172.7	
63 Dibromomethane	93	4.765	4.762	0.003	92	15727	10.0	9.62	
64 Dichlorobromomethane	83	4.862	4.859	0.003	98	33172	10.0	9.68	
65 2-Chloroethyl vinyl ether	63	5.081	5.078	0.003	0	2832	10.0	5.96	
67 cis-1,3-Dichloropropene	75	5.197	5.194	0.003	96	41460	10.0	9.89	
68 4-Methyl-2-pentanone (MIBK	43	5.306	5.304	0.002	97	130409	50.0	48.8	
\$ 69 Toluene-d8 (Surr)	98	5.361	5.364	-0.003	98	87422	10.0	10.3	
70 Toluene	92	5.416	5.413	0.003	93	58118	10.0	9.76	
71 trans-1,3-Dichloropropene	75	5.635	5.632	0.003	98	35479	10.0	9.56	
72 Ethyl methacrylate	69	5.647	5.644	0.003	95	30072	10.0	9.52	
73 1,1,2-Trichloroethane	83	5.774	5.778	-0.004	96	21155	10.0	10.1	
74 Tetrachloroethene	164	5.811	5.809	0.003	97	23117	10.0	9.56	
75 1,3-Dichloropropane	76	5.914	5.912	0.002	98	40049	10.0	9.57	
76 2-Hexanone	43	5.945	5.942	0.003	99	87602	50.0	46.9	
78 Chlorodibromomethane	129	6.066	6.064	0.002	98	28651	10.0	9.80	
79 Ethylene Dibromide	107	6.170	6.167	0.003	99	24978	10.0	9.69	
* 81 Chlorobenzene-d5	82	6.504	6.502	0.002	86	182565	50.0	50.0	
82 Chlorobenzene	112	6.529	6.526	0.003	95	66256	10.0	9.95	
83 Ethylbenzene	91	6.577	6.581	-0.004	99	114222	10.0	9.98	
84 1,1,1,2-Tetrachloroethane	131	6.596	6.593	0.003	94	26093	10.0	10.3	
85 m-Xylene & p-Xylene	91	6.675	6.672	0.003	91	90893	10.0	10.4	
87 o-Xylene	91	6.997	6.995	0.002	93	97358	10.0	10.8	
88 Styrene	104	7.022	7.019	0.003	94	77846	10.0	10.7	
89 Bromoform	173	7.198	7.196	0.002	98	25100	10.0	10.9	
90 Isopropylbenzene	105	7.283	7.281	0.002	96	123870	10.0	11.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.454	7.451	0.003	91	36159	10.0	9.57	
93 Bromobenzene	156	7.575	7.573	0.002	94	33985	10.0	10.4	
94 1,1,2,2-Tetrachloroethane	83	7.593	7.591	0.002	98	34212	10.0	10.9	
95 N-Propylbenzene	91	7.618	7.615	0.003	99	163997	10.0	11.3	
96 1,2,3-Trichloropropane	75	7.642	7.640	0.002	93	39149	10.0	10.9	
97 trans-1,4-Dichloro-2-buten	53	7.648	7.646	0.002	80	8777	10.0	10.8	
98 2-Chlorotoluene	91	7.715	7.719	-0.004	97	88650	10.0	11.0	
99 1,3,5-Trimethylbenzene	105	7.770	7.767	0.003	93	105758	10.0	10.9	
100 4-Chlorotoluene	91	7.812	7.810	0.002	98	94231	10.0	10.9	
103 tert-Butylbenzene	119	8.025	8.023	0.002	95	89850	10.0	10.8	
104 1,2,4-Trimethylbenzene	105	8.080	8.078	0.002	97	104432	10.0	10.6	
106 sec-Butylbenzene	105	8.208	8.205	0.003	99	132135	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.323	8.327	-0.004	98	114889	10.0	9.90	
108 1,3-Dichlorobenzene	146	8.342	8.339	0.003	97	65036	10.0	9.91	
* 109 1,4-Dichlorobenzene-d4	152	8.403	8.400	0.003	98	215163	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.421	8.418	0.003	96	65604	10.0	9.75	
113 n-Butylbenzene	91	8.664	8.668	-0.004	98	105975	10.0	9.98	
114 1,2-Dichlorobenzene	146	8.731	8.735	-0.004	98	61033	10.0	9.77	
115 1,2-Dibromo-3-Chloropropan	157	9.406	9.410	-0.004	92	6686	10.0	9.78	
117 1,2,4-Trichlorobenzene	180	10.069	10.067	0.002	94	36707	10.0	9.19	
118 Hexachlorobutadiene	225	10.161	10.158	0.003	96	23229	10.0	9.54	
119 Naphthalene	128	10.282	10.280	0.002	99	45905	10.0	7.53	
120 1,2,3-Trichlorobenzene	180	10.489	10.487	0.002	96	28391	10.0	9.16	
S 122 1,2-Dichloroethene, Total	1				0		20.0	19.8	
S 123 Xylenes, Total	1				0		20.0	21.2	
S 124 1,3-Dichloropropene, Total	1				0		20.0	19.4	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_Acrolein_00029	Amount Added: 1.00	Units: uL
VM_MMIX_01712	Amount Added: 1.00	Units: uL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0307.D

Injection Date: 03-Mar-2015 18:17:30

Instrument ID: CMSO2

Operator ID: DK

Lims ID: IC

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL/100g

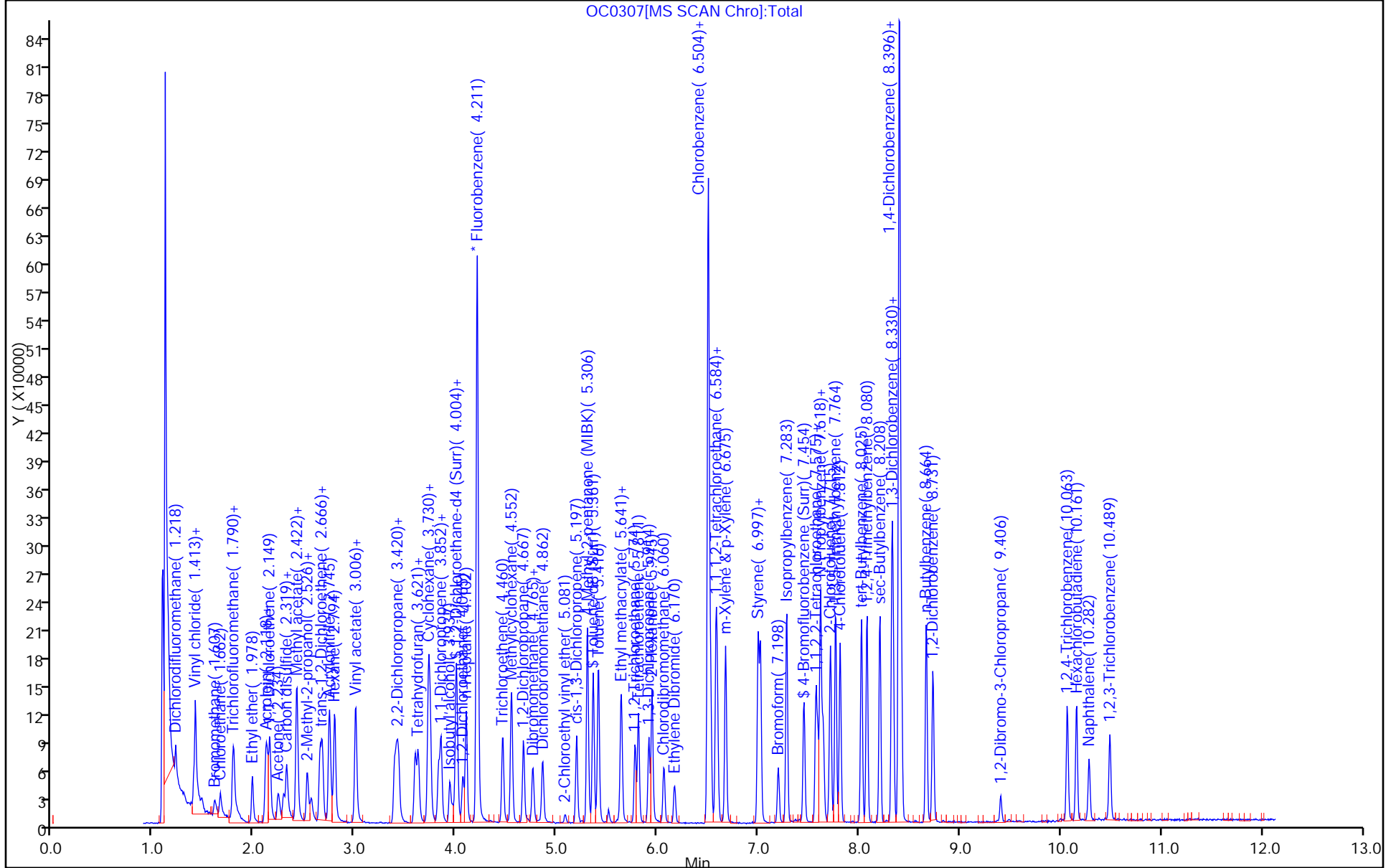
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0308.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 03-Mar-2015 18:39:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0017547-008
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSO2
 Sublist: chrom-2014_MSO2*sub9
 Method: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\2014_MSO2.m
 Limit Group: 8260B
 Last Update: 09-Mar-2015 18:34:43 Calib Date: 03-Mar-2015 19:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tippinsm

Date: 09-Mar-2015 18:33:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.216	1.216	0.000	98	49059	20.0	19.6	
2 Vinyl chloride	62	1.398	1.398	0.000	98	53302	20.0	17.6	
3 Chloromethane	50	1.417	1.417	0.000	69	87151	20.0	20.4	
4 Butadiene	54	1.417	1.417	0.000	94	61060	20.0	20.9	
5 Bromomethane	94	1.605	1.605	0.000	90	23788	20.0	19.1	
6 Chloroethane	64	1.660	1.660	0.000	99	39288	20.0	21.5	
7 Dichlorofluoromethane	67	1.782	1.782	0.000	97	103045	20.0	22.1	
8 Trichlorofluoromethane	101	1.794	1.794	0.000	86	70964	20.0	20.0	
10 Ethyl ether	59	1.976	1.976	0.000	93	44226	20.0	21.9	
11 1,1,2-Trichloro-1,2,2-trif	151	2.116	2.116	0.000	93	48291	20.0	22.2	
12 Acrolein	56	2.128	2.128	0.000	96	86471	400.0	422.3	
13 1,1-Dichloroethene	96	2.153	2.153	0.000	97	47086	20.0	21.4	
14 Acetone	58	2.238	2.238	0.000	84	25443	100.0	105.4	
16 Iodomethane	142	2.287	2.287	0.000	96	77536	20.0	21.3	
18 Carbon disulfide	76	2.317	2.317	0.000	99	169058	20.0	21.8	
19 3-Chloro-1-propene	76	2.414	2.414	0.000	81	37131	20.0	20.8	
20 Methyl acetate	43	2.420	2.420	0.000	98	207723	100.0	105.7	
22 Methylene Chloride	84	2.524	2.524	0.000	92	54554	20.0	20.8	
23 2-Methyl-2-propanol	59	2.566	2.566	0.000	97	39486	200.0	212.8	
24 Methyl tert-butyl ether	73	2.652	2.652	0.000	97	132989	20.0	20.0	
25 trans-1,2-Dichloroethene	96	2.676	2.676	0.000	96	46112	20.0	19.6	
26 Acrylonitrile	53	2.743	2.743	0.000	96	195279	200.0	202.6	
27 Hexane	57	2.798	2.798	0.000	94	84198	20.0	19.7	
29 1,1-Dichloroethane	63	2.998	2.998	0.000	75	89955	20.0	19.9	
30 Vinyl acetate	43	3.004	3.004	0.000	100	199332	40.0	39.0	
33 2,2-Dichloropropane	77	3.394	3.394	0.000	92	69248	20.0	20.1	
34 cis-1,2-Dichloroethene	61	3.412	3.412	0.000	94	81730	20.0	20.5	
36 2-Butanone (MEK)	72	3.430	3.430	0.000	88	25693	100.0	92.5	
38 Chlorobromomethane	130	3.595	3.595	0.000	93	34064	20.0	20.0	
39 Tetrahydrofuran	42	3.601	3.601	0.000	96	31427	40.0	36.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.625	3.625	0.000	90	81517	20.0	19.8	
42 Cyclohexane	84	3.728	3.728	0.000	95	75332	20.0	20.6	
43 1,1,1-Trichloroethane	97	3.734	3.734	0.000	97	72352	20.0	20.7	
\$ 44 Dibromofluoromethane (Surr	113	3.747	3.747	0.000	96	48636	20.0	20.5	
45 Carbon tetrachloride	117	3.826	3.826	0.000	87	67938	20.0	20.9	
46 1,1-Dichloropropene	75	3.850	3.850	0.000	95	64825	20.0	20.6	
47 Isobutyl alcohol	43	3.941	3.941	0.000	94	54393	500.0	477.1	
50 Benzene	78	4.002	4.002	0.000	97	192140	20.0	20.2	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.014	4.014	0.000	81	53758	20.0	19.9	
53 1,2-Dichloroethane	62	4.069	4.069	0.000	82	63621	20.0	19.7	
54 n-Heptane	43	4.099	4.099	0.000	95	89069	20.0	19.7	
* 55 Fluorobenzene	96	4.209	4.209	0.000	0	448665	50.0	50.0	
57 Trichloroethene	132	4.465	4.465	0.000	95	50850	20.0	19.2	
59 Methylcyclohexane	83	4.550	4.550	0.000	92	88415	20.0	19.8	
60 1,2-Dichloropropane	63	4.671	4.671	0.000	91	56442	20.0	20.4	
62 1,4-Dioxane	88	4.750	4.750	0.000	47	9458	400.0	400.4	
63 Dibromomethane	93	4.763	4.763	0.000	90	31952	20.0	19.4	
64 Dichlorobromomethane	83	4.860	4.860	0.000	99	67241	20.0	19.4	
65 2-Chloroethyl vinyl ether	63	5.079	5.079	0.000	0	6659	20.0	13.7	
67 cis-1,3-Dichloropropene	75	5.195	5.195	0.000	90	81254	20.0	19.2	
68 4-Methyl-2-pentanone (MIBK	43	5.304	5.304	0.000	98	258451	100.0	95.7	
\$ 69 Toluene-d8 (Surr)	98	5.359	5.359	0.000	95	172196	20.0	18.6	
70 Toluene	92	5.414	5.414	0.000	89	118975	20.0	19.8	
71 trans-1,3-Dichloropropene	75	5.633	5.633	0.000	93	71171	20.0	19.0	
72 Ethyl methacrylate	69	5.645	5.645	0.000	87	62012	20.0	19.4	
73 1,1,2-Trichloroethane	83	5.779	5.779	0.000	96	42137	20.0	19.9	
74 Tetrachloroethene	164	5.809	5.809	0.000	89	49061	20.0	20.1	
75 1,3-Dichloropropane	76	5.912	5.912	0.000	98	81514	20.0	19.3	
76 2-Hexanone	43	5.943	5.943	0.000	99	179544	100.0	95.1	
78 Chlorodibromomethane	129	6.064	6.064	0.000	97	57585	20.0	19.5	
79 Ethylene Dibromide	107	6.168	6.168	0.000	99	50126	20.0	19.3	
* 81 Chlorobenzene-d5	82	6.502	6.502	0.000	86	198101	50.0	50.0	
82 Chlorobenzene	112	6.527	6.527	0.000	94	143880	20.0	19.9	
83 Ethylbenzene	91	6.582	6.582	0.000	69	247838	20.0	20.0	
84 1,1,1,2-Tetrachloroethane	131	6.594	6.594	0.000	73	55834	20.0	20.3	
85 m-Xylene & p-Xylene	91	6.673	6.673	0.000	83	200522	20.0	21.1	
87 o-Xylene	91	6.995	6.995	0.000	91	185347	20.0	18.9	
88 Styrene	104	7.020	7.020	0.000	92	150663	20.0	19.1	
89 Bromoform	173	7.196	7.196	0.000	98	46455	20.0	18.5	
90 Isopropylbenzene	105	7.281	7.281	0.000	96	229680	20.0	18.9	
\$ 92 4-Bromofluorobenzene (Surr	95	7.451	7.451	0.000	89	69512	20.0	18.8	
93 Bromobenzene	156	7.573	7.573	0.000	93	65865	20.0	18.5	
94 1,1,2,2-Tetrachloroethane	83	7.591	7.591	0.000	94	64804	20.0	19.0	
95 N-Propylbenzene	91	7.616	7.616	0.000	84	300300	20.0	19.1	
96 1,2,3-Trichloropropane	75	7.640	7.640	0.000	80	69914	20.0	17.9	
97 trans-1,4-Dichloro-2-buten	53	7.646	7.646	0.000	51	17721	20.0	20.1	
98 2-Chlorotoluene	91	7.713	7.713	0.000	97	169632	20.0	19.4	
99 1,3,5-Trimethylbenzene	105	7.768	7.768	0.000	72	199279	20.0	19.0	
100 4-Chlorotoluene	91	7.810	7.810	0.000	97	179659	20.0	19.2	
103 tert-Butylbenzene	119	8.023	8.023	0.000	94	176143	20.0	19.5	
104 1,2,4-Trimethylbenzene	105	8.078	8.078	0.000	71	207064	20.0	19.4	
106 sec-Butylbenzene	105	8.206	8.206	0.000	99	261206	20.0	19.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.328	8.328	0.000	94	227144	20.0	20.0	
108 1,3-Dichlorobenzene	146	8.340	8.340	0.000	97	128722	20.0	20.1	
* 109 1,4-Dichlorobenzene-d4	152	8.401	8.401	0.000	99	210245	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.419	8.419	0.000	94	131126	20.0	19.9	
113 n-Butylbenzene	91	8.668	8.668	0.000	97	212777	20.0	20.5	
114 1,2-Dichlorobenzene	146	8.735	8.735	0.000	97	122971	20.0	20.1	
115 1,2-Dibromo-3-Chloropropan	157	9.404	9.404	0.000	93	14889	20.0	22.3	
117 1,2,4-Trichlorobenzene	180	10.067	10.067	0.000	94	81998	20.0	21.0	
118 Hexachlorobutadiene	225	10.159	10.159	0.000	97	51415	20.0	21.6	
119 Naphthalene	128	10.280	10.280	0.000	99	118145	20.0	19.8	
120 1,2,3-Trichlorobenzene	180	10.487	10.487	0.000	95	65116	20.0	21.5	
S 122 1,2-Dichloroethene, Total	1				0		40.0	40.2	
S 123 Xylenes, Total	1				0		40.0	40.1	
S 124 1,3-Dichloropropene, Total	1				0		40.0	38.2	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_Acrolein_00029	Amount Added: 2.00	Units: uL
VM_MMIX_01712	Amount Added: 2.00	Units: uL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0308.D

Injection Date: 03-Mar-2015 18:39:30

Instrument ID: CMSO2

Operator ID: DK

Lims ID: IC

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL/100g

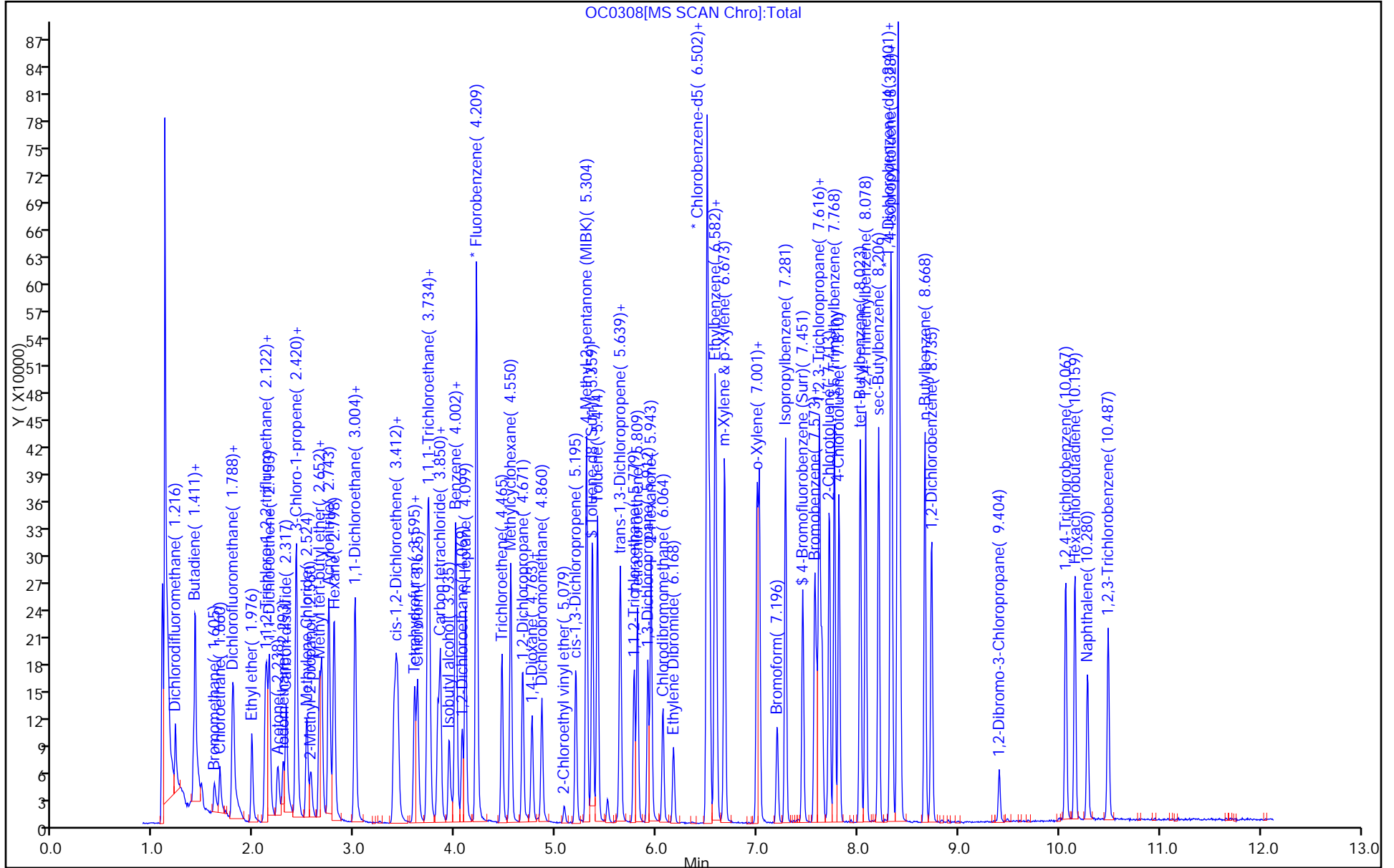
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0309.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 03-Mar-2015 19:02:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0017547-009
 Misc. Info.: ICIS
 Operator ID: DK Instrument ID: CMSO2
 Sublist: chrom-2014_MSO2*sub9
 Method: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\2014_MSO2.m
 Limit Group: 8260B
 Last Update: 09-Mar-2015 18:34:30 Calib Date: 03-Mar-2015 19:46:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: beardenr

Date: 04-Mar-2015 07:35:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.215	1.215	0.000	100	128138	50.0	49.9	
2 Vinyl chloride	62	1.398	1.398	0.000	99	143506	50.0	46.1	
3 Chloromethane	50	1.416	1.416	0.000	79	232573	50.0	52.9	
4 Butadiene	54	1.416	1.416	0.000	95	163597	50.0	54.5	
5 Bromomethane	94	1.605	1.605	0.000	99	80697	50.0	63.1	
6 Chloroethane	64	1.660	1.660	0.000	100	86462	50.0	46.0	
7 Dichlorofluoromethane	67	1.781	1.781	0.000	100	250421	50.0	52.2	
8 Trichlorofluoromethane	101	1.793	1.793	0.000	98	178423	50.0	48.9	
10 Ethyl ether	59	1.976	1.976	0.000	91	106661	50.0	51.4	
11 1,1,2-Trichloro-1,2,2-trif	151	2.110	2.110	0.000	96	107796	50.0	48.3	
12 Acrolein	56	2.128	2.128	0.000	96	218238	1000.0	1037.8	
13 1,1-Dichloroethene	96	2.152	2.152	0.000	96	112397	50.0	49.8	
14 Acetone	58	2.238	2.238	0.000	86	60808	250.0	245.3	
16 Iodomethane	142	2.286	2.286	0.000	98	193123	50.0	51.6	
18 Carbon disulfide	76	2.317	2.317	0.000	99	386820	50.0	48.5	
19 3-Chloro-1-propene	76	2.414	2.414	0.000	91	85707	50.0	46.7	
20 Methyl acetate	43	2.420	2.420	0.000	99	487882	250.0	241.6	
22 Methylene Chloride	84	2.523	2.523	0.000	98	128258	50.0	47.7	
23 2-Methyl-2-propanol	59	2.560	2.560	0.000	99	94804	500.0	497.5	
24 Methyl tert-butyl ether	73	2.651	2.651	0.000	98	340822	50.0	50.0	
25 trans-1,2-Dichloroethene	96	2.669	2.669	0.000	97	119296	50.0	49.4	
26 Acrylonitrile	53	2.742	2.742	0.000	94	511933	500.0	517.2	
27 Hexane	57	2.797	2.797	0.000	95	208886	50.0	47.7	
29 1,1-Dichloroethane	63	2.998	2.998	0.000	100	234907	50.0	50.5	
30 Vinyl acetate	43	3.004	3.004	0.000	100	531962	100.0	101.5	
33 2,2-Dichloropropane	77	3.393	3.393	0.000	97	176457	50.0	49.8	
34 cis-1,2-Dichloroethene	61	3.412	3.412	0.000	96	207774	50.0	50.9	
36 2-Butanone (MEK)	72	3.430	3.430	0.000	98	69446	250.0	243.3	
38 Chlorobromomethane	130	3.594	3.594	0.000	98	87860	50.0	50.3	
39 Tetrahydrofuran	42	3.594	3.594	0.000	95	84798	100.0	96.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.625	3.625	0.000	98	213906	50.0	50.7	
42 Cyclohexane	84	3.728	3.728	0.000	96	190368	50.0	50.6	
43 1,1,1-Trichloroethane	97	3.734	3.734	0.000	98	185584	50.0	51.8	
\$ 44 Dibromofluoromethane (Surr	113	3.746	3.746	0.000	98	123005	50.0	50.4	
45 Carbon tetrachloride	117	3.825	3.825	0.000	97	171803	50.0	51.5	
46 1,1-Dichloropropene	75	3.850	3.850	0.000	95	167794	50.0	51.9	
47 Isobutyl alcohol	43	3.935	3.935	0.000	95	139521	1250.0	1191.5	
50 Benzene	78	4.002	4.002	0.000	98	497555	50.0	50.9	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.014	4.014	0.000	97	137001	50.0	49.4	
53 1,2-Dichloroethane	62	4.069	4.069	0.000	96	166165	50.0	50.1	
54 n-Heptane	43	4.099	4.099	0.000	97	241509	50.0	52.1	
* 55 Fluorobenzene	96	4.209	4.209	0.000	0	460817	50.0	50.0	
57 Trichloroethene	132	4.464	4.464	0.000	97	136101	50.0	50.1	
59 Methylcyclohexane	83	4.549	4.549	0.000	95	234802	50.0	51.2	
60 1,2-Dichloropropane	63	4.671	4.671	0.000	90	142357	50.0	50.0	
62 1,4-Dioxane	88	4.756	4.756	0.000	35	23360	1000.0	962.8	
63 Dibromomethane	93	4.762	4.762	0.000	91	82384	50.0	48.6	
64 Dichlorobromomethane	83	4.859	4.859	0.000	99	172971	50.0	48.6	
65 2-Chloroethyl vinyl ether	63	5.078	5.078	0.000	0	22572	50.0	43.0	
67 cis-1,3-Dichloropropene	75	5.194	5.194	0.000	95	214083	50.0	49.2	
68 4-Methyl-2-pentanone (MIBK	43	5.304	5.304	0.000	98	710944	250.0	256.3	
\$ 69 Toluene-d8 (Surr)	98	5.364	5.364	0.000	98	451592	50.0	49.6	
70 Toluene	92	5.413	5.413	0.000	93	309904	50.0	50.2	
71 trans-1,3-Dichloropropene	75	5.632	5.632	0.000	94	187198	50.0	48.6	
72 Ethyl methacrylate	69	5.644	5.644	0.000	91	164535	50.0	50.2	
73 1,1,2-Trichloroethane	83	5.778	5.778	0.000	96	108659	50.0	50.0	
74 Tetrachloroethene	164	5.809	5.809	0.000	96	126540	50.0	50.5	
75 1,3-Dichloropropane	76	5.912	5.912	0.000	97	212179	50.0	48.9	
76 2-Hexanone	43	5.942	5.942	0.000	100	458934	250.0	236.7	
78 Chlorodibromomethane	129	6.064	6.064	0.000	98	153912	50.0	50.8	
79 Ethylene Dibromide	107	6.167	6.167	0.000	99	132381	50.0	49.5	
* 81 Chlorobenzene-d5	82	6.502	6.502	0.000	86	195208	50.0	50.0	
82 Chlorobenzene	112	6.526	6.526	0.000	94	355222	50.0	49.9	
83 Ethylbenzene	91	6.581	6.581	0.000	99	612523	50.0	50.0	
84 1,1,1,2-Tetrachloroethane	131	6.593	6.593	0.000	95	134663	50.0	49.6	
85 m-Xylene & p-Xylene	91	6.672	6.672	0.000	91	457748	50.0	49.0	
87 o-Xylene	91	6.995	6.995	0.000	93	497792	50.0	51.6	
88 Styrene	104	7.019	7.019	0.000	95	396938	50.0	51.1	
89 Bromoform	173	7.196	7.196	0.000	99	128075	50.0	51.9	
90 Isopropylbenzene	105	7.281	7.281	0.000	96	601982	50.0	50.2	
\$ 92 4-Bromofluorobenzene (Surr	95	7.451	7.451	0.000	91	181223	50.0	49.1	
93 Bromobenzene	156	7.573	7.573	0.000	94	175992	50.0	50.1	
94 1,1,2,2-Tetrachloroethane	83	7.591	7.591	0.000	98	166471	50.0	49.6	
95 N-Propylbenzene	91	7.615	7.615	0.000	99	749926	50.0	48.4	
96 1,2,3-Trichloropropane	75	7.640	7.640	0.000	98	190291	50.0	49.6	
97 trans-1,4-Dichloro-2-buten	53	7.646	7.646	0.000	82	45437	50.0	52.4	
98 2-Chlorotoluene	91	7.719	7.719	0.000	97	425701	50.0	49.4	
99 1,3,5-Trimethylbenzene	105	7.767	7.767	0.000	94	510544	50.0	49.4	
100 4-Chlorotoluene	91	7.810	7.810	0.000	97	449349	50.0	48.7	
103 tert-Butylbenzene	119	8.023	8.023	0.000	95	442294	50.0	49.7	
104 1,2,4-Trimethylbenzene	105	8.078	8.078	0.000	98	526635	50.0	50.1	
106 sec-Butylbenzene	105	8.205	8.205	0.000	99	665856	50.0	49.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.327	8.327	0.000	97	576981	50.0	50.9	
108 1,3-Dichlorobenzene	146	8.339	8.339	0.000	97	325199	50.0	50.7	
* 109 1,4-Dichlorobenzene-d4	152	8.400	8.400	0.000	99	210156	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.418	8.418	0.000	96	328595	50.0	50.0	
113 n-Butylbenzene	91	8.668	8.668	0.000	98	546721	50.0	52.7	
114 1,2-Dichlorobenzene	146	8.735	8.735	0.000	97	311508	50.0	51.1	
115 1,2-Dibromo-3-Chloropropan	157	9.410	9.410	0.000	95	34927	50.0	52.3	
117 1,2,4-Trichlorobenzene	180	10.067	10.067	0.000	94	198835	50.0	50.9	
118 Hexachlorobutadiene	225	10.158	10.158	0.000	98	121239	50.0	51.0	
119 Naphthalene	128	10.280	10.280	0.000	99	312812	50.0	52.5	
120 1,2,3-Trichlorobenzene	180	10.487	10.487	0.000	96	155620	50.0	51.4	
S 122 1,2-Dichloroethene, Total	1				0		100.0	100.3	
S 123 Xylenes, Total	1				0		100.0	100.6	
S 124 1,3-Dichloropropene, Total	1				0		100.0	97.8	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_Acrolein_00029	Amount Added: 5.00	Units: uL
VM_MMIX_01712	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0309.D

Injection Date: 03-Mar-2015 19:02:30

Instrument ID: CMSO2

Operator ID: DK

Lims ID: ICIS

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL/100g

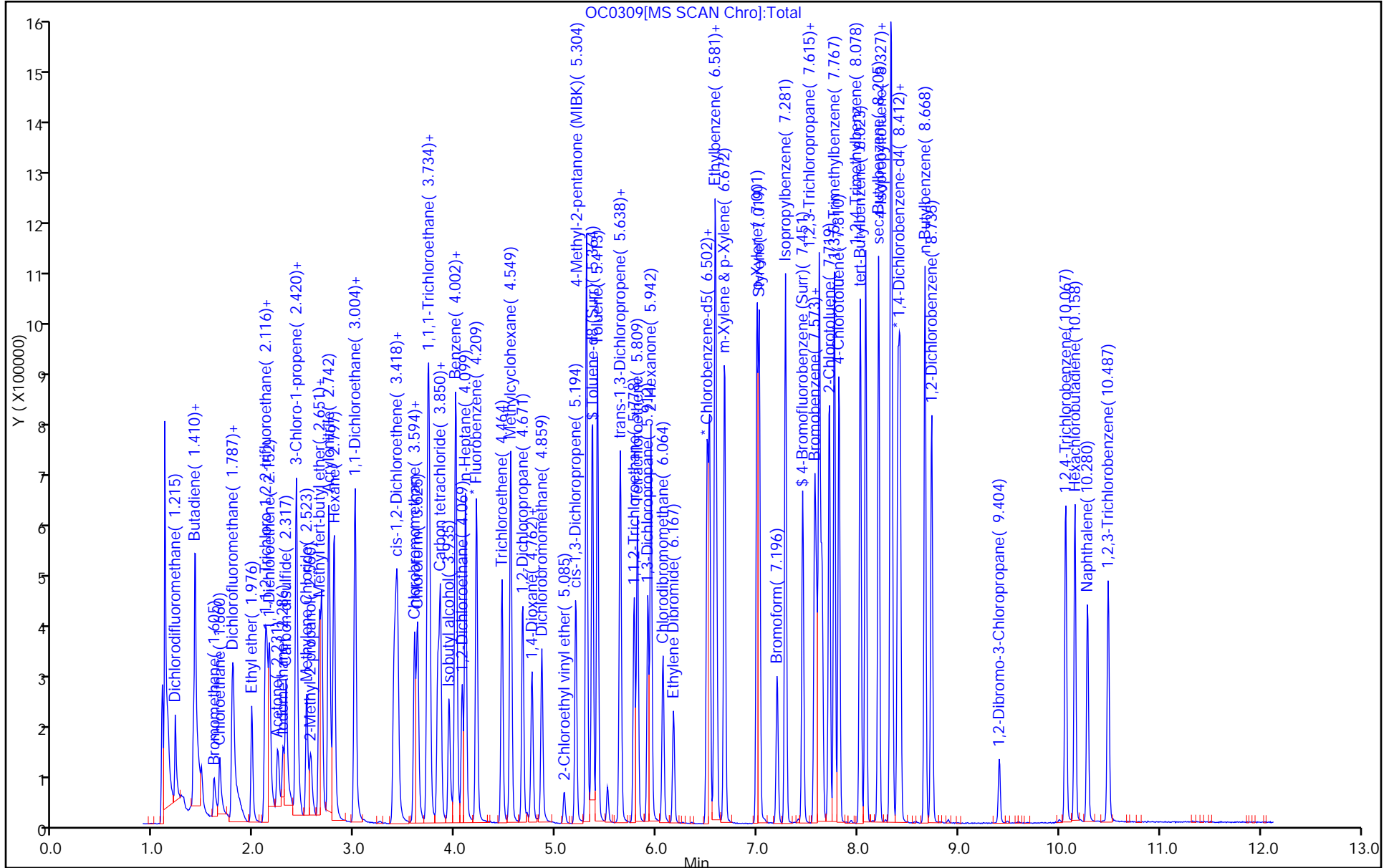
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0310.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 03-Mar-2015 19:24:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0017547-010
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSO2
 Sublist: chrom-2014_MSO2*sub9
 Method: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\2014_MSO2.m
 Limit Group: 8260B
 Last Update: 09-Mar-2015 18:34:44 Calib Date: 03-Mar-2015 19:46:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: beardenr

Date: 04-Mar-2015 07:59:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.216	1.216	0.000	100	248312	100.0	98.6	
2 Vinyl chloride	62	1.399	1.398	0.000	99	351311	100.0	115.1	
3 Chloromethane	50	1.417	1.417	0.000	73	476760	100.0	110.5	
4 Butadiene	54	1.417	1.417	0.000	95	323728	100.0	109.9	
5 Bromomethane	94	1.599	1.605	-0.006	98	131197	100.0	104.6	
6 Chloroethane	64	1.654	1.660	-0.006	99	193710	100.0	105.1	
7 Dichlorofluoromethane	67	1.782	1.782	0.000	99	512898	100.0	108.9	
8 Trichlorofluoromethane	101	1.794	1.794	0.000	98	385573	100.0	107.8	
10 Ethyl ether	59	1.976	1.976	0.000	91	209754	100.0	103.0	
11 1,1,2-Trichloro-1,2,2-trif	151	2.110	2.116	-0.006	96	221341	100.0	101.0	
12 Acrolein	56	2.129	2.128	0.001	96	471045	2000.0	2282.8	
13 1,1-Dichloroethene	96	2.153	2.153	0.000	96	228867	100.0	103.4	
14 Acetone	58	2.238	2.238	0.000	85	124720	500.0	512.8	
16 Iodomethane	142	2.287	2.287	0.000	98	399588	100.0	108.9	
18 Carbon disulfide	76	2.317	2.317	0.000	99	795367	100.0	101.6	
19 3-Chloro-1-propene	76	2.414	2.414	0.000	91	185481	100.0	102.9	
20 Methyl acetate	43	2.421	2.420	0.001	99	1051228	500.0	530.6	
22 Methylene Chloride	84	2.524	2.524	0.000	98	264057	100.0	100.1	
23 2-Methyl-2-propanol	59	2.567	2.566	0.001	99	201794	1000.0	1079.1	
24 Methyl tert-butyl ether	73	2.652	2.652	0.000	98	704823	100.0	105.3	
25 trans-1,2-Dichloroethene	96	2.670	2.676	-0.006	97	243898	100.0	103.0	
26 Acrylonitrile	53	2.743	2.743	0.000	94	1071955	1000.0	1103.7	
27 Hexane	57	2.792	2.798	-0.006	95	421616	100.0	98.1	
29 1,1-Dichloroethane	63	2.998	2.998	0.000	100	476573	100.0	104.5	
30 Vinyl acetate	43	3.005	3.004	0.001	100	1102221	200.0	214.3	
33 2,2-Dichloropropane	77	3.388	3.394	-0.006	97	348163	100.0	100.2	
34 cis-1,2-Dichloroethene	61	3.412	3.412	0.000	96	414224	100.0	103.3	
36 2-Butanone (MEK)	72	3.430	3.430	0.000	98	143921	500.0	513.9	
38 Chlorobromomethane	130	3.595	3.595	0.000	96	185131	100.0	108.0	
39 Tetrahydrofuran	42	3.595	3.601	-0.006	95	177852	200.0	206.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.625	3.625	0.000	98	430970	100.0	104.0	
42 Cyclohexane	84	3.728	3.728	0.000	95	389815	100.0	105.6	
43 1,1,1-Trichloroethane	97	3.735	3.734	0.001	99	374496	100.0	106.4	
\$ 44 Dibromofluoromethane (Surr	113	3.747	3.747	0.000	97	255600	100.0	106.8	
45 Carbon tetrachloride	117	3.826	3.826	0.000	99	345983	100.0	105.6	
46 1,1-Dichloropropene	75	3.850	3.850	0.000	95	329916	100.0	104.0	
47 Isobutyl alcohol	43	3.935	3.941	-0.006	96	285974	2500.0	2488.9	
50 Benzene	78	4.002	4.002	0.000	98	1002821	100.0	104.5	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.014	4.014	0.000	97	276943	100.0	101.8	
53 1,2-Dichloroethane	62	4.069	4.069	0.000	96	338617	100.0	104.1	
54 n-Heptane	43	4.100	4.099	0.001	98	462296	100.0	101.7	
* 55 Fluorobenzene	96	4.209	4.209	0.000	0	452179	50.0	50.0	
57 Trichloroethene	132	4.465	4.465	0.001	98	271156	100.0	101.7	
59 Methylcyclohexane	83	4.550	4.550	0.000	96	468090	100.0	104.1	
60 1,2-Dichloropropane	63	4.671	4.671	0.000	91	290779	100.0	104.1	
62 1,4-Dioxane	88	4.750	4.750	0.000	97	46629	2000.0	1958.5	
63 Dibromomethane	93	4.763	4.763	0.000	92	168710	100.0	101.4	
64 Dichlorobromomethane	83	4.860	4.860	0.000	99	371156	100.0	106.4	
65 2-Chloroethyl vinyl ether	63	5.079	5.079	0.000	0	61008	100.0	107.0	
67 cis-1,3-Dichloropropene	75	5.195	5.195	0.000	95	477193	100.0	111.8	
68 4-Methyl-2-pentanone (MIBK	43	5.304	5.304	0.000	98	1482815	500.0	544.8	
\$ 69 Toluene-d8 (Surr)	98	5.359	5.359	0.000	98	962712	100.0	98.0	
70 Toluene	92	5.414	5.414	0.000	93	663658	100.0	109.5	
71 trans-1,3-Dichloropropene	75	5.633	5.633	0.000	99	395853	100.0	104.8	
72 Ethyl methacrylate	69	5.645	5.645	0.000	89	335839	100.0	104.4	
73 1,1,2-Trichloroethane	83	5.779	5.779	0.000	96	220616	100.0	103.5	
74 Tetrachloroethene	164	5.809	5.809	0.000	96	265047	100.0	107.7	
75 1,3-Dichloropropane	76	5.912	5.912	0.000	97	446063	100.0	104.8	
76 2-Hexanone	43	5.943	5.943	0.000	98	932084	500.0	489.9	
78 Chlorodibromomethane	129	6.065	6.064	0.001	98	317874	100.0	106.9	
79 Ethylene Dibromide	107	6.168	6.168	0.000	98	274256	100.0	104.5	
* 81 Chlorobenzene-d5	82	6.503	6.502	0.001	85	210344	50.0	50.0	
82 Chlorobenzene	112	6.527	6.527	0.000	95	789856	100.0	102.9	
83 Ethylbenzene	91	6.582	6.582	0.000	98	1303820	100.0	98.9	
84 1,1,1,2-Tetrachloroethane	131	6.594	6.594	0.000	95	300557	100.0	102.8	
85 m-Xylene & p-Xylene	91	6.673	6.673	0.000	91	977839	100.0	97.1	
87 o-Xylene	91	7.001	6.995	0.006	93	994660	100.0	95.6	
88 Styrene	104	7.020	7.020	0.000	95	804743	100.0	96.2	
89 Bromoform	173	7.196	7.196	0.000	99	264193	100.0	99.3	
90 Isopropylbenzene	105	7.281	7.281	0.000	96	1231338	100.0	95.2	
\$ 92 4-Bromofluorobenzene (Surr	95	7.452	7.451	0.001	90	360027	100.0	87.9	
93 Bromobenzene	156	7.573	7.573	0.000	94	354476	100.0	93.7	
94 1,1,2,2-Tetrachloroethane	83	7.591	7.591	0.000	99	344904	100.0	95.3	
95 N-Propylbenzene	91	7.616	7.616	0.000	99	1548697	100.0	92.7	
96 1,2,3-Trichloropropane	75	7.640	7.640	0.000	95	390344	100.0	94.4	
97 trans-1,4-Dichloro-2-buten	53	7.646	7.646	0.000	90	91377	100.0	97.8	
98 2-Chlorotoluene	91	7.719	7.713	0.006	97	873542	100.0	94.1	
99 1,3,5-Trimethylbenzene	105	7.768	7.768	0.000	93	1060672	100.0	95.3	
100 4-Chlorotoluene	91	7.810	7.810	0.000	97	923255	100.0	92.9	
103 tert-Butylbenzene	119	8.023	8.023	0.000	95	901354	100.0	93.9	
104 1,2,4-Trimethylbenzene	105	8.078	8.078	0.000	97	1099475	100.0	97.1	
106 sec-Butylbenzene	105	8.206	8.206	0.000	99	1386939	100.0	96.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.328	8.328	0.000	97	1330071	100.0	105.7	
108 1,3-Dichlorobenzene	146	8.340	8.340	0.000	98	742268	100.0	104.3	
* 109 1,4-Dichlorobenzene-d4	152	8.401	8.401	0.001	98	233239	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.419	8.419	0.000	95	748695	100.0	102.6	
113 n-Butylbenzene	91	8.668	8.668	0.000	98	1229143	100.0	106.8	
114 1,2-Dichlorobenzene	146	8.735	8.735	0.000	98	697927	100.0	103.1	
115 1,2-Dibromo-3-Chloropropan	157	9.404	9.404	0.000	95	74380	100.0	100.4	
117 1,2,4-Trichlorobenzene	180	10.067	10.067	0.000	94	414775	100.0	95.8	
118 Hexachlorobutadiene	225	10.159	10.159	0.000	98	240267	100.0	91.1	
119 Naphthalene	128	10.280	10.280	0.000	99	653813	100.0	98.9	
120 1,2,3-Trichlorobenzene	180	10.487	10.487	0.000	95	329481	100.0	98.0	
S 122 1,2-Dichloroethene, Total	1				0		200.0	206.3	
S 123 Xylenes, Total	1				0		200.0	192.8	
S 124 1,3-Dichloropropene, Total	1				0		200.0	216.6	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_Acrolein_00029	Amount Added: 10.00	Units: uL
VM_MMIX_01712	Amount Added: 10.00	Units: uL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0310.D

Injection Date: 03-Mar-2015 19:24:30

Instrument ID: CMSO2

Operator ID: DK

Lims ID: IC

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL/100g

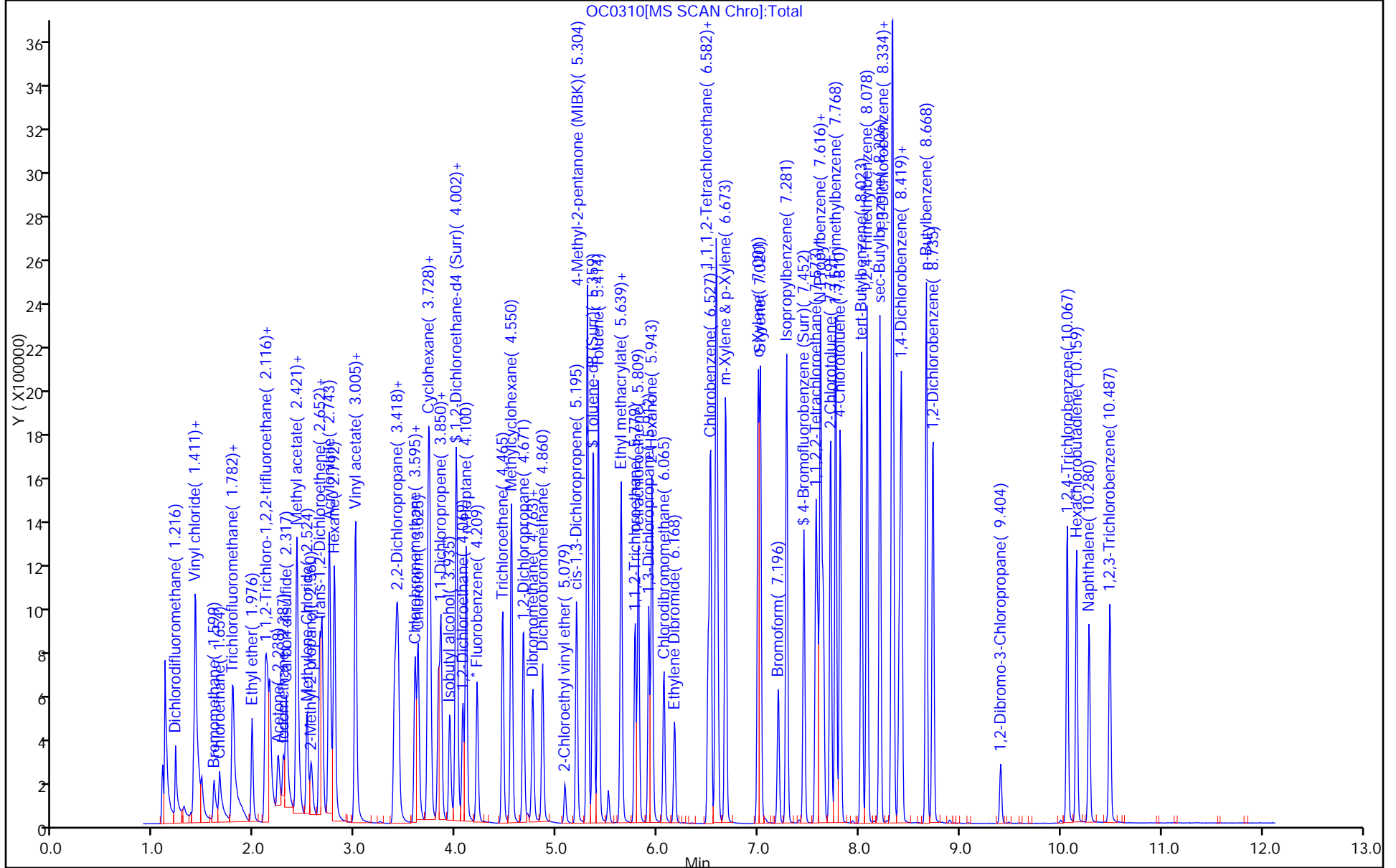
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 03-Mar-2015 19:46:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0017547-011
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSO2
 Sublist: chrom-2014_MS02*sub9
 Method: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 09-Mar-2015 18:34:45 Calib Date: 03-Mar-2015 19:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: beardenr

Date: 04-Mar-2015 07:48:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.216	1.216	0.000	100	498179	200.0	185.3	
2 Vinyl chloride	62	1.392	1.398	-0.006	83	732849	200.0	225.0	
3 Chloromethane	50	1.411	1.417	-0.006	71	1001701	200.0	217.5	
4 Butadiene	54	1.411	1.417	-0.006	91	669133	200.0	212.8	
5 Bromomethane	94	1.587	1.605	-0.018	97	258060	200.0	192.7	
6 Chloroethane	64	1.642	1.660	-0.018	100	355844	200.0	180.9	
7 Dichlorofluoromethane	67	1.769	1.782	-0.013	93	1019639	200.0	202.9	
8 Trichlorofluoromethane	101	1.776	1.794	-0.018	73	798325	200.0	209.0	
10 Ethyl ether	59	1.970	1.976	-0.006	91	430234	200.0	198.0	
11 1,1,2-Trichloro-1,2,2-trif	151	2.104	2.116	-0.012	95	467966	200.0	200.1	
12 Acrolein	56	2.128	2.128	0.000	96	990446	4000.0	4497.1	
13 1,1-Dichloroethene	96	2.147	2.153	-0.006	82	467912	200.0	198.1	
14 Acetone	58	2.238	2.238	0.000	85	258135	1000.0	994.3	
16 Iodomethane	142	2.280	2.287	-0.007	97	832921	200.0	212.6	
18 Carbon disulfide	76	2.311	2.317	-0.006	99	1598366	200.0	191.4	
19 3-Chloro-1-propene	76	2.408	2.414	-0.006	83	435642	200.0	226.4	
20 Methyl acetate	43	2.420	2.420	0.000	99	2262773	1000.0	1070.0	
22 Methylene Chloride	84	2.518	2.524	-0.006	90	537714	200.0	191.0	
23 2-Methyl-2-propanol	59	2.566	2.566	0.000	97	427535	2000.0	2142.0	
24 Methyl tert-butyl ether	73	2.645	2.652	-0.007	97	1440838	200.0	201.7	
25 trans-1,2-Dichloroethene	96	2.670	2.676	-0.006	92	507138	200.0	200.7	
26 Acrylonitrile	53	2.743	2.743	0.000	94	2221912	2000.0	2143.4	
27 Hexane	57	2.791	2.798	-0.007	93	860580	200.0	187.5	
29 1,1-Dichloroethane	63	2.998	2.998	0.000	51	977340	200.0	200.8	
30 Vinyl acetate	43	3.004	3.004	0.000	100	2233220	400.0	406.7	
33 2,2-Dichloropropane	77	3.388	3.394	-0.006	96	718765	200.0	193.7	
34 cis-1,2-Dichloroethene	61	3.412	3.412	0.000	95	875288	200.0	204.6	
36 2-Butanone (MEK)	72	3.424	3.430	-0.006	98	297458	1000.0	995.2	
38 Chlorobromomethane	130	3.588	3.595	-0.007	96	370704	200.0	202.6	
39 Tetrahydrofuran	42	3.595	3.601	-0.007	96	366558	400.0	398.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.625	3.625	0.000	93	882730	200.0	199.6	
42 Cyclohexane	84	3.722	3.728	-0.006	95	817789	200.0	207.5	
43 1,1,1-Trichloroethane	97	3.734	3.734	0.000	92	774094	200.0	206.1	
\$ 44 Dibromofluoromethane (Surr	113	3.747	3.747	0.000	95	512591	200.0	200.7	
45 Carbon tetrachloride	117	3.826	3.826	0.000	90	718181	200.0	205.4	
46 1,1-Dichloropropene	75	3.850	3.850	0.000	94	694673	200.0	205.1	
47 Isobutyl alcohol	43	3.935	3.941	-0.006	95	615917	5000.0	5022.2	
50 Benzene	78	3.996	4.002	-0.006	97	2058459	200.0	201.0	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.008	4.014	-0.006	65	564032	200.0	194.3	
53 1,2-Dichloroethane	62	4.069	4.069	0.000	79	679028	200.0	195.6	
54 n-Heptane	43	4.099	4.099	0.000	96	969464	200.0	199.8	
* 55 Fluorobenzene	96	4.209	4.209	0.000	0	482629	50.0	50.0	
57 Trichloroethene	132	4.464	4.465	0.000	96	563771	200.0	198.2	
59 Methylcyclohexane	83	4.550	4.550	0.000	95	978783	200.0	203.8	
60 1,2-Dichloropropane	63	4.665	4.671	-0.006	90	601249	200.0	201.7	
62 1,4-Dioxane	88	4.750	4.750	0.000	45	112081	4000.0	4410.5	
63 Dibromomethane	93	4.763	4.763	0.000	91	373632	200.0	210.4	
64 Dichlorobromomethane	83	4.860	4.860	0.000	99	772861	200.0	207.5	
65 2-Chloroethyl vinyl ether	63	5.079	5.079	0.000	0	137803	200.0	199.0	
67 cis-1,3-Dichloropropene	75	5.194	5.195	-0.001	95	962233	200.0	211.3	
68 4-Methyl-2-pentanone (MIBK	43	5.304	5.304	0.000	98	3118563	1000.0	1073.5	
\$ 69 Toluene-d8 (Surr)	98	5.365	5.359	0.006	94	2030909	200.0	192.5	
70 Toluene	92	5.413	5.414	-0.001	89	1367977	200.0	211.6	
71 trans-1,3-Dichloropropene	75	5.632	5.633	-0.001	91	891027	200.0	220.9	
72 Ethyl methacrylate	69	5.645	5.645	0.000	88	783144	200.0	228.2	
73 1,1,2-Trichloroethane	83	5.778	5.779	-0.001	95	501027	200.0	220.3	
74 Tetrachloroethene	164	5.809	5.809	0.000	88	596884	200.0	227.2	
75 1,3-Dichloropropane	76	5.912	5.912	0.000	97	986395	200.0	217.1	
76 2-Hexanone	43	5.943	5.943	0.000	97	2158334	1000.0	1062.9	
78 Chlorodibromomethane	129	6.064	6.064	0.000	97	720555	200.0	227.0	
79 Ethylene Dibromide	107	6.168	6.168	0.000	99	618709	200.0	220.9	
* 81 Chlorobenzene-d5	82	6.502	6.502	0.000	86	225956	50.0	50.0	
82 Chlorobenzene	112	6.527	6.527	0.000	94	1698461	200.0	206.0	
83 Ethylbenzene	91	6.581	6.582	-0.001	82	2953085	200.0	208.4	
84 1,1,1,2-Tetrachloroethane	131	6.594	6.594	0.000	67	651677	200.0	207.5	
85 m-Xylene & p-Xylene	91	6.679	6.673	0.006	90	2206416	200.0	204.0	
87 o-Xylene	91	7.001	6.995	0.006	93	2276035	200.0	203.7	
88 Styrene	104	7.019	7.020	-0.001	93	1862911	200.0	207.2	
89 Bromoform	173	7.196	7.196	0.000	99	600878	200.0	210.2	
90 Isopropylbenzene	105	7.281	7.281	0.000	96	2870959	200.0	206.7	
\$ 92 4-Bromofluorobenzene (Surr	95	7.451	7.451	0.000	91	838487	200.0	191.5	
93 Bromobenzene	156	7.573	7.573	0.000	92	831904	200.0	204.7	
94 1,1,2,2-Tetrachloroethane	83	7.591	7.591	0.000	95	795375	200.0	204.7	
95 N-Propylbenzene	91	7.622	7.616	0.006	84	3587472	200.0	199.9	
96 1,2,3-Trichloropropane	75	7.646	7.640	0.006	77	925745	200.0	208.4	
97 trans-1,4-Dichloro-2-buten	53	7.646	7.646	0.000	39	218720	200.0	218.0	
98 2-Chlorotoluene	91	7.719	7.713	0.006	94	2009425	200.0	201.5	
99 1,3,5-Trimethylbenzene	105	7.768	7.768	0.000	74	2422261	200.0	202.6	
100 4-Chlorotoluene	91	7.816	7.810	0.006	94	2142354	200.0	200.7	
103 tert-Butylbenzene	119	8.023	8.023	0.000	90	2112731	200.0	205.0	
104 1,2,4-Trimethylbenzene	105	8.078	8.078	0.000	77	2514363	200.0	206.7	
106 sec-Butylbenzene	105	8.206	8.206	0.000	99	3187843	200.0	206.3	

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.327	8.328	-0.001	95	2772323	200.0	206.2	
108 1,3-Dichlorobenzene	146	8.340	8.340	0.000	97	1567994	200.0	206.2	
* 109 1,4-Dichlorobenzene-d4	152	8.400	8.401	0.000	96	249275	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.419	8.419	0.000	95	1569818	200.0	201.4	
113 n-Butylbenzene	91	8.668	8.668	0.000	98	2518300	200.0	204.8	
114 1,2-Dichlorobenzene	146	8.735	8.735	0.000	97	1468967	200.0	203.0	
115 1,2-Dibromo-3-Chloropropan	157	9.404	9.404	0.000	94	175017	200.0	221.0	
117 1,2,4-Trichlorobenzene	180	10.067	10.067	0.000	93	954841	200.0	206.3	
118 Hexachlorobutadiene	225	10.159	10.159	0.000	98	559411	200.0	198.4	
119 Naphthalene	128	10.280	10.280	0.000	99	1674282	200.0	237.0	
120 1,2,3-Trichlorobenzene	180	10.487	10.487	0.000	92	761326	200.0	212.0	
S 122 1,2-Dichloroethene, Total	1				0		400.0	405.2	
S 123 Xylenes, Total	1				0		400.0	407.7	
S 124 1,3-Dichloropropene, Total	1				0		400.0	432.2	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_Acrolein_00029	Amount Added: 20.00	Units: uL
VM_MMIX_01712	Amount Added: 20.00	Units: uL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D

Injection Date: 03-Mar-2015 19:46:30

Instrument ID: CMSO2

Operator ID: DK

Lims ID: IC

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL/100g

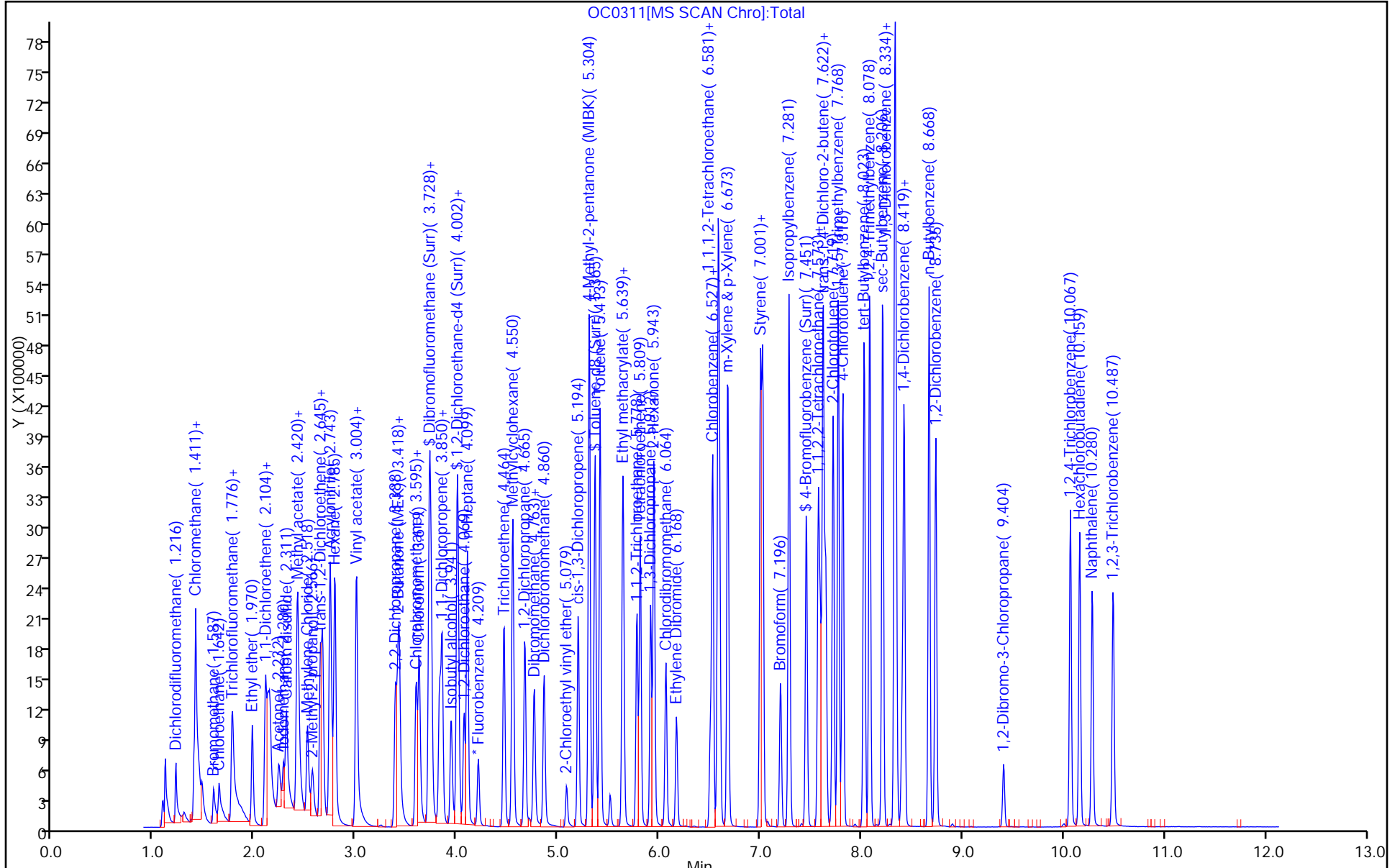
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: ICV 680-373126/13 Calibration Date: 03/03/2015 20:31
 Instrument ID: CMSO2 Calib Start Date: 03/03/2015 17:10
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/03/2015 19:46
 Lab File ID: OC0313.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	0.2785	0.2410		43.3	50.0	-13.5	60.0
Vinyl chloride	Ave	0.3375	0.3587		53.1	50.0	6.3	60.0
1,3-Butadiene	Ave	0.3257	0.3235		49.7	50.0	-0.7	60.0
Chloromethane	Ave	0.4771	0.4665	0.1000	48.9	50.0	-2.2	60.0
Bromomethane	Ave	0.1387	0.1566		56.4	50.0	12.9	60.0
Chloroethane	Ave	0.2038	0.1658		40.7	50.0	-18.6	60.0
Dichlorofluoromethane	Ave	0.5206	0.4752		45.6	50.0	-8.7	60.0
Trichlorofluoromethane	Ave	0.3957	0.3932		49.7	50.0	-0.6	60.0
Ethyl ether	Ave	0.2251	0.2297		51.0	50.0	2.0	60.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2422	0.2196		45.3	50.0	-9.4	60.0
Acrolein	Ave	0.0228	0.0281		1230	1000	23.1	60.0
1,1-Dichloroethene	Ave	0.2447	0.2239		45.7	50.0	-8.5	60.0
Acetone	LinF		0.0237		220	250	-11.9	60.0
Iodomethane	Ave	0.4059	0.3168		40.0	50.0	-21.9	60.0
Carbon disulfide	Ave	0.8653	0.7995		46.2	50.0	-7.6	60.0
Allyl chloride	Ave	0.1993	0.1856		46.5	50.0	-6.9	60.0
Methyl acetate	Ave	0.2191	0.2600		297	250	18.7	60.0
Methylene Chloride	Ave	0.2917	0.2912		49.9	50.0	-0.2	60.0
tert-Butyl alcohol	Ave	0.0207	0.0212		513	500	2.7	60.0
Methyl tert-butyl ether	Ave	0.7399	0.7787		52.6	50.0	5.2	60.0
trans-1,2-Dichloroethene	Ave	0.2618	0.2662		50.8	50.0	1.7	60.0
Acrylonitrile	Ave	0.1074	0.1168		544	500	8.8	60.0
Hexane	Ave	0.4755	0.4345		45.7	50.0	-8.6	60.0
1,1-Dichloroethane	Ave	0.5042	0.5142	0.1000	51.0	50.0	2.0	60.0
Vinyl acetate	Ave	0.5689	0.3326		58.5	100	-41.5	60.0
2,2-Dichloropropane	Ave	0.3844	0.3504		45.6	50.0	-8.8	60.0
cis-1,2-Dichloroethene	Ave	0.4433	0.4446		50.1	50.0	0.3	60.0
2-Butanone	LinF		0.0307		248	250	-0.9	60.0
Bromochloromethane	Ave	0.1896	0.1972		52.0	50.0	4.0	60.0
Tetrahydrofuran	LinF		0.0957		100	100	0.3	60.0
Chloroform	Ave	0.4581	0.4691		51.2	50.0	2.4	60.0
Cyclohexane	Ave	0.4083	0.3919		48.0	50.0	-4.0	60.0
1,1,1-Trichloroethane	Ave	0.3890	0.3906		50.2	50.0	0.4	60.0
Carbon tetrachloride	Ave	0.3622	0.3719		51.3	50.0	2.7	60.0
1,1-Dichloropropene	Ave	0.3509	0.3740		53.3	50.0	6.6	60.0
Isobutanol	LinF		0.0127		1250	1250	0.1	60.0
Benzene	Ave	1.061	1.104		52.0	50.0	4.0	60.0
1,2-Dichloroethane	Ave	0.3597	0.3785		52.6	50.0	5.2	60.0
n-Heptane	Ave	0.5026	0.4636		46.1	50.0	-7.8	60.0
Trichloroethene	Ave	0.2947	0.3204		54.4	50.0	8.7	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: ICV 680-373126/13 Calibration Date: 03/03/2015 20:31
 Instrument ID: CMSO2 Calib Start Date: 03/03/2015 17:10
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/03/2015 19:46
 Lab File ID: OC0313.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
Methylcyclohexane	Ave	0.4974	0.5262		52.9	50.0	5.8	60.0
1,2-Dichloropropane	Ave	0.3088	0.3560		57.6	50.0	15.3	60.0
1,4-Dioxane	Ave	0.0026	0.0026		999	1000	-0.0	60.0
Dibromomethane	Ave	0.1840	0.2083		56.6	50.0	13.2	60.0
Bromodichloromethane	Ave	0.3858	0.4244		55.0	50.0	10.0	60.0
2-Chloroethyl vinyl ether	QuaF		0.0575		49.9	50.0	-0.2	60.0
cis-1,3-Dichloropropene	Ave	0.4718	0.5323		56.4	50.0	12.8	60.0
4-Methyl-2-pentanone	Ave	0.3010	0.3463		288	250	15.1	60.0
Toluene	Ave	0.6699	0.7254		54.1	50.0	8.3	60.0
trans-1,3-Dichloropropene	Ave	0.4178	0.4854		58.1	50.0	16.2	60.0
Ethyl methacrylate	Ave	0.3556	0.4051		57.0	50.0	13.9	60.0
1,1,2-Trichloroethane	Ave	0.2356	0.2522		53.5	50.0	7.0	60.0
Tetrachloroethene	Ave	0.2721	0.2807		51.6	50.0	3.2	60.0
1,3-Dichloropropane	Ave	0.4707	0.4690		49.8	50.0	-0.4	60.0
2-Hexanone	Ave	0.2104	0.2041		243	250	-3.0	60.0
Dibromochloromethane	Ave	0.3289	0.3372		51.3	50.0	2.5	60.0
1,2-Dibromoethane	Ave	0.2901	0.3004		51.8	50.0	3.5	60.0
Chlorobenzene	Ave	1.824	1.855	0.3000	50.8	50.0	1.7	60.0
Ethylbenzene	Ave	3.135	3.060		48.8	50.0	-2.4	60.0
1,1,1,2-Tetrachloroethane	Ave	0.6949	0.7317		52.6	50.0	5.3	60.0
m-Xylene & p-Xylene	Ave	2.393	2.379		49.7	50.0	-0.6	60.0
o-Xylene	Ave	2.472	2.523		51.0	50.0	2.1	60.0
Styrene	Ave	1.990	1.967		49.4	50.0	-1.1	60.0
Bromoform	Ave	0.6324	0.6872	0.1000	54.3	50.0	8.7	60.0
Isopropylbenzene	Ave	3.073	3.072		50.0	50.0	-0.0	60.0
Bromobenzene	Ave	0.8992	0.9632		53.6	50.0	7.1	60.0
1,1,2,2-Tetrachloroethane	Ave	0.8600	0.9302	0.3000	54.1	50.0	8.2	60.0
N-Propylbenzene	Ave	3.971	4.050		51.0	50.0	2.0	60.0
1,2,3-Trichloropropane	Ave	0.9831	1.072		54.5	50.0	9.0	60.0
trans-1,4-Dichloro-2-butene	Ave	0.2220	0.2677		60.3	50.0	20.6	60.0
2-Chlorotoluene	Ave	2.207	2.320		52.6	50.0	5.1	60.0
1,3,5-Trimethylbenzene	Ave	2.646	2.700		51.0	50.0	2.0	60.0
4-Chlorotoluene	Ave	2.363	2.405		50.9	50.0	1.8	60.0
tert-Butylbenzene	Ave	2.281	2.317		50.8	50.0	1.6	60.0
1,2,4-Trimethylbenzene	Ave	2.692	2.778		51.6	50.0	3.2	60.0
sec-Butylbenzene	Ave	3.420	3.482		50.9	50.0	1.8	60.0
p-Isopropyltoluene	Ave	2.697	2.656		49.2	50.0	-1.5	60.0
1,3-Dichlorobenzene	Ave	1.525	1.550		50.8	50.0	1.6	60.0
1,4-Dichlorobenzene	Ave	1.564	1.597		51.1	50.0	2.1	60.0
n-Butylbenzene	Ave	2.467	2.435		49.3	50.0	-1.3	60.0
1,2-Dichlorobenzene	Ave	1.452	1.500		51.7	50.0	3.4	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: ICV 680-373126/13 Calibration Date: 03/03/2015 20:31
 Instrument ID: CMSO2 Calib Start Date: 03/03/2015 17:10
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/03/2015 19:46
 Lab File ID: OC0313.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
1,2-Dibromo-3-Chloropropane	Ave	0.1589	0.1834		57.7	50.0	15.5	60.0
1,2,4-Trichlorobenzene	Ave	0.9286	0.9757		52.5	50.0	5.1	60.0
Hexachlorobutadiene	Ave	0.5657	0.5598		49.5	50.0	-1.0	60.0
Naphthalene	Ave	1.417	1.563		55.2	50.0	10.4	60.0
1,2,3-Trichlorobenzene	Ave	0.7204	0.7899		54.8	50.0	9.6	60.0
Dibromofluoromethane (Surr)	Ave	0.2645	0.2702		51.1	50.0	2.1	60.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3007	0.3079		51.2	50.0	2.4	60.0
Toluene-d8 (Surr)	Ave	2.334	2.492		53.4	50.0	6.8	60.0
4-Bromofluorobenzene (Surr)	Ave	0.8783	0.8280		47.1	50.0	-5.7	60.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0313.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 03-Mar-2015 20:31:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0017547-013
 Misc. Info.: ICV
 Operator ID: DK Instrument ID: CMSO2
 Sublist:

Method: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 04-Mar-2015 08:52:42 Calib Date: 03-Mar-2015 19:46:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D

Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: tippinsm

Date: 04-Mar-2015 15:15:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.216	1.215	0.001	99	109003	50.0	43.3	
2 Vinyl chloride	62	1.399	1.398	0.001	99	162255	50.0	53.1	
3 Chloromethane	50	1.417	1.416	0.001	59	211030	50.0	48.9	
4 Butadiene	54	1.417	1.416	0.001	97	146307	50.0	49.7	
5 Bromomethane	94	1.599	1.605	-0.006	99	70817	50.0	56.4	
6 Chloroethane	64	1.660	1.660	0.000	100	75008	50.0	40.7	
7 Dichlorofluoromethane	67	1.782	1.781	0.001	100	214935	50.0	45.6	
8 Trichlorofluoromethane	101	1.794	1.793	0.001	99	177834	50.0	49.7	
10 Ethyl ether	59	1.976	1.976	0.000	91	103914	50.0	51.0	
11 1,1,2-Trichloro-1,2,2-trif	151	2.116	2.110	0.006	97	99326	50.0	45.3	
12 Acrolein	56	2.129	2.128	0.001	96	254049	1000.0	1230.8	
13 1,1-Dichloroethene	96	2.153	2.152	0.001	97	101274	50.0	45.7	
14 Acetone	58	2.232	2.238	-0.006	85	53612	250.0	220.3	
16 Iodomethane	142	2.287	2.286	0.001	98	143311	50.0	40.0	
18 Carbon disulfide	76	2.317	2.317	0.000	99	361658	50.0	46.2	
19 3-Chloro-1-propene	76	2.415	2.414	0.000	91	83947	50.0	46.5	
20 Methyl acetate	43	2.421	2.420	0.001	99	587978	250.0	296.7	
22 Methylene Chloride	84	2.524	2.523	0.001	97	131729	50.0	49.9	
23 2-Methyl-2-propanol	59	2.561	2.560	0.000	99	96033	500.0	513.4	
24 Methyl tert-butyl ether	73	2.652	2.651	0.001	98	352220	50.0	52.6	
25 trans-1,2-Dichloroethene	96	2.670	2.669	0.001	97	120409	50.0	50.8	
26 Acrylonitrile	53	2.743	2.742	0.001	93	528330	500.0	543.8	
27 Hexane	57	2.798	2.797	0.001	95	196522	50.0	45.7	
29 1,1-Dichloroethane	63	2.999	2.998	0.001	99	232564	50.0	51.0	
30 Vinyl acetate	43	3.005	3.004	0.001	100	300890	100.0	58.5	
33 2,2-Dichloropropane	77	3.388	3.393	-0.005	98	158501	50.0	45.6	
34 cis-1,2-Dichloroethene	61	3.412	3.412	0.000	95	201110	50.0	50.1	
36 2-Butanone (MEK)	72	3.430	3.430	0.000	98	69434	250.0	247.9	
38 Chlorobromomethane	130	3.595	3.594	0.001	94	89211	50.0	52.0	
39 Tetrahydrofuran	42	3.595	3.594	0.001	97	86547	100.0	100.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.625	3.625	0.000	99	212184	50.0	51.2	
42 Cyclohexane	84	3.729	3.728	0.001	95	177275	50.0	48.0	
43 1,1,1-Trichloroethane	97	3.735	3.734	0.001	98	176698	50.0	50.2	
\$ 44 Dibromofluoromethane (Surr	113	3.747	3.746	0.001	96	122201	50.0	51.1	
45 Carbon tetrachloride	117	3.826	3.825	0.001	98	168237	50.0	51.3	
46 1,1-Dichloropropene	75	3.850	3.850	0.000	95	169190	50.0	53.3	
47 Isobutyl alcohol	43	3.935	3.935	0.000	96	143870	1250.0	1251.7	
50 Benzene	78	4.002	4.002	0.000	98	499235	50.0	52.0	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.014	4.014	0.000	97	139279	50.0	51.2	
53 1,2-Dichloroethane	62	4.069	4.069	0.000	97	171187	50.0	52.6	
54 n-Heptane	43	4.100	4.099	0.001	97	209697	50.0	46.1	
* 55 Fluorobenzene	96	4.209	4.209	0.000	0	452331	50.0	50.0	
57 Trichloroethene	132	4.465	4.464	0.001	98	144909	50.0	54.4	
59 Methylcyclohexane	83	4.550	4.549	0.001	95	238033	50.0	52.9	
60 1,2-Dichloropropane	63	4.671	4.671	0.000	91	161020	50.0	57.6	
62 1,4-Dioxane	88	4.751	4.756	-0.005	93	23797	1000.0	999.2	
63 Dibromomethane	93	4.757	4.762	-0.005	96	94238	50.0	56.6	
64 Dichlorobromomethane	83	4.860	4.859	0.001	99	191978	50.0	55.0	
65 2-Chloroethyl vinyl ether	63	5.079	5.078	0.001	0	26026	50.0	49.9	
67 cis-1,3-Dichloropropene	75	5.195	5.194	0.001	95	240765	50.0	56.4	
68 4-Methyl-2-pentanone (MIBK	43	5.304	5.304	0.000	98	783116	250.0	287.6	
\$ 69 Toluene-d8 (Surr)	98	5.359	5.364	-0.005	99	472752	50.0	53.4	
70 Toluene	92	5.414	5.413	0.001	93	328106	50.0	54.1	
71 trans-1,3-Dichloropropene	75	5.633	5.632	0.001	98	219549	50.0	58.1	
72 Ethyl methacrylate	69	5.645	5.644	0.001	88	183228	50.0	57.0	
73 1,1,2-Trichloroethane	83	5.779	5.778	0.001	97	114054	50.0	53.5	
74 Tetrachloroethene	164	5.809	5.809	0.001	96	126975	50.0	51.6	
75 1,3-Dichloropropane	76	5.912	5.912	0.000	97	212149	50.0	49.8	
76 2-Hexanone	43	5.943	5.942	0.001	100	461617	250.0	242.6	
78 Chlorodibromomethane	129	6.065	6.064	0.001	99	152535	50.0	51.3	
79 Ethylene Dibromide	107	6.168	6.167	0.001	98	135860	50.0	51.8	
* 81 Chlorobenzene-d5	82	6.503	6.502	0.001	86	189708	50.0	50.0	
82 Chlorobenzene	112	6.527	6.526	0.001	95	351925	50.0	50.8	
83 Ethylbenzene	91	6.582	6.581	0.001	98	580543	50.0	48.8	
84 1,1,1,2-Tetrachloroethane	131	6.594	6.593	0.001	96	138800	50.0	52.6	
85 m-Xylene & p-Xylene	91	6.673	6.672	0.001	91	451345	50.0	49.7	
87 o-Xylene	91	6.995	6.995	0.000	93	478659	50.0	51.0	
88 Styrene	104	7.020	7.019	0.001	94	373236	50.0	49.4	
89 Bromoform	173	7.196	7.196	0.000	99	130357	50.0	54.3	
90 Isopropylbenzene	105	7.281	7.281	0.000	96	582716	50.0	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.452	7.451	0.001	90	177981	50.0	47.1	
93 Bromobenzene	156	7.573	7.573	0.000	93	182718	50.0	53.6	
94 1,1,2,2-Tetrachloroethane	83	7.592	7.591	0.001	98	176466	50.0	54.1	
95 N-Propylbenzene	91	7.616	7.615	0.001	99	768347	50.0	51.0	
96 1,2,3-Trichloropropane	75	7.640	7.640	0.000	97	203306	50.0	54.5	
97 trans-1,4-Dichloro-2-buten	53	7.646	7.646	0.000	83	50792	50.0	60.3	
98 2-Chlorotoluene	91	7.713	7.719	-0.006	97	440122	50.0	52.6	
99 1,3,5-Trimethylbenzene	105	7.768	7.767	0.001	94	512146	50.0	51.0	
100 4-Chlorotoluene	91	7.811	7.810	0.001	97	456267	50.0	50.9	
103 tert-Butylbenzene	119	8.023	8.023	0.000	95	439542	50.0	50.8	
104 1,2,4-Trimethylbenzene	105	8.078	8.078	0.000	97	527040	50.0	51.6	
106 sec-Butylbenzene	105	8.206	8.205	0.001	99	660598	50.0	50.9	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.328	8.327	0.001	98	570874	50.0	49.2	
108 1,3-Dichlorobenzene	146	8.340	8.339	0.001	97	333222	50.0	50.8	
* 109 1,4-Dichlorobenzene-d4	152	8.401	8.400	0.001	98	214962	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.419	8.418	0.001	96	343302	50.0	51.1	
113 n-Butylbenzene	91	8.668	8.668	0.000	98	523360	50.0	49.3	
114 1,2-Dichlorobenzene	146	8.735	8.735	0.000	97	322543	50.0	51.7	
115 1,2-Dibromo-3-Chloropropan	157	9.410	9.410	0.000	93	39428	50.0	57.7	
117 1,2,4-Trichlorobenzene	180	10.068	10.067	0.001	94	209734	50.0	52.5	
118 Hexachlorobutadiene	225	10.159	10.158	0.001	98	120341	50.0	49.5	
119 Naphthalene	128	10.280	10.280	0.000	99	336079	50.0	55.2	
120 1,2,3-Trichlorobenzene	180	10.487	10.487	0.000	95	169801	50.0	54.8	
S 122 1,2-Dichloroethene, Total	1				0		100.0	101.0	
S 123 Xylenes, Total	1				0		100.0	100.7	
S 124 1,3-Dichloropropene, Total	1				0		100.0	114.5	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_ACROLEIN2_00016	Amount Added: 5.00	Units: uL
VM_MMIX2nd_00828	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0313.D

Injection Date: 03-Mar-2015 20:31:30

Instrument ID: CMSO2

Operator ID: DK

Lims ID: ICV

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL/100g

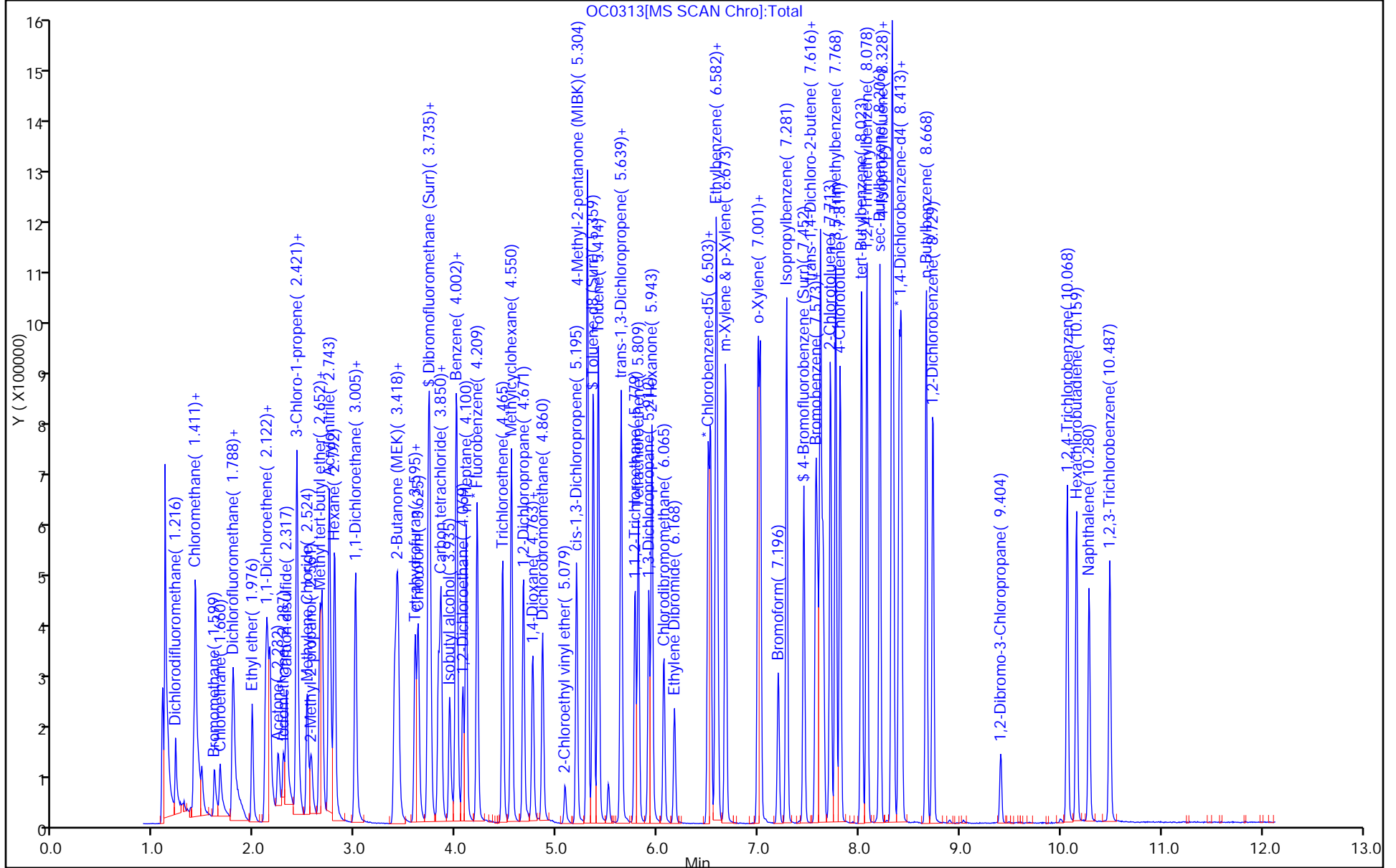
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-376299/3 Calibration Date: 03/27/2015 08:39
 Instrument ID: CMSO2 Calib Start Date: 03/03/2015 17:10
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/03/2015 19:46
 Lab File ID: OC2703Q.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	0.2785	0.1718		30.8	50.0	-38.3	60.0
Vinyl chloride	Ave	0.3375	0.2915		43.2	50.0	-13.6	20.0
1,3-Butadiene	Ave	0.3257	0.2586		39.7	50.0	-20.6	60.0
Chloromethane	Ave	0.4771	0.3447	0.1000	36.1	50.0	-27.7	60.0
Bromomethane	Ave	0.1387	0.0689		24.8	50.0	-50.3	60.0
Chloroethane	Ave	0.2038	0.1321		32.4	50.0	-35.2	60.0
Dichlorofluoromethane	Ave	0.5206	0.3613		34.7	50.0	-30.6	60.0
Trichlorofluoromethane	Ave	0.3957	0.3180		40.2	50.0	-19.6	60.0
Ethyl ether	Ave	0.2251	0.1988		44.1	50.0	-11.7	60.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2422	0.2059		42.5	50.0	-15.0	60.0
Acrolein	Ave	0.0228	0.0220		964	1000	-3.6	60.0
1,1-Dichloroethene	Ave	0.2447	0.2118		43.3	50.0	-13.5	20.0
Acetone	LinF		0.0201		186	250	-25.4	60.0
Iodomethane	Ave	0.4059	0.0722		9.11	50.0	-82.2*	60.0
Carbon disulfide	Ave	0.8653	0.7365		42.6	50.0	-14.9	60.0
Allyl chloride	Ave	0.1993	0.1638		41.1	50.0	-17.8	60.0
Methyl acetate	Ave	0.2191	0.2158		246	250	-1.5	60.0
Methylene Chloride	Ave	0.2917	0.2621		44.9	50.0	-10.1	60.0
tert-Butyl alcohol	Ave	0.0207	0.0201		485	500	-3.0	60.0
Methyl tert-butyl ether	Ave	0.7399	0.6798		45.9	50.0	-8.1	60.0
trans-1,2-Dichloroethene	Ave	0.2618	0.2416		46.1	50.0	-7.7	60.0
Acrylonitrile	Ave	0.1074	0.0979		456	500	-8.8	60.0
Hexane	Ave	0.4755	0.3774		39.7	50.0	-20.6	60.0
1,1-Dichloroethane	Ave	0.5042	0.4686	0.1000	46.5	50.0	-7.1	60.0
Vinyl acetate	Ave	0.5689	0.2609		45.9	100	-54.1	60.0
2,2-Dichloropropane	Ave	0.3844	0.3550		46.2	50.0	-7.7	60.0
cis-1,2-Dichloroethene	Ave	0.4433	0.4060		45.8	50.0	-8.4	60.0
2-Butanone	LinF		0.0244		197	250	-21.4	60.0
Bromochloromethane	Ave	0.1896	0.1710		45.1	50.0	-9.8	60.0
Tetrahydrofuran	LinF		0.0756		79.3	100	-20.7	60.0
Chloroform	Ave	0.4581	0.4367		47.7	50.0	-4.7	20.0
Cyclohexane	Ave	0.4083	0.3707		45.4	50.0	-9.2	60.0
1,1,1-Trichloroethane	Ave	0.3890	0.3641		46.8	50.0	-6.4	60.0
Carbon tetrachloride	Ave	0.3622	0.3332		46.0	50.0	-8.0	60.0
1,1-Dichloropropene	Ave	0.3509	0.3389		48.3	50.0	-3.4	60.0
Isobutanol	LinF		0.0111		1090	1250	-12.6	60.0
Benzene	Ave	1.061	0.9878		46.6	50.0	-6.9	60.0
1,2-Dichloroethane	Ave	0.3597	0.3408		47.4	50.0	-5.3	60.0
n-Heptane	Ave	0.5026	0.3868		38.5	50.0	-23.0	60.0
Trichloroethene	Ave	0.2947	0.2649		44.9	50.0	-10.1	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-376299/3 Calibration Date: 03/27/2015 08:39
 Instrument ID: CMSO2 Calib Start Date: 03/03/2015 17:10
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/03/2015 19:46
 Lab File ID: OC2703Q.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
Methylcyclohexane	Ave	0.4974	0.4370		43.9	50.0	-12.2	60.0
1,2-Dichloropropane	Ave	0.3088	0.2814		45.6	50.0	-8.9	20.0
1,4-Dioxane	Ave	0.0026	0.0027		1040	1000	4.0	60.0
Dibromomethane	Ave	0.1840	0.1647		44.8	50.0	-10.5	60.0
Bromodichloromethane	Ave	0.3858	0.3532		45.8	50.0	-8.5	60.0
2-Chloroethyl vinyl ether	QuaF		0.0845		70.8	50.0	41.6	60.0
cis-1,3-Dichloropropene	Ave	0.4718	0.4417		46.8	50.0	-6.4	60.0
4-Methyl-2-pentanone	Ave	0.3010	0.2689		223	250	-10.6	60.0
Toluene	Ave	0.6699	0.6081		45.4	50.0	-9.2	20.0
trans-1,3-Dichloropropene	Ave	0.4178	0.4114		49.2	50.0	-1.5	60.0
Ethyl methacrylate	Ave	0.3556	0.3313		46.6	50.0	-6.8	60.0
1,1,2-Trichloroethane	Ave	0.2356	0.2167		46.0	50.0	-8.1	60.0
Tetrachloroethene	Ave	0.2721	0.2523		46.4	50.0	-7.3	60.0
1,3-Dichloropropane	Ave	0.4707	0.4227		44.9	50.0	-10.2	60.0
2-Hexanone	Ave	0.2104	0.1705		203	250	-19.0	60.0
Dibromochloromethane	Ave	0.3289	0.3103		47.2	50.0	-5.7	60.0
1,2-Dibromoethane	Ave	0.2901	0.2752		47.4	50.0	-5.2	60.0
Chlorobenzene	Ave	1.824	1.666	0.3000	45.7	50.0	-8.7	60.0
Ethylbenzene	Ave	3.135	2.820		45.0	50.0	-10.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6949	0.6560		47.2	50.0	-5.6	60.0
m-Xylene & p-Xylene	Ave	2.393	2.131		44.5	50.0	-11.0	60.0
o-Xylene	Ave	2.472	2.230		45.1	50.0	-9.8	60.0
Styrene	Ave	1.990	1.778		44.7	50.0	-10.6	60.0
Bromoform	Ave	0.6324	0.5927	0.1000	46.9	50.0	-6.3	60.0
Isopropylbenzene	Ave	3.073	2.865		46.6	50.0	-6.8	60.0
Bromobenzene	Ave	0.8992	0.8536		47.5	50.0	-5.1	60.0
1,1,2,2-Tetrachloroethane	Ave	0.8600	0.8262	0.3000	48.0	50.0	-3.9	60.0
N-Propylbenzene	Ave	3.971	3.528		44.4	50.0	-11.1	60.0
1,2,3-Trichloropropane	Ave	0.9831	0.9224		46.9	50.0	-6.2	60.0
trans-1,4-Dichloro-2-butene	Ave	0.2220	0.2248		50.6	50.0	1.3	60.0
2-Chlorotoluene	Ave	2.207	2.000		45.3	50.0	-9.4	60.0
1,3,5-Trimethylbenzene	Ave	2.646	2.435		46.0	50.0	-8.0	60.0
4-Chlorotoluene	Ave	2.363	2.136		45.2	50.0	-9.6	60.0
tert-Butylbenzene	Ave	2.281	2.074		45.5	50.0	-9.1	60.0
1,2,4-Trimethylbenzene	Ave	2.692	2.512		46.6	50.0	-6.7	60.0
sec-Butylbenzene	Ave	3.420	3.050		44.6	50.0	-10.8	60.0
p-Isopropyltoluene	Ave	2.697	2.346		43.5	50.0	-13.0	60.0
1,3-Dichlorobenzene	Ave	1.525	1.367		44.8	50.0	-10.4	60.0
1,4-Dichlorobenzene	Ave	1.564	1.411		45.1	50.0	-9.7	60.0
n-Butylbenzene	Ave	2.467	2.198		44.6	50.0	-10.9	60.0
1,2-Dichlorobenzene	Ave	1.452	1.320		45.4	50.0	-9.1	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-376299/3 Calibration Date: 03/27/2015 08:39
 Instrument ID: CMSO2 Calib Start Date: 03/03/2015 17:10
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/03/2015 19:46
 Lab File ID: OC2703Q.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
1,2-Dibromo-3-Chloropropane	Ave	0.1589	0.1579		49.7	50.0	-0.6	60.0
1,2,4-Trichlorobenzene	Ave	0.9286	0.8498		45.8	50.0	-8.5	60.0
Hexachlorobutadiene	Ave	0.5657	0.4932		43.6	50.0	-12.8	60.0
Naphthalene	Ave	1.417	1.542		54.4	50.0	8.8	60.0
1,2,3-Trichlorobenzene	Ave	0.7204	0.6743		46.8	50.0	-6.4	60.0
Dibromofluoromethane (Surr)	Ave	0.2645	0.2496		47.2	50.0	-5.6	60.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3007	0.2821		46.9	50.0	-6.2	60.0
Toluene-d8 (Surr)	Ave	2.334	2.118		45.4	50.0	-9.3	60.0
4-Bromofluorobenzene (Surr)	Ave	0.8783	0.7635		43.5	50.0	-13.1	60.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2703Q.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 27-Mar-2015 08:39:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018211-003
 Misc. Info.: CCVIS
 Operator ID: JK Instrument ID: CMSO2
 Sublist: chrom-2014_MSO2*sub9

Method: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\2014_MSO2.m
 Limit Group: 8260B
 Last Update: 27-Mar-2015 10:41:30 Calib Date: 08-Mar-2015 17:58:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150308-17670.b\OC0811.D

Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: kitchingsj

Date: 27-Mar-2015 10:41:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.215	1.215	0.000	99	77216	50.0	30.8	
2 Vinyl chloride	62	1.398	1.398	0.000	98	130988	50.0	43.2	
3 Chloromethane	50	1.410	1.410	0.000	55	154921	50.0	36.1	
4 Butadiene	54	1.410	1.410	0.000	97	116232	50.0	39.7	
5 Bromomethane	94	1.599	1.599	0.000	99	30978	50.0	24.8	
6 Chloroethane	64	1.653	1.653	0.000	100	59343	50.0	32.4	
7 Dichlorofluoromethane	67	1.781	1.781	0.000	99	162374	50.0	34.7	
8 Trichlorofluoromethane	101	1.787	1.787	0.000	98	142906	50.0	40.2	
10 Ethyl ether	59	1.976	1.976	0.000	93	89337	50.0	44.1	
11 1,1,2-Trichloro-1,2,2-trif	151	2.110	2.110	0.000	97	92549	50.0	42.5	
12 Acrolein	56	2.128	2.128	0.000	97	197737	1000.0	964.2	
13 1,1-Dichloroethene	96	2.152	2.152	0.000	97	95186	50.0	43.3	
14 Acetone	58	2.238	2.238	0.000	86	45080	250.0	186.5	
16 Iodomethane	142	2.286	2.286	0.000	98	32442	50.0	9.11	
18 Carbon disulfide	76	2.317	2.317	0.000	100	330967	50.0	42.6	
19 3-Chloro-1-propene	76	2.414	2.414	0.000	90	73611	50.0	41.1	
20 Methyl acetate	43	2.420	2.420	0.000	100	484927	250.0	246.3	
22 Methylene Chloride	84	2.517	2.517	0.000	96	117792	50.0	44.9	
23 2-Methyl-2-propanol	59	2.560	2.560	0.000	99	90115	500.0	484.9	
24 Methyl tert-butyl ether	73	2.645	2.645	0.000	97	305497	50.0	45.9	
25 trans-1,2-Dichloroethene	96	2.669	2.669	0.000	96	108571	50.0	46.1	
26 Acrylonitrile	53	2.742	2.742	0.000	94	440048	500.0	455.9	
27 Hexane	57	2.791	2.791	0.000	95	169589	50.0	39.7	
29 1,1-Dichloroethane	63	2.998	2.998	0.000	100	210603	50.0	46.5	
30 Vinyl acetate	43	3.004	3.004	0.000	100	234479	100.0	45.9	
33 2,2-Dichloropropane	77	3.387	3.387	0.000	96	159516	50.0	46.2	
34 cis-1,2-Dichloroethene	61	3.412	3.412	0.000	97	182467	50.0	45.8	
36 2-Butanone (MEK)	72	3.430	3.430	0.000	98	54720	250.0	196.6	
38 Chlorobromomethane	130	3.588	3.588	0.000	94	76828	50.0	45.1	
39 Tetrahydrofuran	42	3.594	3.594	0.000	94	67983	100.0	79.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.625	3.625	0.000	98	196236	50.0	47.7	
42 Cyclohexane	84	3.722	3.722	0.000	94	166609	50.0	45.4	
43 1,1,1-Trichloroethane	97	3.734	3.734	0.000	99	163610	50.0	46.8	
\$ 44 Dibromofluoromethane (Surr	113	3.746	3.746	0.000	97	112173	50.0	47.2	
45 Carbon tetrachloride	117	3.825	3.825	0.000	96	149743	50.0	46.0	
46 1,1-Dichloropropene	75	3.850	3.850	0.000	94	152312	50.0	48.3	
47 Isobutyl alcohol	43	3.935	3.935	0.000	97	124761	1250.0	1092.5	
50 Benzene	78	4.002	4.002	0.000	98	443924	50.0	46.6	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.008	4.008	0.000	98	126762	50.0	46.9	
53 1,2-Dichloroethane	62	4.069	4.069	0.000	97	153149	50.0	47.4	
54 n-Heptane	43	4.099	4.099	0.000	96	173845	50.0	38.5	
* 55 Fluorobenzene	96	4.209	4.209	0.000	0	449406	50.0	50.0	
57 Trichloroethene	132	4.464	4.464	0.000	97	119040	50.0	44.9	
59 Methylcyclohexane	83	4.549	4.549	0.000	95	196367	50.0	43.9	
60 1,2-Dichloropropane	63	4.671	4.671	0.000	90	126439	50.0	45.6	
62 1,4-Dioxane	88	4.756	4.756	0.000	99	24608	1000.0	1039.9	
63 Dibromomethane	93	4.762	4.762	0.000	93	74029	50.0	44.8	
64 Dichlorobromomethane	83	4.859	4.859	0.000	99	158723	50.0	45.8	
65 2-Chloroethyl vinyl ether	63	5.078	5.078	0.000	0	37960	50.0	70.8	
67 cis-1,3-Dichloropropene	75	5.194	5.194	0.000	95	198501	50.0	46.8	
68 4-Methyl-2-pentanone (MIBK	43	5.304	5.304	0.000	98	604251	250.0	223.4	
\$ 69 Toluene-d8 (Surr)	98	5.358	5.358	0.000	98	406766	50.0	45.4	
70 Toluene	92	5.413	5.413	0.000	93	273288	50.0	45.4	
71 trans-1,3-Dichloropropene	75	5.632	5.632	0.000	94	184893	50.0	49.2	
72 Ethyl methacrylate	69	5.644	5.644	0.000	89	148869	50.0	46.6	
73 1,1,2-Trichloroethane	83	5.778	5.778	0.000	96	97368	50.0	46.0	
74 Tetrachloroethene	164	5.809	5.809	0.000	95	113391	50.0	46.4	
75 1,3-Dichloropropane	76	5.912	5.912	0.000	95	189953	50.0	44.9	
76 2-Hexanone	43	5.942	5.942	0.000	99	383124	250.0	202.6	
78 Chlorodibromomethane	129	6.064	6.064	0.000	98	139452	50.0	47.2	
79 Ethylene Dibromide	107	6.167	6.167	0.000	99	123670	50.0	47.4	
* 81 Chlorobenzene-d5	82	6.502	6.502	0.000	87	192082	50.0	50.0	
82 Chlorobenzene	112	6.526	6.526	0.000	95	319935	50.0	45.7	
83 Ethylbenzene	91	6.581	6.581	0.000	98	541713	50.0	45.0	
84 1,1,1,2-Tetrachloroethane	131	6.593	6.593	0.000	96	126008	50.0	47.2	
85 m-Xylene & p-Xylene	91	6.672	6.672	0.000	91	409262	50.0	44.5	
87 o-Xylene	91	7.001	7.001	0.000	93	428437	50.0	45.1	
88 Styrene	104	7.019	7.019	0.000	94	341611	50.0	44.7	
89 Bromoform	173	7.196	7.196	0.000	98	113840	50.0	46.9	
90 Isopropylbenzene	105	7.281	7.281	0.000	96	550321	50.0	46.6	
\$ 92 4-Bromofluorobenzene (Surr	95	7.451	7.451	0.000	90	159842	50.0	43.5	
93 Bromobenzene	156	7.573	7.573	0.000	91	163963	50.0	47.5	
94 1,1,2,2-Tetrachloroethane	83	7.591	7.591	0.000	99	158688	50.0	48.0	
95 N-Propylbenzene	91	7.615	7.615	0.000	99	677737	50.0	44.4	
96 1,2,3-Trichloropropane	75	7.640	7.640	0.000	95	177184	50.0	46.9	
97 trans-1,4-Dichloro-2-buten	53	7.646	7.646	0.000	91	43185	50.0	50.6	
98 2-Chlorotoluene	91	7.719	7.719	0.000	97	384122	50.0	45.3	
99 1,3,5-Trimethylbenzene	105	7.767	7.767	0.000	93	467660	50.0	46.0	
100 4-Chlorotoluene	91	7.810	7.810	0.000	97	410312	50.0	45.2	
103 tert-Butylbenzene	119	8.023	8.023	0.000	95	398444	50.0	45.5	
104 1,2,4-Trimethylbenzene	105	8.078	8.078	0.000	97	482433	50.0	46.6	
106 sec-Butylbenzene	105	8.205	8.205	0.000	99	585843	50.0	44.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.327	8.327	0.000	97	491230	50.0	43.5	
108 1,3-Dichlorobenzene	146	8.339	8.339	0.000	98	286201	50.0	44.8	
* 109 1,4-Dichlorobenzene-d4	152	8.400	8.400	0.000	98	209349	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.418	8.418	0.000	96	295423	50.0	45.1	
113 n-Butylbenzene	91	8.668	8.668	0.000	98	460231	50.0	44.6	
114 1,2-Dichlorobenzene	146	8.735	8.735	0.000	97	276248	50.0	45.4	
115 1,2-Dibromo-3-Chloropropan	157	9.404	9.404	0.000	94	33050	50.0	49.7	
117 1,2,4-Trichlorobenzene	180	10.067	10.067	0.000	93	177912	50.0	45.8	
118 Hexachlorobutadiene	225	10.158	10.158	0.000	99	103257	50.0	43.6	
119 Naphthalene	128	10.280	10.280	0.000	99	322808	50.0	54.4	
120 1,2,3-Trichlorobenzene	180	10.487	10.487	0.000	96	141170	50.0	46.8	
S 122 1,2-Dichloroethene, Total	1				0		100.0	91.9	
S 123 Xylenes, Total	1				0		100.0	89.6	
S 124 1,3-Dichloropropene, Total	1				0		100.0	96.0	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_MMIX_01720	Amount Added: 5.00	Units: uL
VM_Acrolein_00028	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2703Q.D

Injection Date: 27-Mar-2015 08:39:30

Instrument ID: CMSO2

Operator ID: JK

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

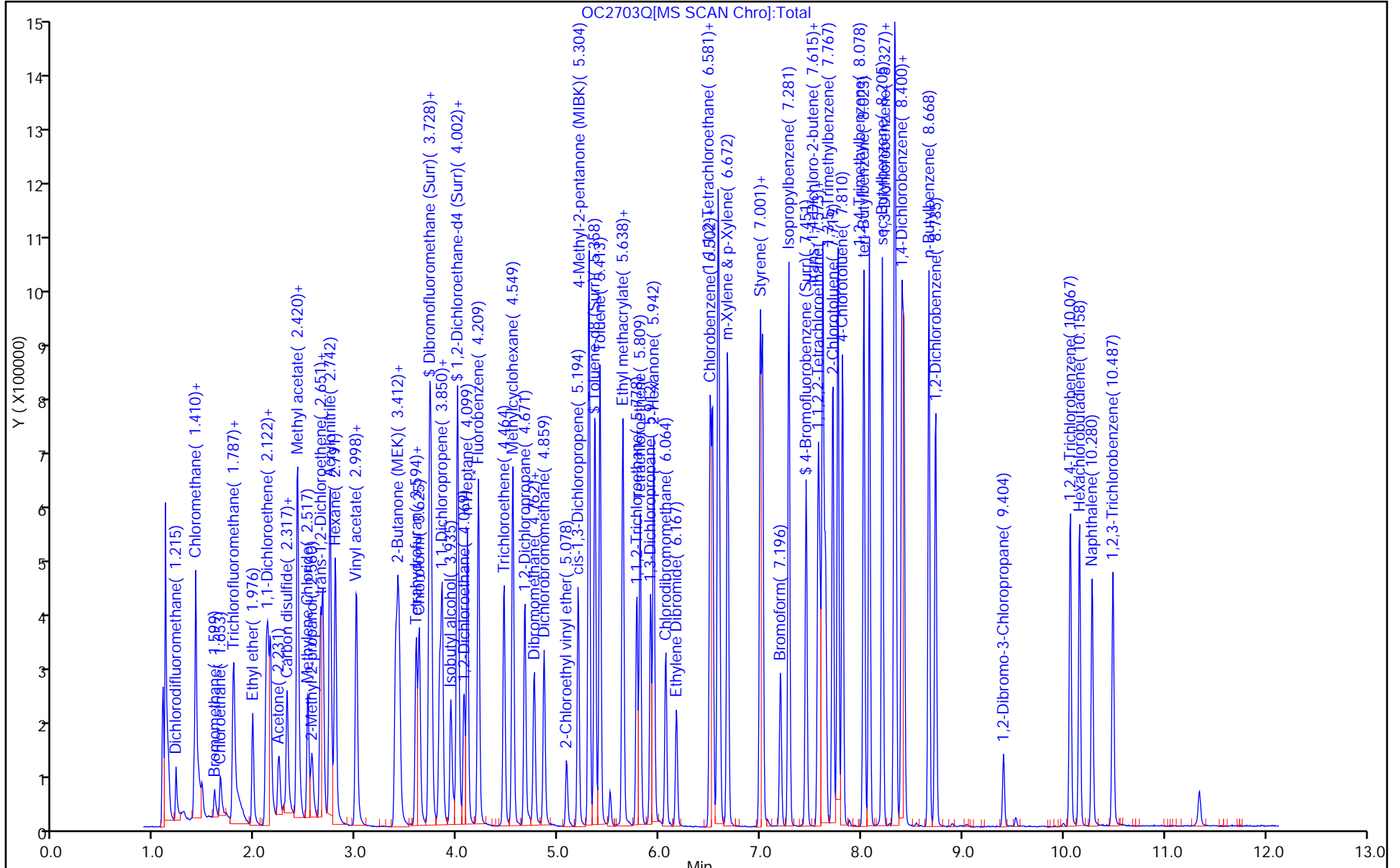
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0301T.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 03-Mar-2015 15:56:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: 680-0017547-001
 Misc. Info.: BFB
 Operator ID: DK Instrument ID: CMSO2
 Method: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 04-Mar-2015 08:51:21 Calib Date: 03-Mar-2015 19:46:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0311.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: beardnr Date: 04-Mar-2015 08:51:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
----------	-----	-----------	---------------	---------------	---	----------	--------------	----------------	-------

\$ 127 BFB

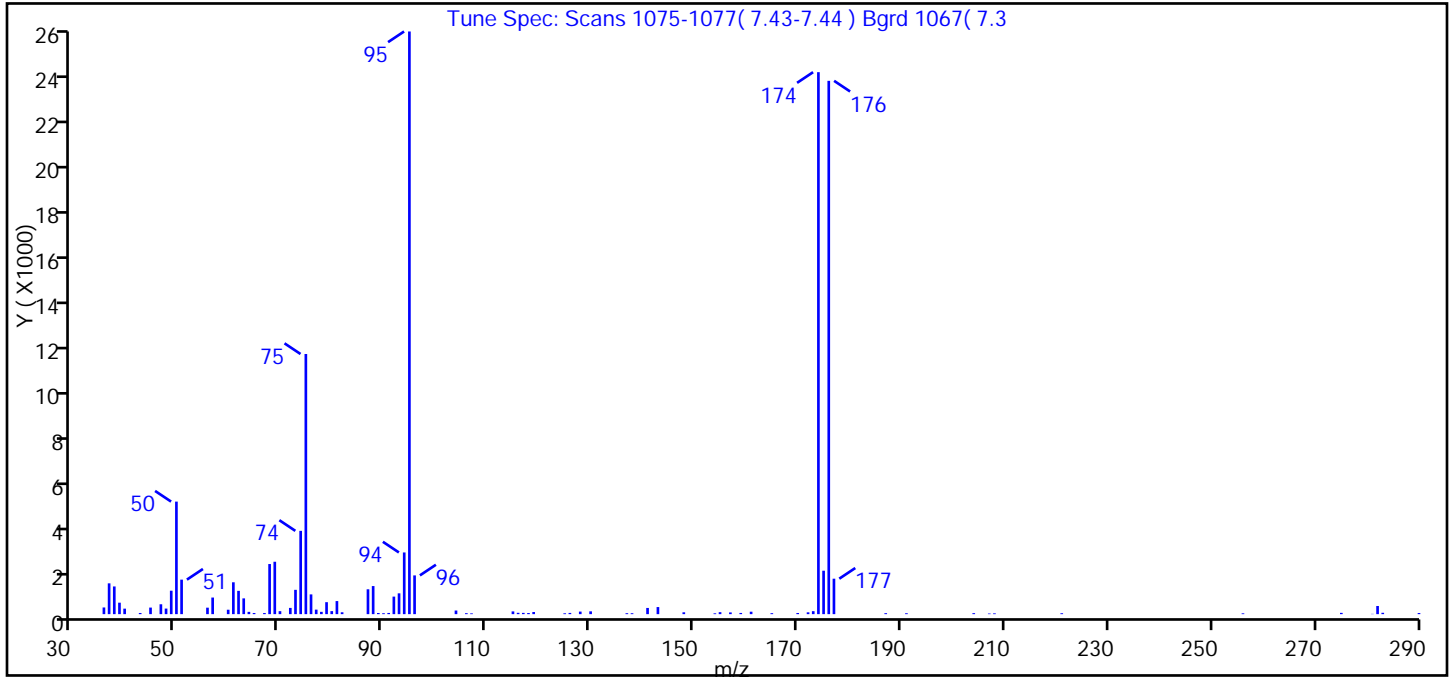
Reagents:

VM_bfb_00098 Amount Added: 2.00 Units: uL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0301T.D
 Injection Date: 03-Mar-2015 15:56:30 Instrument ID: CMSO2
 Lims ID: bfb
 Client ID:
 Operator ID: DK ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 2014_MSO2 Limit Group: 8260B
 Tune Method: BFB Method CLP OLM4.2

\$ 127 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	base peak, 100 percent relative abundance	100
50	8.0-40.0 percent of mass 95	19.3
75	30.0-66.0 percent of mass 95	44.6
96	5.0-9.0 percent of mass 95	6.6
173	less than 2.0 percent of mass 174	0.5 (0.5)
174	50.0-120.0 percent of mass 95	93.0
175	4.0-9.0 percent of mass 174	7.5 (8.0)
176	93.0-101.0 percent of mass 174	91.5 (98.4)
177	5.0-9.0 percent of mass 176	6.1 (6.6)

Data File: \\SAVCHROM\ChromData\CMSO2\20150303-17547.b\OC0301T.D\2014_MS02.rslt\spectra.d
Injection Date: 03-Mar-2015 15:56:30
Spectrum: Tune Spec: Scans 1075-1077(7.43-7.44) Bgrd 1067(7.3
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	290	69.00	2276	96.00	1683	161.00	106
37.00	1338	70.00	129	104.00	157	165.00	42
38.00	1203	72.00	271	106.00	42	170.00	50
39.00	498	73.00	1056	107.00	34	172.00	79
40.00	239	74.00	3618	115.00	119	173.00	129
43.00	50	75.00	11301	116.00	58	174.00	23544
45.00	285	76.00	858	117.00	55	175.00	1887
47.00	429	77.00	196	118.00	48	176.00	23168
48.00	242	78.00	100	119.00	92	177.00	1540
49.00	1019	79.00	520	125.00	37	187.00	42
50.00	4889	80.00	131	126.00	53	191.00	39
51.00	1499	81.00	568	128.00	111	204.00	43
56.00	281	82.00	81	130.00	122	207.00	27
57.00	721	87.00	1080	137.00	41	208.00	34
60.00	192	88.00	1220	138.00	40	221.00	39
61.00	1384	89.00	50	141.00	269	256.00	35
62.00	1012	90.00	40	143.00	308	275.00	56
63.00	685	91.00	52	148.00	80	281.00	12
64.00	99	92.00	762	154.00	36	282.00	354
65.00	49	93.00	904	155.00	86	283.00	59
67.00	48	94.00	2680	157.00	75	290.00	48
68.00	2177	95.00	25312	159.00	52		

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2701T.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 27-Mar-2015 07:45:30 ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: 680-0018211-001
 Misc. Info.: BFB
 Operator ID: JK Instrument ID: CMSO2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 27-Mar-2015 10:44:50 Calib Date: 08-Mar-2015 17:58:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150308-17670.b\OC0811.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tippinsm Date: 27-Mar-2015 10:44:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
----------	-----	-----------	---------------	---------------	---	----------	--------------	----------------	-------

\$ 127 BFB

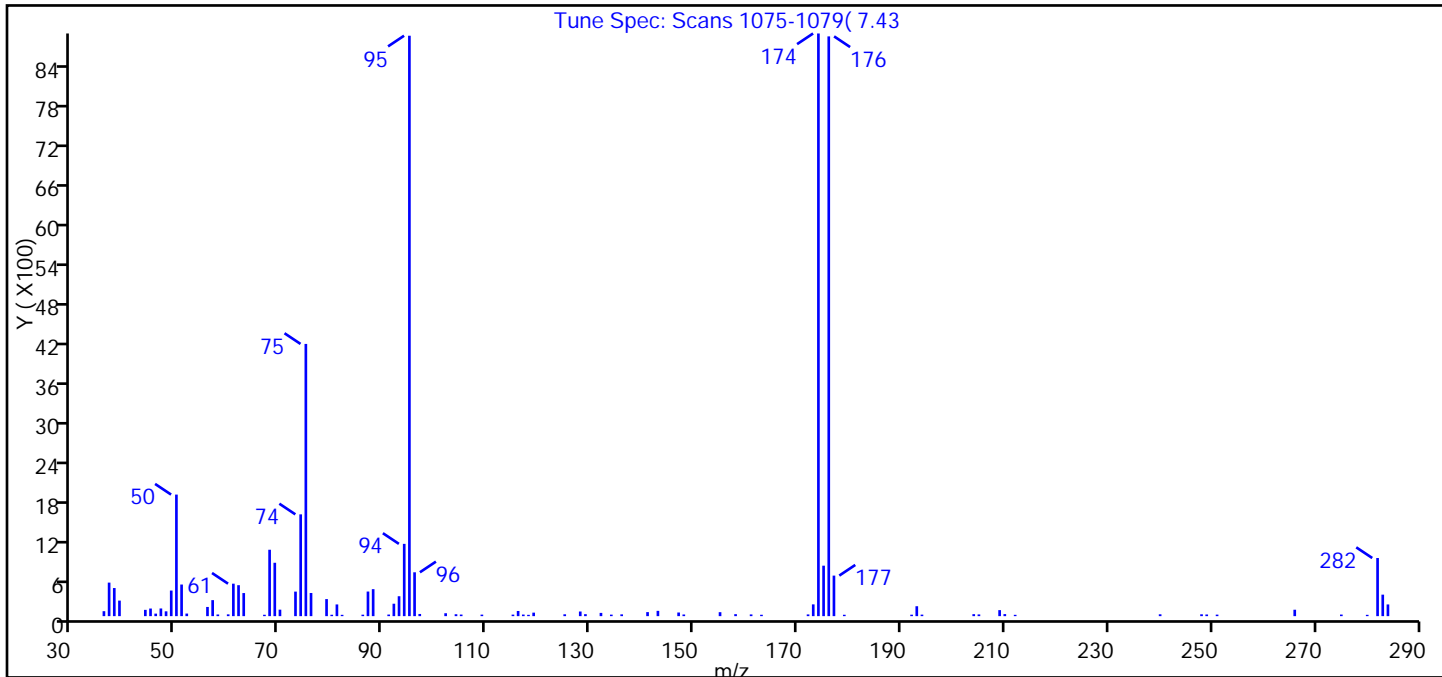
Reagents:

VM_bfb_00098 Amount Added: 2.00 Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2701T.D
 Injection Date: 27-Mar-2015 07:45:30 Instrument ID: CMSO2
 Lims ID: BFB
 Client ID:
 Operator ID: JK ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 2014_MSO2 Limit Group: 8260B
 Tune Method: BFB Method CLP OLM4.2

\$ 127 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	base peak, 100 percent relative abundance	100
50	8.0-40.0 percent of mass 95	20.9
75	30.0-66.0 percent of mass 95	46.9
96	5.0-9.0 percent of mass 95	7.6
173	less than 2.0 percent of mass 174	2.0 (2.0)
174	50.0-120.0 percent of mass 95	100
175	4.0-9.0 percent of mass 174	8.7 (8.7)
176	93.0-101.0 percent of mass 174	99.9 (99.5)
177	5.0-9.0 percent of mass 176	7.0 (7.0)

Data File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2701T.D\2014_MS02.rslt\spectra.d
Injection Date: 27-Mar-2015 07:45:30
Spectrum: Tune Spec: Scans 1075-1079(7.43
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	75	70.00	98	115.00	23	176.00	8766
37.00	507	73.00	371	116.00	78	177.00	613
38.00	425	74.00	1539	117.00	24	179.00	21
39.00	235	75.00	4116	118.00	20	192.00	22
44.00	95	76.00	350	119.00	53	193.00	150
45.00	115	79.00	258	125.00	28	194.00	23
46.00	38	80.00	21	128.00	70	204.00	30
47.00	116	81.00	177	129.00	30	205.00	26
48.00	73	82.00	20	132.00	49	209.00	91
49.00	387	86.00	22	134.00	23	210.00	31
50.00	1838	87.00	372	136.00	27	212.00	20
51.00	478	88.00	408	141.00	61	240.00	28
52.00	39	91.00	24	143.00	80	248.00	28
56.00	139	92.00	188	147.00	55	249.00	25
57.00	242	93.00	301	148.00	25	251.00	23
58.00	25	94.00	1093	155.00	60	266.00	97
60.00	27	95.00	8776	158.00	30	275.00	24
61.00	491	96.00	663	161.00	26	280.00	20
62.00	468	97.00	33	163.00	21	282.00	879
63.00	349	102.00	44	172.00	26	283.00	325
67.00	21	104.00	29	173.00	178	284.00	177
68.00	1004	105.00	24	174.00	8810		
69.00	807	109.00	23	175.00	763		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-376299/9
 Matrix: Water Lab File ID: OC2709Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 11:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
78-93-3	2-Butanone	ND		10	3.4
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
100-41-4	Ethylbenzene	ND		1.0	0.33
591-78-6	2-Hexanone	ND		10	2.0
98-82-8	Isopropylbenzene	ND		1.0	0.35
79-20-9	Methyl acetate	ND		5.0	1.8
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
100-42-5	Styrene	ND		1.0	0.27
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-376299/9
 Matrix: Water Lab File ID: OC2709Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 11:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2709Q.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Mar-2015 11:10:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018211-009
 Misc. Info.: MB
 Operator ID: JK Instrument ID: CMSO2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150327-18211.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 27-Mar-2015 11:48:56 Calib Date: 08-Mar-2015 17:58:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSO2\20150308-17670.b\OC0811.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: kitchingsj Date: 27-Mar-2015 11:48:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.742	3.746	-0.004	98	149628	50.0	49.8	
48 Isooctane	57	3.973	3.966	0.007	73	13527		1.09	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.010	4.008	0.002	97	165574	50.0	48.5	
* 55 Fluorobenzene	96	4.211	4.209	0.002	0	567593	50.0	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.360	5.358	0.002	98	540267	50.0	50.7	
* 81 Chlorobenzene-d5	82	6.504	6.502	0.002	86	228389	50.0	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.453	7.451	0.002	90	205156	50.0	47.8	
* 109 1,4-Dichlorobenzene-d4	152	8.402	8.400	0.002	99	244381	50.0	50.0	
119 Naphthalene	128	10.282	10.280	0.002	96	4323		0.6243	
121 2-Methylnaphthalene	142	11.341	11.351	-0.010	23	989		0.6052	
\$ 127 BFB									

Reagents:

DOD ISSU_00069 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2709Q.D

Injection Date: 27-Mar-2015 11:10:30

Instrument ID: CMSO2

Operator ID: JK

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

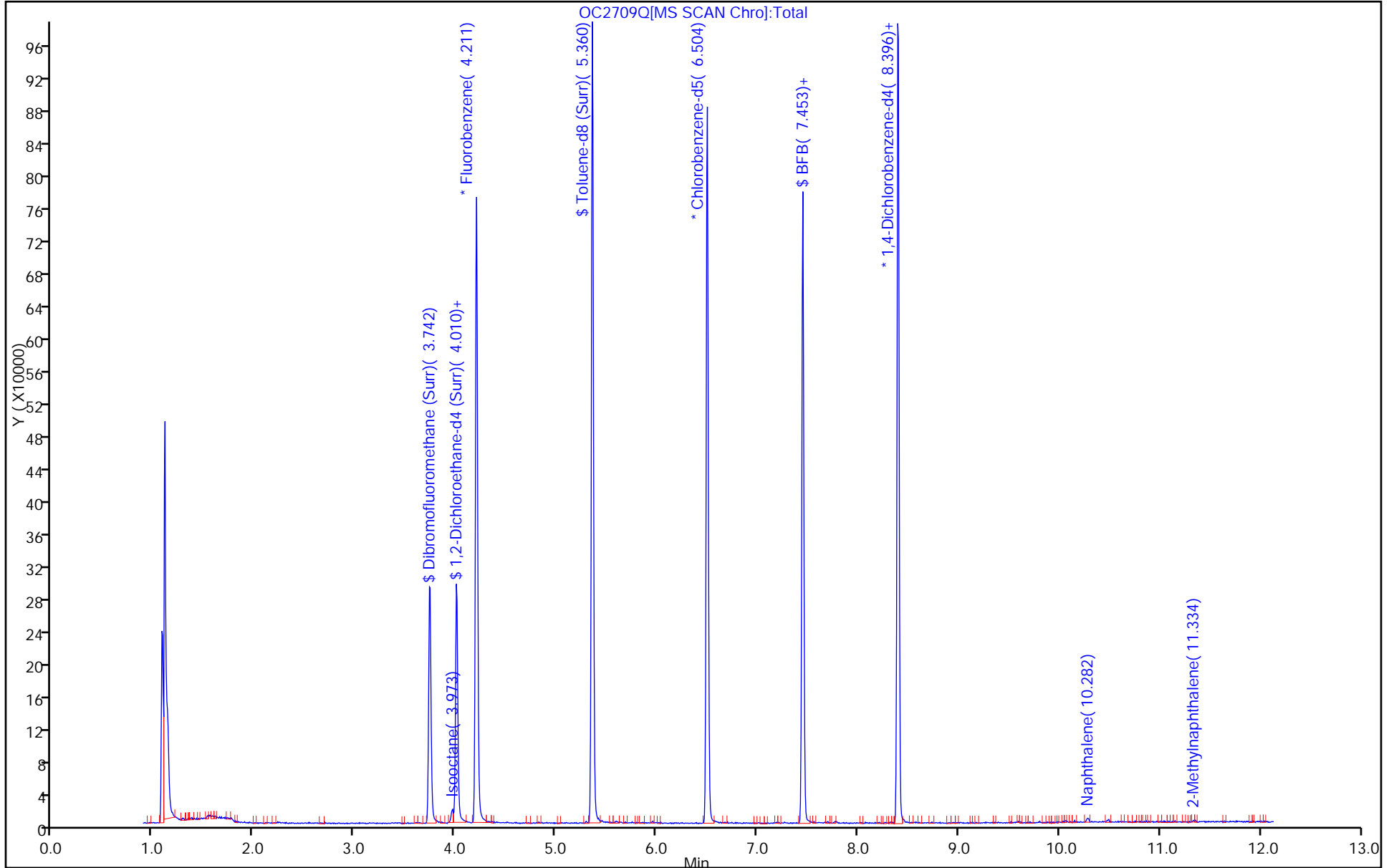
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 2014_MS02

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-376299/4
 Matrix: Water Lab File ID: OC2704Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 09:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	226		10	7.0
71-43-2	Benzene	49.8		1.0	0.43
75-27-4	Bromodichloromethane	49.5		1.0	0.44
75-25-2	Bromoform	49.1		1.0	0.43
74-83-9	Bromomethane	29.0		5.0	2.5
78-93-3	2-Butanone	232		10	3.4
75-15-0	Carbon disulfide	45.7		2.0	1.0
56-23-5	Carbon tetrachloride	49.3		1.0	0.33
108-90-7	Chlorobenzene	50.1		1.0	0.26
75-00-3	Chloroethane	36.5		5.0	2.5
67-66-3	Chloroform	50.1		1.0	0.50
74-87-3	Chloromethane	38.4		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	48.7		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	50.0		1.0	0.40
110-82-7	Cyclohexane	47.1		1.0	0.39
124-48-1	Dibromochloromethane	51.2		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	55.9		5.0	1.1
106-93-4	1,2-Dibromoethane	50.1		1.0	0.44
95-50-1	1,2-Dichlorobenzene	48.6		1.0	0.37
541-73-1	1,3-Dichlorobenzene	48.5		1.0	0.43
106-46-7	1,4-Dichlorobenzene	49.0		1.0	0.46
75-71-8	Dichlorodifluoromethane	32.1		1.0	0.60
75-34-3	1,1-Dichloroethane	49.7		1.0	0.38
107-06-2	1,2-Dichloroethane	51.7		1.0	0.50
75-35-4	1,1-Dichloroethene	44.3		1.0	0.36
78-87-5	1,2-Dichloropropane	48.2		1.0	0.67
100-41-4	Ethylbenzene	49.4		1.0	0.33
591-78-6	2-Hexanone	243		10	2.0
98-82-8	Isopropylbenzene	49.2		1.0	0.35
79-20-9	Methyl acetate	279		5.0	1.8
108-87-2	Methylcyclohexane	46.8		1.0	0.43
75-09-2	Methylene Chloride	47.5		5.0	2.5
108-10-1	4-Methyl-2-pentanone	255		10	2.1
1634-04-4	Methyl tert-butyl ether	49.9		10	0.30
100-42-5	Styrene	47.1		1.0	0.27
79-34-5	1,1,2,2-Tetrachloroethane	51.8		1.0	0.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-376299/4
 Matrix: Water Lab File ID: OC2704Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 09:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	50.2		1.0	0.74
108-88-3	Toluene	48.7		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	47.2		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	52.5		1.0	0.42
120-82-1	1,2,4-Trichlorobenzene	49.7		5.0	2.5
71-55-6	1,1,1-Trichloroethane	48.3		1.0	0.37
79-00-5	1,1,2-Trichloroethane	49.7		1.0	0.33
79-01-6	Trichloroethene	49.8		1.0	0.48
75-69-4	Trichlorofluoromethane	39.3		1.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	43.6		1.0	0.36
75-01-4	Vinyl chloride	45.9		1.0	0.50
1330-20-7	Xylenes, Total	96.3		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2704Q.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Mar-2015 09:02:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018211-004
 Misc. Info.: LCS
 Operator ID: JK Instrument ID: CMSO2
 Method: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 27-Mar-2015 10:42:00 Calib Date: 08-Mar-2015 17:58:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150308-17670.b\OC0811.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: kitchingsj

Date: 27-Mar-2015 10:42:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.217	1.215	0.002	99	85358	50.0	32.1	
2 Vinyl chloride	62	1.393	1.398	-0.005	98	148025	50.0	45.9	
3 Chloromethane	50	1.411	1.410	0.001	95	174943	50.0	38.4	
4 Butadiene	54	1.411	1.410	0.001	96	132479	50.0	42.6	
5 Bromomethane	94	1.594	1.599	-0.005	99	38391	50.0	29.0	
6 Chloroethane	64	1.655	1.653	0.002	100	70976	50.0	36.5	
7 Dichlorofluoromethane	67	1.776	1.781	-0.005	100	236880	50.0	47.6	
8 Trichlorofluoromethane	101	1.788	1.787	0.001	98	148647	50.0	39.3	
10 Ethyl ether	59	1.977	1.976	0.001	92	103330	50.0	48.0	
11 1,1,2-Trichloro-1,2,2-trif	151	2.111	2.110	0.001	96	100981	50.0	43.6	
12 Acrolein	56	2.129	2.128	0.001	97	232750	1000.0	1067.7	
13 1,1-Dichloroethene	96	2.153	2.152	0.001	97	103476	50.0	44.3	
14 Acetone	58	2.232	2.238	-0.006	85	57949	250.0	225.5	
16 Iodomethane	142	2.287	2.286	0.001	98	48339	50.0	12.8	
18 Carbon disulfide	76	2.318	2.317	0.001	99	377975	50.0	45.7	
19 3-Chloro-1-propene	76	2.409	2.414	-0.005	91	83055	50.0	43.6	
20 Methyl acetate	43	2.421	2.420	0.001	99	583198	250.0	278.6	
22 Methylene Chloride	84	2.518	2.517	0.001	97	132381	50.0	47.5	
23 2-Methyl-2-propanol	59	2.561	2.560	0.001	99	110418	500.0	558.9	
24 Methyl tert-butyl ether	73	2.646	2.645	0.001	98	352654	50.0	49.9	
25 trans-1,2-Dichloroethene	96	2.670	2.669	0.001	97	118163	50.0	47.2	
26 Acrylonitrile	53	2.737	2.742	-0.005	94	534120	500.0	520.6	
27 Hexane	57	2.792	2.791	0.001	95	195175	50.0	43.0	
29 1,1-Dichloroethane	63	2.999	2.998	0.001	100	239633	50.0	49.7	
30 Vinyl acetate	43	3.005	3.004	0.001	100	275971	100.0	50.8	
33 2,2-Dichloropropane	77	3.388	3.387	0.001	97	176545	50.0	48.1	
34 cis-1,2-Dichloroethene	61	3.407	3.412	-0.005	96	206088	50.0	48.7	
36 2-Butanone (MEK)	72	3.425	3.430	-0.005	98	68543	250.0	231.7	
38 Chlorobromomethane	130	3.589	3.588	0.001	94	84712	50.0	46.8	
39 Tetrahydrofuran	42	3.595	3.594	0.001	95	81156	100.0	89.0	
41 Chloroform	83	3.620	3.625	-0.005	98	219487	50.0	50.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Cyclohexane	84	3.723	3.722	0.001	96	183765	50.0	47.1	
43 1,1,1-Trichloroethane	97	3.735	3.734	0.001	98	179534	50.0	48.3	
\$ 44 Dibromofluoromethane (Surr	113	3.741	3.746	-0.005	97	124078	50.0	49.1	
45 Carbon tetrachloride	117	3.826	3.825	0.001	97	170612	50.0	49.3	
46 1,1-Dichloropropene	75	3.851	3.850	0.001	95	173411	50.0	51.7	
47 Isobutyl alcohol	43	3.936	3.935	0.001	97	150230	1250.0	1237.6	
50 Benzene	78	3.997	4.002	-0.005	98	504591	50.0	49.8	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.009	4.008	0.001	98	144898	50.0	50.4	
53 1,2-Dichloroethane	62	4.070	4.069	0.001	97	177739	50.0	51.7	
54 n-Heptane	43	4.100	4.099	0.001	96	199713	50.0	41.6	
* 55 Fluorobenzene	96	4.210	4.209	0.001	0	477719	50.0	50.0	
57 Trichloroethene	132	4.465	4.464	0.001	97	140249	50.0	49.8	
59 Methylcyclohexane	83	4.550	4.549	0.001	95	222239	50.0	46.8	
60 1,2-Dichloropropane	63	4.666	4.671	-0.005	89	142077	50.0	48.2	
62 1,4-Dioxane	88	4.751	4.756	-0.005	96	30246	1000.0	1202.4	
63 Dibromomethane	93	4.757	4.762	-0.005	93	86190	50.0	49.0	
64 Dichlorobromomethane	83	4.861	4.859	0.002	99	182480	50.0	49.5	
65 2-Chloroethyl vinyl ether	63	5.080	5.078	0.002	0	43853	50.0	76.3	
67 cis-1,3-Dichloropropene	75	5.195	5.194	0.001	95	225219	50.0	50.0	
68 4-Methyl-2-pentanone (MIBK	43	5.299	5.304	-0.005	98	734476	250.0	255.4	
\$ 69 Toluene-d8 (Surr)	98	5.359	5.358	0.001	98	466308	50.0	48.5	
70 Toluene	92	5.414	5.413	0.001	93	311569	50.0	48.7	
71 trans-1,3-Dichloropropene	75	5.633	5.632	0.001	99	209723	50.0	52.5	
72 Ethyl methacrylate	69	5.645	5.644	0.001	90	177635	50.0	52.3	
73 1,1,2-Trichloroethane	83	5.773	5.778	-0.005	95	111847	50.0	49.7	
74 Tetrachloroethene	164	5.810	5.809	0.002	96	130483	50.0	50.2	
75 1,3-Dichloropropane	76	5.913	5.912	0.001	95	217752	50.0	48.4	
76 2-Hexanone	43	5.943	5.942	0.001	99	488841	250.0	243.2	
78 Chlorodibromomethane	129	6.065	6.064	0.001	98	160939	50.0	51.2	
79 Ethylene Dibromide	107	6.168	6.167	0.001	99	138936	50.0	50.1	
* 81 Chlorobenzene-d5	82	6.503	6.502	0.001	86	205917	50.0	50.0	
82 Chlorobenzene	112	6.527	6.526	0.001	95	376526	50.0	50.1	
83 Ethylbenzene	91	6.582	6.581	0.001	98	638367	50.0	49.4	
84 1,1,1,2-Tetrachloroethane	131	6.594	6.593	0.001	96	144834	50.0	50.6	
85 m-Xylene & p-Xylene	91	6.673	6.672	0.001	91	477134	50.0	48.4	
87 o-Xylene	91	6.996	7.001	-0.005	94	487344	50.0	47.9	
88 Styrene	104	7.020	7.019	0.001	94	386126	50.0	47.1	
89 Bromoform	173	7.197	7.196	0.001	98	127847	50.0	49.1	
90 Isopropylbenzene	105	7.282	7.281	0.001	96	623159	50.0	49.2	
\$ 92 4-Bromofluorobenzene (Surr	95	7.452	7.451	0.001	90	177472	50.0	44.2	
93 Bromobenzene	156	7.574	7.573	0.001	94	181920	50.0	49.1	
94 1,1,2,2-Tetrachloroethane	83	7.592	7.591	0.001	99	183429	50.0	51.8	
95 N-Propylbenzene	91	7.616	7.615	0.001	99	765517	50.0	46.8	
96 1,2,3-Trichloropropane	75	7.641	7.640	0.001	95	204409	50.0	50.5	
97 trans-1,4-Dichloro-2-buten	53	7.647	7.646	0.001	89	48998	50.0	53.6	
98 2-Chlorotoluene	91	7.714	7.719	-0.005	97	436958	50.0	48.1	
99 1,3,5-Trimethylbenzene	105	7.768	7.767	0.001	93	529051	50.0	48.6	
100 4-Chlorotoluene	91	7.811	7.810	0.001	97	463615	50.0	47.6	
103 tert-Butylbenzene	119	8.024	8.023	0.001	95	455823	50.0	48.5	
104 1,2,4-Trimethylbenzene	105	8.079	8.078	0.001	98	536166	50.0	48.4	
106 sec-Butylbenzene	105	8.206	8.205	0.001	99	684850	50.0	48.6	
107 4-Isopropyltoluene	119	8.328	8.327	0.001	97	574061	50.0	46.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	8.340	8.339	0.001	97	338404	50.0	48.5	
* 109 1,4-Dichlorobenzene-d4	152	8.401	8.400	0.001	98	228719	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.419	8.418	0.001	96	350193	50.0	49.0	
113 n-Butylbenzene	91	8.669	8.668	0.001	98	530763	50.0	47.0	
114 1,2-Dichlorobenzene	146	8.736	8.735	0.001	97	322452	50.0	48.6	
115 1,2-Dibromo-3-Chloropropan	157	9.405	9.404	0.001	93	40655	50.0	55.9	
117 1,2,4-Trichlorobenzene	180	10.068	10.067	0.001	94	210996	50.0	49.7	
118 Hexachlorobutadiene	225	10.159	10.158	0.001	98	121557	50.0	47.0	
119 Naphthalene	128	10.281	10.280	0.001	99	408720	50.0	63.1	
120 1,2,3-Trichlorobenzene	180	10.488	10.487	0.001	95	174697	50.0	53.0	
S 122 1,2-Dichloroethene, Total	1				0		100.0	95.9	
S 123 Xylenes, Total	1				0		100.0	96.3	
S 124 1,3-Dichloropropene, Total	1				0		100.0	102.5	

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_MMIX_01720	Amount Added: 5.00	Units: uL
VM_Acrolein_00028	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2704Q.D

Injection Date: 27-Mar-2015 09:02:30

Instrument ID: CMSO2

Operator ID: JK

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

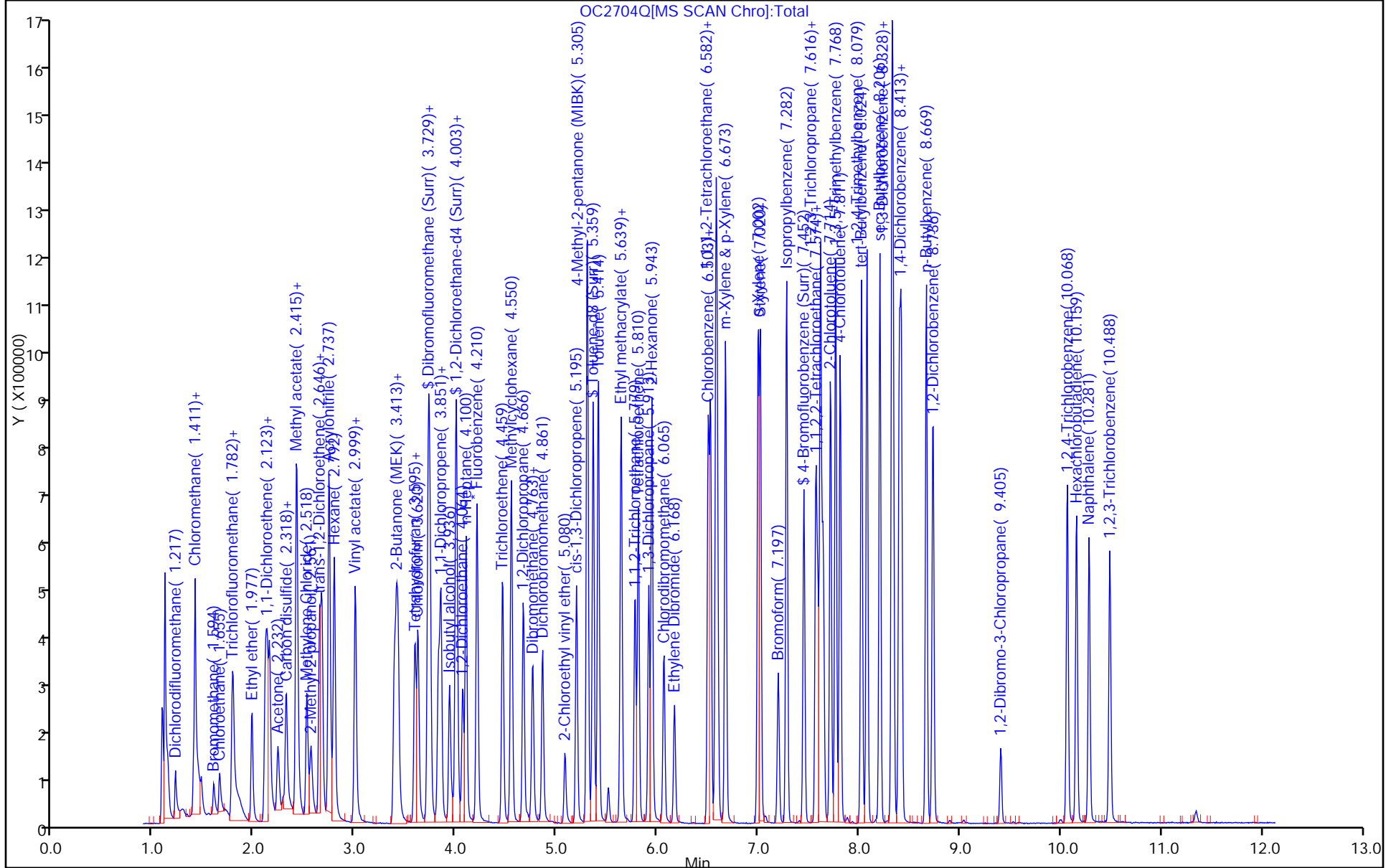
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-376299/5
 Matrix: Water Lab File ID: OC2705Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 09:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	217		10	7.0
71-43-2	Benzene	50.7		1.0	0.43
75-27-4	Bromodichloromethane	49.0		1.0	0.44
75-25-2	Bromoform	50.1		1.0	0.43
74-83-9	Bromomethane	34.0		5.0	2.5
78-93-3	2-Butanone	231		10	3.4
75-15-0	Carbon disulfide	47.2		2.0	1.0
56-23-5	Carbon tetrachloride	51.6		1.0	0.33
108-90-7	Chlorobenzene	50.0		1.0	0.26
75-00-3	Chloroethane	39.7		5.0	2.5
67-66-3	Chloroform	50.5		1.0	0.50
74-87-3	Chloromethane	39.1		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	49.7		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	48.5		1.0	0.40
110-82-7	Cyclohexane	50.4		1.0	0.39
124-48-1	Dibromochloromethane	49.1		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	56.3		5.0	1.1
106-93-4	1,2-Dibromoethane	49.2		1.0	0.44
95-50-1	1,2-Dichlorobenzene	49.4		1.0	0.37
541-73-1	1,3-Dichlorobenzene	49.2		1.0	0.43
106-46-7	1,4-Dichlorobenzene	49.4		1.0	0.46
75-71-8	Dichlorodifluoromethane	34.0		1.0	0.60
75-34-3	1,1-Dichloroethane	50.6		1.0	0.38
107-06-2	1,2-Dichloroethane	50.1		1.0	0.50
75-35-4	1,1-Dichloroethene	46.1		1.0	0.36
78-87-5	1,2-Dichloropropane	49.0		1.0	0.67
100-41-4	Ethylbenzene	49.9		1.0	0.33
591-78-6	2-Hexanone	245		10	2.0
98-82-8	Isopropylbenzene	51.3		1.0	0.35
79-20-9	Methyl acetate	277		5.0	1.8
108-87-2	Methylcyclohexane	49.9		1.0	0.43
75-09-2	Methylene Chloride	48.3		5.0	2.5
108-10-1	4-Methyl-2-pentanone	256		10	2.1
1634-04-4	Methyl tert-butyl ether	49.8		10	0.30
100-42-5	Styrene	48.5		1.0	0.27
79-34-5	1,1,2,2-Tetrachloroethane	52.2		1.0	0.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-376299/5
 Matrix: Water Lab File ID: OC2705Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 09:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376299 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	49.9		1.0	0.74
108-88-3	Toluene	49.7		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	50.1		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	52.4		1.0	0.42
120-82-1	1,2,4-Trichlorobenzene	49.7		5.0	2.5
71-55-6	1,1,1-Trichloroethane	51.1		1.0	0.37
79-00-5	1,1,2-Trichloroethane	49.1		1.0	0.33
79-01-6	Trichloroethene	50.0		1.0	0.48
75-69-4	Trichlorofluoromethane	52.1		1.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	47.4		1.0	0.36
75-01-4	Vinyl chloride	48.1		1.0	0.50
1330-20-7	Xylenes, Total	99.0		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2705Q.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 27-Mar-2015 09:24:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018211-005
 Misc. Info.: LCSD
 Operator ID: JK Instrument ID: CMSO2
 Method: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\2014_MS02.m
 Limit Group: 8260B
 Last Update: 27-Mar-2015 10:44:40 Calib Date: 08-Mar-2015 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150308-17670.b\OC0811.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tippinsm

Date: 27-Mar-2015 10:44:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.215	1.215	0.000	99	92748	50.0	34.0	
2 Vinyl chloride	62	1.398	1.398	0.000	98	158949	50.0	48.1	M
3 Chloromethane	50	1.410	1.410	0.000	97	182692	50.0	39.1	
4 Butadiene	54	1.410	1.410	0.000	98	146572	50.0	45.9	
5 Bromomethane	94	1.599	1.599	0.000	99	46125	50.0	34.0	
6 Chloroethane	64	1.654	1.653	0.001	99	79264	50.0	39.7	
7 Dichlorofluoromethane	67	1.775	1.781	-0.006	99	252122	50.0	49.4	
8 Trichlorofluoromethane	101	1.787	1.787	0.000	98	202076	50.0	52.1	
10 Ethyl ether	59	1.976	1.976	0.000	92	102738	50.0	46.6	
11 1,1,2-Trichloro-1,2,2-trif	151	2.110	2.110	0.000	96	112339	50.0	47.4	
12 Acrolein	56	2.128	2.128	0.000	96	234170	1000.0	1047.9	
13 1,1-Dichloroethene	96	2.152	2.152	0.000	97	110443	50.0	46.1	
14 Acetone	58	2.231	2.238	-0.007	86	57246	250.0	217.3	
16 Iodomethane	142	2.286	2.286	0.000	97	53796	50.0	13.9	
18 Carbon disulfide	76	2.317	2.317	0.000	99	399810	50.0	47.2	
19 3-Chloro-1-propene	76	2.414	2.414	0.000	90	93031	50.0	47.7	
20 Methyl acetate	43	2.420	2.420	0.000	100	594293	250.0	277.0	
22 Methylene Chloride	84	2.517	2.517	0.000	96	138027	50.0	48.3	
23 2-Methyl-2-propanol	59	2.560	2.560	0.000	99	112205	500.0	554.0	
24 Methyl tert-butyl ether	73	2.645	2.645	0.000	97	360659	50.0	49.8	
25 trans-1,2-Dichloroethene	96	2.669	2.669	0.000	96	128345	50.0	50.1	
26 Acrylonitrile	53	2.742	2.742	0.000	94	534382	500.0	508.1	
27 Hexane	57	2.791	2.791	0.000	94	211305	50.0	45.4	
29 1,1-Dichloroethane	63	2.998	2.998	0.000	99	249790	50.0	50.6	
30 Vinyl acetate	43	3.004	3.004	0.000	100	276191	100.0	49.6	
33 2,2-Dichloropropane	77	3.387	3.387	0.000	97	191419	50.0	50.8	
34 cis-1,2-Dichloroethene	61	3.412	3.412	0.000	96	215790	50.0	49.7	
36 2-Butanone (MEK)	72	3.430	3.430	0.000	98	70184	250.0	231.4	
38 Chlorobromomethane	130	3.588	3.588	0.000	94	86554	50.0	46.6	
39 Tetrahydrofuran	42	3.594	3.594	0.000	96	83025	100.0	88.9	
41 Chloroform	83	3.625	3.625	0.000	98	226772	50.0	50.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Cyclohexane	84	3.722	3.722	0.000	95	201356	50.0	50.4	
43 1,1,1-Trichloroethane	97	3.734	3.734	0.000	99	194618	50.0	51.1	
\$ 44 Dibromofluoromethane (Surr	113	3.746	3.746	0.000	97	129223	50.0	49.9	
45 Carbon tetrachloride	117	3.825	3.825	0.000	98	183130	50.0	51.6	
46 1,1-Dichloropropene	75	3.850	3.850	0.000	95	186753	50.0	54.3	
47 Isobutyl alcohol	43	3.935	3.935	0.000	96	160984	1250.0	1293.7	
50 Benzene	78	4.002	4.002	0.000	98	527102	50.0	50.7	
\$ 51 1,2-Dichloroethane-d4 (Sur	65	4.008	4.008	0.000	97	142907	50.0	48.5	
53 1,2-Dichloroethane	62	4.069	4.069	0.000	97	176463	50.0	50.1	
54 n-Heptane	43	4.099	4.099	0.000	97	219207	50.0	44.5	
* 55 Fluorobenzene	96	4.209	4.209	0.000	0	489694	50.0	50.0	
57 Trichloroethene	132	4.464	4.464	0.000	97	144303	50.0	50.0	
59 Methylcyclohexane	83	4.549	4.549	0.000	95	243142	50.0	49.9	
60 1,2-Dichloropropane	63	4.671	4.671	0.000	90	148094	50.0	49.0	
62 1,4-Dioxane	88	4.750	4.756	-0.006	99	28950	1000.0	1122.8	
63 Dibromomethane	93	4.762	4.762	0.000	92	87270	50.0	48.4	
64 Dichlorobromomethane	83	4.859	4.859	0.000	99	185247	50.0	49.0	
65 2-Chloroethyl vinyl ether	63	5.079	5.078	0.000	0	47907	50.0	80.7	
67 cis-1,3-Dichloropropene	75	5.194	5.194	0.000	96	224130	50.0	48.5	
68 4-Methyl-2-pentanone (MIBK	43	5.304	5.304	0.000	98	755657	250.0	256.4	
\$ 69 Toluene-d8 (Surr)	98	5.364	5.358	0.006	98	482011	50.0	50.1	
70 Toluene	92	5.413	5.413	0.000	93	326236	50.0	49.7	
71 trans-1,3-Dichloropropene	75	5.632	5.632	0.000	98	214235	50.0	52.4	
72 Ethyl methacrylate	69	5.644	5.644	0.000	87	183723	50.0	52.8	
73 1,1,2-Trichloroethane	83	5.778	5.778	0.000	95	113299	50.0	49.1	
74 Tetrachloroethene	164	5.809	5.809	0.001	97	132928	50.0	49.9	
75 1,3-Dichloropropane	76	5.912	5.912	0.000	96	217482	50.0	47.2	
76 2-Hexanone	43	5.942	5.942	0.000	99	505700	250.0	245.4	
78 Chlorodibromomethane	129	6.064	6.064	0.000	98	158247	50.0	49.1	
79 Ethylene Dibromide	107	6.167	6.167	0.000	97	139761	50.0	49.2	
* 81 Chlorobenzene-d5	82	6.502	6.502	0.000	85	205997	50.0	50.0	
82 Chlorobenzene	112	6.526	6.526	0.000	94	375642	50.0	50.0	
83 Ethylbenzene	91	6.581	6.581	0.000	98	645022	50.0	49.9	
84 1,1,1,2-Tetrachloroethane	131	6.593	6.593	0.000	95	147053	50.0	51.4	
85 m-Xylene & p-Xylene	91	6.672	6.672	0.000	91	490206	50.0	49.7	
87 o-Xylene	91	7.001	7.001	0.000	94	502416	50.0	49.3	
88 Styrene	104	7.019	7.019	0.000	94	397541	50.0	48.5	
89 Bromoform	173	7.202	7.196	0.006	99	130594	50.0	50.1	
90 Isopropylbenzene	105	7.281	7.281	0.000	96	649860	50.0	51.3	
\$ 92 4-Bromofluorobenzene (Surr	95	7.451	7.451	0.000	90	181429	50.0	43.7	
93 Bromobenzene	156	7.573	7.573	0.000	93	183117	50.0	49.4	
94 1,1,2,2-Tetrachloroethane	83	7.591	7.591	0.000	99	184851	50.0	52.2	
95 N-Propylbenzene	91	7.615	7.615	0.000	99	802262	50.0	49.0	
96 1,2,3-Trichloropropane	75	7.640	7.640	0.000	95	212890	50.0	52.6	
97 trans-1,4-Dichloro-2-buten	53	7.646	7.646	0.000	91	49270	50.0	53.9	
98 2-Chlorotoluene	91	7.719	7.719	0.000	97	448978	50.0	49.4	
99 1,3,5-Trimethylbenzene	105	7.767	7.767	0.000	93	551674	50.0	50.6	
100 4-Chlorotoluene	91	7.810	7.810	0.000	97	472904	50.0	48.6	
103 tert-Butylbenzene	119	8.023	8.023	0.000	95	471591	50.0	50.2	
104 1,2,4-Trimethylbenzene	105	8.078	8.078	0.000	98	561876	50.0	50.7	
106 sec-Butylbenzene	105	8.205	8.205	0.000	99	722962	50.0	51.3	
107 4-Isopropyltoluene	119	8.327	8.327	0.000	98	614667	50.0	48.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	8.339	8.339	0.000	98	354653	50.0	49.2	
* 109 1,4-Dichlorobenzene-d4	152	8.400	8.400	0.000	98	236073	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.418	8.418	0.000	96	364511	50.0	49.4	
113 n-Butylbenzene	91	8.668	8.668	0.000	98	571057	50.0	49.0	
114 1,2-Dichlorobenzene	146	8.735	8.735	0.000	98	338868	50.0	49.4	
115 1,2-Dibromo-3-Chloropropan	157	9.404	9.404	0.000	94	42259	50.0	56.3	
117 1,2,4-Trichlorobenzene	180	10.067	10.067	0.000	94	217769	50.0	49.7	
118 Hexachlorobutadiene	225	10.158	10.158	0.000	98	121893	50.0	45.6	
119 Naphthalene	128	10.280	10.280	0.000	99	426881	50.0	63.8	
120 1,2,3-Trichlorobenzene	180	10.487	10.487	0.000	95	179293	50.0	52.7	
S 122 1,2-Dichloroethene, Total	1				0		100.0	99.8	
S 123 Xylenes, Total	1				0		100.0	99.0	
S 124 1,3-Dichloropropene, Total	1				0		100.0	100.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

DOD ISTD_00031	Amount Added: 5.00	Units: uL
VM_MMIX_01720	Amount Added: 5.00	Units: uL
VM_Acrolein_00028	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2705Q.D

Injection Date: 27-Mar-2015 09:24:30

Instrument ID: CMSO2

Operator ID: JK

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

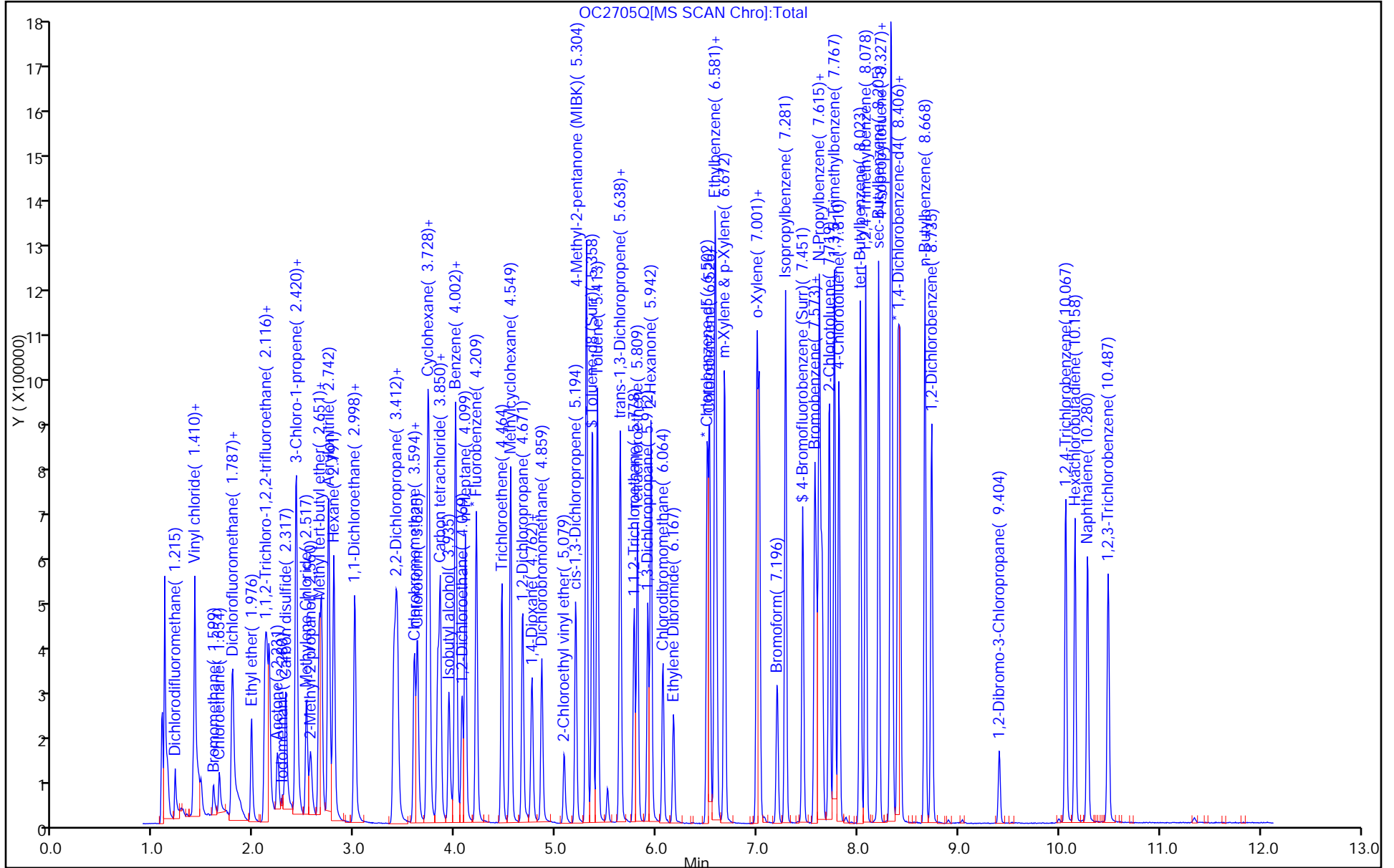
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 2014_MSO2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



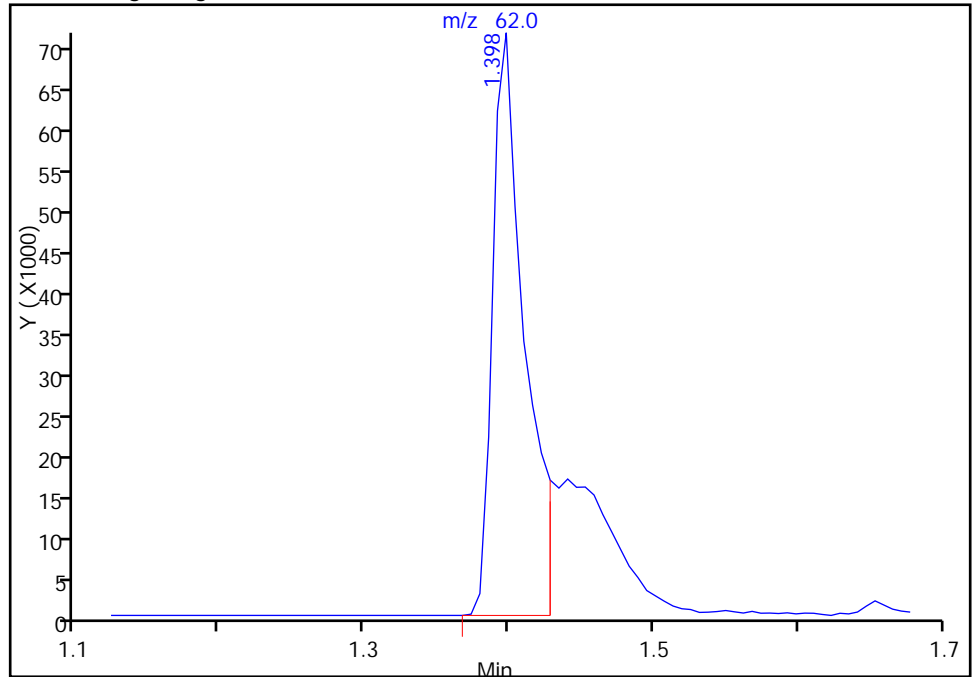
TestAmerica Savannah

Data File: \\ChromNAI\g1\Savannah\ChromData\CMSO2\20150327-18211.b\OC2705Q.D
Injection Date: 27-Mar-2015 09:24:30 Instrument ID: CMSO2
Lims ID: LCSD
Client ID:
Operator ID: JK ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 2014_MSO2 Limit Group: 8260B
Column: Rtx-624 (0.18 mm) Detector: MS SCAN

2 Vinyl chloride, CAS: 75-01-4

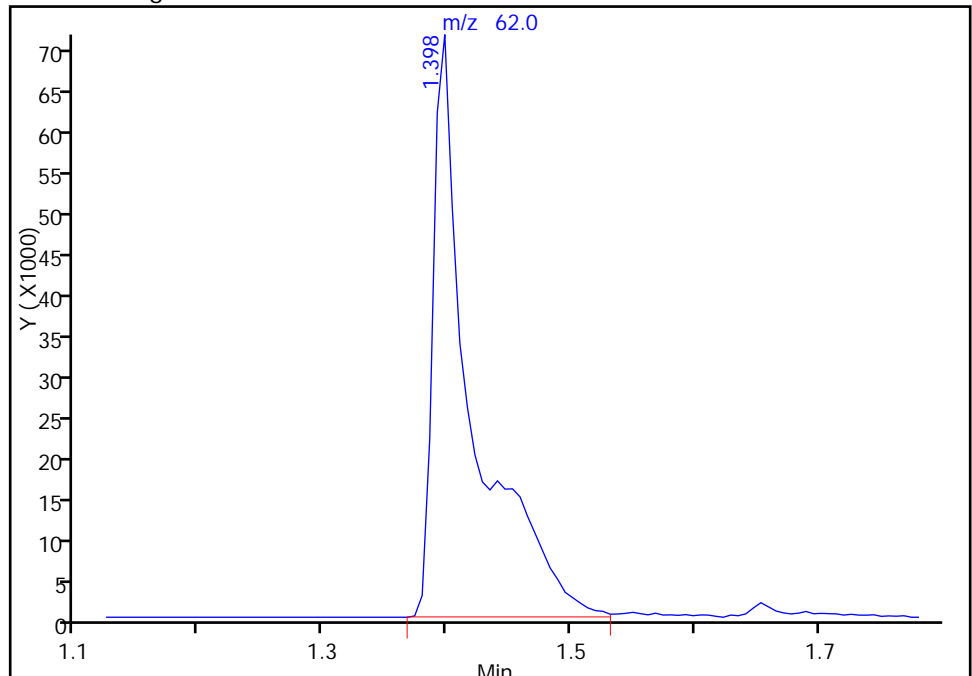
RT: 1.40
Area: 111571
Amount: 33.758049
Amount Units: ug/l

Processing Integration Results



RT: 1.40
Area: 158949
Amount: 48.093215
Amount Units: ug/l

Manual Integration Results



Reviewer: tippinsm, 27-Mar-2015 10:44:40
Audit Action: Assigned New Baseline
Audit Reason: Baseline

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: CMSO2 Start Date: 03/03/2015 15:56Analysis Batch Number: 373126 End Date: 03/03/2015 20:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 680-373126/1		03/03/2015 15:56	1	OC0301T.D	Rtx-624 0.18 (mm)
IC 680-373126/4		03/03/2015 17:10	1	OC0304.D	Rtx-624 0.18 (mm)
IC 680-373126/5		03/03/2015 17:32	1	OC0305.D	Rtx-624 0.18 (mm)
IC 680-373126/6		03/03/2015 17:55	1	OC0306.D	Rtx-624 0.18 (mm)
IC 680-373126/7		03/03/2015 18:17	1	OC0307.D	Rtx-624 0.18 (mm)
IC 680-373126/8		03/03/2015 18:39	1	OC0308.D	Rtx-624 0.18 (mm)
ICIS 680-373126/9		03/03/2015 19:02	1	OC0309.D	Rtx-624 0.18 (mm)
IC 680-373126/10		03/03/2015 19:24	1	OC0310.D	Rtx-624 0.18 (mm)
IC 680-373126/11		03/03/2015 19:46	1	OC0311.D	Rtx-624 0.18 (mm)
ICV 680-373126/13		03/03/2015 20:31	1	OC0313.D	Rtx-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica SavannahJob No.: 680-110742-1

SDG No.: _____

Instrument ID: CMSO2Start Date: 03/27/2015 07:45Analysis Batch Number: 376299End Date: 03/27/2015 18:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 680-376299/1		03/27/2015 07:45	1	OC2701T.D	Rtx-624 0.18 (mm)
CCV 680-376299/2		03/27/2015 08:17	1		Rtx-624 0.18 (mm)
CCVIS 680-376299/3		03/27/2015 08:39	1	OC2703Q.D	Rtx-624 0.18 (mm)
LCS 680-376299/4		03/27/2015 09:02	1	OC2704Q.D	Rtx-624 0.18 (mm)
LCSD 680-376299/5		03/27/2015 09:24	1	OC2705Q.D	Rtx-624 0.18 (mm)
MB 680-376299/9		03/27/2015 11:10	1	OC2709Q.D	Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 11:38	1		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 12:00	1		Rtx-624 0.18 (mm)
680-110742-4	25LM00026	03/27/2015 12:23	1	OC2712.D	Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 12:45	1		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 13:08	1		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 13:30	10		Rtx-624 0.18 (mm)
680-110742-1	25LM20112	03/27/2015 13:53	1	OC2716.D	Rtx-624 0.18 (mm)
680-110742-3	25LM20117	03/27/2015 14:15	1	OC2717.D	Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 14:38	1		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 15:00	5		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 15:23	100		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 15:45	200		Rtx-624 0.18 (mm)
680-110742-2	25LM20116	03/27/2015 16:21	1	OC2722.D	Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 16:44	20		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 17:06	2		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 17:29	50		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 18:14	1		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 18:36	1		Rtx-624 0.18 (mm)
ZZZZZ		03/27/2015 18:59	1		Rtx-624 0.18 (mm)

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: Uc1806.d

Lab ID: LCS 680-375077/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	288	296	103	75-125	
Ethene	269	279	104	75-125	
Methane	154	164	107	75-125	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: Uc1823.d

Lab ID: LCSD 680-375077/23 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethane	288	300	104	2	30	75-125	
Ethene	269	277	103	1	30	75-125	
Methane	154	170	111	4	30	75-125	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: MB 680-375077/8
 Matrix: Water Date Extracted: _____
 Lab File ID:(1) Uc1807.d Lab File ID:(2) _____
 Date Analyzed:(1) 03/18/2015 11:11 Date Analyzed:(2) _____
 Instrument ID:(1) CVGU Instrument ID:(2) _____
 GC Column:(1) RESTEK RTU PL ID: 0.32 (mm) GC Column:(2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-375077/6	03/18/2015 10:58	
25LM20112	680-110742-1	03/18/2015 15:33	
25LM20116	680-110742-2	03/18/2015 15:46	
25LM20117	680-110742-3	03/18/2015 15:59	
	LCSD 680-375077/23	03/18/2015 17:12	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20112 Lab Sample ID: 680-110742-1
 Matrix: Water Lab File ID: Uc1820.d
 Analysis Method: RSK-175 Date Collected: 03/17/2015 11:08
 Sample wt/vol: 17(mL) Date Analyzed: 03/18/2015 15:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375077 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		1.1	0.55
74-85-1	Ethene	ND		1.0	0.50
74-82-8	Methane	0.96		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1820.d
 Lims ID: 680-110742-G-1 Lab Sample ID: 680-110742-1
 Client ID: 25LM20112
 Sample Type: Client
 Inject. Date: 18-Mar-2015 15:33:18 ALS Bottle#: 59 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017952-020
 Operator ID: Instrument ID: CVGU
 Method: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 19-Mar-2015 10:02:56 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK047

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

3 Methane

1	1.646	1.647	-0.001	48044	0.9643	
---	-------	-------	--------	-------	--------	--

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1820.d

Injection Date: 18-Mar-2015 15:33:18

Instrument ID: CVGU

Operator ID:

Lims ID: 680-110742-G-1

Lab Sample ID: 680-110742-1

Worklist Smp#: 20

Client ID: 25LM20112

Purge Vol: 5.000 mL

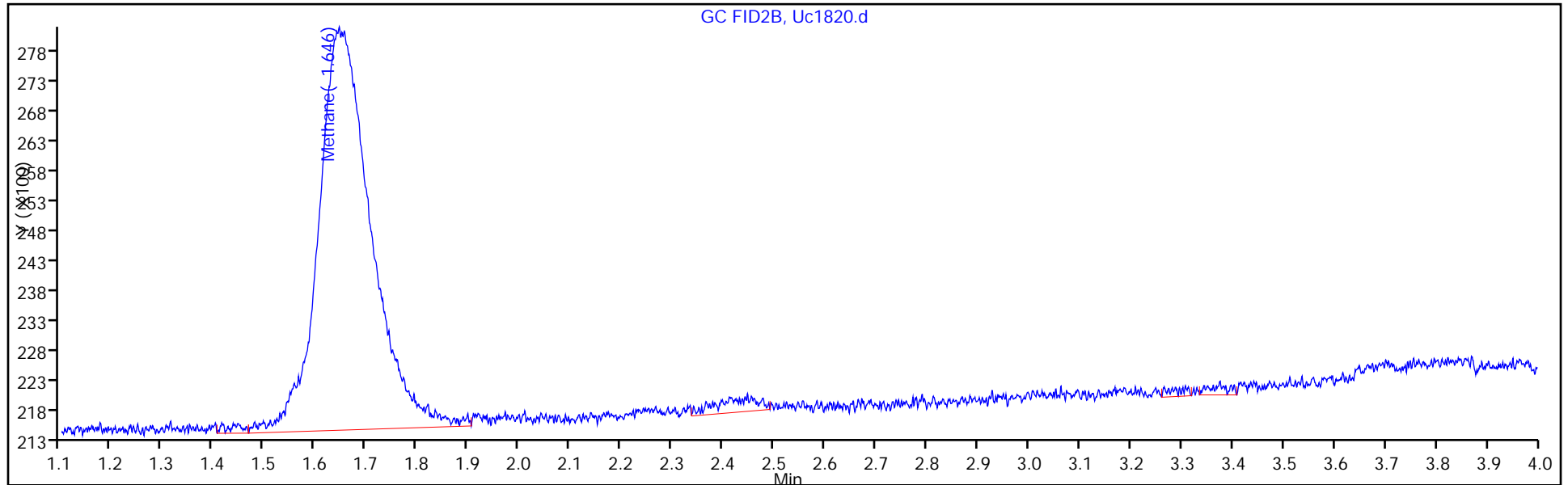
Dil. Factor: 1.0000

ALS Bottle#: 59

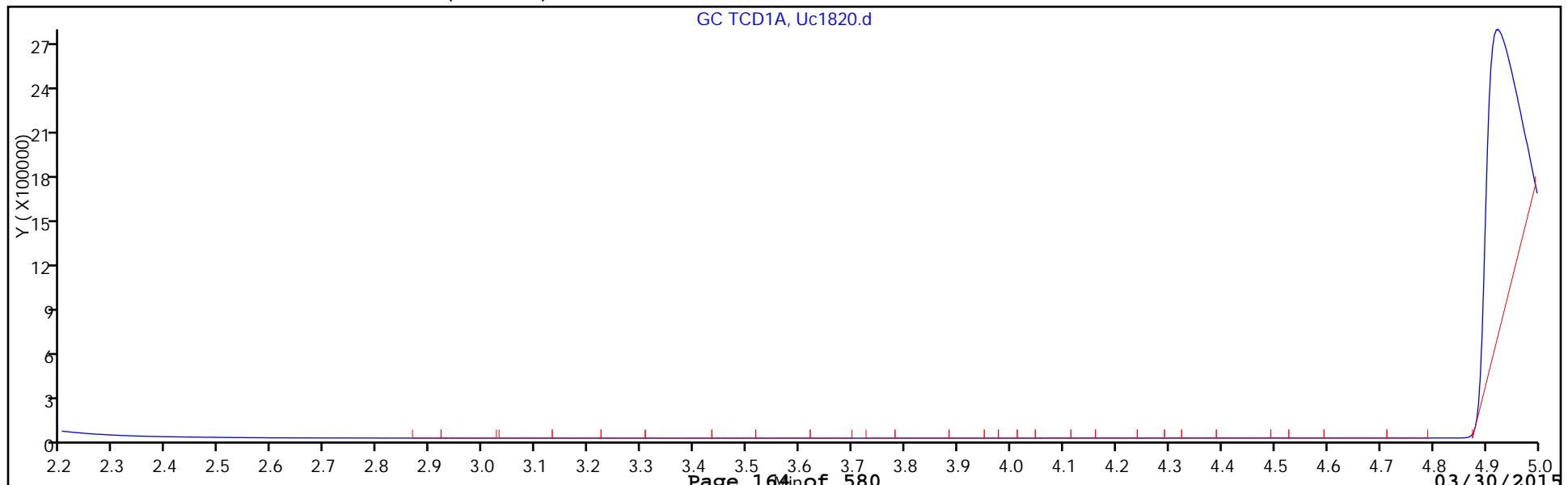
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20116 Lab Sample ID: 680-110742-2
 Matrix: Water Lab File ID: Uc1821.d
 Analysis Method: RSK-175 Date Collected: 03/17/2015 13:02
 Sample wt/vol: 17(mL) Date Analyzed: 03/18/2015 15:46
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375077 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		1.1	0.55
74-85-1	Ethene	ND		1.0	0.50
74-82-8	Methane	0.80		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1821.d
 Lims ID: 680-110742-G-2 Lab Sample ID: 680-110742-2
 Client ID: 25LM20116
 Sample Type: Client
 Inject. Date: 18-Mar-2015 15:46:11 ALS Bottle#: 60 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017952-021
 Operator ID: Instrument ID: CVGU
 Method: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 19-Mar-2015 10:02:56 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK047

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

3 Methane
 1 1.645 1.647 -0.002 39782 0.7985

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1821.d

Injection Date: 18-Mar-2015 15:46:11

Instrument ID: CVGU

Operator ID:

Lims ID: 680-110742-G-2

Lab Sample ID: 680-110742-2

Worklist Smp#: 21

Client ID: 25LM20116

Purge Vol: 5.000 mL

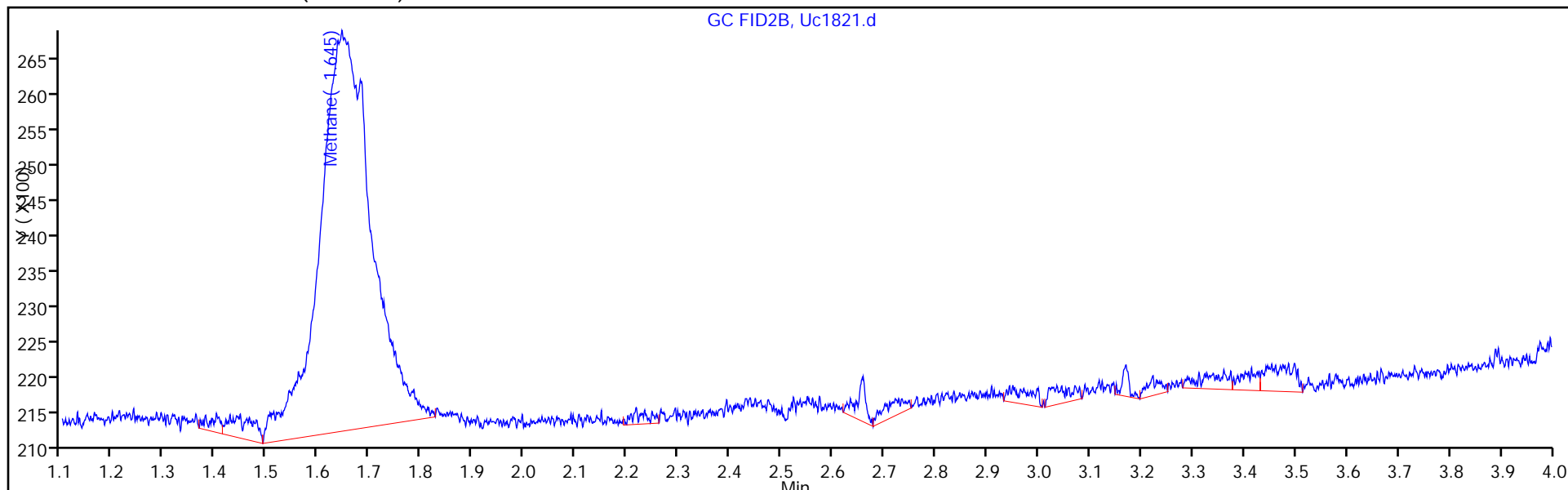
Dil. Factor: 1.0000

ALS Bottle#: 60

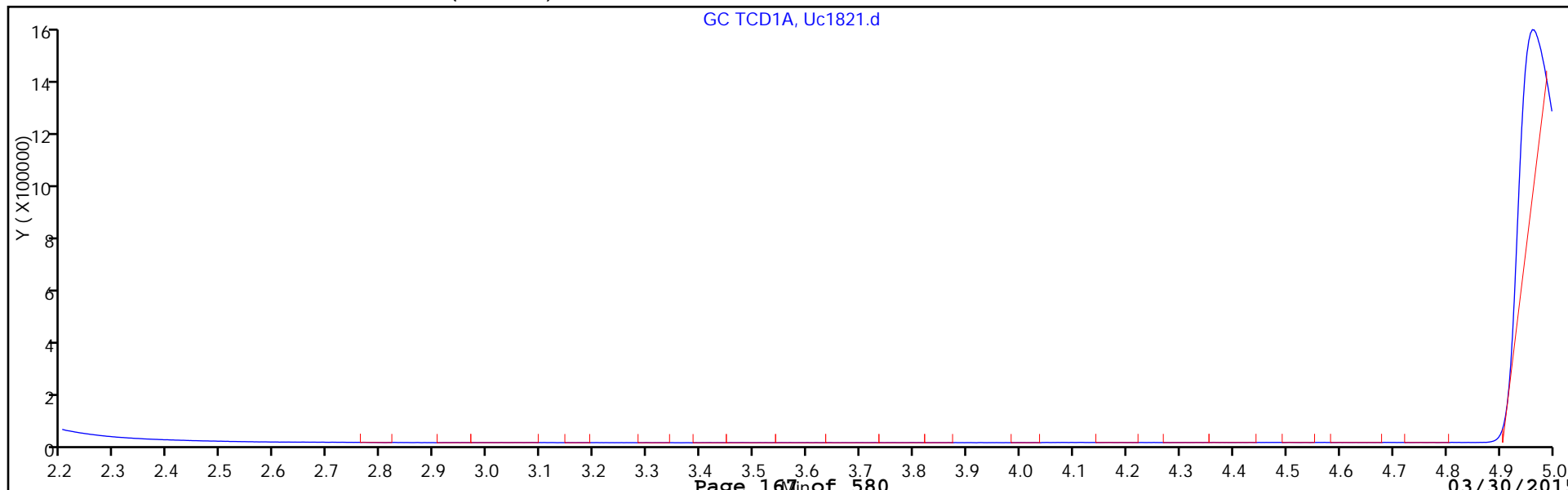
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20117 Lab Sample ID: 680-110742-3
 Matrix: Water Lab File ID: Uc1822.d
 Analysis Method: RSK-175 Date Collected: 03/17/2015 14:51
 Sample wt/vol: 17(mL) Date Analyzed: 03/18/2015 15:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375077 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		1.1	0.55
74-85-1	Ethene	ND		1.0	0.50
74-82-8	Methane	0.54	J	0.58	0.29

TestAmerica Savannah
 Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1822.d
 Lims ID: 680-110742-G-3 Lab Sample ID: 680-110742-3
 Client ID: 25LM20117
 Sample Type: Client
 Inject. Date: 18-Mar-2015 15:59:01 ALS Bottle#: 61 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017952-022
 Operator ID: Instrument ID: CVGU

Method: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 19-Mar-2015 10:02:56 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d

Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK047

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

3 Methane
 1 1.642 1.647 -0.005 26912 0.5402

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1822.d

Injection Date: 18-Mar-2015 15:59:01

Instrument ID: CVGU

Operator ID:

Lims ID: 680-110742-G-3

Lab Sample ID: 680-110742-3

Worklist Smp#: 22

Client ID: 25LM20117

Purge Vol: 5.000 mL

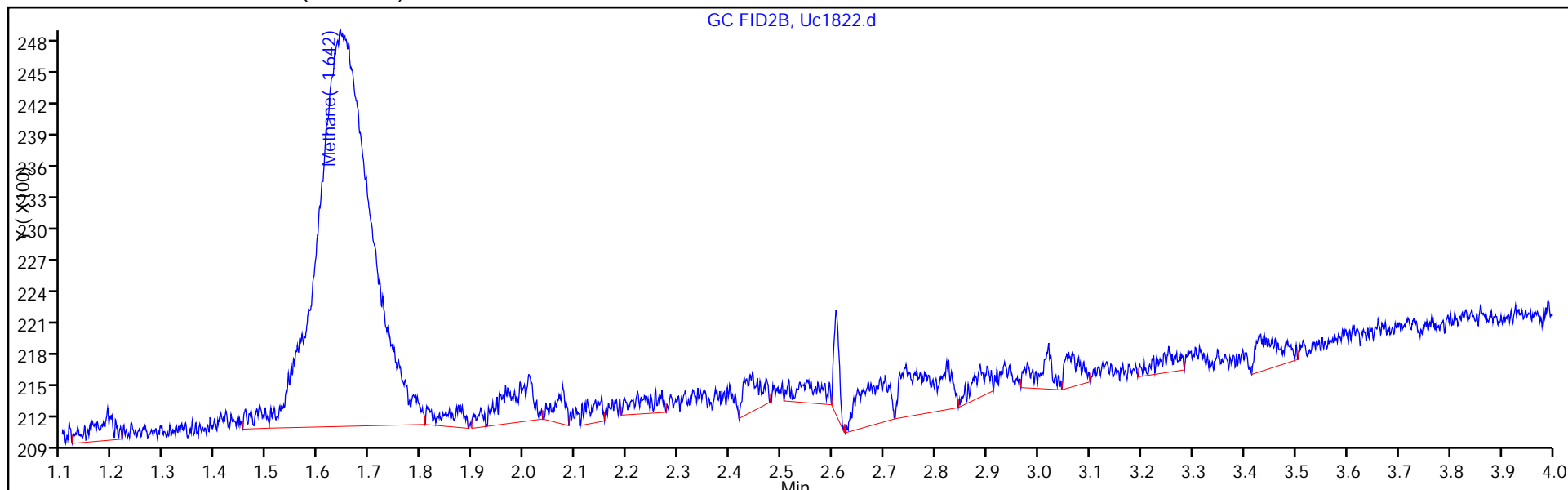
Dil. Factor: 1.0000

ALS Bottle#: 61

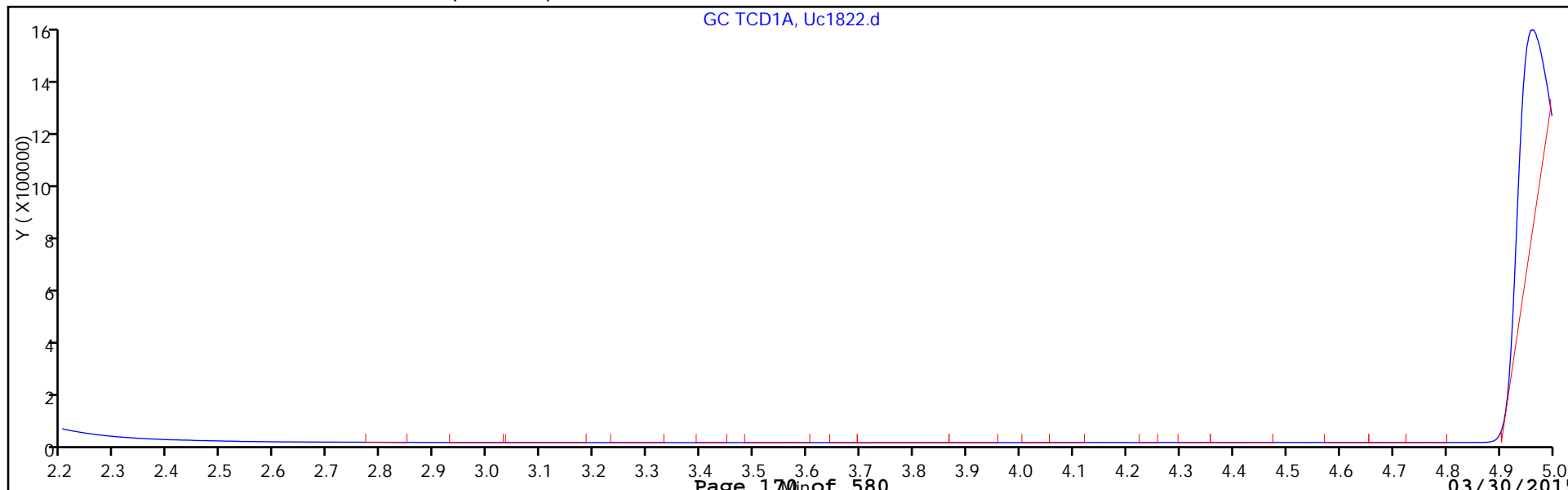
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1 Analy Batch No.: 374176

SDG No.: _____

Instrument ID: CVGU GC Column: RESTEK RTU F ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 12:07 Calibration End Date: 03/11/2015 15:18 Calibration ID: 38045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-374176/11	Uc1121.d
Level 2	IC 680-374176/10	Uc1120.d
Level 3	IC 680-374176/9	Uc1119.d
Level 4	IC 680-374176/5	Uc1115.d
Level 5	IC 680-374176/12	Uc1122.d
Level 6	IC 680-374176/4	Uc1114.d
Level 7	IC 680-374176/3	Uc1113.d
Level 8	IC 680-374176/2	Uc1112.d
Level 9	IC 680-374176/1	Uc1111.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	RT WINDOW	AVG RT
Methane	1.644	1.645	1.648	1.649	1.646	1.644	1.647	1.650	1.646	1.614 - 1.680	1.647
Ethene	2.250	2.254	2.255	2.254	2.254	2.250	2.252	2.252	2.248	2.207 - 2.297	2.252
Ethane	2.430	2.427	2.426	2.429	2.427	2.424	2.424	2.424	2.419	2.376 - 2.473	2.426

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-110742-1 Analy Batch No.: 374176

SDG No.: _____

Instrument ID: CVGU GC Column: RESTEK RTU F ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 12:07 Calibration End Date: 03/11/2015 15:18 Calibration ID: 38045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-374176/11	Uc1121.d
Level 2	IC 680-374176/10	Uc1120.d
Level 3	IC 680-374176/9	Uc1119.d
Level 4	IC 680-374176/5	Uc1115.d
Level 5	IC 680-374176/12	Uc1122.d
Level 6	IC 680-374176/4	Uc1114.d
Level 7	IC 680-374176/3	Uc1113.d
Level 8	IC 680-374176/2	Uc1112.d
Level 9	IC 680-374176/1	Uc1111.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	73535 28097 50009	57953 65984	52326 49831	98699 48858	LinF		49822.5248							0.9940		0.9900
Ethene	58624 29820 47963	47856 62216	46962 48035	93587 46773	Ave		48531.1011			19.8			25.0			
Ethane	63499 34470 51595	52203 67778	49768 53006	101340 50443	Ave		52845.0546			18.8			25.0			

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

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-110742-1 Analy Batch No.: 374176

SDG No.: _____

Instrument ID: CVGU GC Column: RESTEK RTU P ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 12:07 Calibration End Date: 03/11/2015 15:18 Calibration ID: 38045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-374176/11	Uc1121.d
Level 2	IC 680-374176/10	Uc1120.d
Level 3	IC 680-374176/9	Uc1119.d
Level 4	IC 680-374176/5	Uc1115.d
Level 5	IC 680-374176/12	Uc1122.d
Level 6	IC 680-374176/4	Uc1114.d
Level 7	IC 680-374176/3	Uc1113.d
Level 8	IC 680-374176/2	Uc1112.d
Level 9	IC 680-374176/1	Uc1111.d

ANALYTE	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
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methane	LinF	42391	83521	150821	3795836	1080588	0.576	1.44	2.88	38.5	38.5
		5075315	7665832	15032184	19232820		76.9	154	308	385	
Ethene	Ave	59314	121048	237573	6299512	2007228	1.01	2.53	5.06	67.3	67.3
		8375737	12933174	25186721	32284906		135	269	538	673	
Ethane	Ave	68728	141254	269334	7308428	2485862	1.08	2.71	5.41	72.1	72.1
		9775967	15290555	29102650	37209015		144	288	577	721	

Curve Type Legend:

Ave = Average
LinF = Linear forced zero

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1111.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 11-Mar-2015 12:07:52 ALS Bottle#: 1 Worklist Smp#: 1
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-001
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:34:52 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.646	1.647	-0.001	19232820	384.6	386.0	
2 Ethylene							
1	2.248	2.252	-0.004	32284906	673.1	665.2	
1 Ethane							
1	2.419	2.424	-0.005	37209015	721.2	704.1	

Reagents:

RSK 23462_00031 Amount Added: 1.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1111.d

Injection Date: 11-Mar-2015 12:07:52

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 1

Client ID:

Purge Vol: 5.000 mL

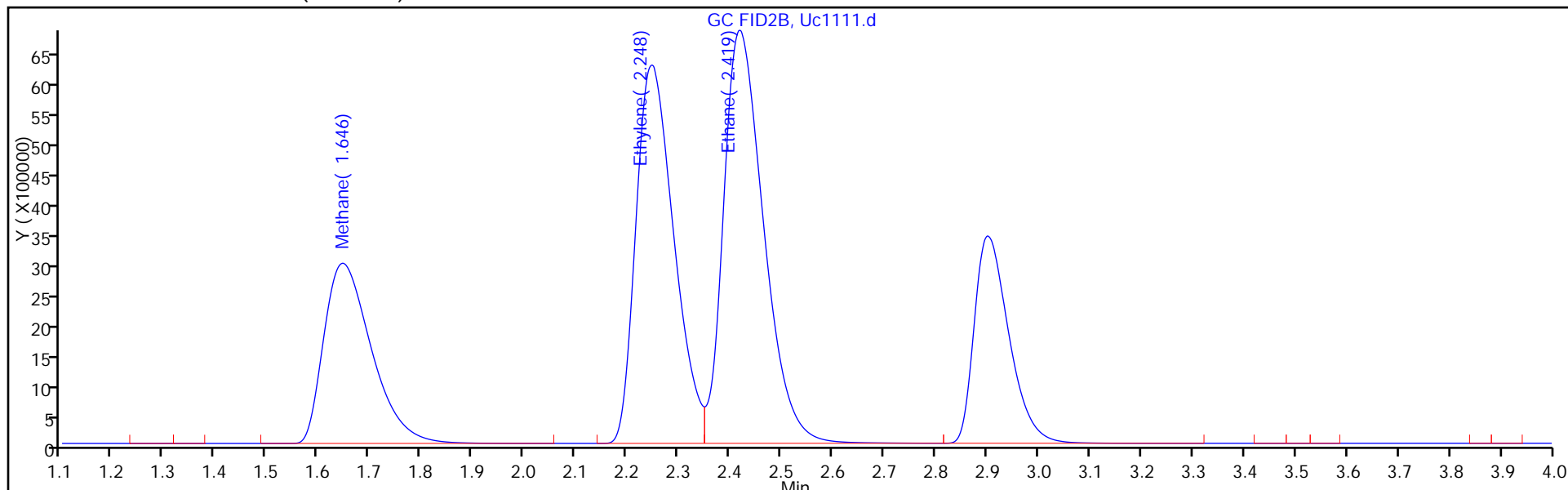
Dil. Factor: 1.0000

ALS Bottle#: 1

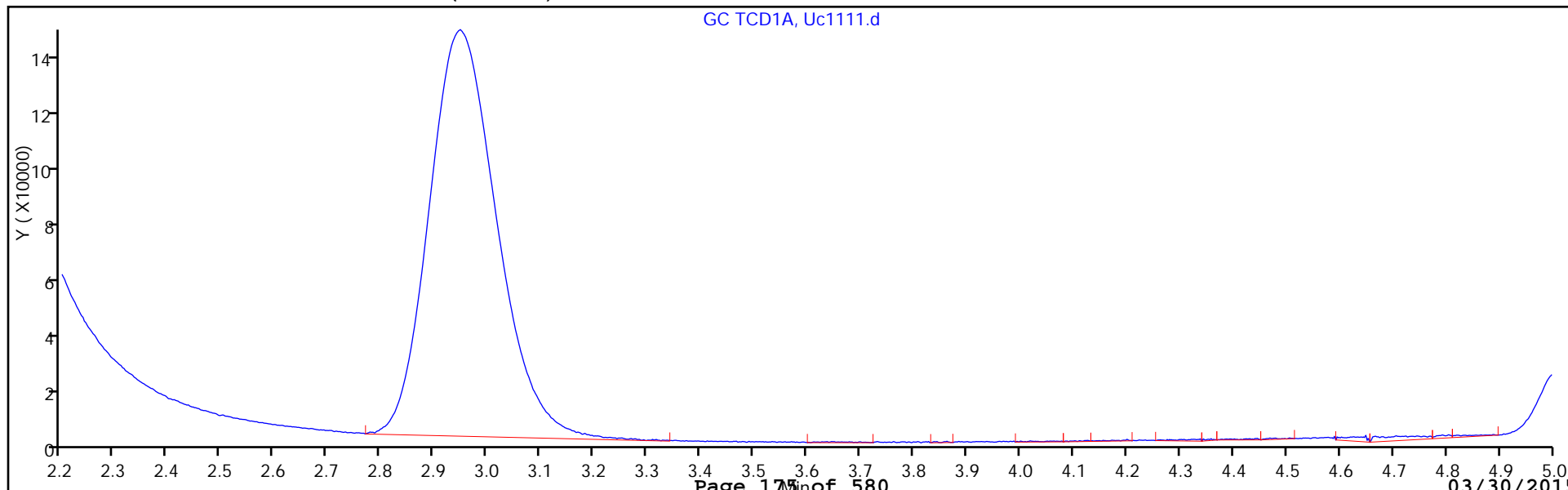
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1112.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-Mar-2015 12:20:43 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-002
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:34:53 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.650	1.647	0.003	15032184	307.7	301.7	
2 Ethylene							
1	2.252	2.252	0.000	25186721	538.5	519.0	
1 Ethane							
1	2.424	2.424	0.000	29102650	576.9	550.7	

Reagents:

RSK 23462_00031 Amount Added: 0.80 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1112.d

Injection Date: 11-Mar-2015 12:20:43

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

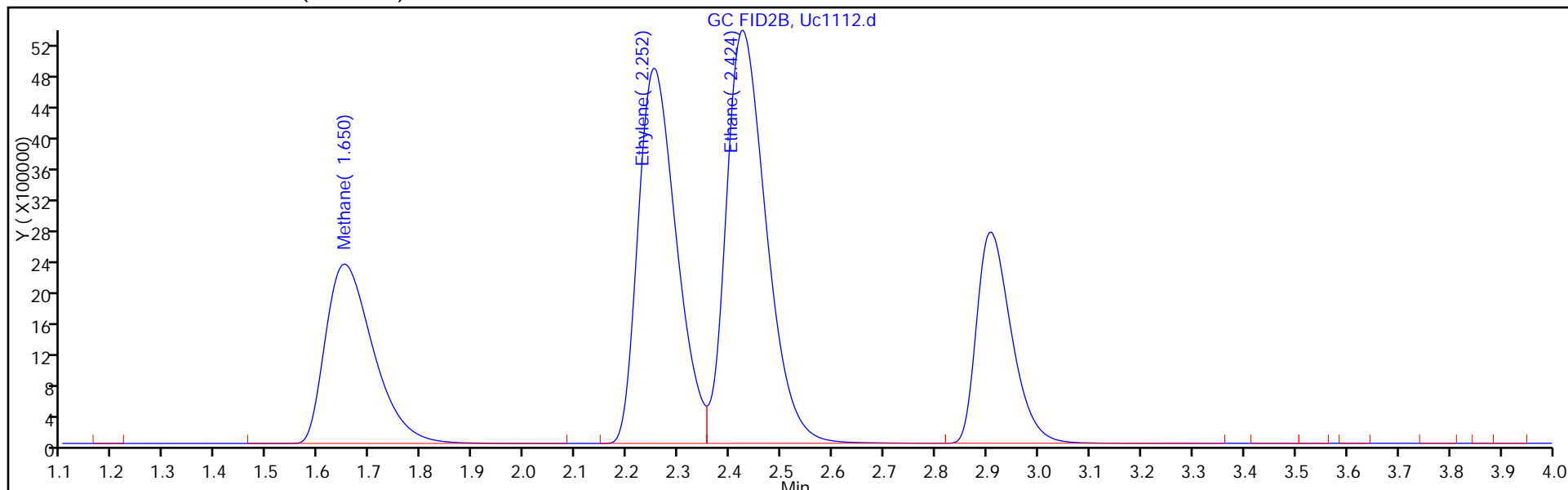
Dil. Factor: 1.0000

ALS Bottle#: 2

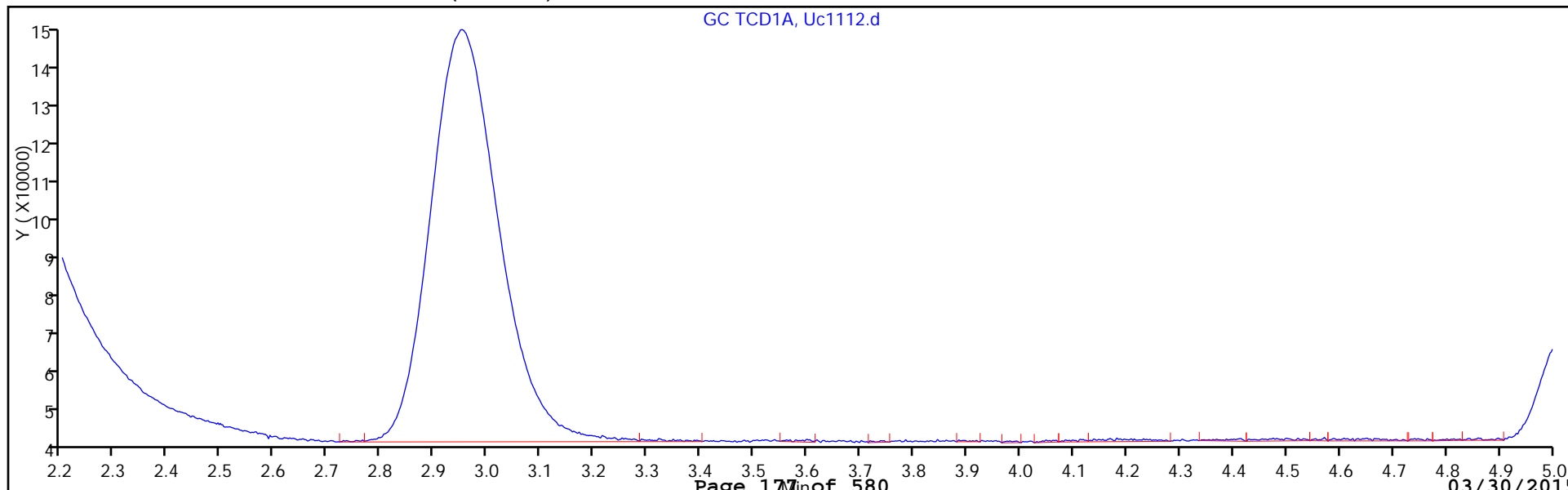
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1113.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-Mar-2015 12:33:34 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-003
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:34:53 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.647	1.647	0.000	7665832	153.8	153.9	
2 Ethylene							
1	2.252	2.252	0.000	12933174	269.2	266.5	
1 Ethane							
1	2.424	2.424	0.000	15290555	288.5	289.3	

Reagents:

RSK 23462_00031 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1113.d

Injection Date: 11-Mar-2015 12:33:34

Instrument ID: CVGU

Operator ID:

Lims ID: IC

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

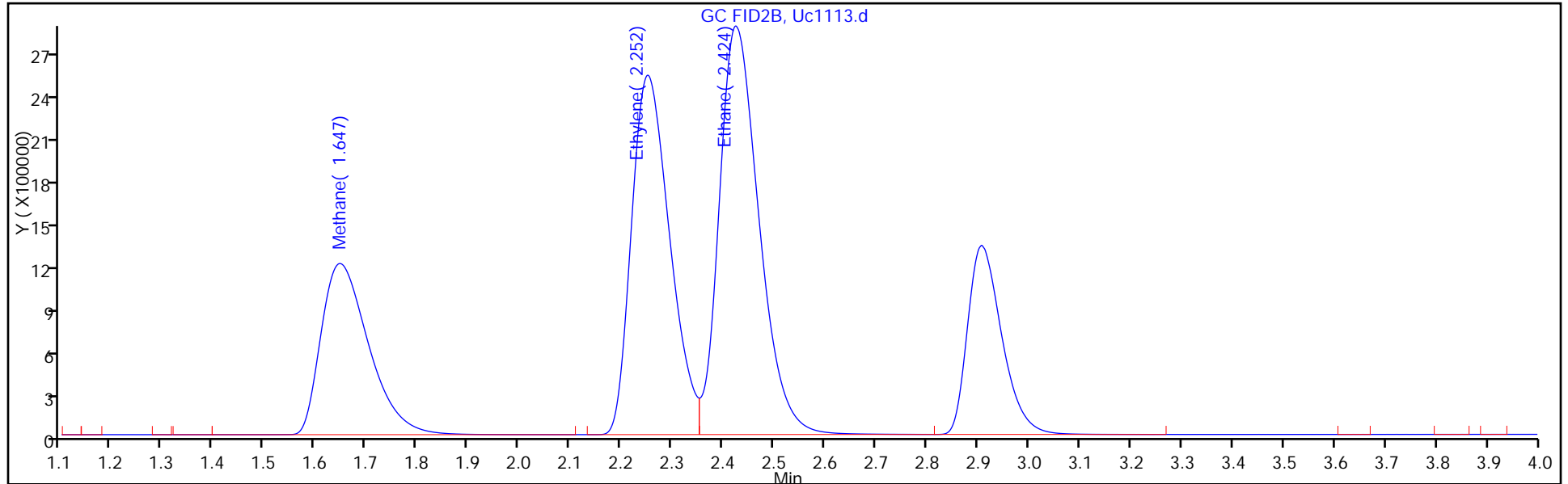
Dil. Factor: 1.0000

ALS Bottle#: 3

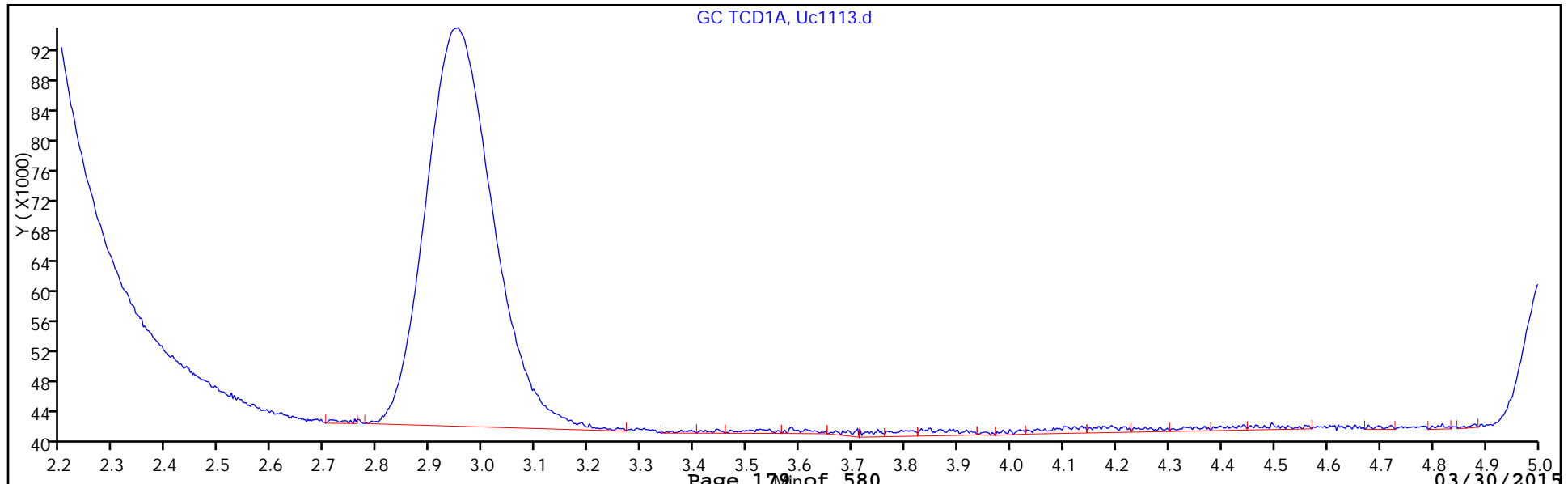
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1114.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Mar-2015 12:46:25 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-004
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:34:54 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.644	1.647	-0.003	5075315	76.9	101.9	
2 Ethylene							
1	2.250	2.252	-0.002	8375737	134.6	172.6	
1 Ethane							
1	2.424	2.424	0.000	9775967	144.2	185.0	

Reagents:

RSK 23462_00031 Amount Added: 0.20 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1114.d

Injection Date: 11-Mar-2015 12:46:25

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

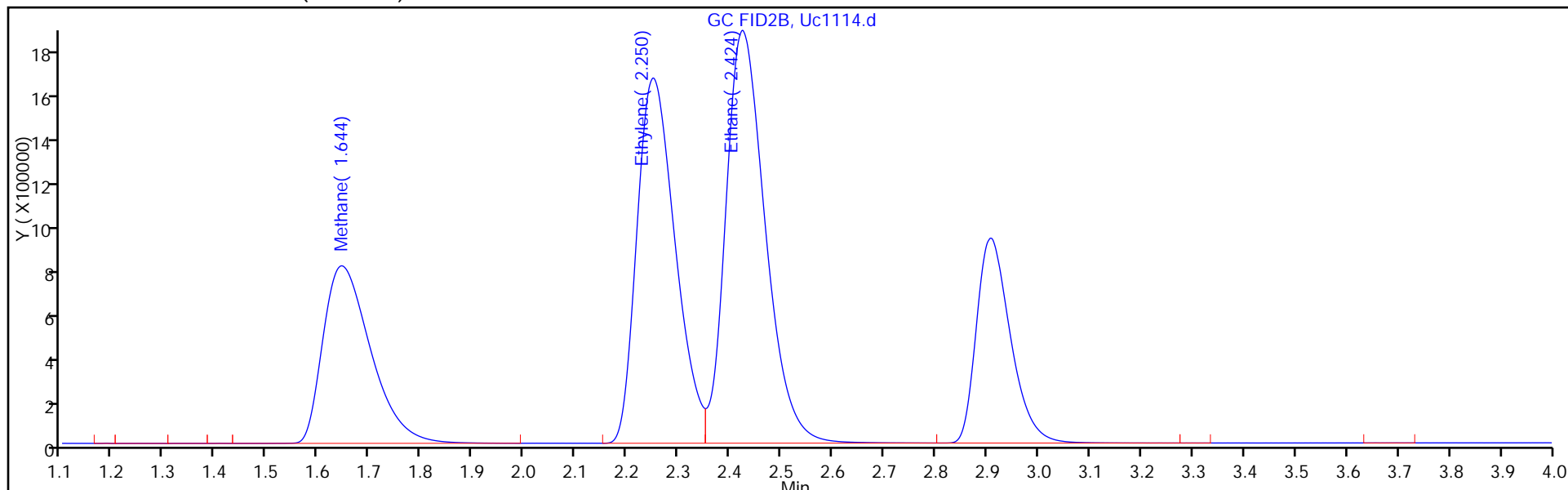
Dil. Factor: 1.0000

ALS Bottle#: 4

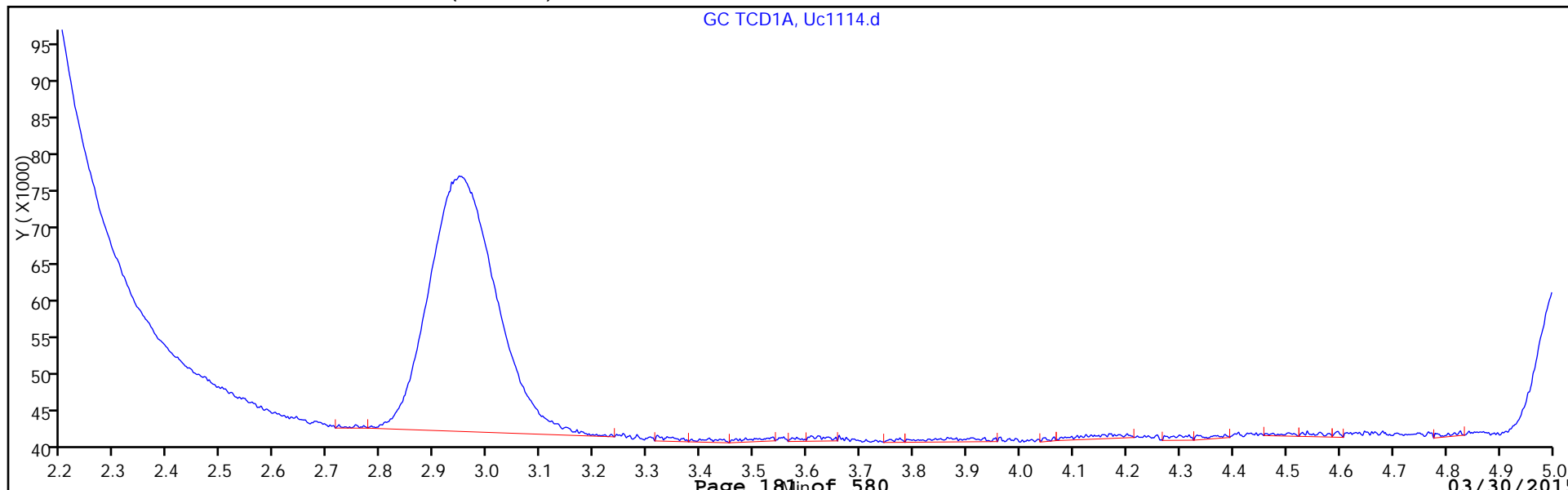
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1115.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Mar-2015 12:59:16 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-005
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:31:50 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.649	1.647	0.002	3795836	38.5	43.4	
2 Ethylene							
1	2.254	2.252	0.002	6299512	67.3	76.2	
1 Ethane							
1	2.429	2.424	0.005	7308428	72.1	80.5	

Reagents:

RSK 23462_00031 Amount Added: 0.10 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1115.d

Injection Date: 11-Mar-2015 12:59:16

Instrument ID: CVGU

Operator ID:

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

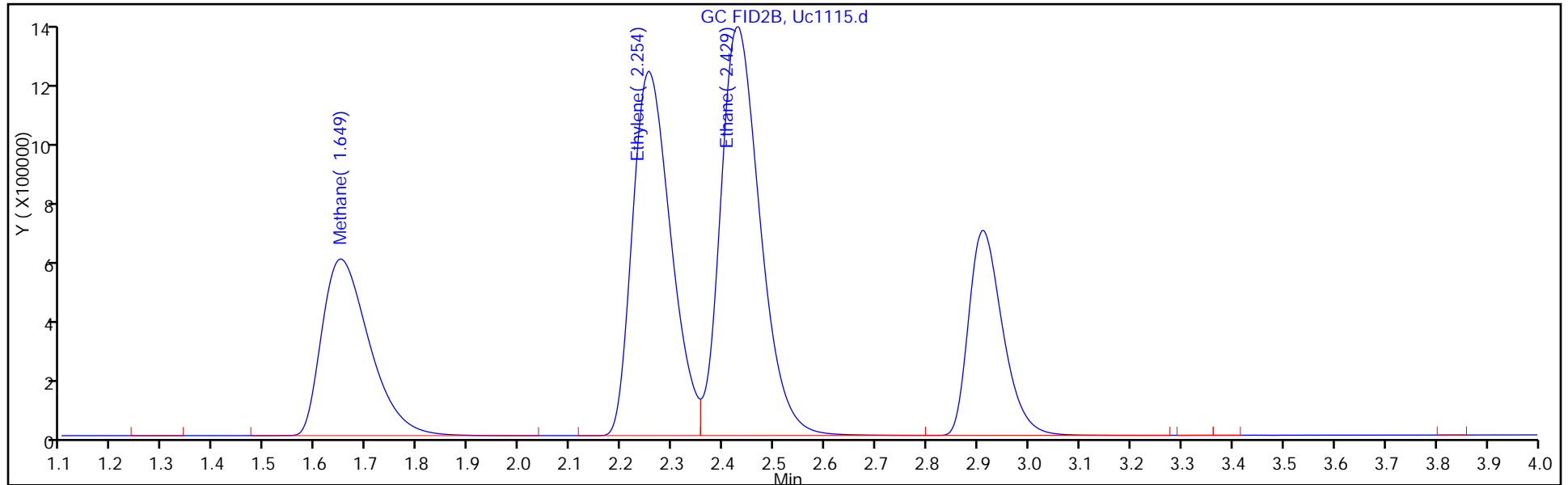
Dil. Factor: 1.0000

ALS Bottle#: 5

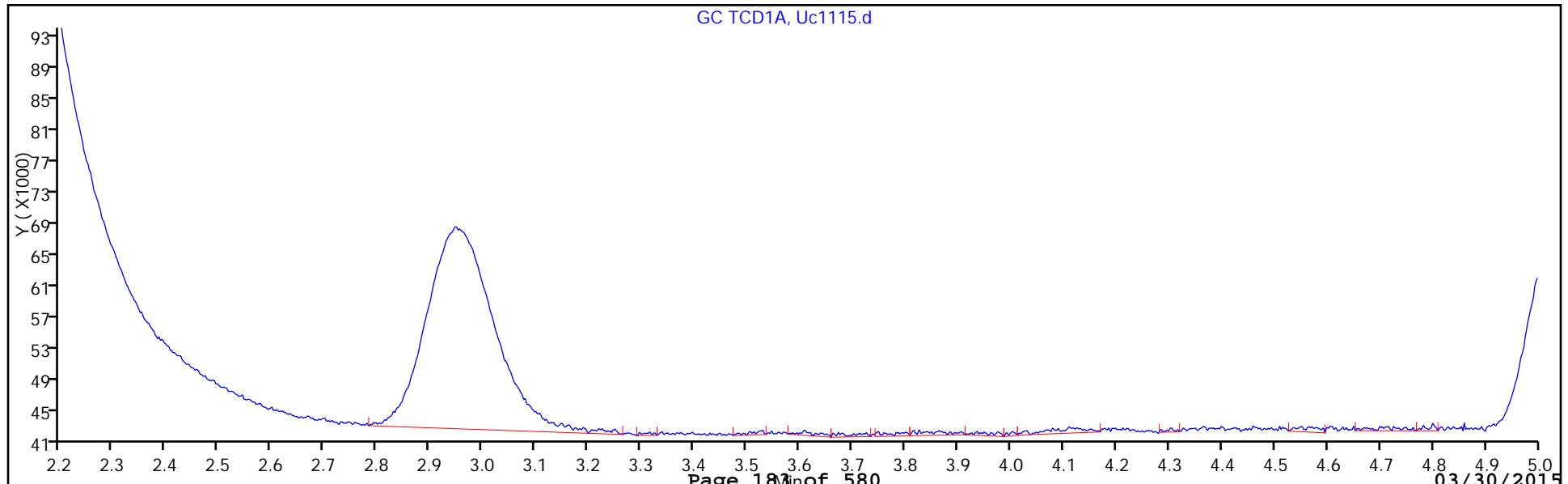
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1119.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Mar-2015 14:26:53 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-009
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:34:59 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.648	1.647	0.001	150821	2.88	3.03	
2 Ethylene							
1	2.255	2.252	0.003	237573	5.06	4.90	
1 Ethane							
1	2.426	2.424	0.002	269334	5.41	5.10	

Reagents:

RSK 23470_00008 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1119.d

Injection Date: 11-Mar-2015 14:26:53

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

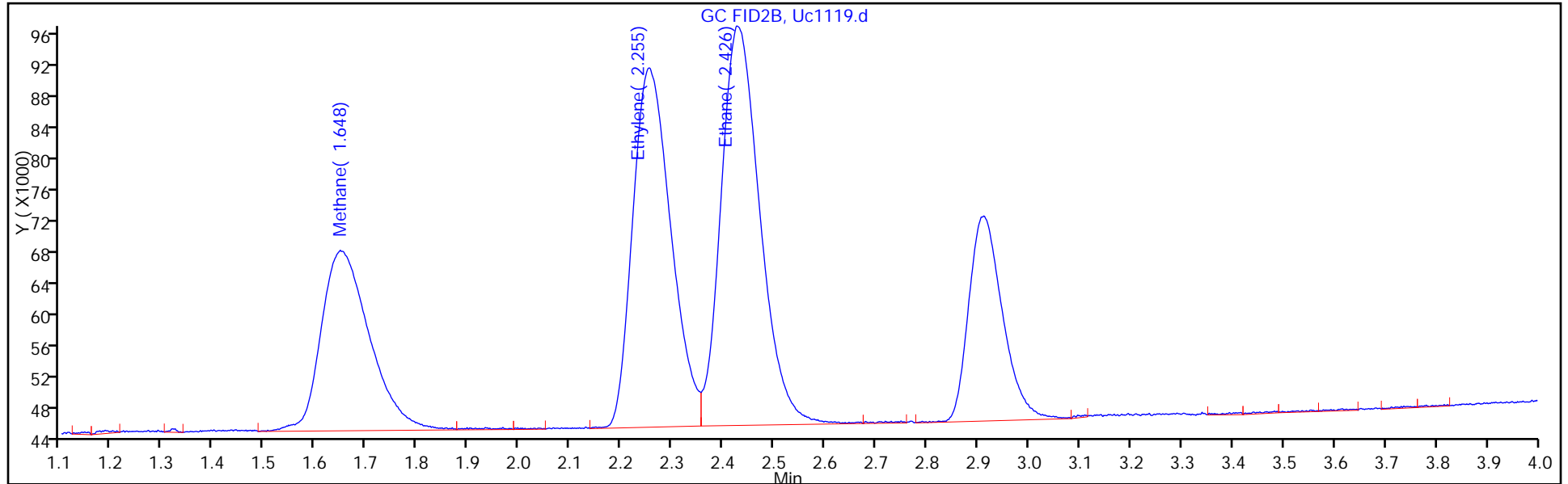
Dil. Factor: 1.0000

ALS Bottle#: 9

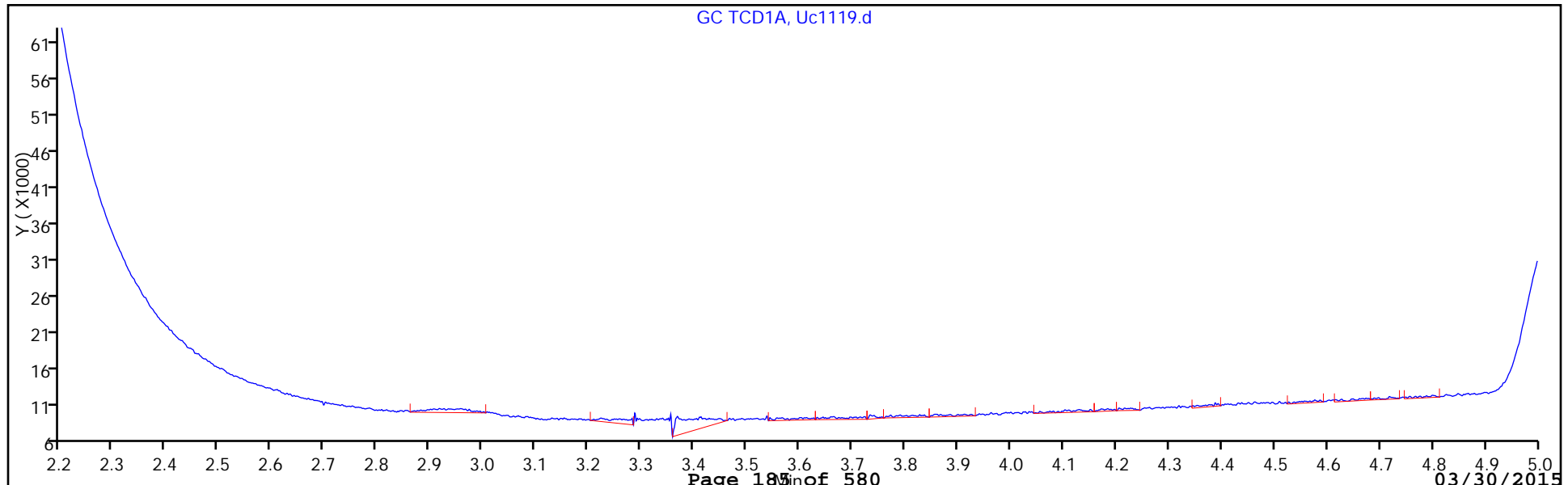
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1120.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Mar-2015 14:39:45 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-010
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:35:00 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.645	1.647	-0.002	83521	1.44	1.68	
2 Ethylene							
1	2.254	2.252	0.002	121048	2.53	2.49	
1 Ethane							
1	2.427	2.424	0.003	141254	2.71	2.67	

Reagents:

RSK 23470_00008 Amount Added: 2.50 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1120.d

Injection Date: 11-Mar-2015 14:39:45

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

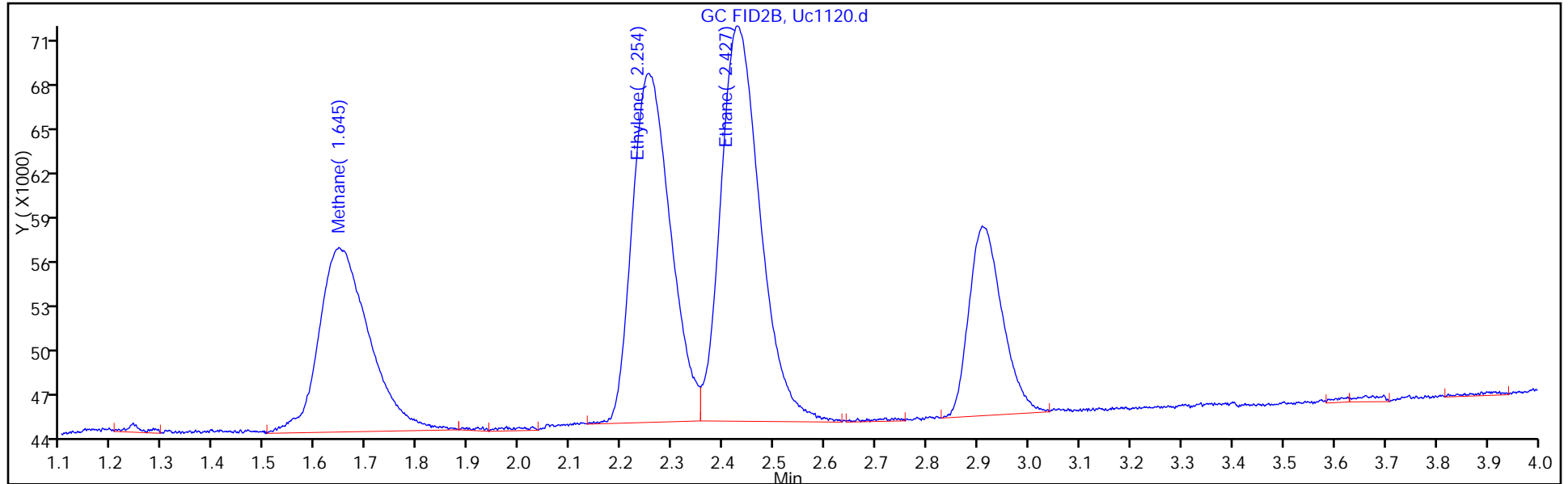
Dil. Factor: 1.0000

ALS Bottle#: 10

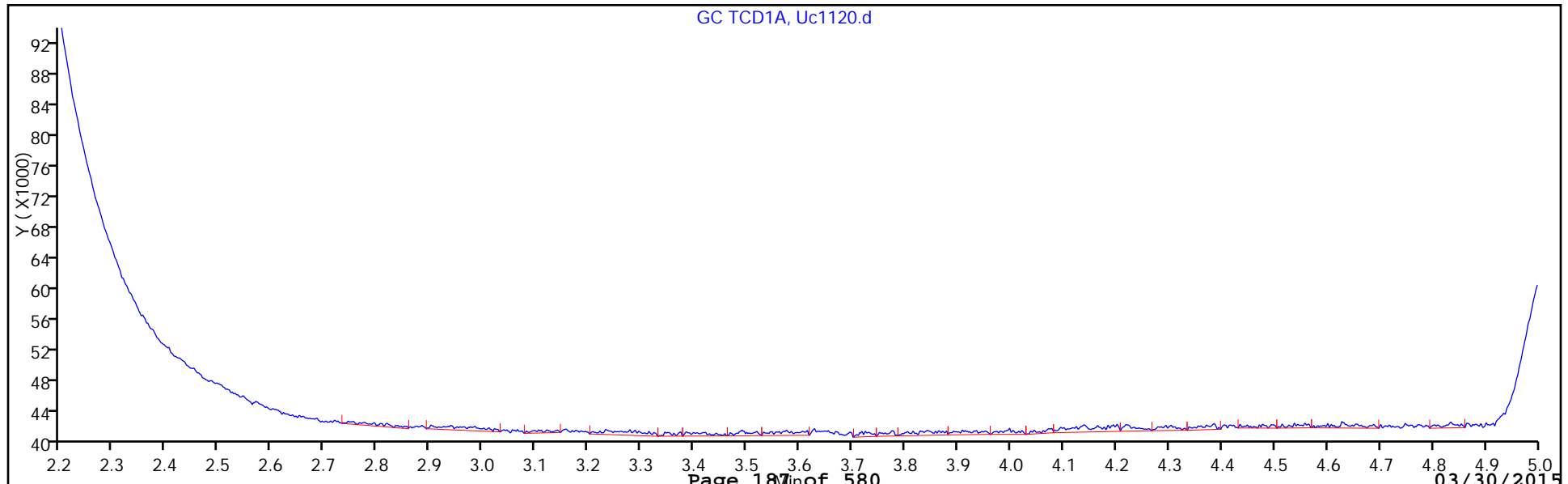
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1121.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Mar-2015 14:52:35 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-011
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:35:01 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.644	1.647	-0.003	42391	0.5765	0.8508	
2 Ethylene							
1	2.250	2.252	-0.002	59314	1.01	1.22	
1 Ethane							
1	2.430	2.424	0.006	68728	1.08	1.30	

Reagents:

RSK 23470_00008 Amount Added: 1.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1121.d

Injection Date: 11-Mar-2015 14:52:35

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

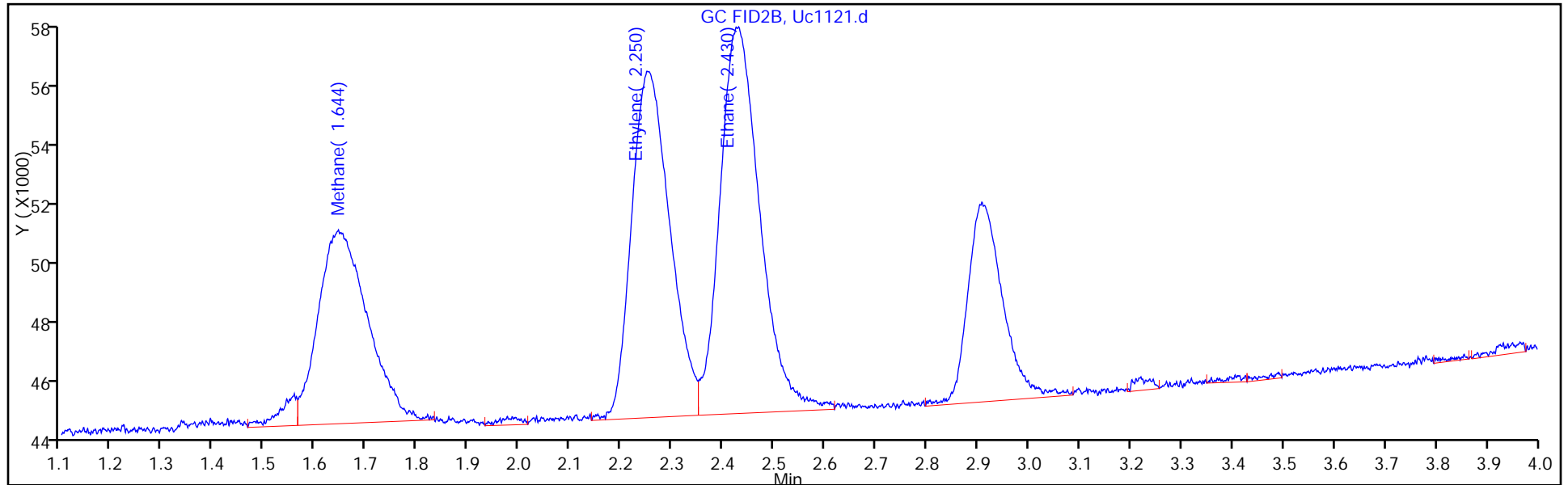
Dil. Factor: 1.0000

ALS Bottle#: 11

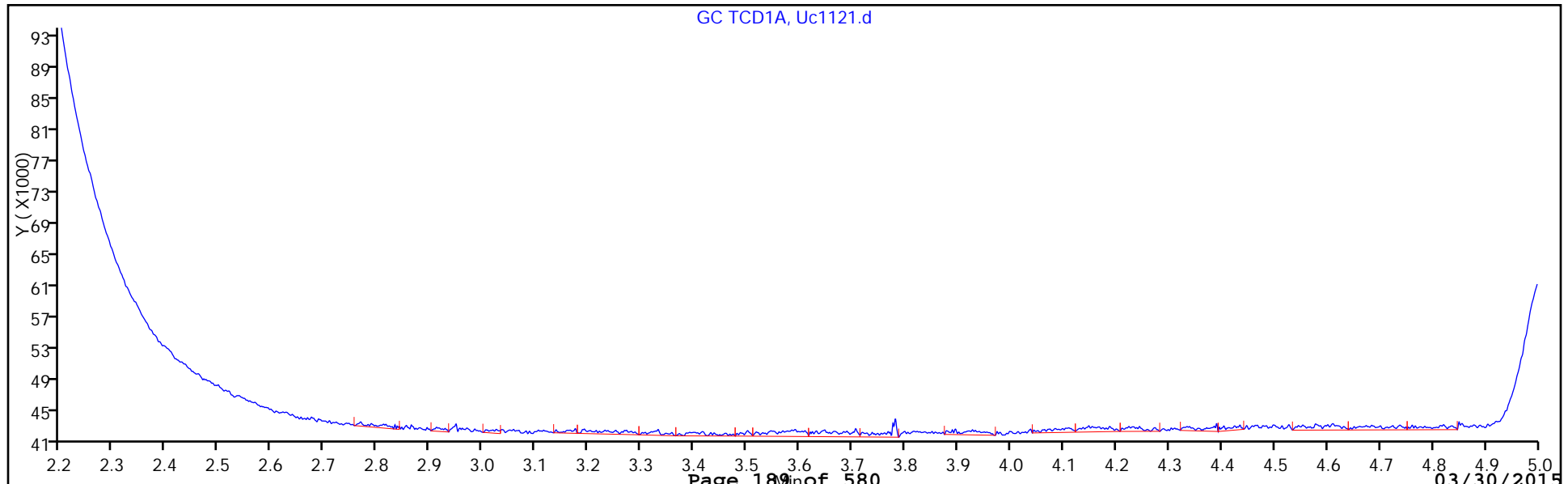
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1122.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Mar-2015 15:18:30 ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-012
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:36:00 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.646	1.647	-0.001	1080588	38.5	21.7	
2 Ethylene							
1	2.254	2.252	0.002	2007228	67.3	41.4	
1 Ethane							
1	2.427	2.424	0.003	2485862	72.1	47.0	

Reagents:

RSK 23462_00031 Amount Added: 0.10 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1122.d

Injection Date: 11-Mar-2015 15:18:30

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

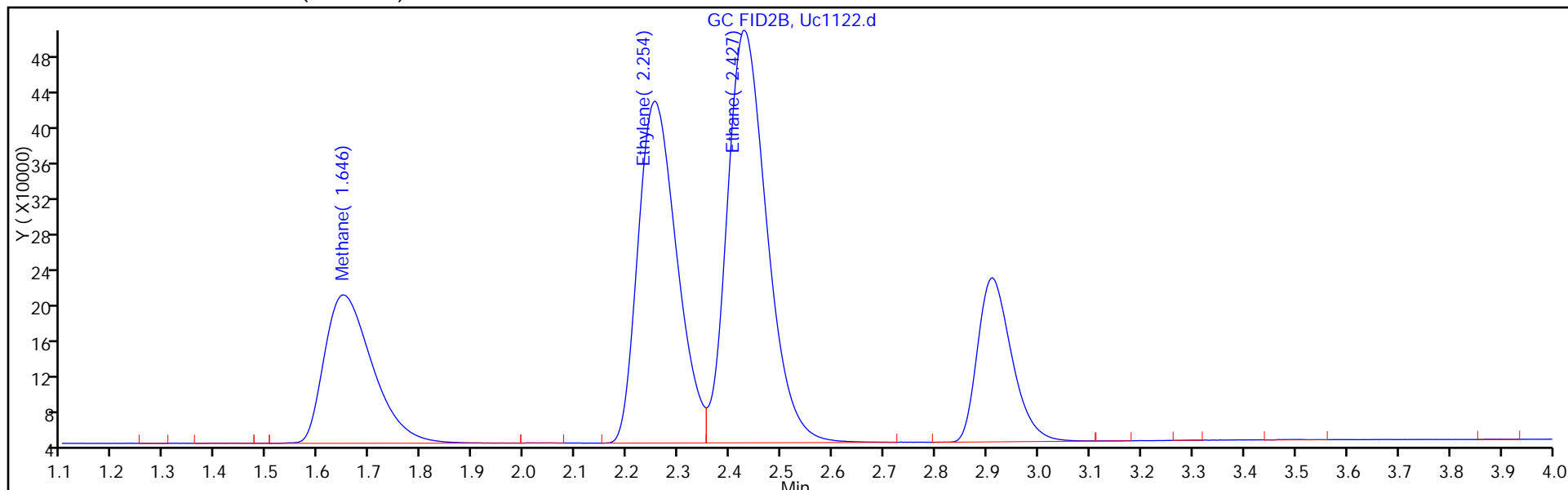
Dil. Factor: 1.0000

ALS Bottle#: 12

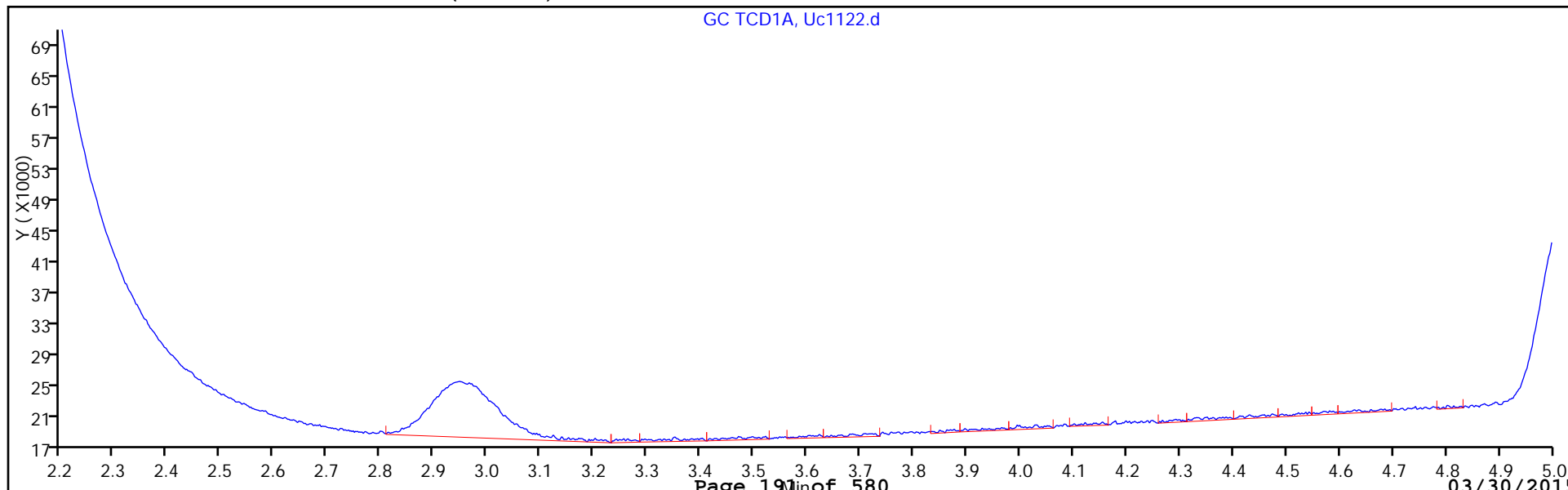
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: ICV 680-374176/22 Calibration Date: 03/11/2015 17:47
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: Uc1132.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	LinF		55105		170	154	10.6	25.0
Ethene	Ave	48531	51451		285	269	6.0	25.0
Ethane	Ave	52845	56018		306	288	6.0	25.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: ICV 680-374176/22 Calibration Date: 03/11/2015 17:47
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: Uc1132.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.65	1.62	1.69
Ethene	2.25	2.21	2.30
Ethane	2.43	2.38	2.48

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1132.d
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Mar-2015 17:47:39 ALS Bottle#: 22 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-022
 Operator ID: Instrument ID: CVGU
 Sublist:

Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 12-Mar-2015 09:45:33 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK036

First Level Reviewer: mcnamaraa Date: 11-Mar-2015 17:57:32

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.646	1.652	-0.006	8477135	153.8	170.1	
2 Ethylene							
1	2.251	2.256	-0.005	13853005	269.2	285.4	
1 Ethane							
1	2.425	2.429	-0.004	16159453	288.5	305.8	

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1132.d

Injection Date: 11-Mar-2015 17:47:39

Instrument ID: CVGU

Operator ID:

Lims ID: icv

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

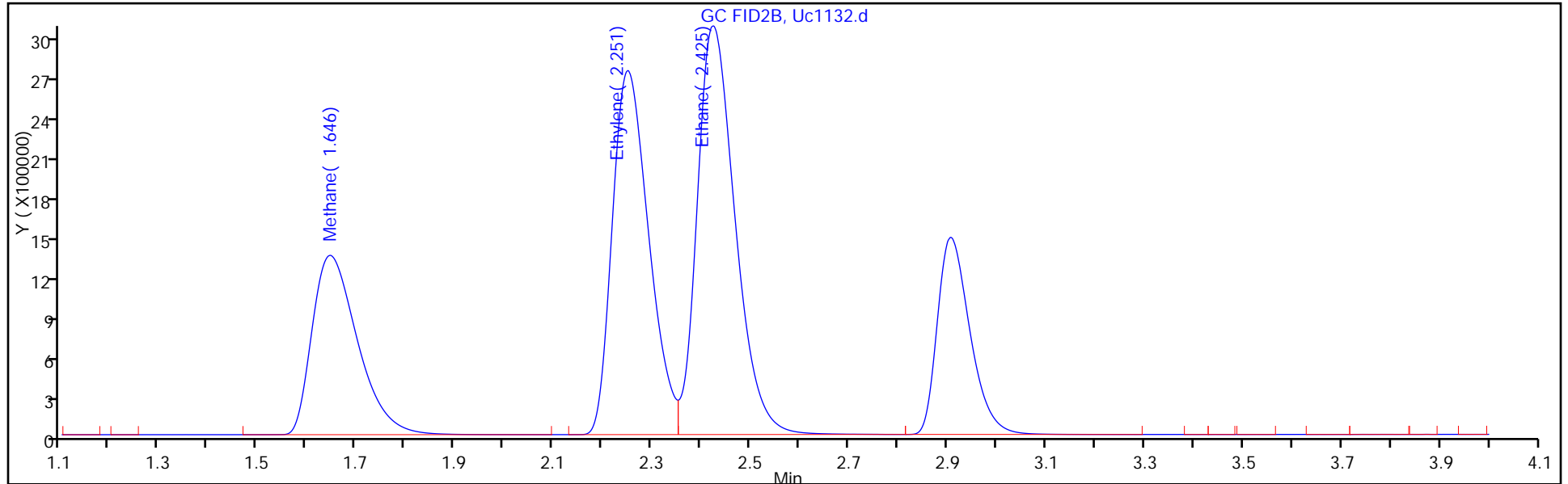
Dil. Factor: 1.0000

ALS Bottle#: 22

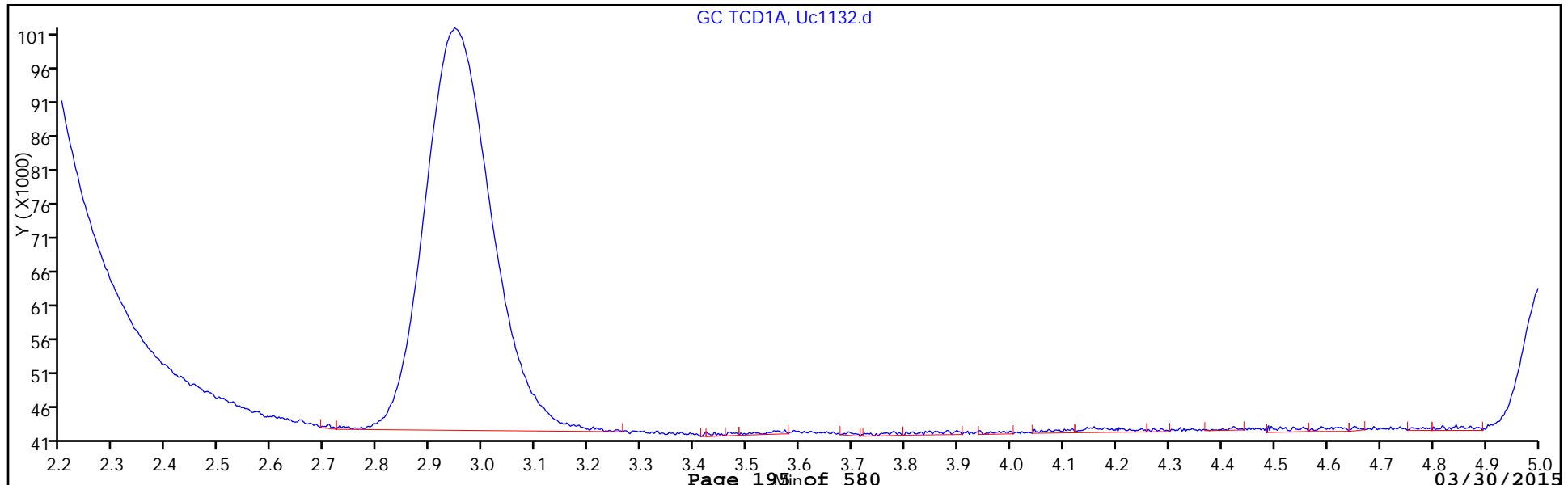
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCV 680-375077/4 Calibration Date: 03/18/2015 10:32
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: Uc1804.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	LinF		56998		176	154	14.4	15.0
Ethene	Ave	48531	53677		298	269	10.6	15.0
Ethane	Ave	52845	58234		318	288	10.2	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCV 680-375077/4 Calibration Date: 03/18/2015 10:32
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: Uc1804.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.65	1.62	1.68
Ethene	2.25	2.21	2.30
Ethane	2.43	2.38	2.48

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1804.d
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 18-Mar-2015 10:32:29 ALS Bottle#: 44 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017952-004
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 18-Mar-2015 12:42:35 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK013

First Level Reviewer: mcnamaraa Date: 18-Mar-2015 11:28:45

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.649	1.649	0.000	8768321	153.8	176.0	
2 Ethylene							
1	2.254	2.254	0.000	14452320	269.2	297.8	
1 Ethane							
1	2.427	2.427	0.000	16798881	288.5	317.9	

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1804.d

Injection Date: 18-Mar-2015 10:32:29

Instrument ID: CVGU

Operator ID:

Lims ID: ccv

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

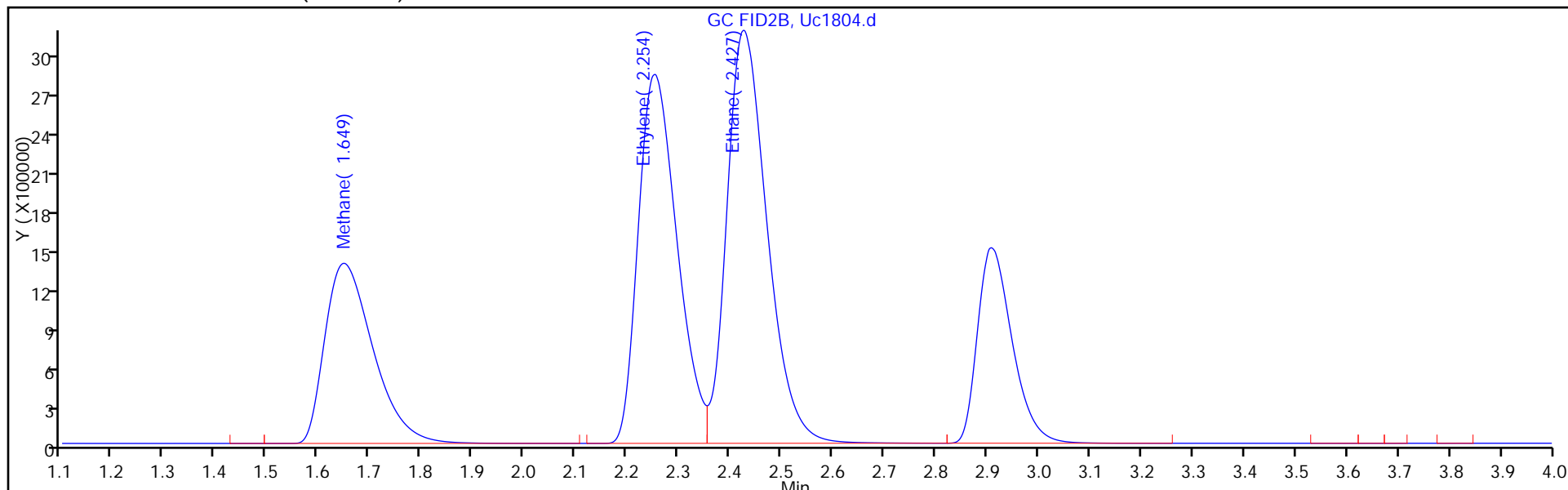
Dil. Factor: 1.0000

ALS Bottle#: 44

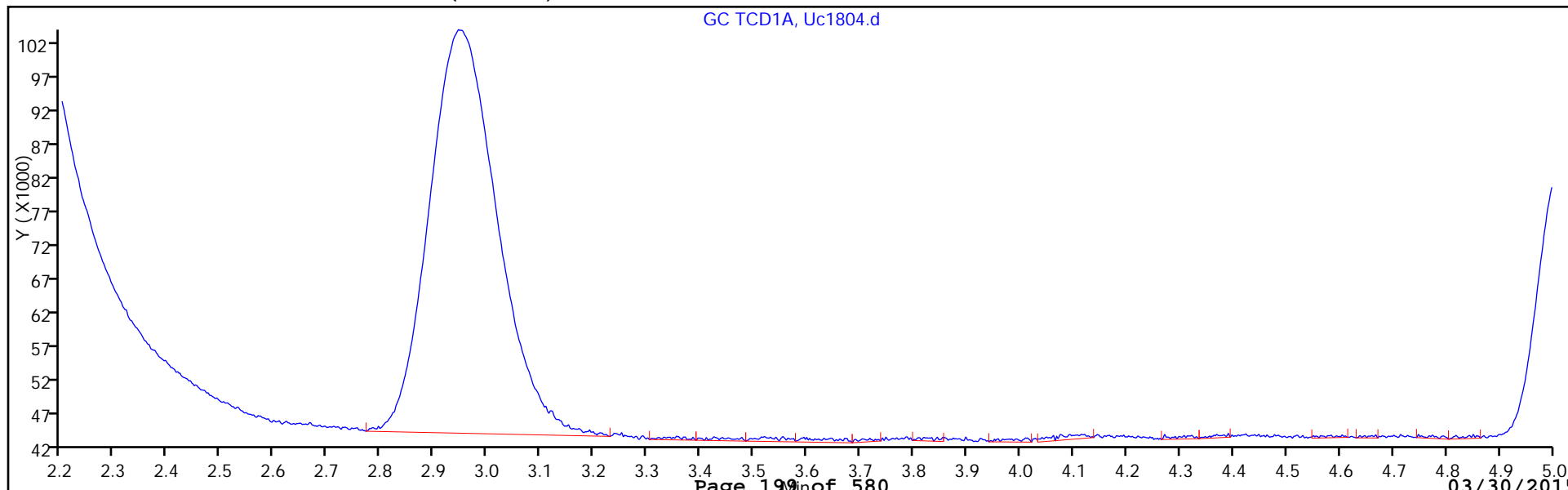
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCV 680-375077/24 Calibration Date: 03/18/2015 17:25
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: Uc1824.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	LinF		53324		165	154	7.0	15.0
Ethene	Ave	48531	51480		286	269	6.1	15.0
Ethane	Ave	52845	54477		297	288	3.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCV 680-375077/24 Calibration Date: 03/18/2015 17:25
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: Uc1824.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.65	1.61	1.68
Ethene	2.25	2.21	2.30
Ethane	2.43	2.38	2.48

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1824.d
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 18-Mar-2015 17:25:10 ALS Bottle#: 63 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017952-024
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 19-Mar-2015 10:05:26 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK047

First Level Reviewer: mcnamaraa Date: 18-Mar-2015 18:01:52

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.647	1.647	0.000	8203038	153.8	164.6	
2 Ethylene							
1	2.252	2.252	0.000	13860954	269.2	285.6	
1 Ethane							
1	2.426	2.426	0.000	15714883	288.5	297.4	

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1824.d

Injection Date: 18-Mar-2015 17:25:10

Instrument ID: CVGU

Operator ID:

Lims ID: ccv

Worklist Smp#: 24

Client ID:

Purge Vol: 5.000 mL

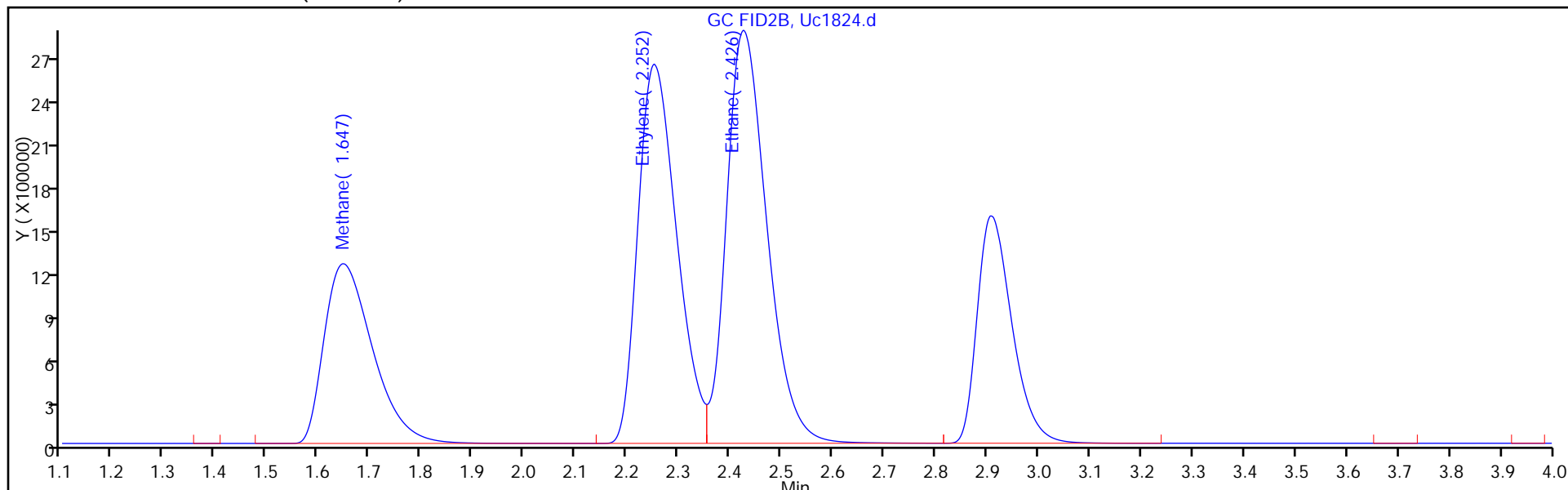
Dil. Factor: 1.0000

ALS Bottle#: 63

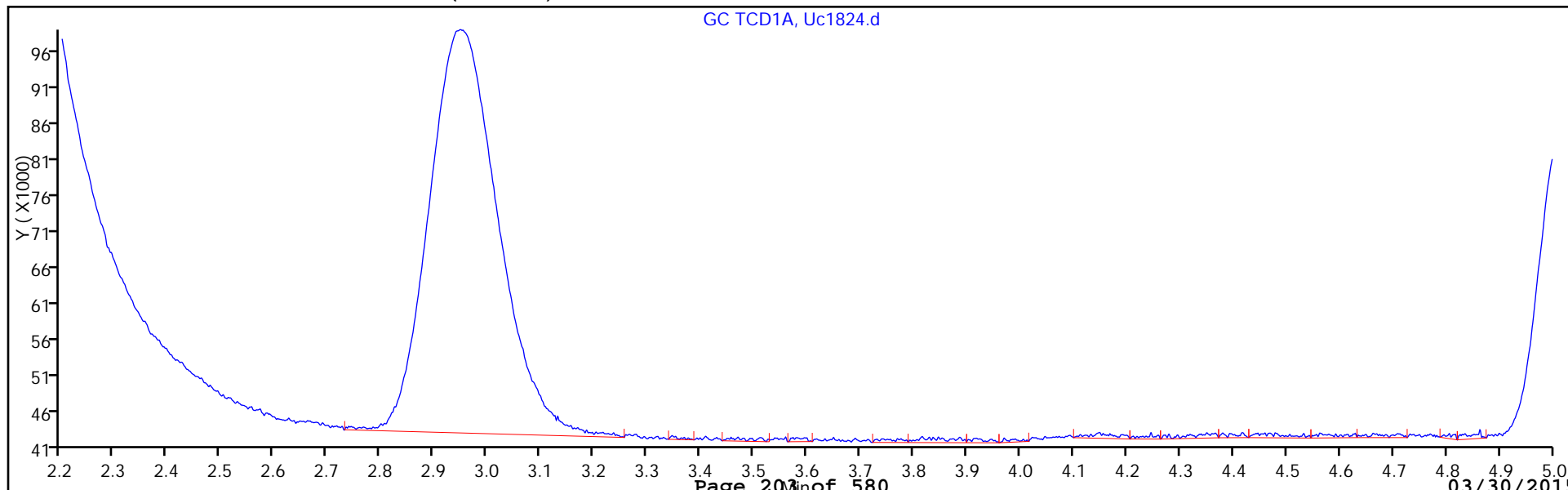
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-375077/8
 Matrix: Water Lab File ID: Uc1807.d
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17(mL) Date Analyzed: 03/18/2015 11:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375077 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		1.1	0.55
74-85-1	Ethene	ND		1.0	0.50
74-82-8	Methane	ND		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1807.d
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 18-Mar-2015 11:11:05 ALS Bottle#: 47 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017952-007
 Operator ID: Instrument ID: CVGU
 Method: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 18-Mar-2015 12:42:35 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK013

First Level Reviewer: mcnamaraa Date: 18-Mar-2015 12:18:40

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1807.d

Injection Date: 18-Mar-2015 11:11:05

Instrument ID: CVGU

Operator ID:

Lims ID: mb

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

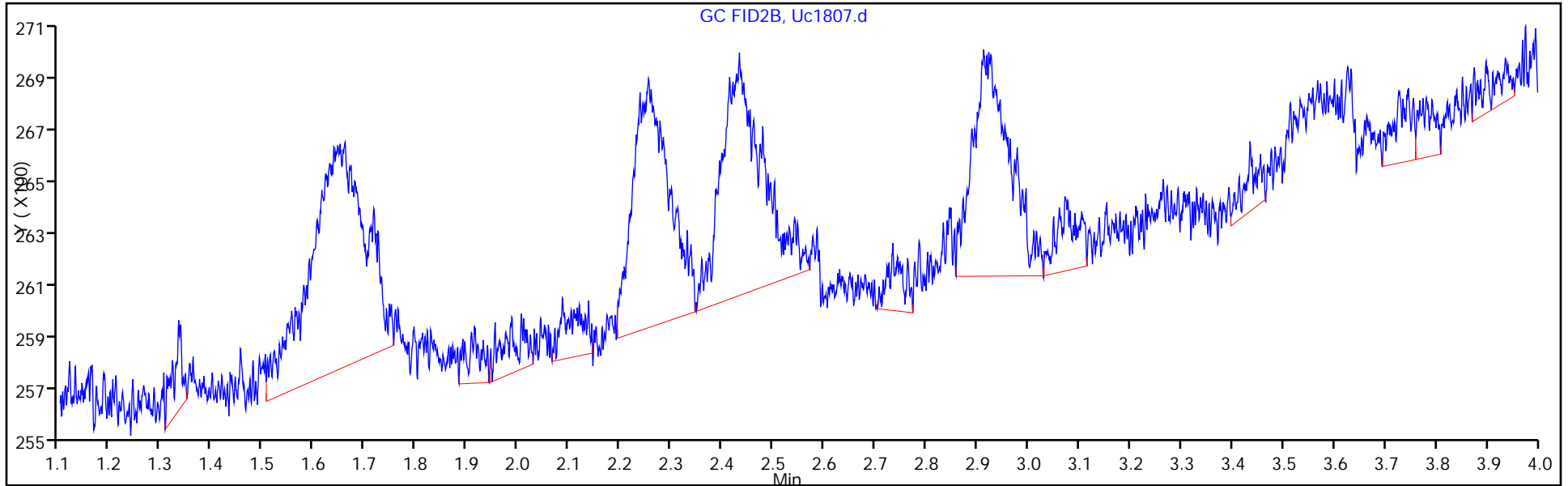
Dil. Factor: 1.0000

ALS Bottle#: 47

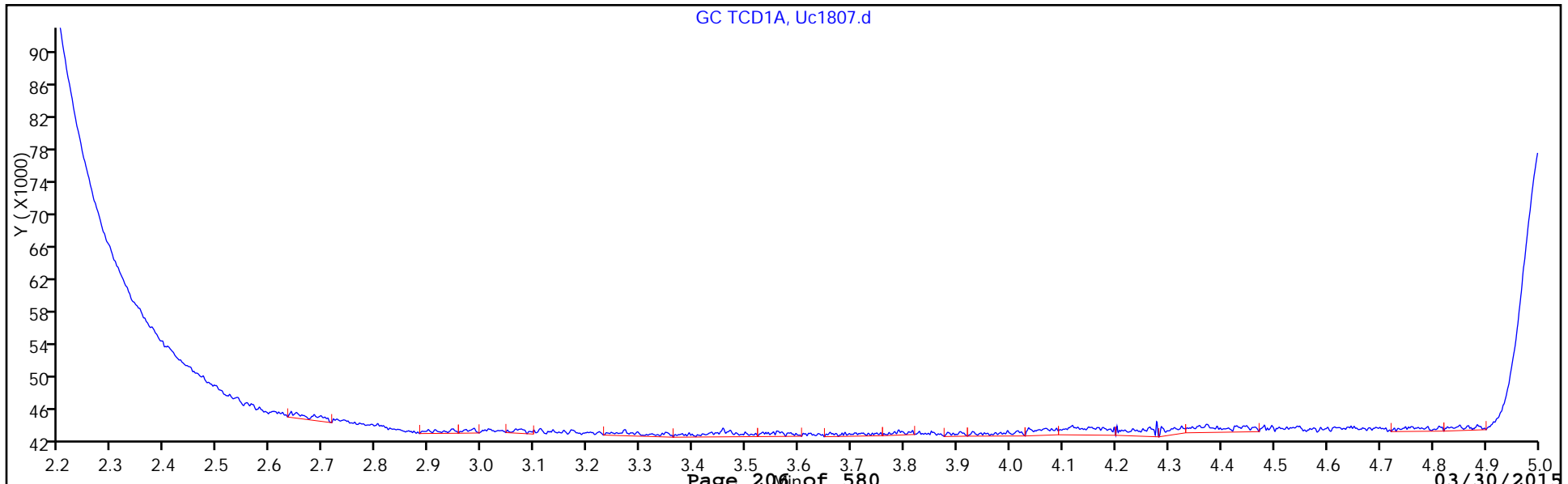
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-375077/6
 Matrix: Water Lab File ID: Uc1806.d
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17(mL) Date Analyzed: 03/18/2015 10:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375077 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	296		1.1	0.55
74-85-1	Ethene	279		1.0	0.50
74-82-8	Methane	164		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1806.d
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 18-Mar-2015 10:58:14 ALS Bottle#: 46 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017952-006
 Operator ID: Instrument ID: CVGU
 Method: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 18-Mar-2015 12:42:35 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK013

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.648	1.649	-0.001	8170021	153.8	164.0	
2 Ethylene							
1	2.253	2.254	-0.001	13529827	269.2	278.8	
1 Ethane							
1	2.426	2.427	-0.001	15635906	288.5	295.9	

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1806.d

Injection Date: 18-Mar-2015 10:58:14

Instrument ID: CVGU

Operator ID:

Lims ID: lcs

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

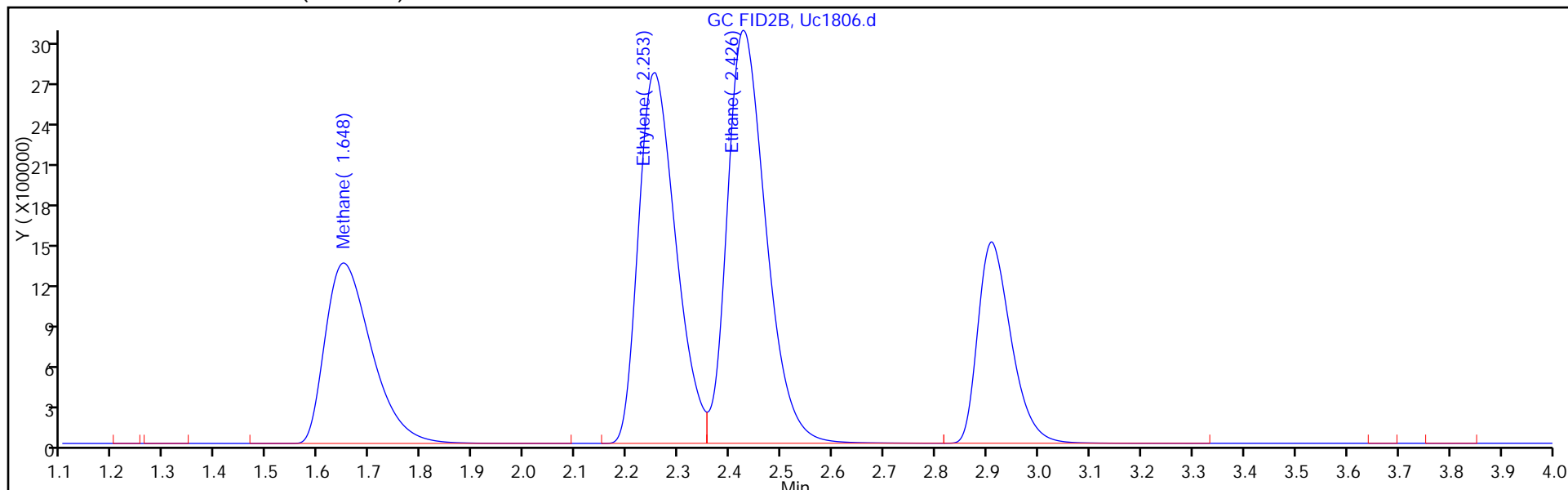
Dil. Factor: 1.0000

ALS Bottle#: 46

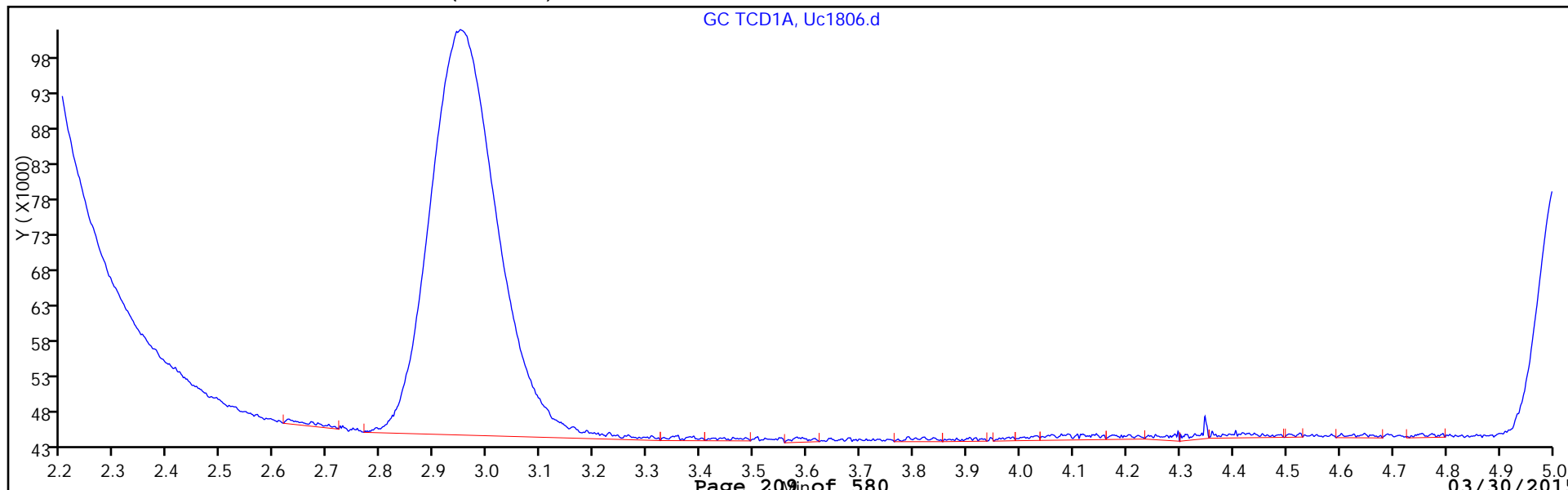
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-375077/23
 Matrix: Water Lab File ID: Uc1823.d
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 03/18/2015 17:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375077 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	300		1.1	0.55
74-85-1	Ethene	277		1.0	0.50
74-82-8	Methane	170		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\Uc1823.d
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 18-Mar-2015 17:12:19 ALS Bottle#: 62 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017952-023
 Operator ID: Instrument ID: CVGU
 Method: \\SAVCHROM\ChromData\CVGU\20150318-17952.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 19-Mar-2015 09:57:06 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK047

First Level Reviewer: mcnamaraa Date: 18-Mar-2015 18:01:50

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.650	1.647	0.003	8485806	153.8	170.3	
2 Ethylene							
1	2.253	2.252	0.001	13424311	269.2	276.6	
1 Ethane							
1	2.427	2.426	0.001	15872538	288.5	300.4	

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: CVGU Start Date: 03/11/2015 12:07

Analysis Batch Number: 374176 End Date: 03/12/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-374176/1		03/11/2015 12:07	1	Uc1111.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/2		03/11/2015 12:20	1	Uc1112.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/3		03/11/2015 12:33	1	Uc1113.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/4		03/11/2015 12:46	1	Uc1114.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/5		03/11/2015 12:59	1	Uc1115.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/9		03/11/2015 14:26	1	Uc1119.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/10		03/11/2015 14:39	1	Uc1120.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/11		03/11/2015 14:52	1	Uc1121.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/12		03/11/2015 15:18	1	Uc1122.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/13		03/11/2015 15:42	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/14		03/11/2015 15:55	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/15		03/11/2015 16:08	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/16		03/11/2015 16:21	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/17		03/11/2015 16:34	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/18		03/11/2015 16:47	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/19		03/11/2015 17:00	1		SUPELCO CARBOXE 0.32 (mm)
ICV 680-374176/21		03/11/2015 17:34	1		SUPELCO CARBOXE 0.32 (mm)
ICV 680-374176/22		03/11/2015 17:47	1	Uc1132.d	RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 18:00	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 18:13	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 18:13	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 18:57	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 18:57	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 19:10	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 19:10	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 19:23	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 19:23	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 19:36	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 19:36	5		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 19:49	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 19:49	5		SUPELCO CARBOXE 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: CVGU Start Date: 03/11/2015 12:07

Analysis Batch Number: 374176 End Date: 03/12/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/11/2015 20:01	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 20:01	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 20:14	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 20:14	5		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 20:27	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 20:27	5		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 20:40	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 20:40	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 20:53	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 20:53	5		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 21:06	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 21:06	5		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 21:19	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 21:19	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 21:31	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 21:31	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 21:44	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 21:44	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 21:57	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 21:57	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 22:10	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 22:10	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 22:23	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 22:23	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 22:36	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 22:36	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 22:49	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 22:49	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 23:01	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 23:01	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 23:53	1		SUPELCO CARBOXE 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: CVGU Start Date: 03/11/2015 12:07

Analysis Batch Number: 374176 End Date: 03/12/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/12/2015 00:19	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/12/2015 09:33	1		SUPELCO CARBOXE 0.32 (mm)
CCV 680-374176/53		03/12/2015 09:46	1		SUPELCO CARBOXE 0.32 (mm)
CCV 680-374176/54		03/12/2015 10:11	1		RESTEK RTU PLOT 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: CVGU Start Date: 03/18/2015 09:53

Analysis Batch Number: 375077 End Date: 03/18/2015 17:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 680-375077/1		03/18/2015 09:53	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 10:06	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 10:19	1		SUPELCO CARBOXE 0.32 (mm)
CCV 680-375077/4		03/18/2015 10:32	1	Uc1804.d	RESTEK RTU PLOT 0.32 (mm)
LCS 680-375077/6		03/18/2015 10:58	1	Uc1806.d	RESTEK RTU PLOT 0.32 (mm)
MB 680-375077/8		03/18/2015 11:11	1	Uc1807.d	RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 11:11	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 11:51	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 11:51	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 12:04	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 12:04	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 12:17	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 12:17	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 12:30	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 12:30	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 12:43	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 12:43	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 14:15	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 14:15	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 14:28	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 14:28	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 14:41	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 14:41	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 14:54	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 14:54	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 15:07	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 15:07	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 15:20	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/18/2015 15:20	1		SUPELCO CARBOXE 0.32 (mm)
680-110742-1	25LM20112	03/18/2015 15:33	1	Uc1820.d	RESTEK RTU PLOT 0.32 (mm)
680-110742-1	25LM20112	03/18/2015 15:33	1	Uc1820.d	SUPELCO CARBOXE 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: CVGU Start Date: 03/18/2015 09:53Analysis Batch Number: 375077 End Date: 03/18/2015 17:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
680-110742-2	25LM20116	03/18/2015 15:46	1	Uc1821.d	RESTEK RTU PLOT 0.32 (mm)
680-110742-2	25LM20116	03/18/2015 15:46	1	Uc1821.d	SUPELCO CARBOXE 0.32 (mm)
680-110742-3	25LM20117	03/18/2015 15:59	1	Uc1822.d	RESTEK RTU PLOT 0.32 (mm)
680-110742-3	25LM20117	03/18/2015 15:59	1	Uc1822.d	SUPELCO CARBOXE 0.32 (mm)
LCSD 680-375077/23		03/18/2015 17:12	1	Uc1823.d	RESTEK RTU PLOT 0.32 (mm)
CCV 680-375077/24		03/18/2015 17:25	1	Uc1824.d	RESTEK RTU PLOT 0.32 (mm)
CCV 680-375077/25		03/18/2015 17:38	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/18/2015 17:50	1		SUPELCO CARBOXE 0.32 (mm)

300_ORGEM_28D

Anions, Ion Chromatography

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0327152051-29.d
 Lab ID: LCS 680-376520/26 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Chloride	10.0	10.4	104	90-110	
Sulfate	10.0	9.72	97	90-110	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 0327152105-30.d

Lab ID: LCSD 680-376520/27 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloride	10.0	10.4	104	0	30	90-110	
Sulfate	10.0	9.75	98	0	30	90-110	

Column to be used to flag recovery and RPD values

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab File ID: 0327152036-28.d Lab Sample ID: MB 680-376520/25
 Matrix: Water Date Extracted: _____
 Instrument ID: CICL Date Analyzed: 03/27/2015 20:36
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-376520/26	0327152051-29.d	03/27/2015 20:51
	LCSD 680-376520/27	0327152105-30.d	03/27/2015 21:05
	CCB 680-376520/39	0327152359-42.d	03/27/2015 23:59
25LM20112	680-110742-1	0328150028-44.d	03/28/2015 00:28
25LM20116	680-110742-2	0328150043-45.d	03/28/2015 00:43
25LM20117	680-110742-3	0328150057-46.d	03/28/2015 00:57
	CCB 680-376520/51	0328150253-54.d	03/28/2015 02:53

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20112 Lab Sample ID: 680-110742-1
 Matrix: Water Lab File ID: 0328150028-44.d
 Analysis Method: 300.0 Date Collected: 03/17/2015 11:08
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/28/2015 00:28
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376520 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.2		0.50	0.20
14808-79-8	Sulfate	16		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\0328150028-44.d
 Lims ID: 680-110742-C-1 Lab Sample ID: 680-110742-1
 Client ID: 25LM20112
 Sample Type: Client
 Inject. Date: 28-Mar-2015 00:28:00 ALS Bottle#: 0 Worklist Smp#: 41
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 680-110742-C-1 2L032715 connie
 Misc. Info.: 3193
 Operator ID: Instrument ID: CICL
 Method: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 28-Mar-2015 10:44:20 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

First Level Reviewer: seabrooksd Date: 28-Mar-2015 10:40:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
2 Chloride	4.208	4.217	-0.009	25544790	1.22	
3 Sulfate	5.617	5.625	-0.008	290160348	15.8	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Savannah

Data File: \\ChromNAI\g1\Savannah\ChromData\CICL\20150327-18239.b\0328150028-44.d

Injection Date: 28-Mar-2015 00:28:00

Instrument ID: CICL

Operator ID:

Lims ID: 680-110742-C-1

Lab Sample ID: 680-110742-1

Worklist Smp#: 41

Client ID: 25LM20112

Injection Vol: 25.0 ul

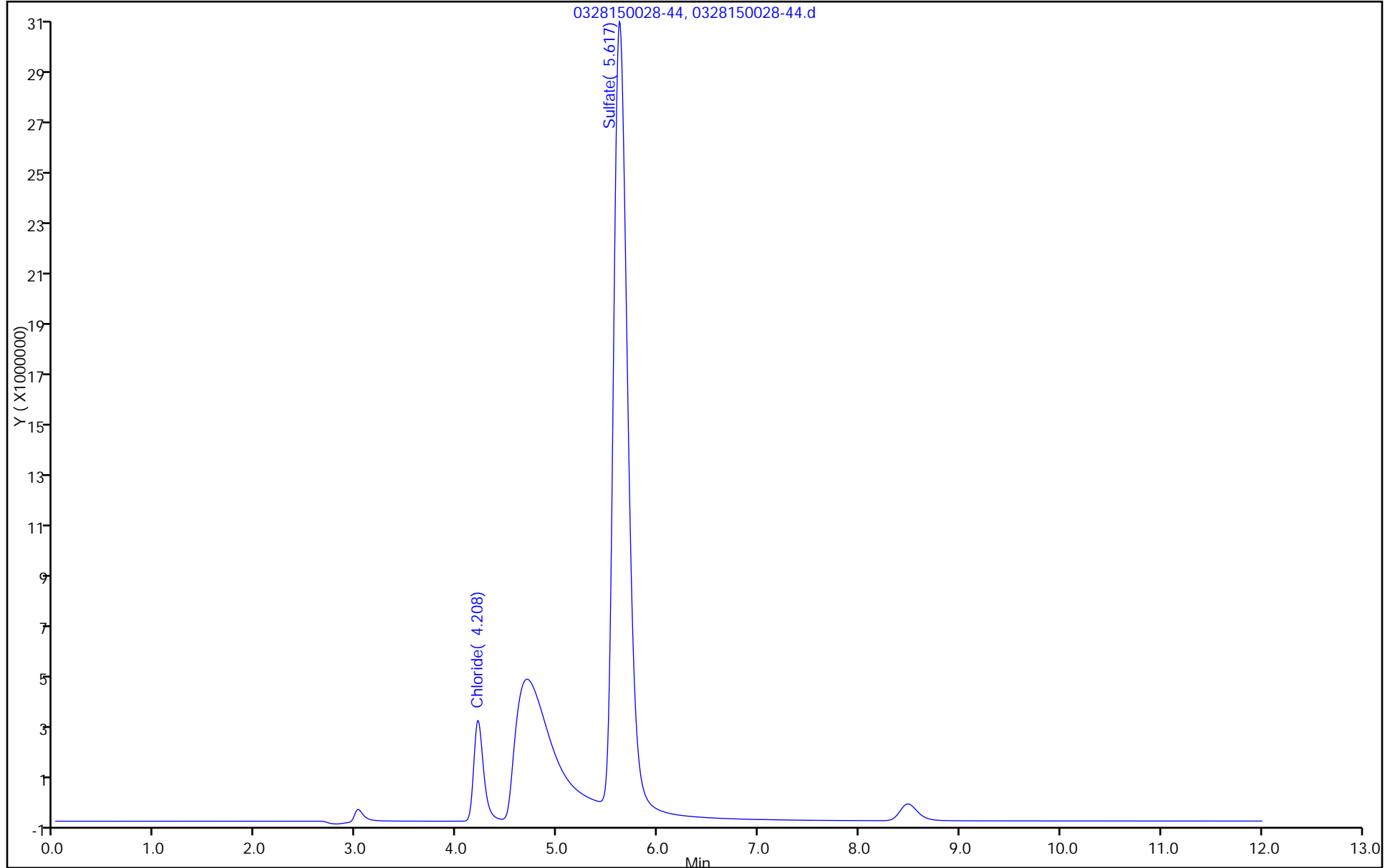
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



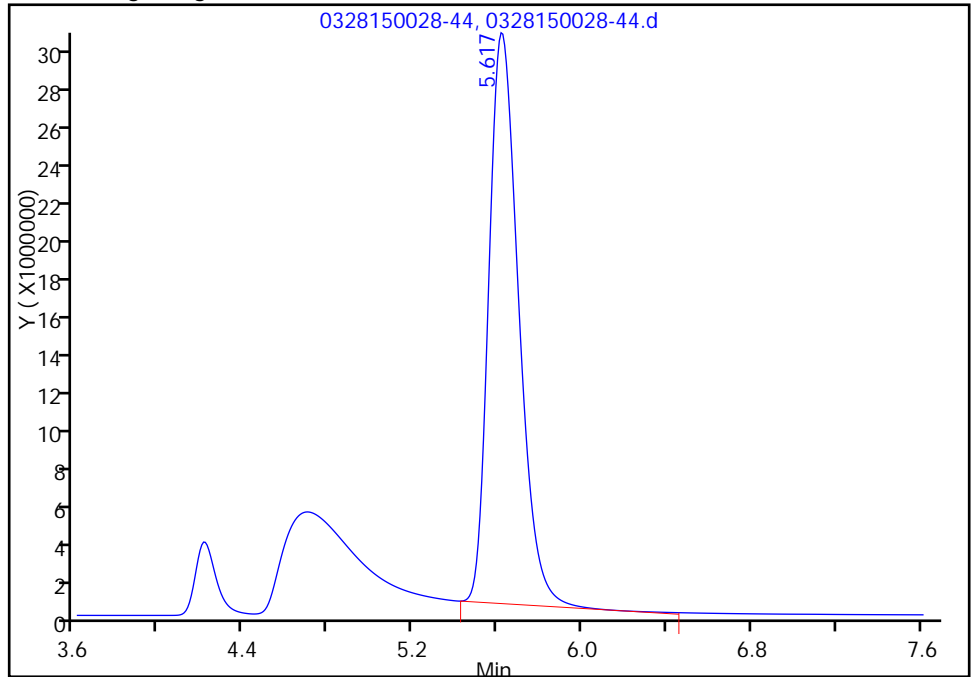
TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0328150028-44.d
Injection Date: 28-Mar-2015 00:28:00 Instrument ID: CICL
Lims ID: 680-110742-C-1 Lab Sample ID: 680-110742-1
Client ID: 25LM20112
Operator ID: ALS Bottle#: 0 Worklist Smp#: 41
Injection Vol: 25.0 ul Dil. Factor: 1.0000
Method: 300.0_9056A_CICL Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0423131702-17

3 Sulfate, CAS: 14808-79-8

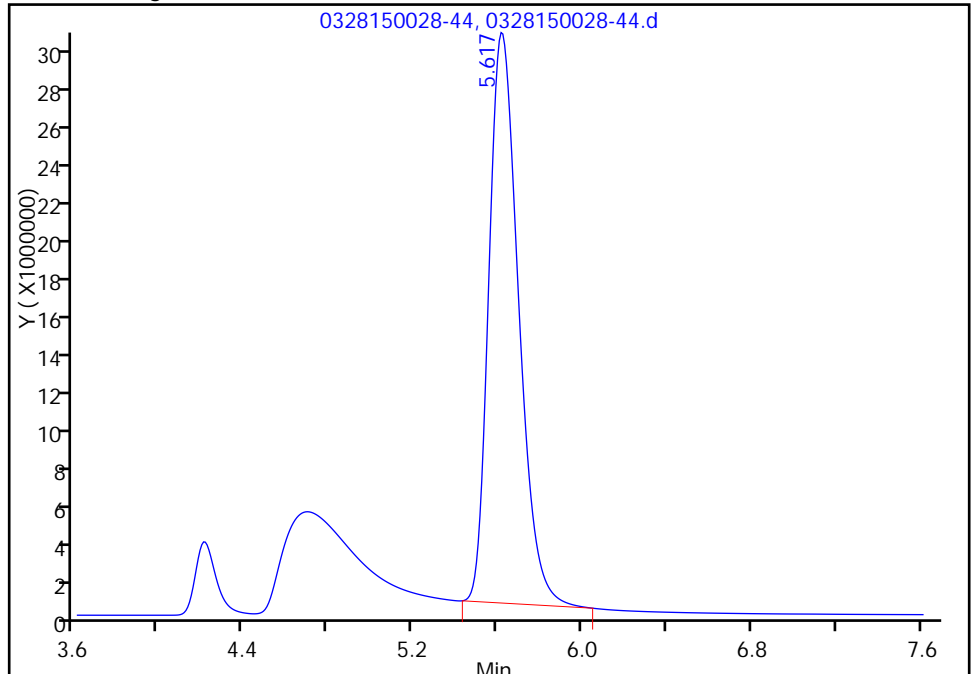
RT: 5.62
Area: 291687178
Amount: 15.888877
Amount Units: ug/ml

Processing Integration Results



RT: 5.62
Area: 290160348
Amount: 15.803930
Amount Units: ug/ml

Manual Integration Results



Reviewer: seabrooksd, 28-Mar-2015 10:40:08
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20116 Lab Sample ID: 680-110742-2
 Matrix: Water Lab File ID: 0328150043-45.d
 Analysis Method: 300.0 Date Collected: 03/17/2015 13:02
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/28/2015 00:43
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376520 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	2.3		0.50	0.20
14808-79-8	Sulfate	25		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\0328150043-45.d
 Lims ID: 680-110742-C-2 Lab Sample ID: 680-110742-2
 Client ID: 25LM20116
 Sample Type: Client
 Inject. Date: 28-Mar-2015 00:43:00 ALS Bottle#: 0 Worklist Smp#: 42
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 680-110742-C-2 2L032715 connie
 Misc. Info.: 21217
 Operator ID: Instrument ID: CICL
 Method: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 28-Mar-2015 10:44:20 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

First Level Reviewer: seabrooksd Date: 28-Mar-2015 10:41:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
2 Chloride	4.208	4.217	-0.009	50254768	2.28	
3 Sulfate	5.600	5.625	-0.025	462403863	25.4	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0328150043-45.d

Injection Date: 28-Mar-2015 00:43:00

Instrument ID: CICL

Operator ID:

Lims ID: 680-110742-C-2

Lab Sample ID: 680-110742-2

Worklist Smp#: 42

Client ID: 25LM20116

Injection Vol: 25.0 ul

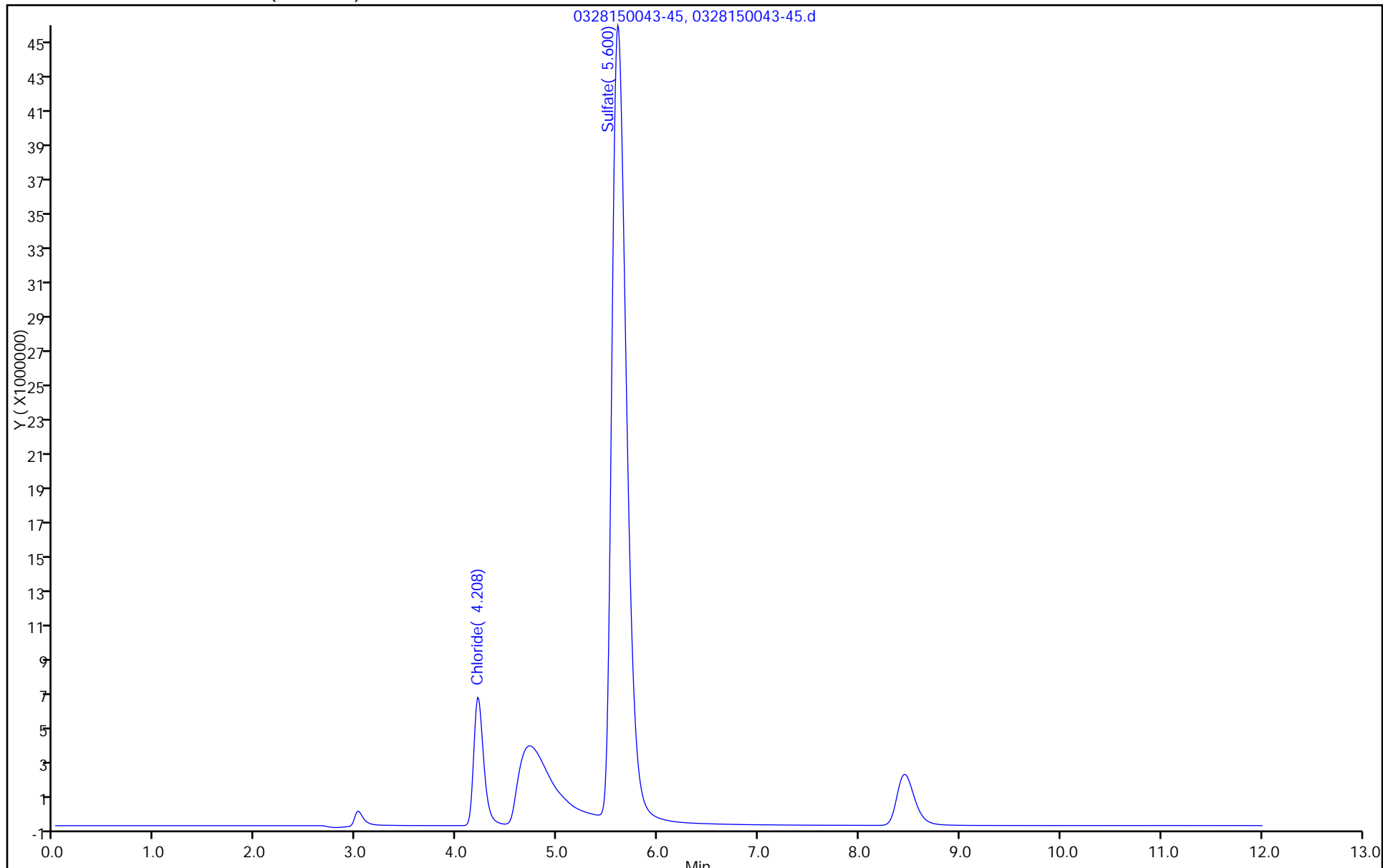
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



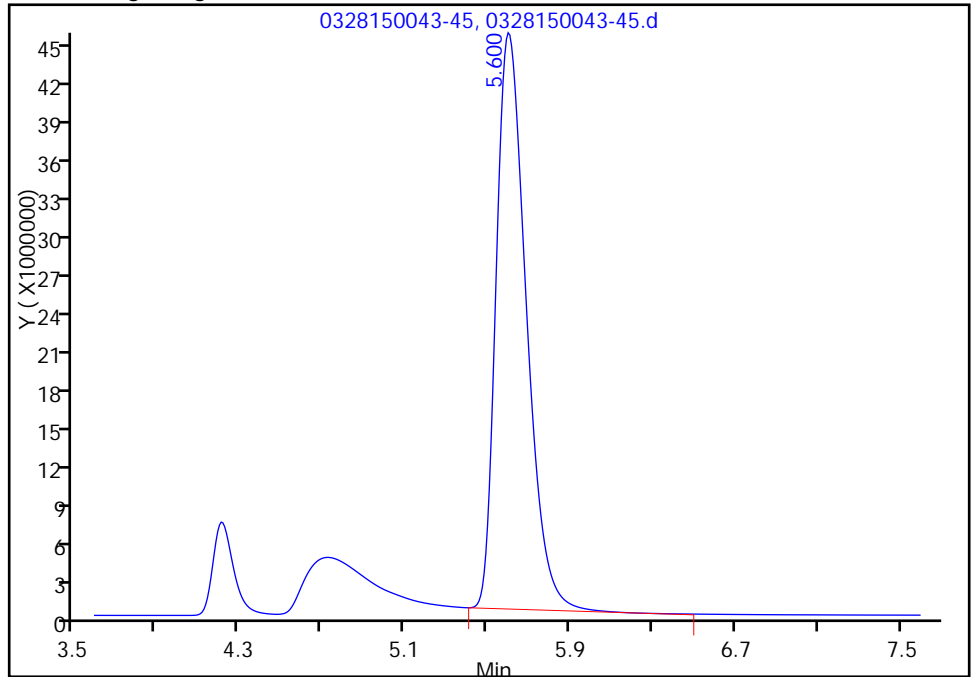
TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0328150043-45.d
Injection Date: 28-Mar-2015 00:43:00 Instrument ID: CICL
Lims ID: 680-110742-C-2 Lab Sample ID: 680-110742-2
Client ID: 25LM20116
Operator ID: ALS Bottle#: 0 Worklist Smp#: 42
Injection Vol: 25.0 ul Dil. Factor: 1.0000
Method: 300.0_9056A_CICL Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0423131702-17

3 Sulfate, CAS: 14808-79-8

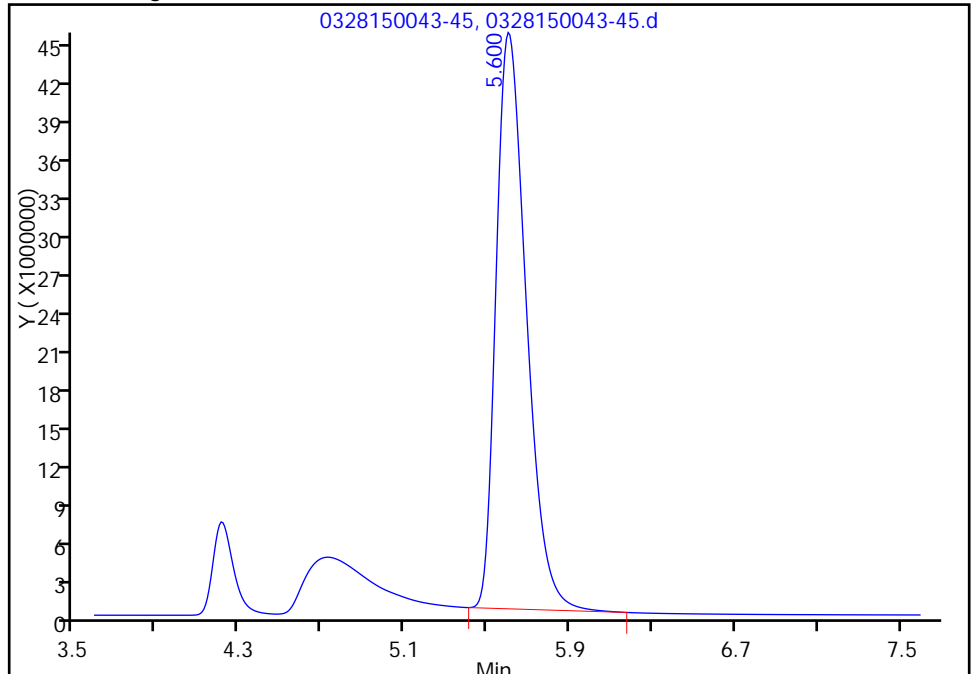
RT: 5.60
Area: 462963071
Amount: 25.418084
Amount Units: ug/ml

Processing Integration Results



RT: 5.60
Area: 462403863
Amount: 25.386972
Amount Units: ug/ml

Manual Integration Results



Reviewer: seabrooksd, 28-Mar-2015 10:41:47
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: 25LM20117 Lab Sample ID: 680-110742-3
 Matrix: Water Lab File ID: 0328150057-46.d
 Analysis Method: 300.0 Date Collected: 03/17/2015 14:51
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/28/2015 00:57
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376520 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	2.1		0.50	0.20
14808-79-8	Sulfate	4.2		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\0328150057-46.d
 Lims ID: 680-110742-C-3 Lab Sample ID: 680-110742-3
 Client ID: 25LM20117
 Sample Type: Client
 Inject. Date: 28-Mar-2015 00:57:00 ALS Bottle#: 0 Worklist Smp#: 43
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 680-110742-C-3 2L032715 connie
 Misc. Info.: 29280
 Operator ID: Instrument ID: CICL
 Method: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 28-Mar-2015 10:44:20 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

First Level Reviewer: seabrooksd Date: 28-Mar-2015 10:41:58

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
2 Chloride	4.208	4.217	-0.009	45962923	2.10	
3 Sulfate	5.642	5.625	0.017	81171560	4.18	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0328150057-46.d

Injection Date: 28-Mar-2015 00:57:00

Instrument ID: CICL

Operator ID:

Lims ID: 680-110742-C-3

Lab Sample ID: 680-110742-3

Worklist Smp#: 43

Client ID: 25LM20117

Injection Vol: 25.0 ul

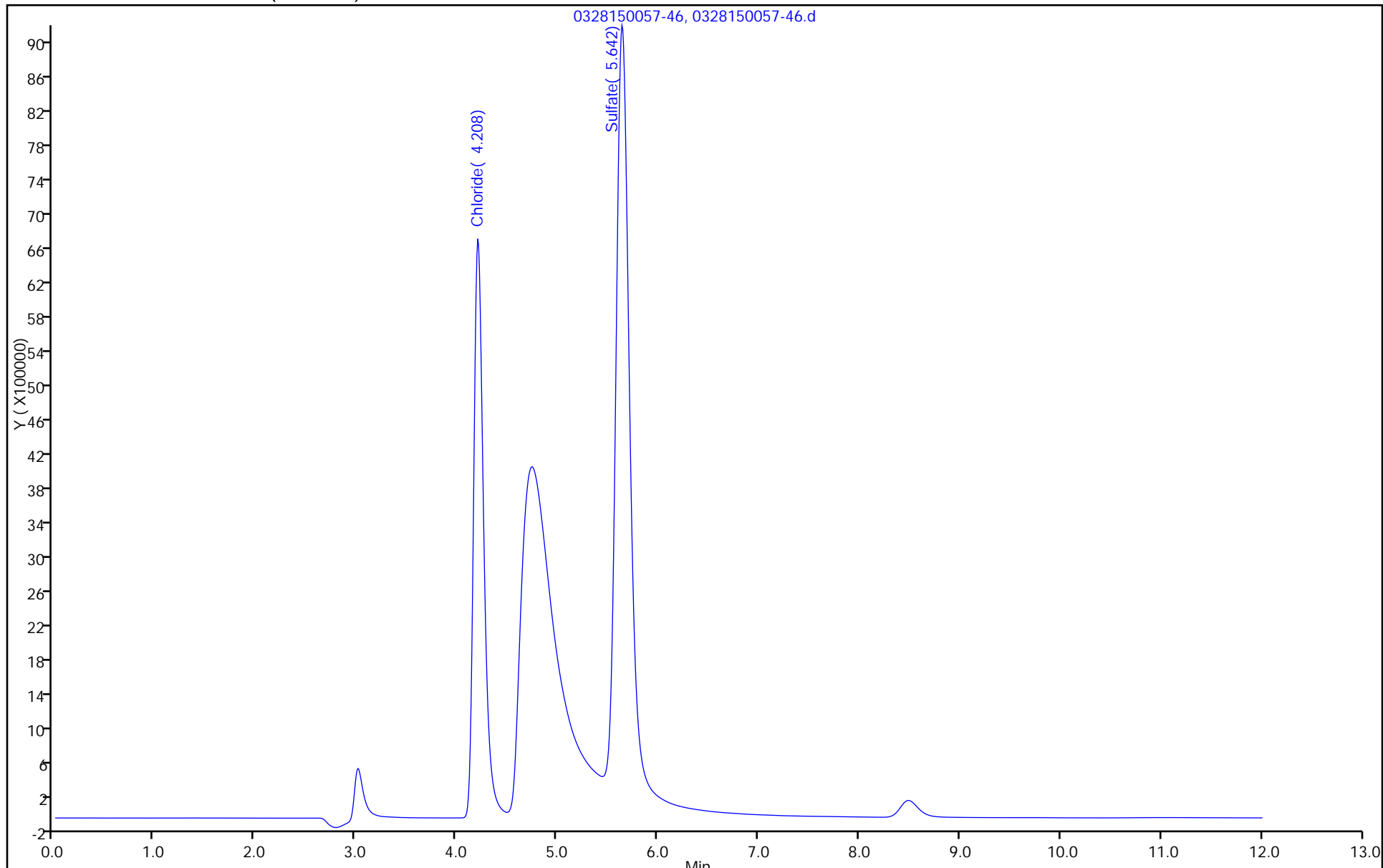
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



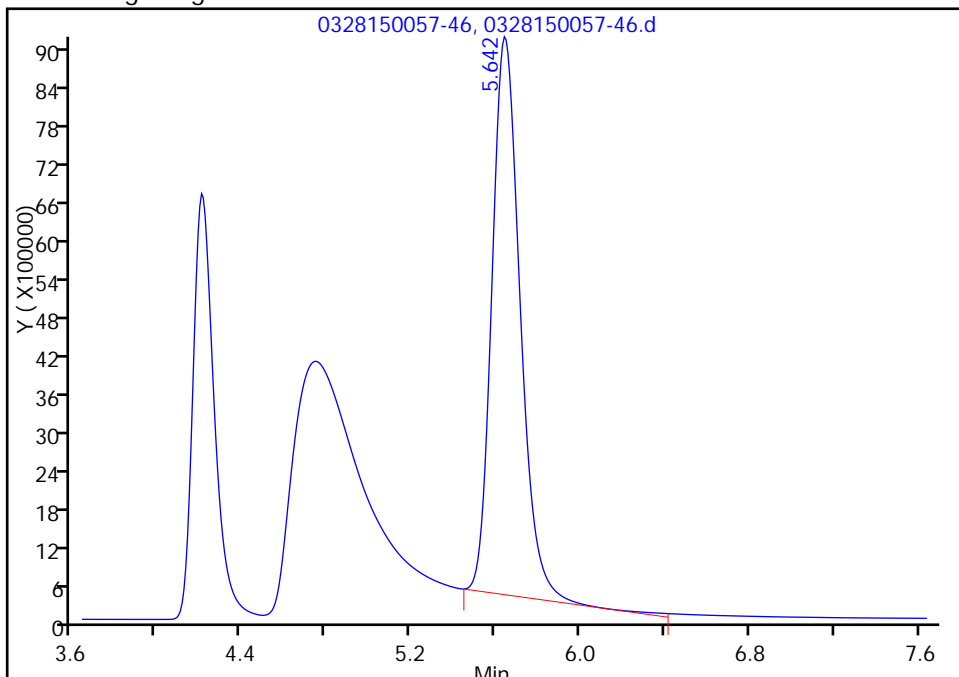
TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0328150057-46.d
Injection Date: 28-Mar-2015 00:57:00 Instrument ID: CICL
Lims ID: 680-110742-C-3 Lab Sample ID: 680-110742-3
Client ID: 25LM20117
Operator ID: ALS Bottle#: 0 Worklist Smp#: 43
Injection Vol: 25.0 ul Dil. Factor: 1.0000
Method: 300.0_9056A_CICL Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0423131702-17

3 Sulfate, CAS: 14808-79-8

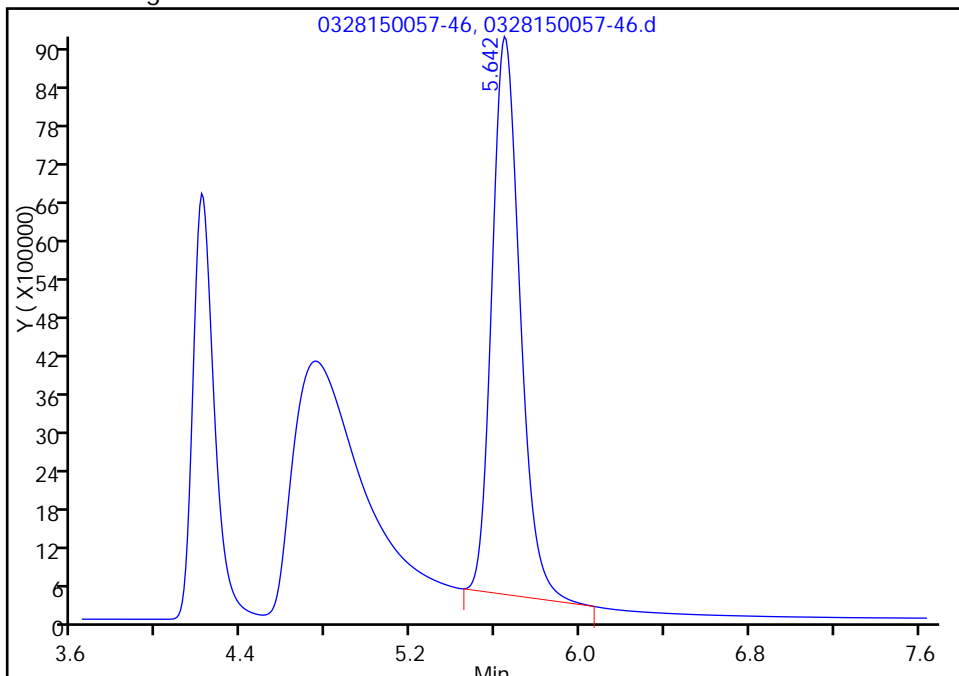
RT: 5.64
Area: 81672962
Amount: 4.204402
Amount Units: ug/ml

Processing Integration Results



RT: 5.64
Area: 81171560
Amount: 4.176506
Amount Units: ug/ml

Manual Integration Results



Reviewer: seabrooksd, 28-Mar-2015 10:41:58
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1 Analy Batch No.: 372954

SDG No.: _____

Instrument ID: CICL GC Column: Dionex AS18 ID: 4 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/02/2015 14:54 Calibration End Date: 03/02/2015 16:21 Calibration ID: 37920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-372954/1	0302151454-4.d
Level 2	IC 680-372954/2	0302151508-5.d
Level 3	IC 680-372954/3	0302151523-6.d
Level 4	IC 680-372954/4	0302151537-7.d
Level 5	IC 680-372954/5	0302151552-8.d
Level 6	IC 680-372954/6	0302151606-9.d
Level 7	IC 680-372954/7	0302151621-10.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Fluoride	3.025	3.025	3.025	3.025	3.033	3.033	3.033				2.775 - 3.275	3.028
Chloride	4.217	4.217	4.217	4.217	4.217	4.217	4.208				3.967 - 4.467	4.216
Sulfate	5.750	5.733	5.725	5.708	5.683	5.642	5.608				5.392 - 5.892	5.693
Bromide	7.108	7.117	7.108	7.100	7.083	7.058	+++++				6.850 - 7.350	7.096

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-110742-1 Analy Batch No.: 372954

SDG No.: _____

Instrument ID: CICL GC Column: Dionex AS18 ID: 4 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/02/2015 14:54 Calibration End Date: 03/02/2015 16:21 Calibration ID: 37920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-372954/1	0302151454-4.d
Level 2	IC 680-372954/2	0302151508-5.d
Level 3	IC 680-372954/3	0302151523-6.d
Level 4	IC 680-372954/4	0302151537-7.d
Level 5	IC 680-372954/5	0302151552-8.d
Level 6	IC 680-372954/6	0302151606-9.d
Level 7	IC 680-372954/7	0302151621-10.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Fluoride	35327560 37308302	34643130 38346188	36170598 36929721	37343060	Lin2	-269889.69	37308960.9							0.9990		0.9900
Chloride	18220998 23385381	19439218 23402956	21398613 23816423	22336917	Lin2	-2818574.3	23232361.5							0.9990		0.9900
Sulfate	23903554 18260485	21253843 17903181	19558249 17937622	18546180	Lin2	6103946.88	17973782.8							1.0000		0.9900
Bromide	6861794 9721009	7371137 10055612	8264588 +++++	9034528	Lin2	-1528739.1	9506906.56							0.9950		0.9900

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-110742-1 Analy Batch No.: 372954

SDG No.: _____

Instrument ID: CICL GC Column: Dionex AS18 ID: 4 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/02/2015 14:54 Calibration End Date: 03/02/2015 16:21 Calibration ID: 37920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-372954/1	0302151454-4.d
Level 2	IC 680-372954/2	0302151508-5.d
Level 3	IC 680-372954/3	0302151523-6.d
Level 4	IC 680-372954/4	0302151537-7.d
Level 5	IC 680-372954/5	0302151552-8.d
Level 6	IC 680-372954/6	0302151606-9.d
Level 7	IC 680-372954/7	0302151621-10.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Fluoride	Lin2	3532756 153384751	6928626 295437767	18085299	37343060	74616603	0.100 4.00	0.200 8.00	0.500	1.00	2.00
Chloride	Lin2	9110499 468059111	19439218 1190821160	53496532	111684585	233853808	0.500 20.0	1.00 50.0	2.50	5.00	10.0
Sulfate	Lin2	23903554 716127224	42507685 1076257342	97791243	185461795	365209692	1.00 40.0	2.00 60.0	5.00	10.0	20.0
Bromide	Lin2	3430897 201112244	7371137 +++++	20661469	45172639	97210092	0.500 20.0	1.00 +++++	2.50	5.00	10.0

Curve Type Legend:

Lin2 = Linear 1/conc^2

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151454-4.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 02-Mar-2015 14:54:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-1 1L030215 connie
 Misc. Info.: 4264
 Operator ID: Instrument ID: CICL
 Sublist: chrom-300.0_9056A_CICL*sub1
 Method: \\SAVCHROM\ChromData\CICL\20150302-17509.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 03-Mar-2015 09:32:09 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

First Level Reviewer: orra Date: 02-Mar-2015 15:40:33

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.025	3.025	0.000	3532756	0.1000	0.1019	
2 Chloride	4.217	4.217	0.000	9110499	0.5000	0.5135	
3 Sulfate	5.750	5.642	0.108	23903554	1.00	0.99	
4 Bromide	7.108	7.100	0.008	3430897	0.5000	0.5257	

Reagents:

Anion-1_00133 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151454-4.d

Injection Date: 02-Mar-2015 14:54:00

Instrument ID: CICL

Operator ID:

Lims ID: IC

Worklist Smp#: 1

Client ID:

Injection Vol: 25.0 ul

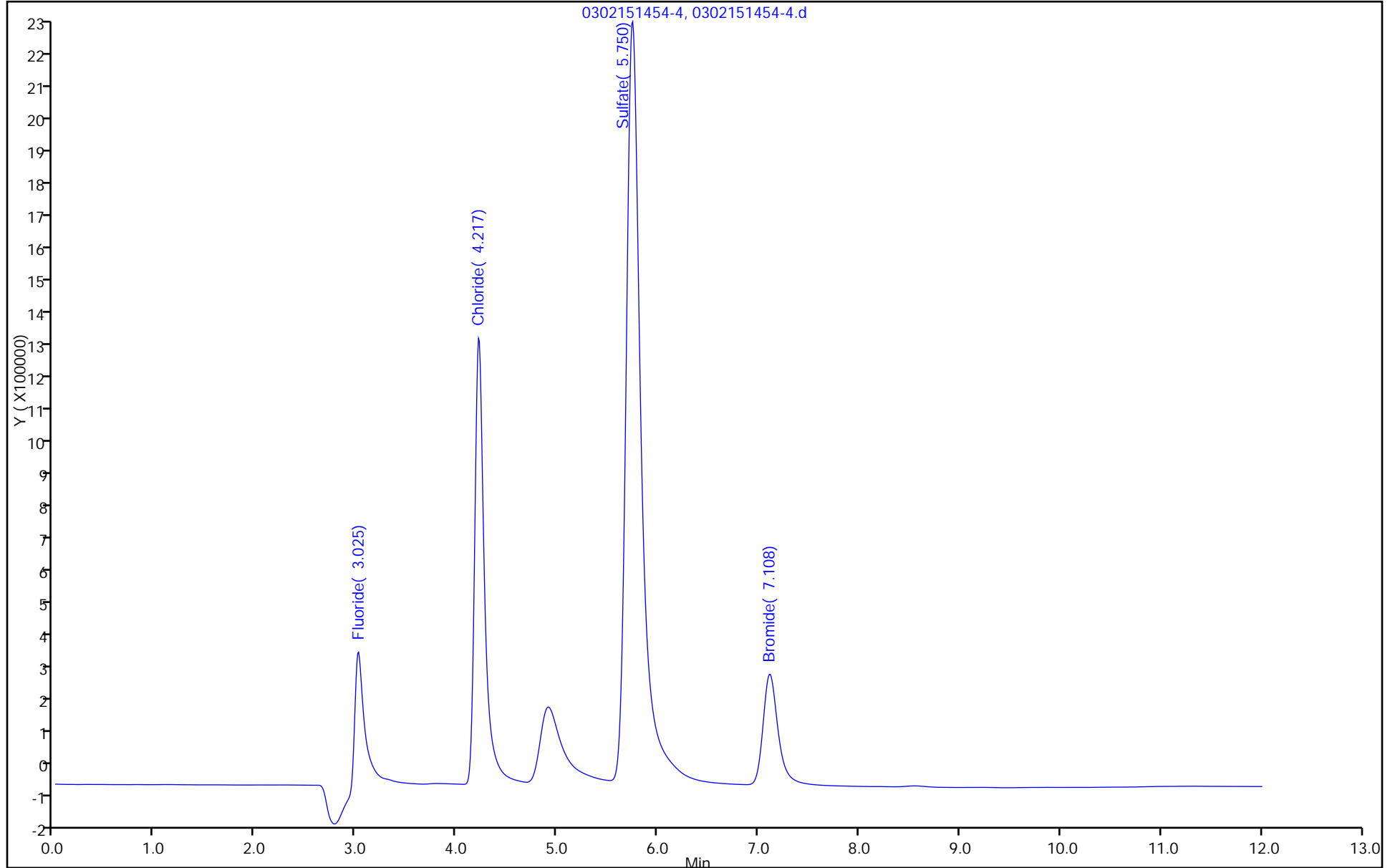
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



TestAmerica Savannah
 Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151508-5.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 02-Mar-2015 15:08:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-2 1L030215 connie
 Misc. Info.: 19345
 Operator ID: Instrument ID: CICL
 Sublist: chrom-300.0_9056A_CICL*sub1
 Method: \\SAVCHROM\ChromData\CICL\20150302-17509.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 03-Mar-2015 09:32:10 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

First Level Reviewer: orra Date: 02-Mar-2015 15:42:25

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.025	3.025	0.000	6928626	0.2000	0.1929	
2 Chloride	4.217	4.217	0.000	19439218	1.00	0.9581	
3 Sulfate	5.733	5.642	0.091	42507685	2.00	2.03	
4 Bromide	7.117	7.100	0.017	7371137	1.00	0.9311	

Reagents:

Anion-2_00086 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151508-5.d

Injection Date: 02-Mar-2015 15:08:00

Instrument ID: CICL

Operator ID:

Lims ID: IC

Worklist Smp#: 2

Client ID:

Injection Vol: 25.0 ul

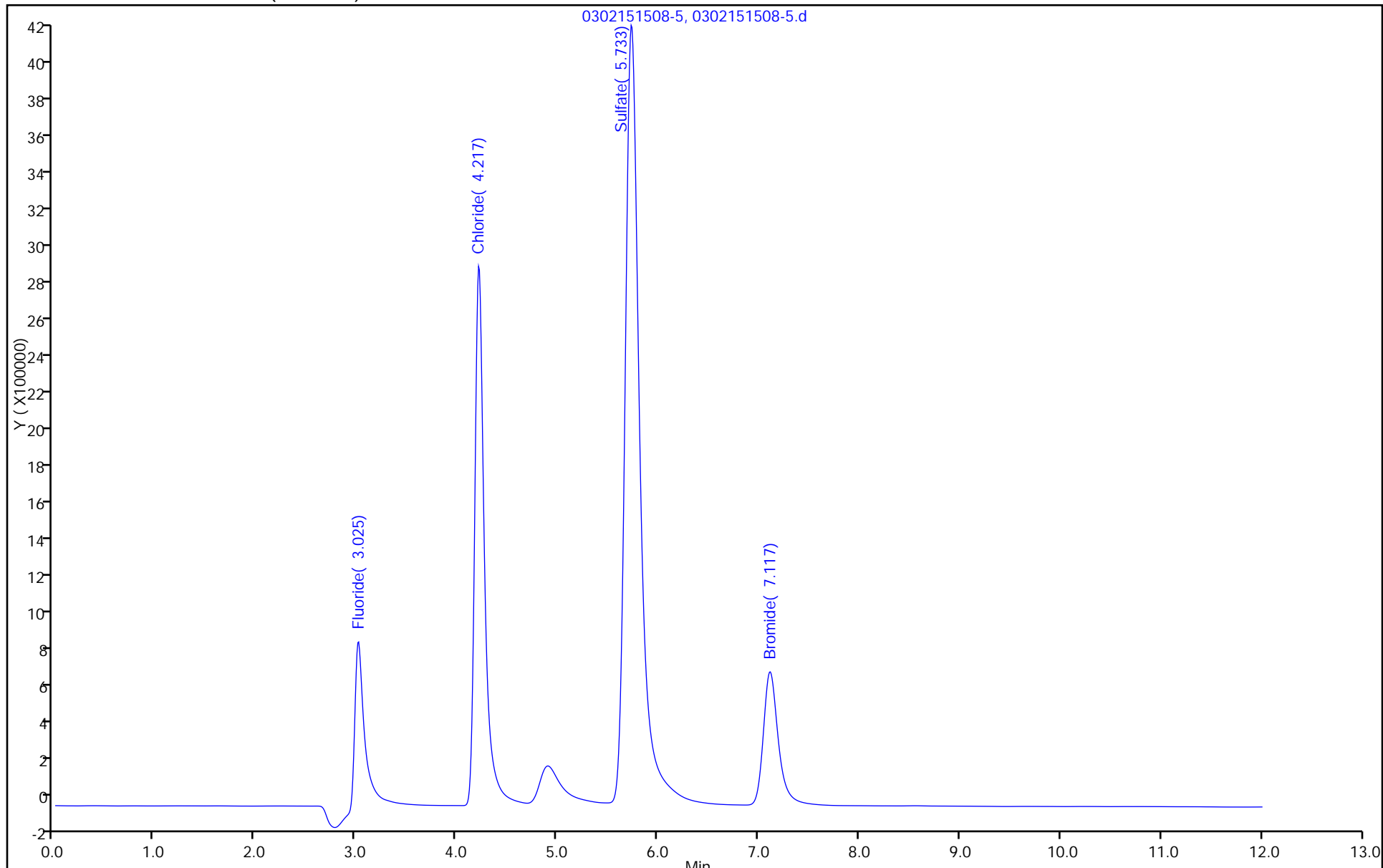
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151523-6.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 02-Mar-2015 15:23:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-3 1L030215 connie
 Misc. Info.: 18104
 Operator ID: Instrument ID: CICL
 Sublist: chrom-300.0_9056A_CICL*sub1
 Method: \\SAVCHROM\ChromData\CICL\20150302-17509.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 03-Mar-2015 09:32:10 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

First Level Reviewer: orra Date: 02-Mar-2015 15:43:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.025	3.025	0.000	18085299	0.5000	0.4920	
2 Chloride	4.217	4.217	0.000	53496532	2.50	2.42	
3 Sulfate	5.725	5.642	0.083	97791243	5.00	5.10	
4 Bromide	7.108	7.100	0.008	20661469	2.50	2.30	

Reagents:

Anion-3_00080 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151523-6.d

Injection Date: 02-Mar-2015 15:23:00

Instrument ID: CICL

Operator ID:

Lims ID: IC

Worklist Smp#: 3

Client ID:

Injection Vol: 25.0 ul

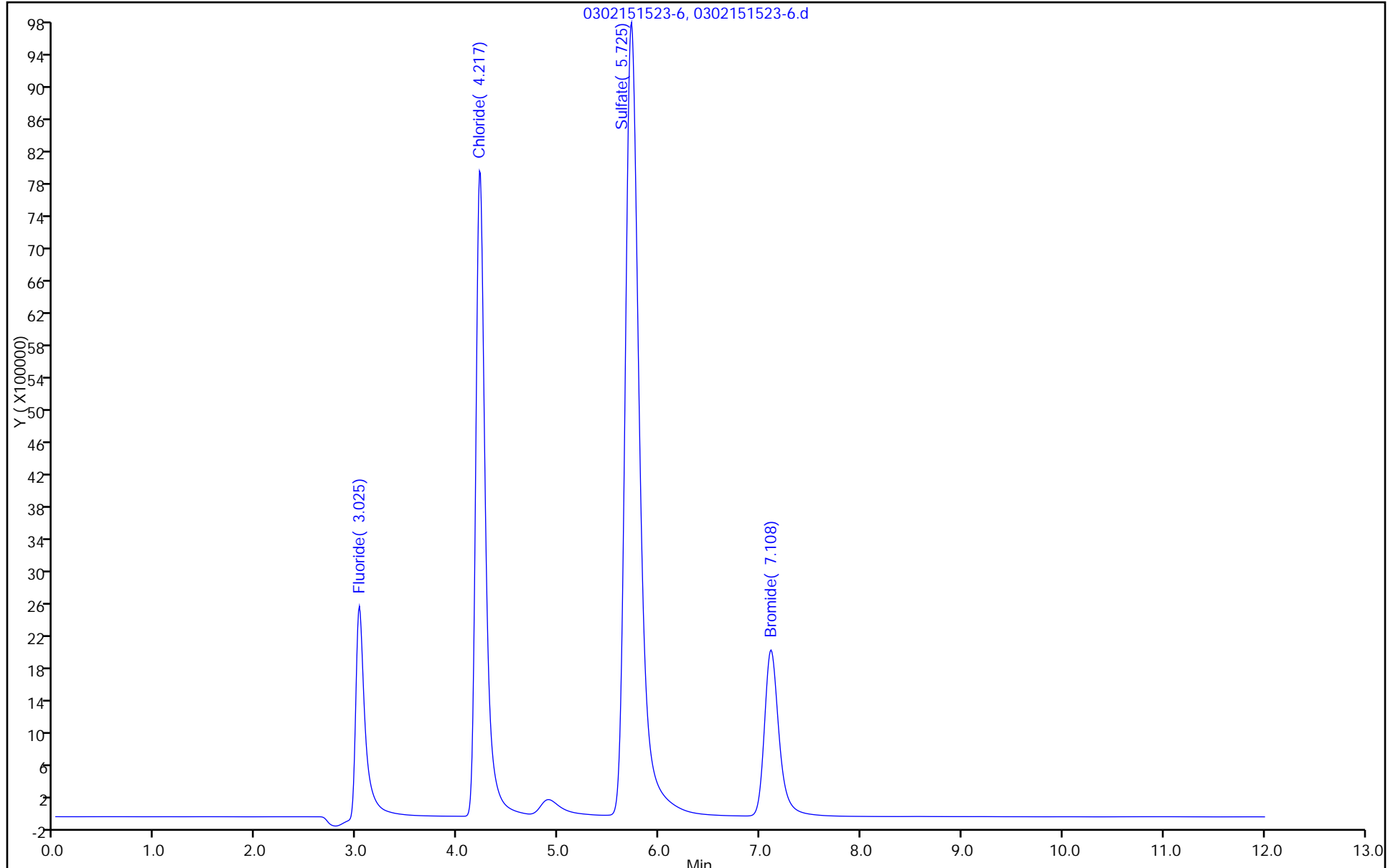
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151537-7.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 02-Mar-2015 15:37:00 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-4 1L030215 connie
 Misc. Info.: 12239
 Operator ID: Instrument ID: CICL
 Sublist: chrom-300.0_9056A_CICL*sub1
 Method: \\SAVCHROM\ChromData\CICL\20150302-17509.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 03-Mar-2015 09:32:11 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.025	3.025	0.000	37343060	1.00	1.01	
2 Chloride	4.217	4.217	0.000	111684585	5.00	4.93	
3 Sulfate	5.708	5.708	0.000	185461795	10.0	9.98	
4 Bromide	7.100	7.100	0.000	45172639	5.00	4.82	

Reagents:

Anion-4_00159 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151537-7.d

Injection Date: 02-Mar-2015 15:37:00

Instrument ID: CICL

Operator ID:

Lims ID: IC

Worklist Smp#: 4

Client ID:

Injection Vol: 25.0 ul

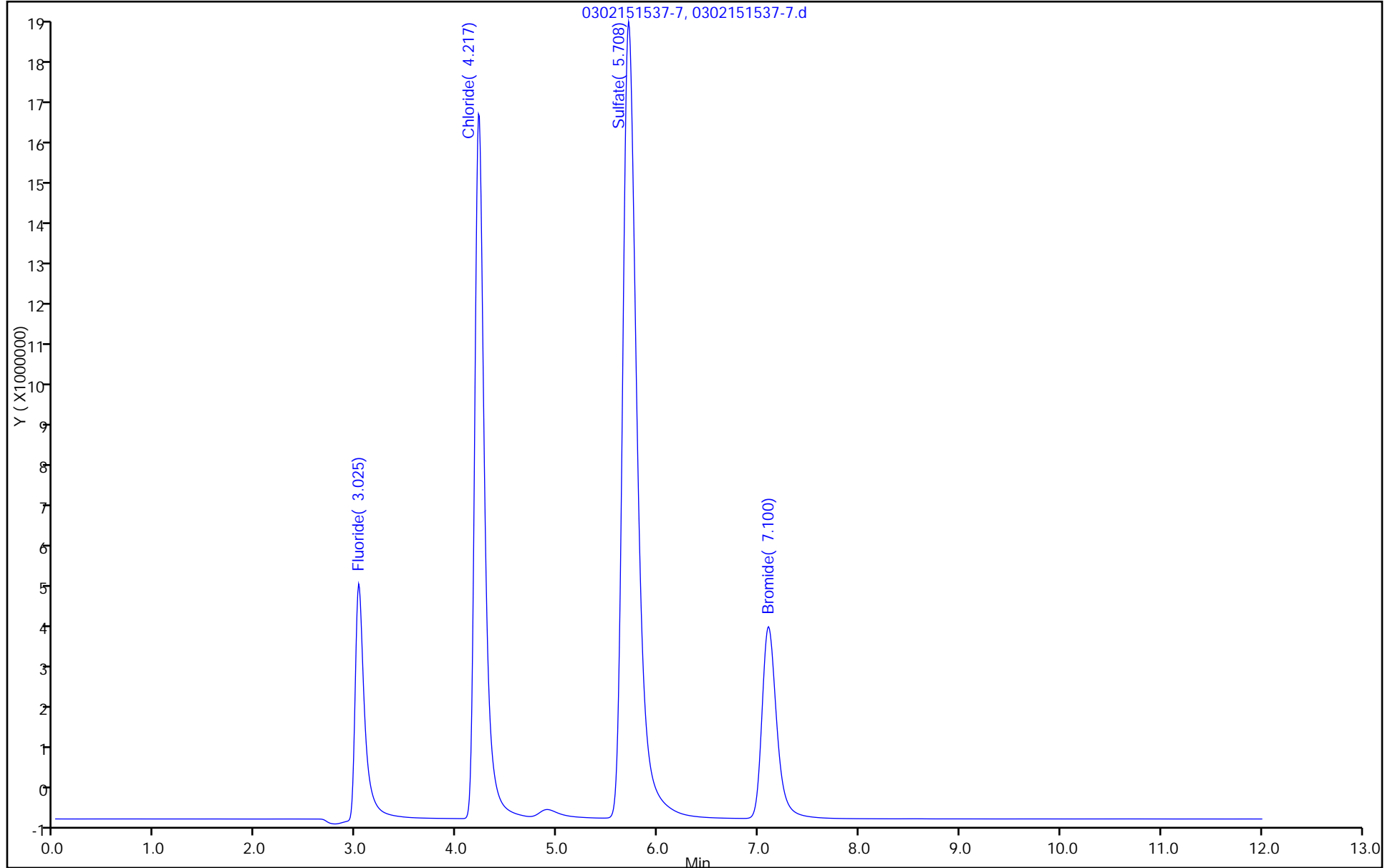
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151552-8.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 02-Mar-2015 15:52:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-5 1L030215 connie
 Misc. Info.: 2650
 Operator ID: Instrument ID: CICL
 Sublist: chrom-300.0_9056A_CICL*sub1
 Method: \\SAVCHROM\ChromData\CICL\20150302-17509.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 03-Mar-2015 09:32:11 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.033	3.025	0.008	74616603	2.00	2.01	
2 Chloride	4.217	4.217	0.000	233853808	10.0	10.2	
3 Sulfate	5.683	5.708	-0.025	365209692	20.0	20.0	
4 Bromide	7.083	7.100	-0.017	97210092	10.0	10.2	

Reagents:

Anion-5_00127 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151552-8.d

Injection Date: 02-Mar-2015 15:52:00

Instrument ID: CICL

Operator ID:

Lims ID: IC

Worklist Smp#: 5

Client ID:

Injection Vol: 25.0 ul

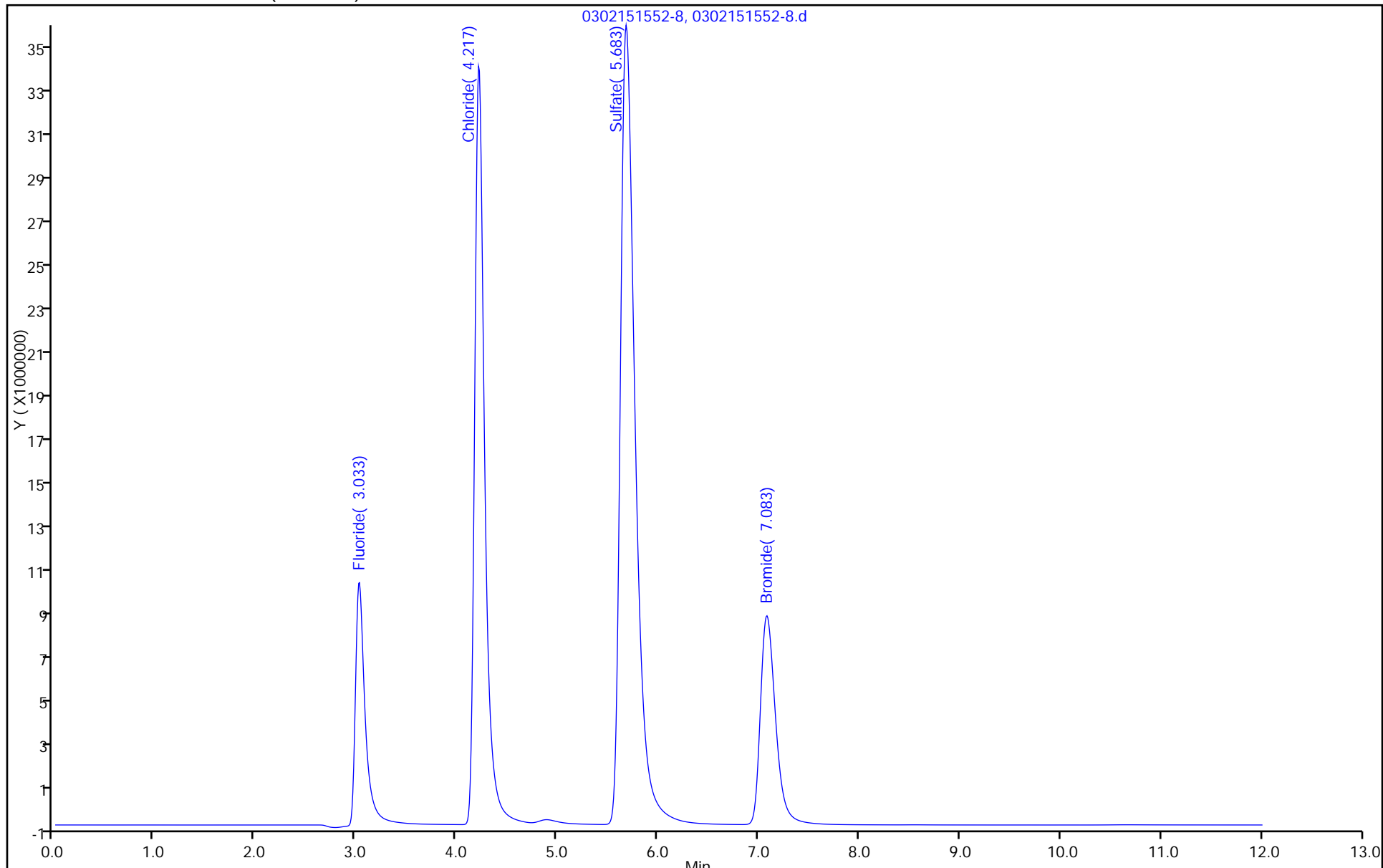
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151606-9.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 02-Mar-2015 16:06:00 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-6 1L030215 connie
 Misc. Info.: 2296
 Operator ID: Instrument ID: CICL
 Sublist: chrom-300.0_9056A_CICL*sub1
 Method: \\SAVCHROM\ChromData\CICL\20150302-17509.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 03-Mar-2015 09:32:11 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.033	3.025	0.008	153384751	4.00	4.12	
2 Chloride	4.217	4.217	0.000	468059111	20.0	20.3	
3 Sulfate	5.642	5.708	-0.066	716127224	40.0	39.5	
4 Bromide	7.058	7.100	-0.042	201112244	20.0	20.9	

Reagents:

Anion-6_00081 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151606-9.d

Injection Date: 02-Mar-2015 16:06:00

Instrument ID: CICL

Operator ID:

Lims ID: IC

Worklist Smp#: 6

Client ID:

Injection Vol: 25.0 ul

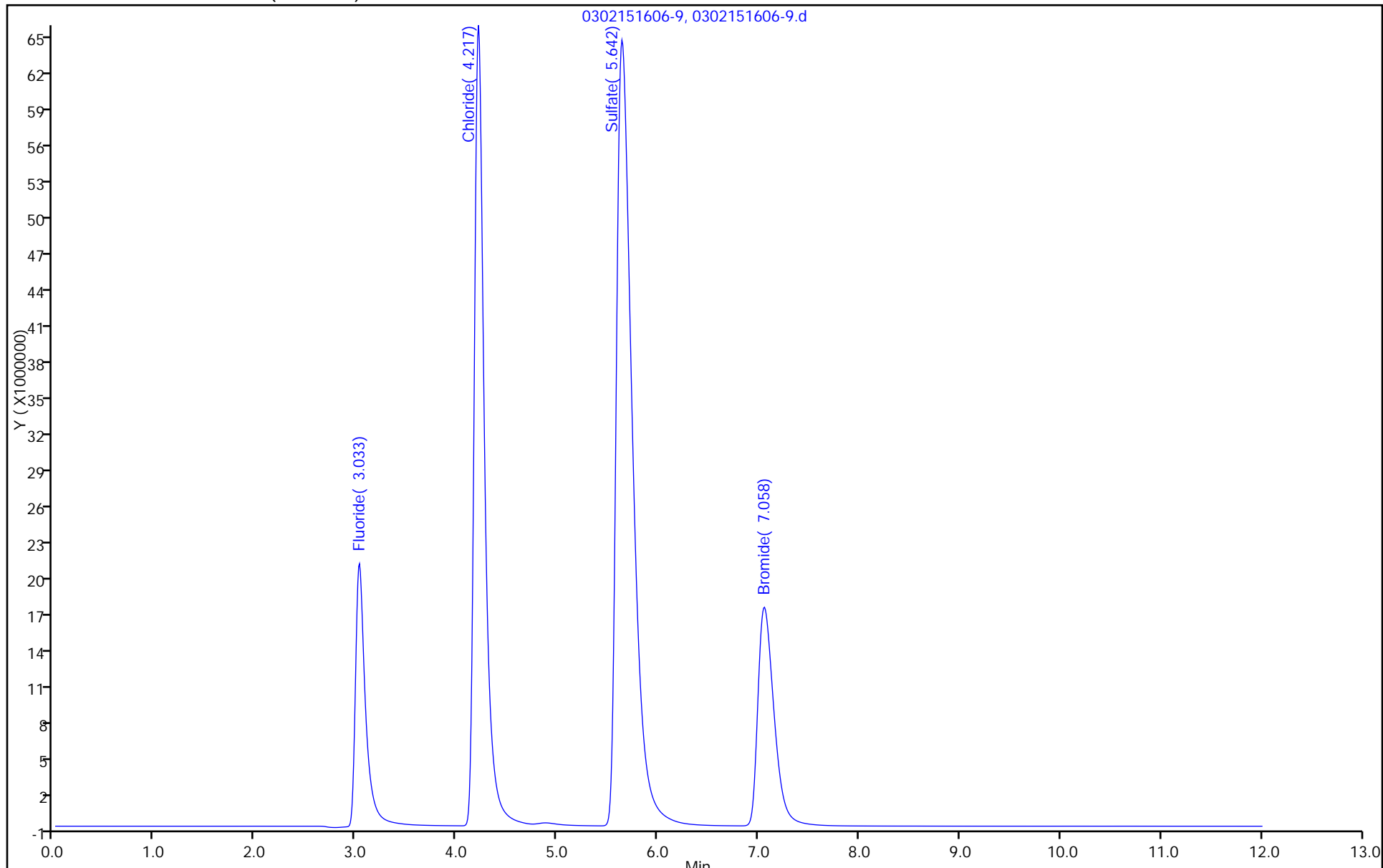
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 02-Mar-2015 16:21:00 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-7 1L030215 connie
 Misc. Info.: 13136
 Operator ID: Instrument ID: CICL
 Sublist: chrom-300.0_9056A_CICL*sub1
 Method: \\SAVCHROM\ChromData\CICL\20150302-17509.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 03-Mar-2015 09:45:11 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

First Level Reviewer: orra Date: 03-Mar-2015 09:45:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.033	3.025	0.008	295437767	8.00	7.93	
2 Chloride	4.208	4.217	-0.009	1190821160	50.0	51.4	M
3 Sulfate	5.608	5.642	-0.034	1076257342	60.0	59.5	
4 Bromide	6.992	7.100	-0.108	519941833	50.0	54.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Anion-7_00021 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d

Injection Date: 02-Mar-2015 16:21:00

Instrument ID: CICL

Operator ID:

Lims ID: IC

Worklist Smp#: 7

Client ID:

Injection Vol: 25.0 ul

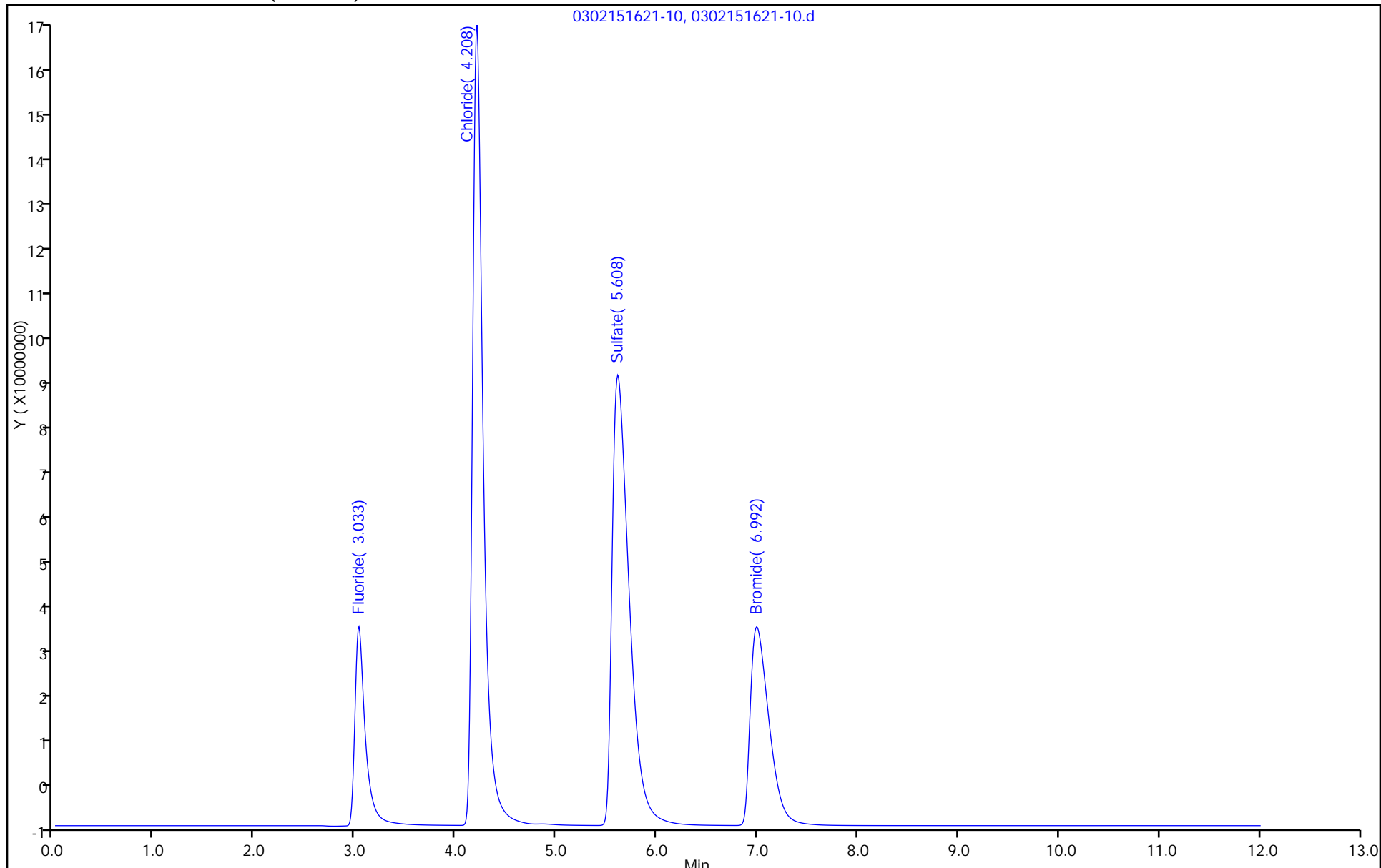
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



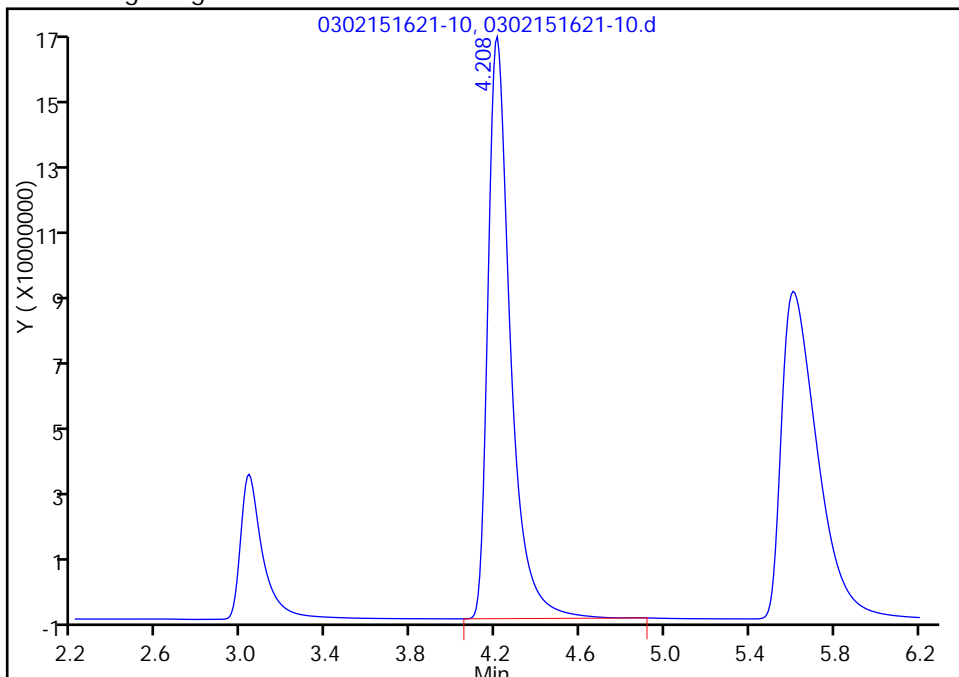
TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d
Injection Date: 02-Mar-2015 16:21:00 Instrument ID: CICL
Lims ID: IC
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 25.0 ul Dil. Factor: 1.0000
Method: 300.0_9056A_CICL Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0423131702-17

2 Chloride, CAS: 16887-00-6

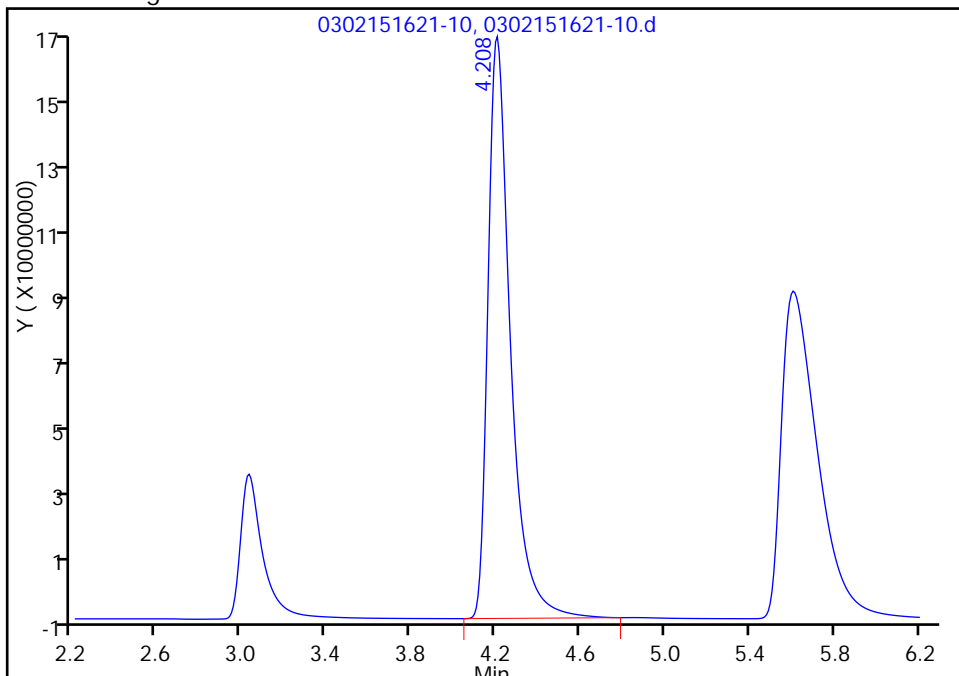
RT: 4.21
Area: 1192620219
Amount: 51.437640
Amount Units: ug/ml

Processing Integration Results



RT: 4.21
Area: 1190821160
Amount: 51.378321
Amount Units: ug/ml

Manual Integration Results



Reviewer: orra, 03-Mar-2015 09:18:21
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: ICV 680-372954/9 Calibration Date: 03/02/2015 16:50
 Instrument ID: CICL Calib Start Date: 03/02/2015 14:54
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/02/2015 16:21
 Lab File ID: 0302151650-12.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin2		37849422		2.04	2.00	1.8	10.0
Chloride	Lin2		23106818		10.1	10.0	0.7	10.0
Sulfate	Lin2		18291740		9.84	10.0	-1.6	10.0
Bromide	Lin2	8551445	9711208		10.2	10.0	1.6	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: ICV 680-372954/9 Calibration Date: 03/02/2015 16:50
 Instrument ID: CICL Calib Start Date: 03/02/2015 14:54
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/02/2015 16:21
 Lab File ID: 0302151650-12.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.03	2.78	3.28
Chloride	4.22	3.97	4.47
Sulfate	5.70	5.46	5.96
Bromide	7.08	6.85	7.35

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151650-12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 02-Mar-2015 16:50:00 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ICV 1L030215 connie
 Misc. Info.: 17606
 Operator ID: Instrument ID: CICL
 Sublist:
 Method: \\SAVCHROM\ChromData\CICL\20150302-17509.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 03-Mar-2015 09:32:12 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.025	3.025	0.000	75698843	2.00	2.04	
2 Chloride	4.217	4.217	0.000	231068182	10.0	10.1	
3 Sulfate	5.700	5.708	-0.008	182917399	10.0	9.84	
4 Bromide	7.083	7.100	-0.017	97112079	10.0	10.2	

Reagents:

Anion-ICV_00043 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICL\20150302-17509.b\0302151650-12.d

Injection Date: 02-Mar-2015 16:50:00

Instrument ID: CICL

Operator ID:

Lims ID: ICV

Worklist Smp#: 9

Client ID:

Injection Vol: 25.0 ul

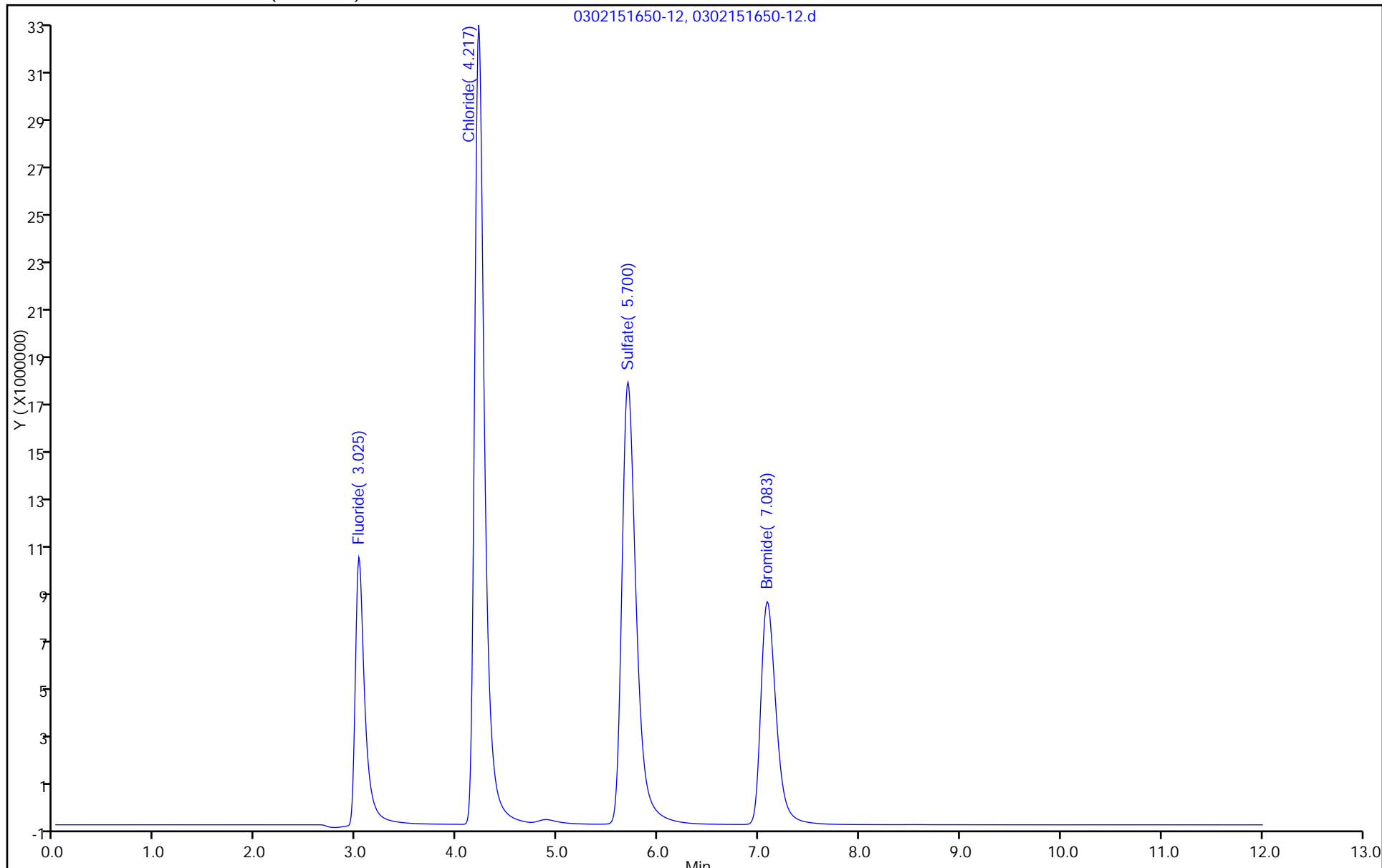
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376520/24 Calibration Date: 03/27/2015 20:22
 Instrument ID: CICL Calib Start Date: 03/02/2015 14:54
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/02/2015 16:21
 Lab File ID: 0327152022-27.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin2		39943673		2.15	2.00	7.4	10.0
Chloride	Lin2		24301811		10.6	10.0	5.8	10.0
Sulfate	Lin2		18007703		19.7	20.0	-1.5	10.0
Bromide	Lin2	8551445	10028220		10.5	10.0	4.9	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376520/24 Calibration Date: 03/27/2015 20:22
 Instrument ID: CICL Calib Start Date: 03/02/2015 14:54
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/02/2015 16:21
 Lab File ID: 0327152022-27.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.03	2.78	3.28
Chloride	4.22	3.97	4.47
Sulfate	5.64	5.39	5.89
Bromide	7.05	6.80	7.30

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\0327152022-27.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Mar-2015 20:22:00 ALS Bottle#: 0 Worklist Smp#: 24
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-5 2L032715 connie
 Misc. Info.: 4906 3976171
 Operator ID: Instrument ID: CICL
 Sublist: chrom-300.0_9056A_CICL*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 28-Mar-2015 10:44:15 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.033	3.033	0.000	79887346	2.00	2.15	
2 Chloride	4.217	4.217	0.000	243018113	10.0	10.6	
3 Sulfate	5.642	5.642	0.000	360154051	20.0	19.7	
4 Bromide	7.050	7.050	0.000	100282200	10.0	10.5	

Reagents:

Anion-5_00130 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0327152022-27.d

Injection Date: 27-Mar-2015 20:22:00

Instrument ID: CICL

Operator ID:

Lims ID: CCV

Worklist Smp#: 24

Client ID:

Injection Vol: 25.0 ul

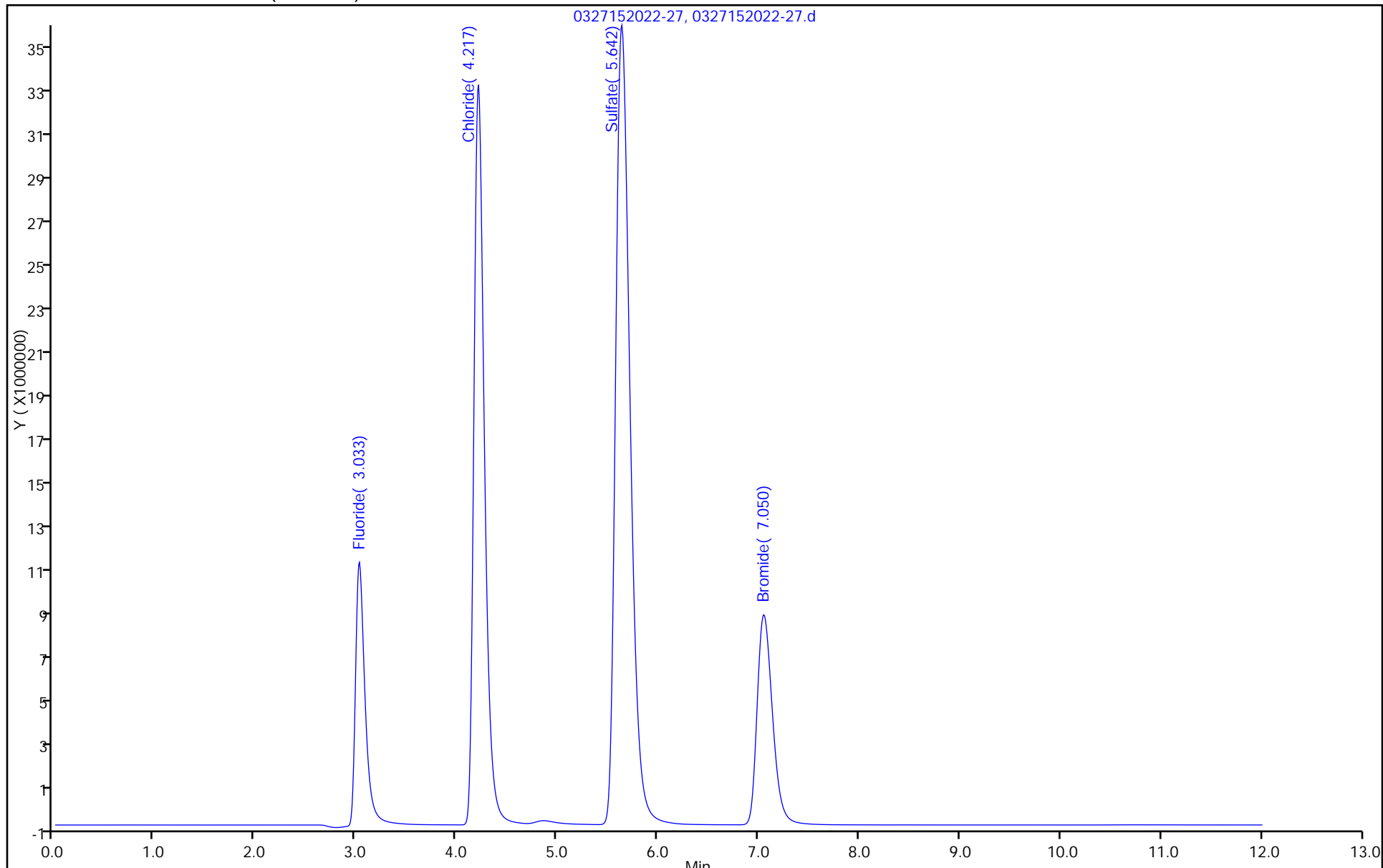
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376520/38 Calibration Date: 03/27/2015 23:45
 Instrument ID: CICL Calib Start Date: 03/02/2015 14:54
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/02/2015 16:21
 Lab File ID: 0327152345-41.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin2		39532157		2.13	2.00	6.3	10.0
Chloride	Lin2		24296084		10.6	10.0	5.8	10.0
Sulfate	Lin2		17822433		19.5	20.0	-2.5	10.0
Bromide	Lin2	8551445	10023991		10.5	10.0	4.9	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376520/38 Calibration Date: 03/27/2015 23:45
 Instrument ID: CICL Calib Start Date: 03/02/2015 14:54
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/02/2015 16:21
 Lab File ID: 0327152345-41.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.03	2.78	3.28
Chloride	4.22	3.97	4.47
Sulfate	5.63	5.38	5.88
Bromide	7.06	6.81	7.31

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\0327152345-41.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Mar-2015 23:45:00 ALS Bottle#: 0 Worklist Smp#: 38
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-5 2L032715 connie
 Misc. Info.: 42 3976171
 Operator ID: Instrument ID: CICL
 Sublist: chrom-300.0_9056A_CICL*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 28-Mar-2015 10:44:20 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.025	3.025	0.000	79064313	2.00	2.13	
2 Chloride	4.217	4.217	0.000	242960835	10.0	10.6	
3 Sulfate	5.625	5.625	0.000	356448656	20.0	19.5	
4 Bromide	7.058	7.058	0.000	100239913	10.0	10.5	

Reagents:

Anion-5_00130 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0327152345-41.d

Injection Date: 27-Mar-2015 23:45:00

Instrument ID: CICL

Operator ID:

Lims ID: CCV

Worklist Smp#: 38

Client ID:

Injection Vol: 25.0 ul

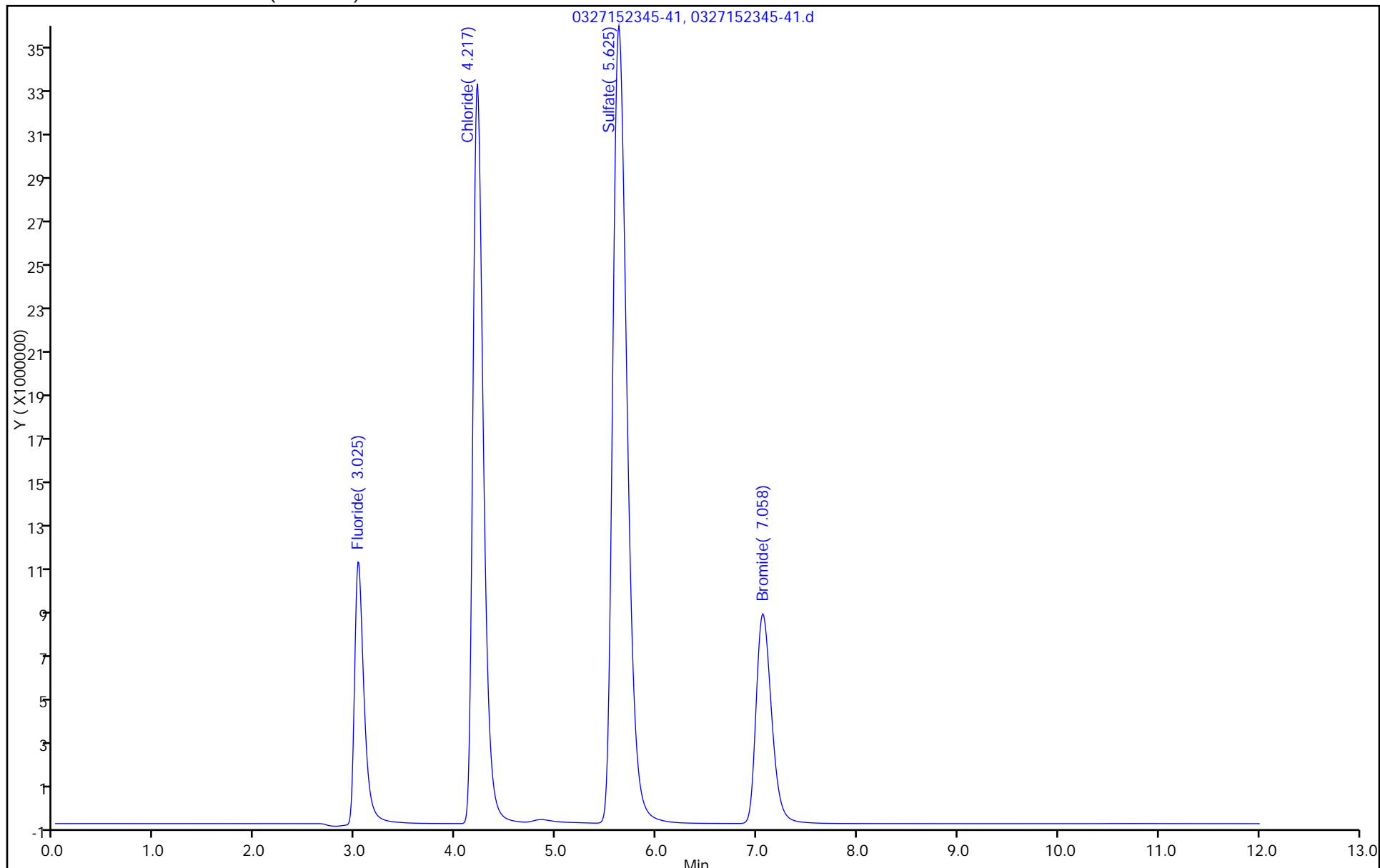
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376520/50 Calibration Date: 03/28/2015 02:39
 Instrument ID: CICL Calib Start Date: 03/02/2015 14:54
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/02/2015 16:21
 Lab File ID: 0328150239-53.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin2		39616064		2.13	2.00	6.5	10.0
Chloride	Lin2		24273777		10.6	10.0	5.7	10.0
Sulfate	Lin2		17766321		19.4	20.0	-2.9	10.0
Bromide	Lin2	8551445	9994452		10.5	10.0	4.6	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376520/50 Calibration Date: 03/28/2015 02:39
 Instrument ID: CICL Calib Start Date: 03/02/2015 14:54
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/02/2015 16:21
 Lab File ID: 0328150239-53.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.03	2.78	3.28
Chloride	4.22	3.97	4.47
Sulfate	5.63	5.38	5.88
Bromide	7.06	6.81	7.31

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\0328150239-53.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Mar-2015 02:39:00 ALS Bottle#: 0 Worklist Smp#: 50
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-5 3L032715 connie
 Misc. Info.: 12159 3976171
 Operator ID: Instrument ID: CICL
 Sublist: chrom-300.0_9056A_CICL*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 28-Mar-2015 10:44:23 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.025	3.025	0.000	79232127	2.00	2.13	
2 Chloride	4.217	4.217	0.000	242737768	10.0	10.6	
3 Sulfate	5.625	5.625	0.000	355326418	20.0	19.4	
4 Bromide	7.058	7.058	0.000	99944517	10.0	10.5	

Reagents:

Anion-5_00130 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0328150239-53.d

Injection Date: 28-Mar-2015 02:39:00

Instrument ID: CICL

Operator ID:

Lims ID: CCV

Worklist Smp#: 50

Client ID:

Injection Vol: 25.0 ul

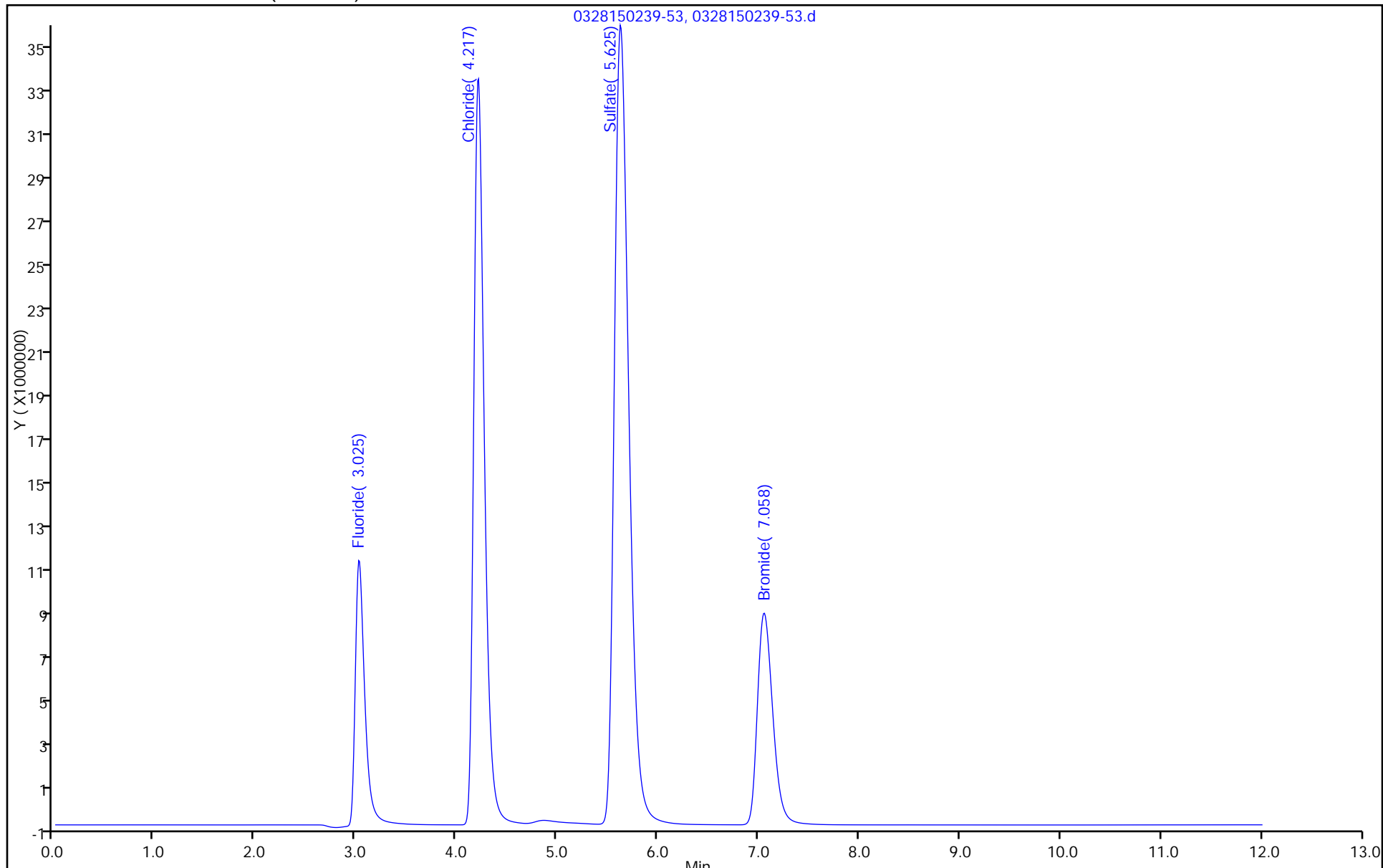
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-376520/25
 Matrix: Water Lab File ID: 0327152036-28.d
 Analysis Method: 300.0 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 20:36
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376520 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	ND		0.50	0.20
14808-79-8	Sulfate	ND		1.0	0.40

TestAmerica Savannah
 Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\0327152036-28.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 27-Mar-2015 20:36:00 ALS Bottle#: 0 Worklist Smp#: 25
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: CCB 2L032715 connie
 Misc. Info.: 31981
 Operator ID: Instrument ID: CICL
 Method: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 28-Mar-2015 10:44:15 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0327152036-28.d

Injection Date: 27-Mar-2015 20:36:00

Instrument ID: CICL

Operator ID:

Lims ID: CCB

Worklist Smp#: 25

Client ID:

Injection Vol: 25.0 ul

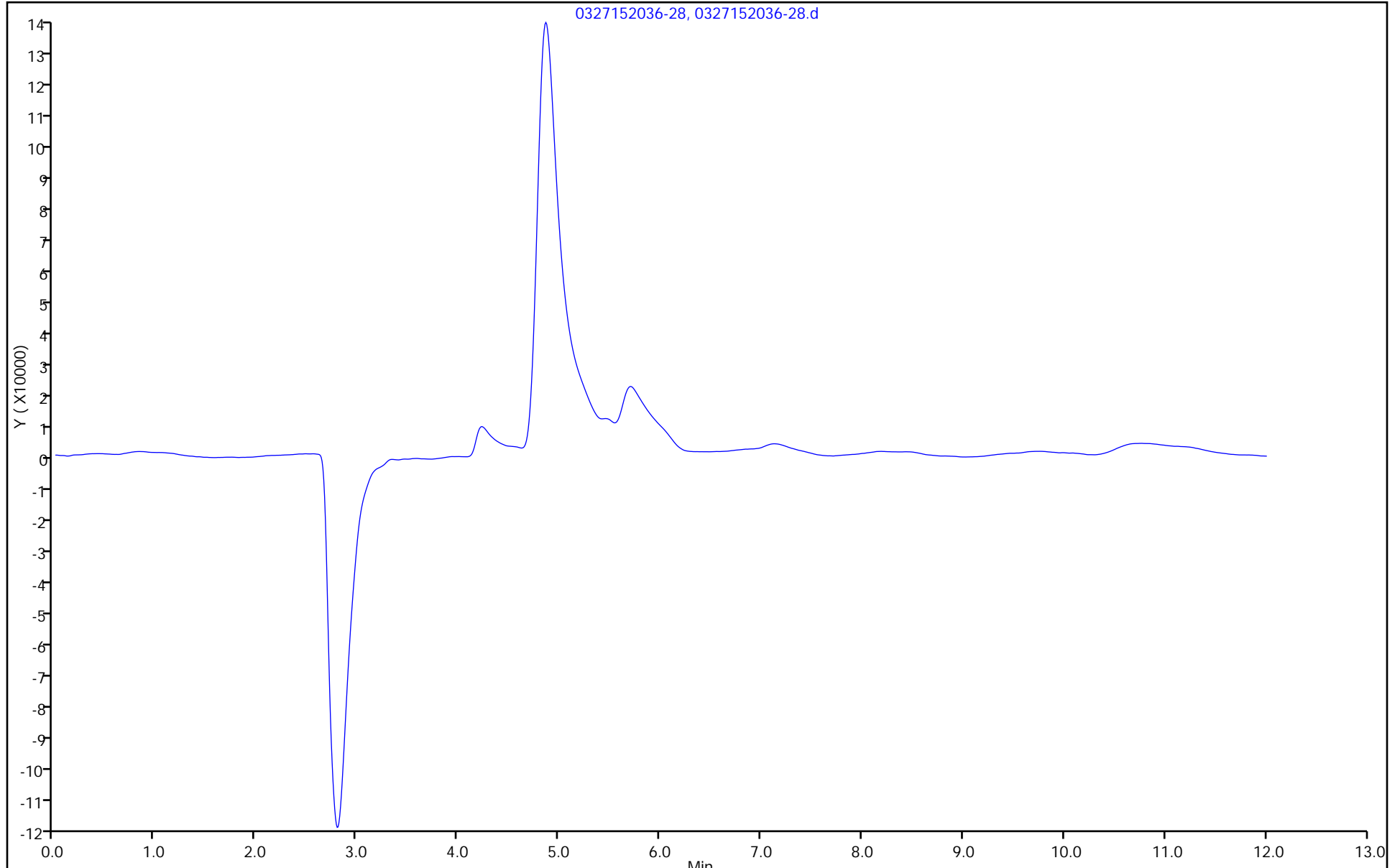
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-376520/26
 Matrix: Water Lab File ID: 0327152051-29.d
 Analysis Method: 300.0 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 20:51
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376520 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	10.4		0.50	0.20
14808-79-8	Sulfate	9.72		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\0327152051-29.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Mar-2015 20:51:00 ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 2L032715 connie
 Misc. Info.: 2065 3975452
 Operator ID: Instrument ID: CICL
 Method: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 28-Mar-2015 10:44:15 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.033	3.033	0.000	79944983	2.00	2.15	
2 Chloride	4.217	4.217	0.000	238799183	10.0	10.4	
3 Sulfate	5.650	5.642	0.008	180875182	10.0	9.72	
4 Bromide	7.058	7.050	0.008	99836821	10.0	10.4	

Reagents:

Anion-ICV_00044 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0327152051-29.d

Injection Date: 27-Mar-2015 20:51:00

Instrument ID: CICL

Operator ID:

Lims ID: LCS

Worklist Smp#: 26

Client ID:

Injection Vol: 25.0 ul

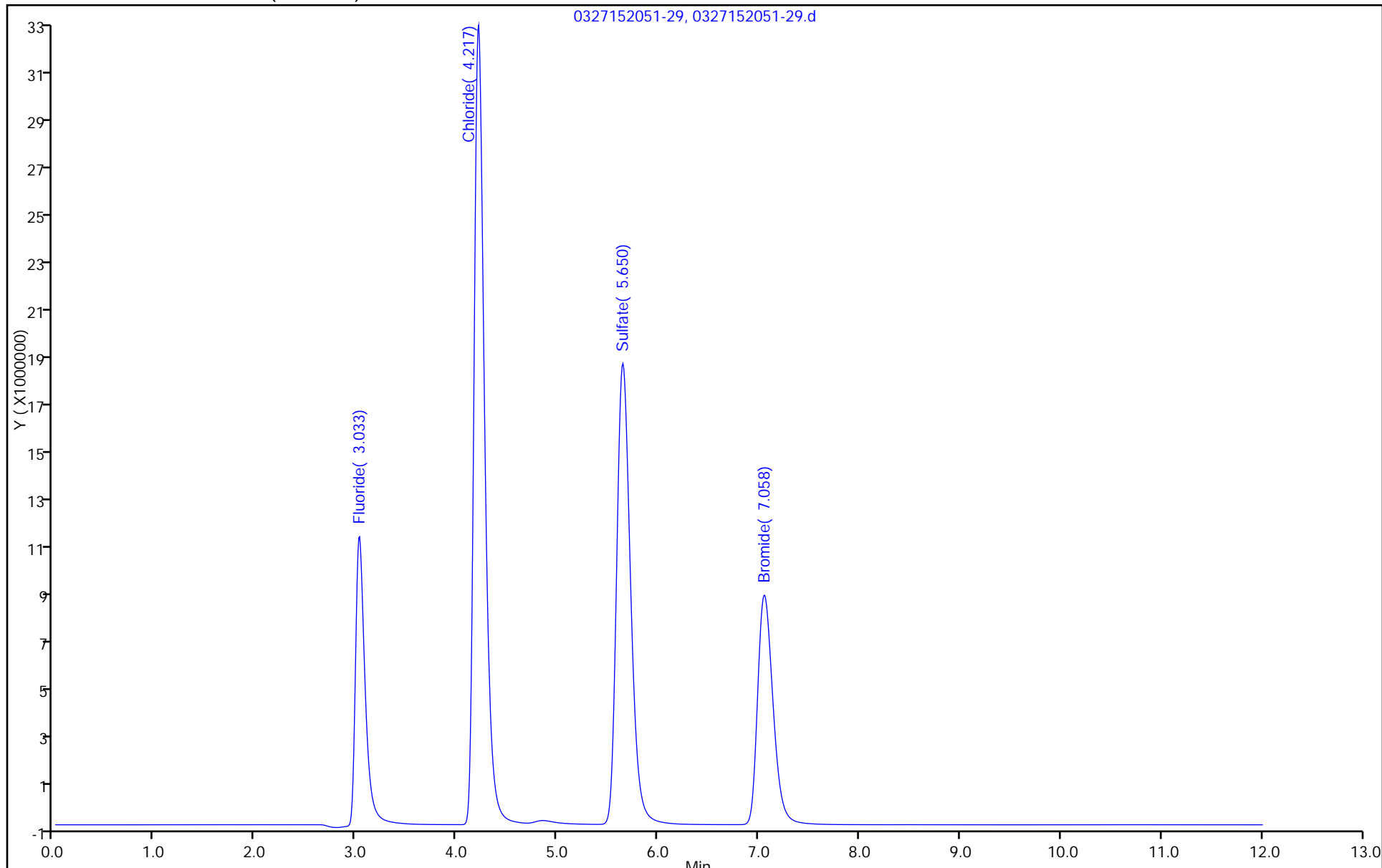
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-376520/27
 Matrix: Water Lab File ID: 0327152105-30.d
 Analysis Method: 300.0 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 21:05
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376520 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	10.4		0.50	0.20
14808-79-8	Sulfate	9.75		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\0327152105-30.d
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 27-Mar-2015 21:05:00 ALS Bottle#: 0 Worklist Smp#: 27
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 2L032715 connie
 Misc. Info.: 11080 3975452
 Operator ID: Instrument ID: CICL
 Method: \\ChromNA\g1\Savannah\ChromData\CICL\20150327-18239.b\300.0_9056A_CICL.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 28-Mar-2015 10:44:15 Calib Date: 02-Mar-2015 16:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICL\20150302-17509.b\0302151621-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0423131702-17
 Process Host: XAWRK015

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.025	3.033	-0.008	80276767	2.00	2.16	
2 Chloride	4.217	4.217	0.000	238981007	10.0	10.4	
3 Sulfate	5.650	5.642	0.008	181357563	10.0	9.75	
4 Bromide	7.050	7.050	0.000	99838290	10.0	10.4	

Reagents:

Anion-ICV_00044 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICL\20150327-18239.b\0327152105-30.d

Injection Date: 27-Mar-2015 21:05:00

Instrument ID: CICL

Operator ID:

Lims ID: LCSD

Worklist Smp#: 27

Client ID:

Injection Vol: 25.0 ul

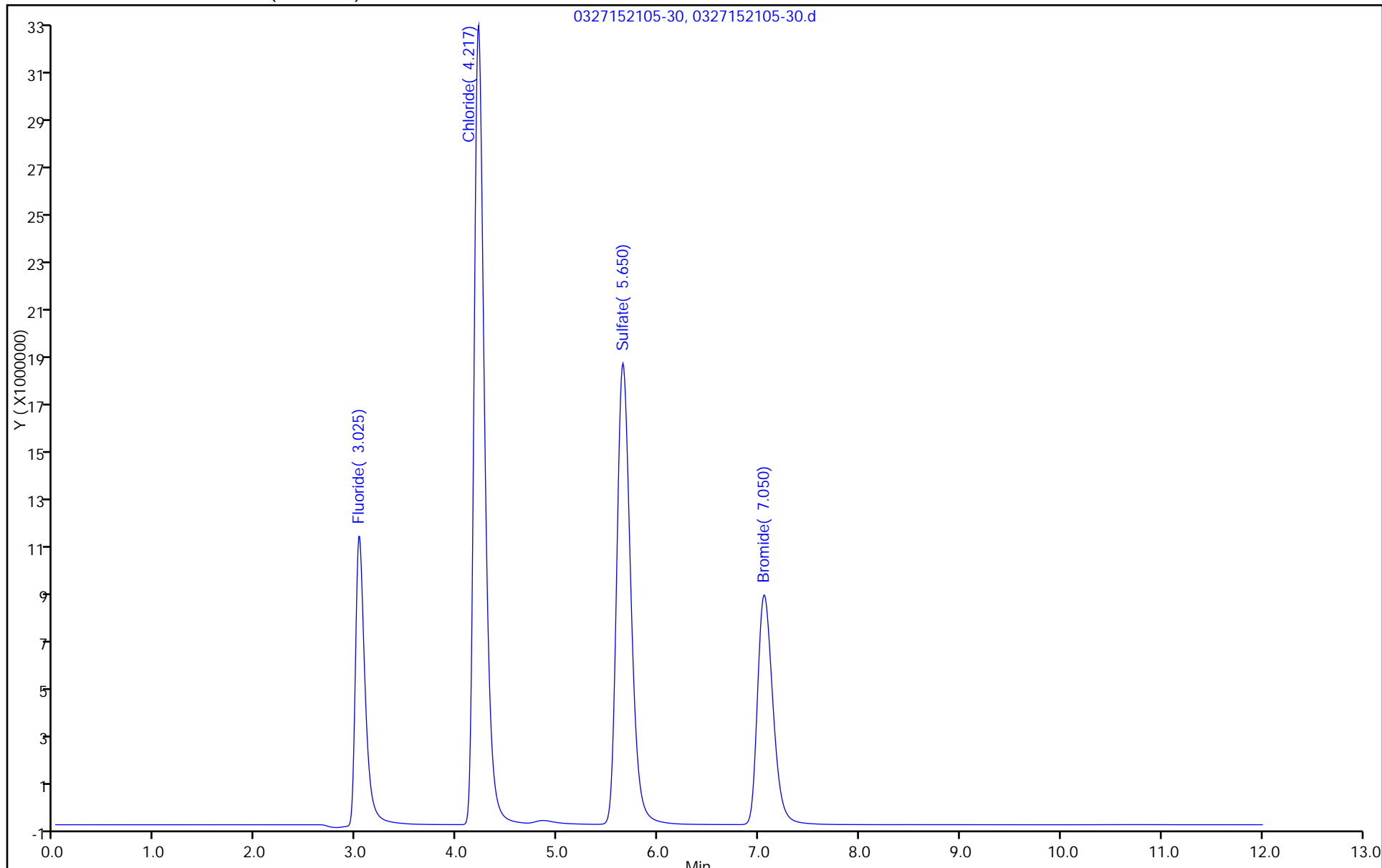
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICL

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: CICL Start Date: 03/02/2015 14:54

Analysis Batch Number: 372954 End Date: 03/02/2015 23:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-372954/1		03/02/2015 14:54	1	0302151454-4.d	Dionex AS18 4 (mm)
IC 680-372954/2		03/02/2015 15:08	1	0302151508-5.d	Dionex AS18 4 (mm)
IC 680-372954/3		03/02/2015 15:23	1	0302151523-6.d	Dionex AS18 4 (mm)
IC 680-372954/4		03/02/2015 15:37	1	0302151537-7.d	Dionex AS18 4 (mm)
IC 680-372954/5		03/02/2015 15:52	1	0302151552-8.d	Dionex AS18 4 (mm)
IC 680-372954/6		03/02/2015 16:06	1	0302151606-9.d	Dionex AS18 4 (mm)
IC 680-372954/7		03/02/2015 16:21	1	0302151621-10.d	Dionex AS18 4 (mm)
ICB 680-372954/8		03/02/2015 16:35	1		Dionex AS18 4 (mm)
ICV 680-372954/9		03/02/2015 16:50	1	0302151650-12.d	Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 17:04	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 17:19	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 17:33	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 17:48	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 18:02	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 18:17	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 18:31	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 18:46	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 19:00	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 19:15	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 19:29	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 19:44	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 19:58	1		Dionex AS18 4 (mm)
CCV 680-372954/23		03/02/2015 20:13	1		Dionex AS18 4 (mm)
CCB 680-372954/24		03/02/2015 20:27	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 20:42	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 20:56	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 21:11	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 21:25	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 21:40	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 21:54	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 22:09	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 22:23	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 22:38	1		Dionex AS18 4 (mm)
ZZZZZ		03/02/2015 22:52	1		Dionex AS18 4 (mm)
CCV 680-372954/35		03/02/2015 23:07	1		Dionex AS18 4 (mm)
CCB 680-372954/36		03/02/2015 23:21	1		Dionex AS18 4 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: CICL Start Date: 03/27/2015 20:22

Analysis Batch Number: 376520 End Date: 03/28/2015 02:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 680-376520/24		03/27/2015 20:22	1	0327152022-27.d	Dionex AS18 4 (mm)
MB 680-376520/25		03/27/2015 20:36	1	0327152036-28.d	Dionex AS18 4 (mm)
LCS 680-376520/26		03/27/2015 20:51	1	0327152051-29.d	Dionex AS18 4 (mm)
LCSD 680-376520/27		03/27/2015 21:05	1	0327152105-30.d	Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 21:20	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 21:34	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 21:49	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 22:03	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 22:18	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 22:32	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 22:47	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 23:01	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 23:16	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 23:30	1		Dionex AS18 4 (mm)
CCV 680-376520/38		03/27/2015 23:45	1	0327152345-41.d	Dionex AS18 4 (mm)
CCB 680-376520/39		03/27/2015 23:59	1	0327152359-42.d	Dionex AS18 4 (mm)
ZZZZZ		03/28/2015 00:14	1		Dionex AS18 4 (mm)
680-110742-1	25LM20112	03/28/2015 00:28	1	0328150028-44.d	Dionex AS18 4 (mm)
680-110742-2	25LM20116	03/28/2015 00:43	1	0328150043-45.d	Dionex AS18 4 (mm)
680-110742-3	25LM20117	03/28/2015 00:57	1	0328150057-46.d	Dionex AS18 4 (mm)
ZZZZZ		03/28/2015 01:12	2		Dionex AS18 4 (mm)
ZZZZZ		03/28/2015 01:26	2		Dionex AS18 4 (mm)
ZZZZZ		03/28/2015 01:41	2		Dionex AS18 4 (mm)
ZZZZZ		03/28/2015 01:55	2		Dionex AS18 4 (mm)
ZZZZZ		03/28/2015 02:10	2		Dionex AS18 4 (mm)
ZZZZZ		03/28/2015 02:24	2		Dionex AS18 4 (mm)
CCV 680-376520/50		03/28/2015 02:39	1	0328150239-53.d	Dionex AS18 4 (mm)
CCB 680-376520/51		03/28/2015 02:53	1	0328150253-54.d	Dionex AS18 4 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-110742-1

SDG No.: _____

Project: SEAD-25 Long Term Monitoring

Client Sample ID	Lab Sample ID
<u>25LM20112</u>	<u>680-110742-1</u>
<u>25LM20116</u>	<u>680-110742-2</u>
<u>25LM20117</u>	<u>680-110742-3</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

SDG ID.:

Matrix: Water

Date Sampled: 03/17/2015 11:08

Reporting Basis: WET

Date Received: 03/18/2015 09:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	ND	100	50	ug/L			1	6010C
7440-23-5	Sodium	5200	1000	500	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

SDG ID.:

Matrix: Water

Date Sampled: 03/17/2015 13:02

Reporting Basis: WET

Date Received: 03/18/2015 09:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	92	100	50	ug/L	J		1	6010C
7440-23-5	Sodium	14000	1000	500	ug/L			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

SDG ID.:

Matrix: Water

Date Sampled: 03/17/2015 14:51

Reporting Basis: WET

Date Received: 03/18/2015 09:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	200	100	50	ug/L			1	6010C
7440-23-5	Sodium	9100	1000	500	ug/L			1	6010C

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

ICV Source: P_ICV_wk_00232 Concentration Units: ug/L

CCV Source: P_CCV_wk_00131

Analyte	ICV 680-375647/4 03/20/2015 10:47				CCV 680-375647/12 03/20/2015 11:29				CCV 680-375647/100 03/20/2015 18:31			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	1000		1000	100	5050		5000	101	4980		5000	100
Sodium	10300		10000	103	7730		7500	103	7570		7500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

ICV Source: P_ICV_wk_00232 Concentration Units: ug/L

CCV Source: P_CCV_wk_00131

Analyte	CCV 680-375647/112 03/20/2015 19:28				CCV 680-375647/119 03/20/2015 20:01							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	4970		5000	99	4930		5000	99				
Sodium	7580		7500	101	7480		7500	100				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-375647/6 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00037

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	50.0	58.4	J	117	70-130
Sodium	1000	1010		101	70-130

Lab Sample ID: CRI 680-375647/220 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00037

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	50.0	52.5	J	105	70-130
Sodium	1000	1050		105	70-130

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICBIS 680-375647/5 03/20/2015 10:54		CCB 680-375647/13 03/20/2015 11:33		CCB 680-375647/101 03/20/2015 18:36		CCB 680-375647/113 03/20/2015 19:33	
		Found	C	Found	C	Found	C	Found	C
Iron	100	ND		ND		ND		ND	
Sodium	1000	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 680-375647/120 03/20/2015 20:06							
		Found	C	Found	C	Found	C	Found	C
Iron	100	ND							
Sodium	1000	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 680-375261/1-A
Instrument Code: ICPE Batch No.: 375647

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	ND			6010C
7440-23-5	Sodium	ND			6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

SDG No.: _____

Lab Sample ID: ICSA 680-375647/7

Instrument ID: ICPE

Lab File ID: E03202015B.csv

ICS Source: P_ICSA_wk_00041

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
Iron	200000	186461	93
Sodium		-124	
<i>Aluminum</i>	<i>500000</i>	<i>532415</i>	<i>106</i>
<i>Antimony</i>		<i>4.48</i>	
<i>Arsenic</i>		<i>2.46</i>	
<i>Barium</i>		<i>4.63</i>	
<i>Beryllium</i>		<i>-0.154</i>	
<i>Boron</i>		<i>5.63</i>	
<i>Cadmium</i>		<i>-0.581</i>	
<i>Calcium</i>	<i>500000</i>	<i>509889</i>	<i>102</i>
<i>Chromium</i>		<i>-0.426</i>	
<i>Cobalt</i>		<i>-3.24</i>	
<i>Copper</i>		<i>2.17</i>	
<i>Lead</i>		<i>-3.72</i>	
<i>Magnesium</i>	<i>500000</i>	<i>504445</i>	<i>101</i>
<i>Manganese</i>		<i>1.71</i>	
<i>Molybdenum</i>		<i>1.90</i>	
<i>Nickel</i>		<i>-1.11</i>	
<i>Potassium</i>		<i>3.96</i>	
<i>Selenium</i>		<i>7.70</i>	
<i>Silver</i>		<i>0.0337</i>	
<i>Strontium</i>		<i>-8.68</i>	
<i>Thallium</i>		<i>6.64</i>	
<i>Tin</i>		<i>1.25</i>	
<i>Titanium</i>		<i>2.32</i>	
<i>Vanadium</i>		<i>4.84</i>	
<i>Zinc</i>		<i>4.95</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

SDG No.: _____

Lab Sample ID: ICSAB 680-375647/8

Instrument ID: ICPE

Lab File ID: E03202015B.csv

ICS Source: P_ICSAB_wk_00057

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	185666	93
Sodium		-270	
<i>Aluminum</i>	<i>500000</i>	<i>530834</i>	<i>106</i>
<i>Antimony</i>	<i>600</i>	<i>628</i>	<i>105</i>
<i>Arsenic</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Barium</i>	<i>500</i>	<i>496</i>	<i>99</i>
<i>Beryllium</i>	<i>500</i>	<i>472</i>	<i>94</i>
<i>Boron</i>		<i>2.69</i>	
<i>Cadmium</i>	<i>1000</i>	<i>909</i>	<i>91</i>
<i>Calcium</i>	<i>500000</i>	<i>506781</i>	<i>101</i>
<i>Chromium</i>	<i>500</i>	<i>491</i>	<i>98</i>
<i>Cobalt</i>	<i>500</i>	<i>464</i>	<i>93</i>
<i>Copper</i>	<i>500</i>	<i>563</i>	<i>113</i>
<i>Lead</i>	<i>50.0</i>	<i>42.2</i>	<i>84</i>
<i>Magnesium</i>	<i>500000</i>	<i>501166</i>	<i>100</i>
<i>Manganese</i>	<i>500</i>	<i>502</i>	<i>100</i>
<i>Molybdenum</i>	<i>1000</i>	<i>995</i>	<i>100</i>
<i>Nickel</i>	<i>1000</i>	<i>914</i>	<i>91</i>
<i>Potassium</i>		<i>2.71</i>	
<i>Selenium</i>	<i>50.0</i>	<i>50.3</i>	<i>101</i>
<i>Silver</i>	<i>200</i>	<i>214</i>	<i>107</i>
<i>Strontium</i>		<i>-8.62</i>	
<i>Thallium</i>	<i>100</i>	<i>99.4</i>	<i>99</i>
<i>Tin</i>	<i>1000</i>	<i>1015</i>	<i>102</i>
<i>Titanium</i>		<i>2.29</i>	
<i>Vanadium</i>	<i>500</i>	<i>488</i>	<i>98</i>
<i>Zinc</i>	<i>1000</i>	<i>904</i>	<i>90</i>

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

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-375261/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

Sample Matrix: Water

LCS Source: MS_LCS1_WK_00018

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	5000	5070		101	80	120		6010C
Sodium	5000	5190		104	80	120		6010C

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

FORM VIIA - IN

7D-IN
 LAB CONTROL SAMPLE DUPLICATE
 METALS

Lab ID: LCSD 680-375261/10-A

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

Sample Matrix: Water

LCS Source: MS_LCS1_WK_00018

Analyte	(SDR) C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Iron	5050	5000	101	80-120	0	20		6010C
Sodium	5280	5000	106	80-120	2	20		6010C

SDR = Spike Duplicate Results

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

FORM VIID - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-110742-1
SDG Number: _____
Matrix: Water Instrument ID: ICPE
Method: 6010C MDL Date: 06/02/2009 00:00
Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Iron		100	50
Sodium		1000	500

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-110742-1
SDG Number: _____
Matrix: Water Instrument ID: ICPE
Method: 6010C XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Iron		100	50
Sodium		1000	500

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-110742-1

SDG No.: _____

ICP-AES Instrument ID: ICPE Date: 11/14/2014

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215									-0.001000			0.000016		
Antimony	206.834						0.000900				0.009000		0.000013		
Arsenic	188.980												-0.000010		
Barium	389.178												0.000035		0.000092
Beryllium	313.042														
Boron	249.678												-0.000141		
Cadmium	226.502												0.000089		
Calcium	370.602												-0.003690		
Chromium	267.716								-0.000200				0.000009		
Cobalt	228.615										0.000200		0.000006		
Copper	324.754												0.000006		
Iron	271.441									0.072100	0.001160				
Lead	220.353		-0.000009							-0.000200	0.000520		0.000043		
Magnesium	279.078		-0.000142												
Manganese	257.610												0.000014		0.000035
Molybdenum	202.032												-0.000007		
Nickel	231.604									-0.000800			0.000028		
Potassium	766.491														
Selenium	196.026												0.000020		
Silver	328.068												-0.000002		
Sodium	330.237												-0.005002		
Strontium	216.596							0.000029					0.000113		
Thallium	190.794									0.002530			-0.000145		
Tin	189.925														
Titanium	334.941														0.000006
Vanadium	292.401										-0.001640		0.000014		
Zinc	206.200										-0.001860		-0.000033		

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-110742-1

SDG No.: _____

ICP-AES Instrument ID: ICPE Date: 11/14/2014

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Aluminum	308.215		0.003600										-0.019788	
Antimony	206.834		-0.012400						0.000200					
Arsenic	188.980		-0.000430											
Barium	389.178		0.000218										0.000095	
Beryllium	313.042		-0.000082										0.000030	
Boron	249.678						0.000900							
Cadmium	226.502										-0.000040			
Calcium	370.602	0.008900									0.155000		0.003040	
Chromium	267.716	0.000090									0.000040		-0.000200	
Cobalt	228.615		-0.002400						-0.000060		0.001850			
Copper	324.754		0.000550										-0.000200	
Iron	271.441		0.000760										0.004220	
Lead	220.353	0.000130	-0.000970								-0.000325			
Magnesium	279.078	-0.007600												
Manganese	257.610													
Molybdenum	202.032												-0.000160	
Nickel	231.604													
Potassium	766.491													
Selenium	196.026	0.000500												
Silver	328.068	0.000061								-0.000400			0.000028	
Sodium	330.237										-0.000825			-0.435620
Strontium	216.596		-0.001000		-0.002275									
Thallium	190.794	-0.000466	-0.003133										0.001500	
Tin	189.925													
Titanium	334.941													
Vanadium	292.401		-0.007430								0.000275			
Zinc	206.200													

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-375261/1-A	03/19/2015 11:17	375261		50	50
LCS 680-375261/2-A	03/19/2015 11:17	375261		50	50
680-110742-1	03/19/2015 11:17	375261		50	50
680-110742-2	03/19/2015 11:17	375261		50	50
680-110742-3	03/19/2015 11:17	375261		50	50
LCSD 680-375261/10-A	03/19/2015 11:18	375261		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 03/20/2015 10:33 End Date: 03/21/2015 04:13

Lab Sample ID	D / F	T y p e	Time	Analytes															
				F e	N a														
ZZZZZZ			10:33																
ZZZZZZ			10:38																
ZZZZZZ			10:42																
ICV 680-375647/4	1		10:47	X	X														
ICBIS 680-375647/5	1		10:54	X	X														
CRI 680-375647/6	1		10:58	X	X														
ICSA 680-375647/7	1		11:05	X	X														
ICSAB 680-375647/8	1		11:10	X	X														
ZZZZZZ			11:14																
ZZZZZZ			11:19																
ZZZZZZ			11:24																
CCV 680-375647/12	1		11:29	X	X														
CCB 680-375647/13	1		11:33	X	X														
ZZZZZZ			11:38																
ZZZZZZ			11:43																
CCV 680-375647/16			11:51																
CCB 680-375647/17			11:55																
ZZZZZZ			12:00																
ZZZZZZ			12:05																
ZZZZZZ			12:09																
ZZZZZZ			12:14																
ZZZZZZ			12:19																
ZZZZZZ			12:24																
ZZZZZZ			12:28																
ZZZZZZ			12:33																
ZZZZZZ			12:38																
ZZZZZZ			12:43																
CCV 680-375647/28			12:47																
CCB 680-375647/29			12:52																
ZZZZZZ			12:57																
ZZZZZZ			13:02																
ZZZZZZ			13:06																
ZZZZZZ			13:11																
ZZZZZZ			13:16																
ZZZZZZ			13:20																
ZZZZZZ			13:25																
ZZZZZZ			13:30																
ZZZZZZ			13:35																
ZZZZZZ			13:39																
CCV 680-375647/40			13:44																
CCB 680-375647/41			13:49																
ZZZZZZ			13:54																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 03/20/2015 10:33 End Date: 03/21/2015 04:13

Lab Sample ID	D / F	Type	Time	Analytes															
				F	N														
ZZZZZZ			13:58																
ZZZZZZ			14:03																
ZZZZZZ			14:08																
ZZZZZZ			14:12																
ZZZZZZ			14:17																
ZZZZZZ			14:22																
ZZZZZZ			14:27																
ZZZZZZ			14:31																
ZZZZZZ			14:36																
CCV 680-375647/52			14:41																
CCB 680-375647/53			14:46																
ZZZZZZ			14:50																
ZZZZZZ			14:55																
ZZZZZZ			15:00																
ZZZZZZ			15:05																
ZZZZZZ			15:09																
ZZZZZZ			15:14																
ZZZZZZ			15:19																
ZZZZZZ			15:23																
ZZZZZZ			15:28																
ZZZZZZ			15:33																
CCV 680-375647/64			15:38																
CCB 680-375647/65			15:42																
ZZZZZZ			15:47																
ZZZZZZ			15:52																
ZZZZZZ			15:57																
ZZZZZZ			16:01																
ZZZZZZ			16:06																
ZZZZZZ			16:11																
ZZZZZZ			16:16																
ZZZZZZ			16:20																
ZZZZZZ			16:25																
ZZZZZZ			16:30																
CCV 680-375647/76			16:38																
CCB 680-375647/77			16:42																
ZZZZZZ			16:47																
ZZZZZZ			16:52																
ZZZZZZ			16:57																
ZZZZZZ			17:01																
ZZZZZZ			17:06																
ZZZZZZ			17:11																
ZZZZZZ			17:16																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 03/20/2015 10:33 End Date: 03/21/2015 04:13

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
ZZZZZZ			17:20																		
ZZZZZZ			17:25																		
ZZZZZZ			17:30																		
CCV 680-375647/88			17:35																		
CCB 680-375647/89			17:39																		
ZZZZZZ			17:44																		
ZZZZZZ			17:49																		
ZZZZZZ			17:53																		
ZZZZZZ			17:58																		
ZZZZZZ			18:03																		
ZZZZZZ			18:08																		
ZZZZZZ			18:12																		
ZZZZZZ			18:17																		
ZZZZZZ			18:22																		
ZZZZZZ			18:27																		
CCV 680-375647/100	1		18:31	X	X																
CCB 680-375647/101	1		18:36	X	X																
ZZZZZZ			18:41																		
ZZZZZZ			18:46																		
MB 680-375261/1-A	1	T	18:50	X	X																
LCS 680-375261/2-A	1	T	18:55	X	X																
ZZZZZZ			19:00																		
ZZZZZZ			19:05																		
ZZZZZZ			19:09																		
ZZZZZZ			19:14																		
ZZZZZZ			19:19																		
ZZZZZZ			19:23																		
CCV 680-375647/112	1		19:28	X	X																
CCB 680-375647/113	1		19:33	X	X																
680-110742-1	1	T	19:38	X	X																
680-110742-2	1	T	19:42	X	X																
680-110742-3	1	T	19:47	X	X																
LCSD 680-375261/10-A	1	T	19:52	X	X																
ZZZZZZ			19:57																		
CCV 680-375647/119	1		20:01	X	X																
CCB 680-375647/120	1		20:06	X	X																
ZZZZZZ			20:11																		
ZZZZZZ			20:16																		
ZZZZZZ			20:20																		
ZZZZZZ			20:25																		
ZZZZZZ			20:30																		
ZZZZZZ			20:35																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 03/20/2015 10:33 End Date: 03/21/2015 04:13

Lab Sample ID	D / F	Type	Time	Analytes															
				Fe	Na														
ZZZZZZ			20:40																
ZZZZZZ			20:44																
ZZZZZZ			20:49																
ZZZZZZ			20:54																
CCV 680-375647/131			20:59																
CCB 680-375647/132			21:03																
ZZZZZZ			21:08																
ZZZZZZ			21:13																
ZZZZZZ			21:18																
ZZZZZZ			21:22																
ZZZZZZ			21:27																
ZZZZZZ			21:32																
ZZZZZZ			21:37																
ZZZZZZ			21:41																
ZZZZZZ			21:46																
ZZZZZZ			21:51																
CCV 680-375647/143			21:56																
CCB 680-375647/144			22:00																
ZZZZZZ			22:05																
ZZZZZZ			22:10																
ZZZZZZ			22:15																
ZZZZZZ			22:19																
ZZZZZZ			22:24																
ZZZZZZ			22:29																
ZZZZZZ			22:34																
ZZZZZZ			22:38																
ZZZZZZ			22:43																
ZZZZZZ			22:48																
CCV 680-375647/155			22:53																
CCB 680-375647/156			22:57																
ZZZZZZ			23:02																
ZZZZZZ			23:07																
ZZZZZZ			23:12																
ZZZZZZ			23:17																
ZZZZZZ			23:21																
ZZZZZZ			23:26																
ZZZZZZ			23:31																
ZZZZZZ			23:36																
ZZZZZZ			23:40																
ZZZZZZ			23:45																
CCV 680-375647/167			23:50																
CCB 680-375647/168			23:55																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 03/20/2015 10:33 End Date: 03/21/2015 04:13

Lab Sample ID	D / F	Type	Time	Analytes																
				Fe	Na															
ZZZZZZ			23:59																	
ZZZZZZ			00:04																	
ZZZZZZ			00:09																	
ZZZZZZ			00:14																	
ZZZZZZ			00:19																	
ZZZZZZ			00:23																	
ZZZZZZ			00:28																	
ZZZZZZ			00:33																	
ZZZZZZ			00:38																	
ZZZZZZ			00:42																	
CCV 680-375647/179			00:47																	
CCB 680-375647/180			00:52																	
ZZZZZZ			00:57																	
ZZZZZZ			01:02																	
ZZZZZZ			01:06																	
ZZZZZZ			01:11																	
ZZZZZZ			01:16																	
ZZZZZZ			01:21																	
ZZZZZZ			01:25																	
ZZZZZZ			01:30																	
ZZZZZZ			01:35																	
ZZZZZZ			01:40																	
CCV 680-375647/191			01:45																	
CCB 680-375647/192			01:49																	
ZZZZZZ			01:54																	
ZZZZZZ			01:59																	
ZZZZZZ			02:04																	
ZZZZZZ			02:08																	
ZZZZZZ			02:13																	
ZZZZZZ			02:18																	
ZZZZZZ			02:23																	
ZZZZZZ			02:28																	
ZZZZZZ			02:32																	
ZZZZZZ			02:37																	
CCV 680-375647/203			02:42																	
CCB 680-375647/204			02:47																	
ZZZZZZ			02:52																	
ZZZZZZ			02:56																	
ZZZZZZ			03:01																	
ZZZZZZ			03:06																	
ZZZZZZ			03:11																	
ZZZZZZ			03:15																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 03/20/2015 10:33 End Date: 03/21/2015 04:13

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
ZZZZZZ			03:20																		
ZZZZZZ			03:25																		
ZZZZZZ			03:30																		
ZZZZZZ			03:35																		
CCV 680-375647/215			03:39																		
CCB 680-375647/216			03:44																		
ZZZZZZ			03:49																		
ZZZZZZ			03:54																		
ZZZZZZ			03:59																		
CRI 680-375647/220	1		04:03	X	X																
CCV 680-375647/221			04:08																		
CCB 680-375647/222			04:13																		

Prep Types
T = Total/NA

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Blank (Blk) 3/20/2015, 10:33:29 AM Rack S, Tube 1

Label	Replicates Concentration		
Ag 328.068	-0.1142	-0.0782	0.1923
Al 308.215	1.0031	0.0453	-1.0484
As 188.980	2.1839	-1.0489	-1.1350
B 249.678	0.0906	-0.1472	0.0566
Ba 389.178	-0.4429	0.7273	-0.2844
Be 313.042	-0.0004	-0.0012	0.0016
Ca 370.602	-1.762	2.347	-0.5852
Cd 226.502	0.0572	-0.0174	-0.0397
Co 228.615	-0.0371	0.1490	-0.1118
Cr 267.716	0.1017	-0.1236	0.0219
Cu 324.754	0.0690	-0.2478	0.1789
Fe 271.441	0.3238	2.6635	-2.9873
K 766.491	-0.1607	0.2484	-0.0876
Mg 279.078	-0.9025	-1.2195	2.1219
Mn 257.610	-0.0039	-0.0049	0.0087
Mo 202.032	-0.0875	0.3383	-0.2508
Na 330.237	-27.7028	-11.8380	39.5407
Ni 231.604	-0.2768	-0.0612	0.3380
Pb 220.353	-0.6660	-0.6876	1.3536
Sb 206.834	0.5888	-1.5301	0.9413
Se 196.026	3.2643	-1.4885	-1.7757
Sn 189.925	-0.0093	-2.0642	2.0735
Sr 216.596	0.1352	-0.0267	-0.1086
Ti 334.941	0.0014	-0.0092	0.0078
Tl 190.794	-0.7802	0.6622	0.1180
V 292.401	0.0239	0.1513	-0.1753
Zn 206.200	1.4078	-0.8286	-0.5792

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	15.061	88.2	-17.0817
Al 308.215	0.0000	ppb	7.439	1.6	476.801
As 188.980	0.0000	ppb	1.399	21.1	-6.6146
B 249.678	0.0000	ppb	2.309	2.8	83.6060
Ba 389.178	0.0000	ppb	14.444	32.9	-43.9204
Be 313.042	0.0000	ppb	2.791	0.6	-439.511
Ca 370.602	0.0000	ppb	7.117	45.5	15.64
Cd 226.502	0.0000	ppb	2.274	8.9	25.5580
Co 228.615	0.0000	ppb	1.510	19.0	-7.9387
Cr 267.716	0.0000	ppb	6.164	18.8	32.8247
Cu 324.754	0.0000	ppb	17.447	3.8	453.252
Fe 271.441	0.0000	ppb	4.486	234.3	1.9152
K 766.491	0.0000	ppb	10.301	3.5	294.772
Mg 279.078	0.0000	ppb	5.357	22.7	23.6489
Mn 257.610	0.0000	ppb	1.715	2.7	63.3194
Mo 202.032	0.0000	ppb	1.953	38.5	5.0700
Na 330.237	0.0000	ppb	1.794	6.0	30.0238
Ni 231.604	0.0000	ppb	0.977	24.5	-3.9843
Pb 220.353	0.0000	ppb	1.848	18.1	10.2064
Sb 206.834	0.0000	ppb	1.919	73.6	2.6065
Se 196.026	0.0000	ppb	1.255	85.7	-1.4631
Sn 189.925	0.0000	ppb	1.525	24.3	-6.2750
Sr 216.596	0.0000	ppb	1.481	134.1	1.1049
Ti 334.941	0.0000	ppb	2.514	55.2	-4.5583

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Tl 190.794	0.0000	ppb	0.802	9.0	-8.9398
V 292.401	0.0000	ppb	4.659	32.4	-14.3890
Zn 206.200	0.0000	ppb	1.297	248.9	0.5212

HIGH STD (Std) 3/20/2015, 10:38:12 AM Rack S, Tube 2

Label	Replicates	Concentration	
Ag 328.068	982.218	1014.15	1003.63
Al 308.215	9869.39	10081.7	10048.9
As 188.980	993.096	1010.96	995.945
B 249.678	981.550	1009.16	1009.29
Ba 389.178	9884.57	10072.8	10042.6
Be 313.042	988.351	1010.46	1001.19
Ca 370.602	9895	10077	10029
Cd 226.502	988.644	1008.70	1002.65
Co 228.615	986.353	1009.31	1004.34
Cr 267.716	9911.60	10049.7	10038.6
Cu 324.754	9906.16	10028.0	10065.9
Fe 271.441	9874.52	10081.8	10043.7
K 766.491	19725.8	20138.6	20135.6
Mg 279.078	9879.85	10075.3	10044.9
Mn 257.610	9883.93	10095.2	10020.9
Mo 202.032	989.308	1006.47	1004.22
Na 330.237	14570.3	15173.3	15256.4
Ni 231.604	4933.50	5040.13	5026.37
Pb 220.353	992.137	1004.04	1003.82
Sb 206.834	1983.53	2009.69	2006.78
Se 196.026	9884.58	10073.6	10041.8
Sn 189.925	9889.82	10070.1	10040.1
Sr 216.596	4939.82	5042.33	5017.85
Ti 334.941	986.323	1008.58	1005.10
Tl 190.794	9906.05	10068.5	10025.5
V 292.401	9866.76	10079.8	10053.4
Zn 206.200	4950.19	5035.89	5013.92

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	1462.899	1.6	89878.2
Al 308.215	10000.0	ppb	828.310	1.1	72949.0
As 188.980	1000.00	ppb	7.095	1.0	732.735
B 249.678	1000.00	ppb	286.910	1.6	18039.7
Ba 389.178	10000.0	ppb	2300.306	1.0	227489
Be 313.042	1000.00	ppb	21437.721	1.1	1930664
Ca 370.602	10000	ppb	317.394	0.9	33647
Cd 226.502	1000.00	ppb	461.185	1.0	44848.1
Co 228.615	1000.00	ppb	135.768	1.2	11233.6
Cr 267.716	10000.0	ppb	4140.135	0.8	539440
Cu 324.754	10000.0	ppb	6571.803	0.8	788007
Fe 271.441	10000.0	ppb	174.334	1.1	15803.0
K 766.491	20000.0	ppb	11210.970	1.2	944523
Mg 279.078	10000.0	ppb	305.422	1.1	29066.8
Mn 257.610	10000.0	ppb	24229.154	1.1	2260740
Mo 202.032	1000.00	ppb	59.893	0.9	6426.55
Na 330.237	15000.0	ppb	19.108	2.4	795.465
Ni 231.604	5000.00	ppb	181.608	1.2	15650.9

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Pb 220.353	1000.00	ppb	10.735	0.7	1586.39
Sb 206.834	2000.00	ppb	20.586	0.7	2874.15
Se 196.026	10000.0	ppb	44.858	1.0	4430.84
Sn 189.925	10000.0	ppb	71.217	1.0	7366.73
Sr 216.596	5000.00	ppb	639.346	1.1	59711.7
Ti 334.941	1000.00	ppb	3517.292	1.2	293802
Tl 190.794	10000.0	ppb	92.679	0.8	11004.8
V 292.401	10000.0	ppb	3287.400	1.2	283037
Zn 206.200	5000.00	ppb	47.123	0.9	5293.53

Ag 328.068 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-17.0817	0.0000	0.0000	-	-
HIGH STD		89878.2	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 89.9 x + -17.1$

Al 308.215 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		476.801	0.0000	0.0000	-	-
HIGH STD		72949.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 7.2 x + 476.8$

As 188.980 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-6.6146	0.0000	0.0000	-	-
HIGH STD		732.735	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 0.7 x + -6.6$

B 249.678 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		83.6060	0.0000	0.0000	-	-
HIGH STD		18039.7	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 18.0 x + 83.6$

Ba 389.178 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-43.9204	0.0000	0.0000	-	-
HIGH STD		227489	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 22.8 x + -43.9$

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Be 313.042 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-439.511	0.0000	0.0000	-	-
HIGH STD		1930664	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 1931.1 x + -439.5$ **Ca 370.602 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		15.64	0.0000	0.0000	-	-
HIGH STD		33647	10000	10000	0.0000	0.0

Curve Type: Linear Equation: $y = 3.4 x + 15.6$ **Cd 226.502 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		25.5580	0.0000	0.0000	-	-
HIGH STD		44848.1	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 44.8 x + 25.6$ **Co 228.615 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.9387	0.0000	0.0000	-	-
HIGH STD		11233.6	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 11.2 x + -7.9$ **Cr 267.716 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		32.8247	0.0000	0.0000	-	-
HIGH STD		539440	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 53.9 x + 32.8$ **Cu 324.754 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		453.252	0.0000	0.0000	-	-
HIGH STD		788007	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 78.8 x + 453.3$ **Fe 271.441 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.9152	0.0000	0.0000	-	-
HIGH STD		15803.0	10000.0	10000.0	0.0000	0.0

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Curve Type: Linear Equation: $y = 1.6x + 1.9$ **K 766.491 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		294.772	0.0000	0.0000	-	-
HIGH STD		944523	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 47.2x + 294.8$ **Mg 279.078 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		23.6489	0.0000	0.0000	-	-
HIGH STD		29066.8	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 2.9x + 23.6$ **Mn 257.610 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		63.3194	0.0000	0.0000	-	-
HIGH STD		2260740	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 226.1x + 63.3$ **Mo 202.032 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.0700	0.0000	0.0000	-	-
HIGH STD		6426.55	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 6.4x + 5.1$ **Na 330.237 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		30.0238	0.0000	0.0000	-	-
HIGH STD		795.465	15000.0	15000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 0.1x + 30.0$ **Ni 231.604 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.9843	0.0000	0.0000	-	-
HIGH STD		15650.9	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 3.1x + -4.0$

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Pb 220.353 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.2064	0.0000	0.0000	-	-
HIGH STD		1586.39	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 1.6 x + 10.2$ **Sb 206.834 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.6065	0.0000	0.0000	-	-
HIGH STD		2874.15	2000.00	2000.00	-0.0001	0.0

Curve Type: Linear Equation: $y = 1.4 x + 2.6$ **Se 196.026 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.4631	0.0000	0.0000	-	-
HIGH STD		4430.84	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 0.4 x + -1.5$ **Sn 189.925 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-6.2750	0.0000	0.0000	-	-
HIGH STD		7366.73	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 0.7 x + -6.3$ **Sr 216.596 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.1049	0.0000	0.0000	-	-
HIGH STD		59711.7	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: $y = 11.9 x + 1.1$ **Ti 334.941 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.5583	0.0000	0.0000	-	-
HIGH STD		293802	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 293.8 x + -4.6$ **Tl 190.794 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-8.9398	0.0000	0.0000	-	-
HIGH STD		11004.8	10000.0	10000.00	-0.0010	0.0

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Curve Type: Linear Equation: $y = 1.1x + -8.9$ **V 292.401 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-14.3890	0.0000	0.0000	-	-
HIGH STD		283037	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 28.3x + -14.4$ **Zn 206.200 Calibration (ppb) 3/20/2015, 10:38:12 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.5212	0.0000	0.0000	-	-
HIGH STD		5293.53	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.1x + 0.5$

Lab Control Sample (LCS) 3/20/2015, 10:42:55 AM Rack S, Tube 2
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1004.99	989.993	1015.86x
Al 308.215	10105.3	9974.84	10139.3
As 188.980	998.509	988.081	1015.05
B 249.678	1016.49	1005.37	1024.14
Ba 389.178	10084.6	9942.71	10116.2
Be 313.042	1010.89	995.494	1011.05
Ca 370.602	10129	9978	10174
Cd 226.502	1007.27	994.485	1010.70
Co 228.615	1012.13	996.150	1014.42
Cr 267.716	10046.1	9940.27	10100.5
Cu 324.754	10113.9	9878.82	10128.0
Fe 271.441	10099.7	9933.97	10129.7
K 766.491	20250.0	19859.1	20262.4
Mg 279.078	10095.0	9951.11	10116.3
Mn 257.610	10062.2	9909.34	10079.1
Mo 202.032	1007.07	995.378	1010.69
Na 330.237	15397.6	15152.1	15371.6
Ni 231.604	5033.30	4978.05	5068.91
Pb 220.353	1004.67	999.634	1016.67
Sb 206.834	2011.86	1996.31	2024.58
Se 196.026	10039.5	9902.36	10070.1
Sn 189.925	10099.5	9888.71	10078.5
Sr 216.596	5049.92	4972.99	5058.34
Ti 334.941	1010.61	994.641	1010.43
Tl 190.794	10086.9	9969.53	10130.6x
V 292.401	10100.0	9933.54	10111.6
Zn 206.200	5037.17	4989.38	5060.18

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1003.61xb	ppb	12.9880	1.3	90100.5	100.36135
Al 308.215	10073.2b	ppb	86.8249	0.9	74941.6	100.73158

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1000.55b	ppb	13.5968	1.4	732.743	100.05450
B 249.678	1015.33b	ppb	9.4350	0.9	18322.1	20.30667*
Ba 389.178	10047.8b	ppb	92.3961	0.9	228633	100.47831
Be 313.042	1005.81b	ppb	8.9353	0.9	1942302	100.58109
Ca 370.602	10093b	ppb	102.7	1.0	34763	100.93242
Cd 226.502	1004.15b	ppb	8.5465	0.9	45090.7	100.41527
Co 228.615	1007.57b	ppb	9.9553	1.0	11329.0	100.75687
Cr 267.716	10028.9b	ppb	81.4702	0.8	540938	100.28944
Cu 324.754	10040.3b	ppb	139.995	1.4	791068	100.40263
Fe 271.441	10054.4b	ppb	105.411	1.0	16090.4	100.54446
K 766.491	20123.8b	ppb	229.365	1.1	950370	100.61916
Mg 279.078	10054.2b	ppb	89.8625	0.9	28998.7	100.54151
Mn 257.610	10016.9b	ppb	93.5306	0.9	2264672	100.16898
Mo 202.032	1004.38b	ppb	8.0028	0.8	6443.89	100.43798
Na 330.237	15307.1b	ppb	134.823	0.9	748.127	102.04721
Ni 231.604	5026.75b	ppb	45.7796	0.9	15733.0	100.53509
Pb 220.353	1006.99b	ppb	8.7501	0.9	1605.87	100.69919
Sb 206.834	2010.92b	ppb	14.1558	0.7	3006.16	100.54582
Se 196.026	10004.0b	ppb	89.3243	0.9	4434.91	100.03982
Sn 189.925	10022.2b	ppb	116.108	1.2	7383.12	100.22231
Sr 216.596	5027.08b	ppb	47.0381	0.9	59903.5	100.54165
Ti 334.941	1005.23b	ppb	9.1697	0.9	295356	100.52290
Tl 190.794	10062.4xb	ppb	83.3069	0.8	11093.0	100.62356
V 292.401	10048.4b	ppb	99.6080	1.0	283732	100.48362
Zn 206.200	5028.91b	ppb	36.1147	0.7	5304.70	100.57825

Initial Calib Verif (ICV)

3/20/2015, 10:47:38 AM

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	968.801	954.291	983.135
Al 308.215	998.132	983.770	999.838
As 188.980	951.454	933.877	952.114
B 249.678	1010.06	998.991	1017.72
Ba 389.178	1004.05	988.376	1007.31
Be 313.042	1001.37	988.379	1005.03x
Ca 370.602	963.5	942.1	965.7
Cd 226.502	997.877	978.797	996.244
Co 228.615	1031.58	1014.36	1039.79
Cr 267.716	1029.19	1012.55	1030.79
Cu 324.754	999.260	986.512	1004.44
Fe 271.441	1007.20	993.713	1008.29
K 766.491	10387.8	10322.4	10480.0
Mg 279.078	994.786	976.820	997.808
Mn 257.610	1037.83	1022.85	1040.87
Mo 202.032	999.130	980.765	999.451
Na 330.237	10348.1	10163.4	10282.8
Ni 231.604	1014.53	998.343	1014.97
Pb 220.353	999.400	977.622	994.670
Sb 206.834	1026.11	1004.78	1031.65
Se 196.026	963.992	951.877	964.011
Sn 189.925	5004.38	4956.88	5003.15
Sr 216.596	5040.49x	4957.63	5047.72x
Ti 334.941	976.714	964.219	981.092

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	988.412	977.965	993.018
V 292.401	1033.26	1019.51	1037.93
Zn 206.200	1019.71	998.365	1010.14

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	968.742b	ppb	14.4219	1.5	86895.6	96.87425
Al 308.215	993.914b	ppb	8.8256	0.9	7845.55	99.39135
As 188.980	945.815b	ppb	10.3441	1.1	692.349	94.58153
B 249.678	1008.92b	ppb	9.4153	0.9	18213.2	100.89235
Ba 389.178	999.912b	ppb	10.1222	1.0	22717.4	99.99116
Be 313.042	998.260xb	ppb	8.7505	0.9	1927203	99.82596
Ca 370.602	957.1b	ppb	13.03	1.4	3770	95.71121
Cd 226.502	990.973b	ppb	10.5760	1.1	44447.9	99.09729
Co 228.615	1028.58b	ppb	12.9794	1.3	11547.3	102.85777
Cr 267.716	1024.17b	ppb	10.0970	1.0	55263.6	102.41747
Cu 324.754	996.737b	ppb	9.2264	0.9	78979.1	99.67374
Fe 271.441	1003.07b	ppb	8.1210	0.8	1713.67	100.30695
K 766.491	10396.7b	ppb	79.1696	0.8	491139	103.96714
Mg 279.078	989.805b	ppb	11.3464	1.1	2875.12	98.98046
Mn 257.610	1033.85b	ppb	9.6446	0.9	233795	103.38511
Mo 202.032	993.116b	ppb	10.6970	1.1	6381.24	99.31158
Na 330.237	10264.7b	ppb	93.6816	0.9	541.376	102.64748
Ni 231.604	1009.28b	ppb	9.4740	0.9	3153.57	100.92794
Pb 220.353	990.564b	ppb	11.4553	1.2	1570.28	99.05640
Sb 206.834	1020.85b	ppb	14.1883	1.4	1466.58	102.08484
Se 196.026	959.960b	ppb	7.0001	0.7	424.259	95.99598
Sn 189.925	4988.13b	ppb	27.0768	0.5	3671.48	99.76270
Sr 216.596	5015.28xb	ppb	50.0610	1.0	59856.6	100.30562
Ti 334.941	974.009b	ppb	8.7557	0.9	286166	97.40086
Tl 190.794	986.465b	ppb	7.7131	0.8	1079.01	98.64651
V 292.401	1030.23b	ppb	9.5795	0.9	28896.5	103.02321
Zn 206.200	1009.41b	ppb	10.6909	1.1	1067.10	100.94052

Initial Calib Blank (ICB) 3/20/2015, 10:54:15 AM Rack S, Tube 1
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2798u	0.2694	0.2830
Al 308.215	-0.8473u	-1.9767u	-0.0338u
As 188.980	3.7738	0.9436	0.2823
B 249.678	9.8384	9.0886	7.9205
Ba 389.178	0.4994	0.6879	0.1820
Be 313.042	0.0180	0.0304	0.0200
Ca 370.602	1.607	1.322	2.795
Cd 226.502	0.0872	-0.0374u	0.2697
Co 228.615	0.2805	0.3556	0.7194
Cr 267.716	0.3532	-0.0290u	0.0525
Cu 324.754	0.0683	-0.3481u	-0.0935u
Fe 271.441	3.7904	1.9867	4.7239
K 766.491	1.1598	0.9424	1.1333
Mg 279.078	2.5065	0.9869	-0.4089u
Mn 257.610	0.1111	0.0992	0.0977
Mo 202.032	0.9070	0.4620	0.2430
Na 330.237	60.0981	29.2148	22.6478

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	-0.1840u	0.2041	-0.0258u
Pb 220.353	-0.8862u	-0.1114u	0.0659
Sb 206.834	4.7836	3.0971	2.2348
Se 196.026	-0.5792u	-7.5250u	-6.0701u
Sn 189.925	-0.0931u	3.6510	2.2135
Sr 216.596	-0.0547u	0.2560	-0.1631u
Ti 334.941	0.1598	0.1428	0.0654
Tl 190.794	-4.9883u	1.1593	-3.8002u
V 292.401	0.1145	-0.0775u	0.1884
Zn 206.200	0.0279	0.3985	0.2314

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0909	ppb	0.3211	353.3	-8.9095	0.09087
Al 308.215	-0.9526	ppb	0.9757	102.4	469.903	-0.95259
As 188.980	1.6666	ppb	1.8546	111.3	-5.3826	1.66657
B 249.678	8.9491	ppb	0.9665	10.8	244.339	8.94912
Ba 389.178	0.4564	ppb	0.2557	56.0	-33.5281	0.45643
Be 313.042	0.0228	ppb	0.0066	29.1	-395.600	0.02279
Ca 370.602	1.908	ppb	0.7816	41.0	22.08	1.90801
Cd 226.502	0.1065	ppb	0.1545	145.0	30.3538	0.10650
Co 228.615	0.4518	ppb	0.2347	52.0	-2.8729	0.45184
Cr 267.716	0.1256	ppb	0.2013	160.3	39.5996	0.12556
Cu 324.754	-0.1244	ppb	0.2099	168.7	443.480	-0.12443
Fe 271.441	3.5003	ppb	1.3914	39.8	7.4921	3.50034
K 766.491	1.0785	ppb	0.1186	11.0	345.690	1.07850
Mg 279.078	1.0282	ppb	1.4581	141.8	26.6337	1.02821
Mn 257.610	0.1027	ppb	0.0073	7.1	86.5550	0.10271
Mo 202.032	0.5373	ppb	0.3384	63.0	8.5204	0.53734
Na 330.237	37.3202	ppb	19.9976	53.6	31.9255	37.32024
Ni 231.604	-0.0019	ppb	0.1951	10157.9	-3.9909	-0.00192
Pb 220.353	-0.3106	ppb	0.5063	163.0	9.7163	-0.31056
Sb 206.834	3.3718	ppb	1.2964	38.4	7.4399	3.37179
Se 196.026	-4.7248	ppb	3.6631	77.5	-3.5572	-4.72477
Sn 189.925	1.9238	ppb	1.8888	98.2	-4.8566	1.92381
Sr 216.596	0.0127	ppb	0.2176	1713.4	1.2473	0.01270
Ti 334.941	0.1227	ppb	0.0503	41.0	31.4850	0.12267
Tl 190.794	-2.5431	ppb	3.2609	128.2	-11.7423	-2.54309
V 292.401	0.0751	ppb	0.1372	182.7	-12.3906	0.07510
Zn 206.200	0.2193	ppb	0.1856	84.6	0.7532	0.21927

CRI (CRI)

3/20/2015, 10:58:58 AM

Rack S, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.2528	10.1747	10.5410
Al 308.215	213.001	213.075	213.194
As 188.980	23.6032	18.6217	24.6192
B 249.678	104.418	104.715	104.491
Ba 389.178	10.0312	9.7229	10.5428
Be 313.042	4.3328	4.3477	4.3532
Ca 370.602	539.9	539.4	543.5
Cd 226.502	5.1002	5.1287	5.1386
Co 228.615	10.8568	10.7127	11.0861
Cr 267.716	10.7557	10.7301	10.7765

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	21.5851	21.7400	22.3683
Fe 271.441	61.6870	59.0442	54.5318
K 766.491	1113.78	1120.05	1125.65
Mg 279.078	522.731	521.494	527.155
Mn 257.610	11.0677	11.0569	11.1096
Mo 202.032	10.3978	10.5338	10.1469
Na 330.237	917.818	1059.18	1058.67
Ni 231.604	44.2182	42.7369	43.1528
Pb 220.353	8.4832	10.5714	9.9818
Sb 206.834	20.6610	19.3810	21.7247
Se 196.026	13.5835	29.0035	17.1385
Sn 189.925	54.7700	55.4356	51.5726
Sr 216.596	10.5501	10.3668	10.4323
Ti 334.941	10.3424	10.3881	10.4052
Tl 190.794	25.6039	27.3747	26.6008
V 292.401	10.7114	10.8509	10.6467
Zn 206.200	21.9024	19.7881	22.8336

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.3228	ppb	0.1929	1.9	910.578	103.22832
Al 308.215	213.090	ppb	0.0972	0.0	2022.85	106.54503
As 188.980	22.2814	ppb	3.2098	14.4	9.8554	111.40685
B 249.678	104.541	ppb	0.1551	0.1	1960.93	104.54149
Ba 389.178	10.0990	ppb	0.4141	4.1	187.092	100.98983
Be 313.042	4.3446	ppb	0.0106	0.2	7949.33	108.61494
Ca 370.602	540.9	ppb	2.274	0.4	1840	108.18119
Cd 226.502	5.1225	ppb	0.0200	0.4	255.488	102.44974
Co 228.615	10.8852	ppb	0.1883	1.7	114.354	108.85178
Cr 267.716	10.7541	ppb	0.0233	0.2	612.864	107.54106
Cu 324.754	21.8978	ppb	0.4148	1.9	2178.13	109.48895
Fe 271.441	58.4210	ppb	3.6181	6.2	95.5845	116.84199
K 766.491	1119.83	ppb	5.9397	0.5	53163.6	111.98305
Mg 279.078	523.794	ppb	2.9763	0.6	1544.58	104.75871
Mn 257.610	11.0781	ppb	0.0279	0.3	2572.08	110.78068
Mo 202.032	10.3595	ppb	0.1963	1.9	71.5796	103.59491
Na 330.237	1011.89	ppb	81.4699	8.1	81.3834	101.18912
Ni 231.604	43.3693	ppb	0.7640	1.8	131.782	108.42320
Pb 220.353	9.6788	ppb	1.0766	11.1	25.4494	96.78810
Sb 206.834	20.5889	ppb	1.1735	5.7	32.1428	102.94434
Se 196.026	19.9085	ppb	8.0746	40.6	7.3639	99.54256
Sn 189.925	53.9261	ppb	2.0652	3.8	33.4850	107.85213
Sr 216.596	10.4497	ppb	0.0929	0.9	124.872	104.49741
Ti 334.941	10.3786	ppb	0.0325	0.3	3045.61	103.78590
Tl 190.794	26.5265	ppb	0.8878	3.3	20.2843	106.10580
V 292.401	10.7363	ppb	0.1044	1.0	286.859	107.36331
Zn 206.200	21.5080	ppb	1.5606	7.3	23.2705	107.54002

Interf Check A (ICSA)

3/20/2015, 11:05:28 AM

Rack S, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1472u	-0.1458u	0.0996u
Al 308.215	532408	532445	532391
As 188.980	3.1668	-0.5952u	4.8118

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	6.4135u	5.5103u	4.9545u
Ba 389.178	4.0518	5.4570	4.3756
Be 313.042	-0.1463u	-0.1585u	-0.1568u
Ca 370.602	509303	510233	510130
Cd 226.502	-0.6002	-0.6149	-0.5269
Co 228.615	-3.1363u	-3.3239u	-3.2611u
Cr 267.716	-0.2254	-0.5732	-0.4790
Cu 324.754	2.2421	2.2635	2.0172
Fe 271.441	186617	186457	186310
K 766.491	4.7279	3.3708	3.7779
Mg 279.078	504087	505060	504188
Mn 257.610	1.6927	1.7675	1.6699
Mo 202.032	1.4649	2.7353	1.5138
Na 330.237	-86.1100u	-214.853u	-70.1128u
Ni 231.604	-0.7965	-1.0182	-1.5133
Pb 220.353	-1.9780	-2.7632	-6.4096u
Sb 206.834	7.7576	-0.0753	5.7466
Se 196.026	18.3860	-3.8370u	8.5454
Sn 189.925	2.6040	4.8051	-3.6497u
Sr 216.596	-7.7201	-9.4261	-8.8921
Ti 334.941	2.3336	2.2946	2.3265
Tl 190.794	6.8567u	7.4824u	5.5711u
V 292.401	4.6236	4.8468	5.0615
Zn 206.200	3.7455	5.7008	5.4008

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0337	ppb	0.1572	466.7	-55.3687	0.03369
Al 308.215	532415	ppb	27.7785	0.0	3859027	-
As 188.980	2.4611	ppb	2.7717	112.6	-6.1534	2.46114
B 249.678	5.6261	ppb	0.7363	13.1	-280.374	5.62608
Ba 389.178	4.6281	ppb	0.7358	15.9	1268.59	4.62813
Be 313.042	-0.1539	ppb	0.0066	4.3	-528.018	-0.15388
Ca 370.602	509889	ppb	509.8	0.1	1712553	-
Cd 226.502	-0.5807	ppb	0.0471	8.1	1069.37	-0.58066
Co 228.615	-3.2404	ppb	0.0955	2.9	-31.8710	-3.24043
Cr 267.716	-0.4259	ppb	0.1799	42.2	104.616	-0.42587
Cu 324.754	2.1742	ppb	0.1365	6.3	711.255	2.17423
Fe 271.441	186461	ppb	153.585	0.1	294631	-
K 766.491	3.9588	ppb	0.6964	17.6	481.675	3.95884
Mg 279.078	504445	ppb	534.916	0.1	1464877	-
Mn 257.610	1.7100	ppb	0.0511	3.0	5047.77	1.71003
Mo 202.032	1.9047	ppb	0.7198	37.8	9.0386	1.90467
Na 330.237	-123.692	ppb	79.3519	64.2	-23.3054	-123.69186
Ni 231.604	-1.1093	ppb	0.3670	33.1	8.8812	-1.10931
Pb 220.353	-3.7169	ppb	2.3647	63.6	9.4587	-3.71695
Sb 206.834	4.4763	ppb	4.0681	90.9	12.4681	4.47630
Se 196.026	7.6981	ppb	11.1357	144.7	3.5824	7.69814
Sn 189.925	1.2531	ppb	4.3863	350.0	-5.3515	1.25315
Sr 216.596	-8.6795	ppb	0.8727	10.1	326.221	-8.67945
Ti 334.941	2.3182	ppb	0.0208	0.9	1619.37	2.31824
Tl 190.794	6.6368	ppb	0.9745	14.7	-30.9553	6.63676
V 292.401	4.8440	ppb	0.2190	4.5	52.2517	4.84399
Zn 206.200	4.9490	ppb	1.0530	21.3	12.1755	4.94902

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Interf Check AB (ICSAB) 3/20/2015, 11:10:13 AM Rack S, Tube 6
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	214.460	213.651	214.026
Al 308.215	530860	530972	530670
As 188.980	102.834	101.751	99.6726
B 249.678	2.7741u	2.8432u	2.4403u
Ba 389.178	496.112	495.797	495.573
Be 313.042	471.702	472.301	470.963
Ca 370.602	505642	507410	507292
Cd 226.502	910.427	909.307	907.528
Co 228.615	465.514	463.332	464.014
Cr 267.716	491.546	491.394	490.598
Cu 324.754	562.623	560.070	565.300
Fe 271.441	185818	185726	185454
K 766.491	2.8386	2.7296	2.5687
Mg 279.078	500621	501995	500880
Mn 257.610	502.869	501.740	501.340
Mo 202.032	997.124	997.552	991.628
Na 330.237	-279.632u	-279.971u	-249.690u
Ni 231.604	915.440	911.025	915.600
Pb 220.353	41.7953	43.5952	41.0977
Sb 206.834	628.231	626.554	628.118
Se 196.026	52.8312	45.6566	52.3148
Sn 189.925	1019.78	1020.21	1005.54
Sr 216.596	-8.9452	-8.2200	-8.6817
Ti 334.941	2.2898	2.2869	2.3001
Tl 190.794	96.0372	99.8184	102.354
V 292.401	488.645	488.644	487.703
Zn 206.200	909.161	904.847	897.571

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	214.045	ppb	0.4050	0.2	19187.5	107.02274
Al 308.215	530834	ppb	152.726	0.0	3847660	106.16675
As 188.980	101.419	ppb	1.6064	1.6	66.6999	101.41924
B 249.678	2.6859	ppb	0.2154	8.0	-321.987	-
Ba 389.178	495.828	ppb	0.2708	0.1	12446.9	99.16550
Be 313.042	471.655	ppb	0.6700	0.1	910454	94.33105
Ca 370.602	506781	ppb	988.3	0.2	1702130	101.35629
Cd 226.502	909.087	ppb	1.4620	0.2	41839.4	90.90874
Co 228.615	464.287	ppb	1.1163	0.2	5197.44	92.85735
Cr 267.716	491.179	ppb	0.5089	0.1	26609.3	98.23585
Cu 324.754	562.664	ppb	2.6154	0.5	44888.1	112.53286
Fe 271.441	185666	ppb	189.380	0.1	293432	92.83289
K 766.491	2.7123	ppb	0.1358	5.0	422.824	-
Mg 279.078	501166	ppb	730.242	0.1	1455342	100.23312
Mn 257.610	501.983	ppb	0.7929	0.2	118128	100.39659
Mo 202.032	995.435	ppb	3.3033	0.3	6388.51	99.54346
Na 330.237	-269.764	ppb	17.3859	6.4	-41.4310	-
Ni 231.604	914.021	ppb	2.5963	0.3	2872.92	91.40215
Pb 220.353	42.1627	ppb	1.2886	3.1	80.5816	84.32542
Sb 206.834	627.634	ppb	0.9374	0.1	896.728	104.60571
Se 196.026	50.2676	ppb	4.0015	8.0	22.5557	100.53513
Sn 189.925	1015.18	ppb	8.3525	0.8	742.215	101.51772
Sr 216.596	-8.6156	ppb	0.3671	4.3	288.828	-

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	2.2923	ppb	0.0069	0.3	1608.63	-
Tl 190.794	99.4032	ppb	3.1788	3.2	70.2249	99.40321
V 292.401	488.330	ppb	0.5436	0.1	13505.9	97.66606
Zn 206.200	903.860	ppb	5.8575	0.6	962.775	90.38596

LRA1 (Samp) **3/20/2015, 11:14:59 AM** **Rack S, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1001	-0.4321	-0.7530
Al 308.215	33.5697	33.3885	34.3516
As 188.980	19095.7x	19721.6x	19707.1x
B 249.678	4939.83	5073.17x	5068.95x
Ba 389.178	-0.7028u	-0.0474u	-0.7563u
Be 313.042	0.0879	0.0830	0.0885
Ca 370.602	-2252	-2217	-2228
Cd 226.502	-0.6434u	-0.6629u	-0.8505u
Co 228.615	9724.28	9976.74	9943.09
Cr 267.716	-0.7853	-0.9192	-0.6671
Cu 324.754	-3.1585u	-3.2439u	-3.0991u
Fe 271.441	62.9351	79.4954	70.3903
K 766.491	0.7741	0.2401	0.1353
Mg 279.078	1.7128u	-0.5611u	4.1969u
Mn 257.610	27392.4x	27929.0x	27836.7x
Mo 202.032	1.5455	0.8866	0.6648
Na 330.237	-894.484u	-963.205u	-789.202u
Ni 231.604	10054.5x	10289.1x	10251.3x
Pb 220.353	20077.1x	20564.5x	20464.0x
Sb 206.834	4.1940	6.1074	0.5937
Se 196.026	-7.6215	-4.5921	-12.9515
Sn 189.925	4.2640	2.5107	2.7107
Sr 216.596	-0.2380u	-0.5537u	-0.8356u
Ti 334.941	27579.1x	28138.2x	27988.1x
Tl 190.794	-2.1453	-0.5738	-6.1674
V 292.401	0.7997	1.1958	1.5844
Zn 206.200	1.7123	-1.7278u	1.3651

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4284b	ppb	0.3265	76.2	97.5487
Al 308.215	33.7699b	ppb	0.5118	1.5	651.470
As 188.980	19508.1xb	ppb	357.283	1.8	14416.7
B 249.678	5027.32xb	ppb	75.7944	1.5	90353.0
Ba 389.178	-0.5022b	ppb	0.3948	78.6	-55.1779
Be 313.042	0.0865b	ppb	0.0030	3.5	-289.222
Ca 370.602	-2232b	ppb	17.74	0.8	7874
Cd 226.502	-0.7189b	ppb	0.1144	15.9	-52.1619
Co 228.615	9881.37b	ppb	137.082	1.4	111654
Cr 267.716	-0.7906b	ppb	0.1261	16.0	185.227
Cu 324.754	-3.1672b	ppb	0.0728	2.3	203.783
Fe 271.441	70.9402b	ppb	8.2938	11.7	1243.43
K 766.491	0.3831b	ppb	0.3426	89.4	312.860
Mg 279.078	1.7829b	ppb	2.3798	133.5	-583.420
Mn 257.610	27719.3xb	ppb	286.914	1.0	6266512
Mo 202.032	1.0323b	ppb	0.4581	44.4	11.6549

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-882.297b	ppb	87.6394	9.9	-16.3577
Ni 231.604	10198.3xb	ppb	125.938	1.2	31901.8
Pb 220.353	20368.5xb	ppb	257.333	1.3	32103.0
Sb 206.834	3.6317b	ppb	2.7995	77.1	7.8413
Se 196.026	-8.3884b	ppb	4.2321	50.5	0.9722
Sn 189.925	3.1618b	ppb	0.9598	30.4	-3.9444
Sr 216.596	-0.5424b	ppb	0.2990	55.1	-281.508
Ti 334.941	27901.8xb	ppb	289.365	1.0	8197719
Tl 190.794	-2.9622b	ppb	2.8849	97.4	29.5571
V 292.401	1.1933b	ppb	0.3924	32.9	235.984
Zn 206.200	0.4498b	ppb	1.8939	421.0	1.0185

LRA2 (Samp)

3/20/2015, 11:19:45 AM

Rack S, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4260u	0.3197u	1.1443u
Al 308.215	822162x	823374x	822751x
As 188.980	66.9672	55.4316	51.1190
B 249.678	86.8771u	77.3530u	70.1693u
Ba 389.178	20.5053	22.2892	22.9950
Be 313.042	-0.2019u	-0.1969u	-0.2032u
Ca 370.602	798053	804063	805072
Cd 226.502	3.4101	4.0543	3.7136
Co 228.615	-11.8500u	-11.9277u	-13.6111u
Cr 267.716	-6.1342	-5.7926	-5.7775
Cu 324.754	1.0399	1.3598	0.5073
Fe 271.441	903474	896667	899409
K 766.491	10.9079	10.8483	11.0105
Mg 279.078	769234	766158	768218
Mn 257.610	5.2608	5.0886	5.0417
Mo 202.032	2.4533u	2.5785u	2.3310u
Na 330.237	-85.6865u	-317.749u	4.4360u
Ni 231.604	-15.4437	-18.1973	-20.9968
Pb 220.353	-22.3654	-16.0713	-29.5423
Sb 206.834	9.5592	20.9798	-1.6854
Se 196.026	11.9239	-27.6274u	-10.1193
Sn 189.925	7.6122	4.4697	4.5149
Sr 216.596	10.0293	8.8464	9.0124
Ti 334.941	6.5357	5.7314	5.1014
Tl 190.794	34.4684u	35.5833u	37.9349u
V 292.401	19.4473	19.4526	18.4018
Zn 206.200	-16.2435	-15.9023	-16.0239

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6300	ppb	0.4485	71.2	-136.823
Al 308.215	822763x	ppb	605.893	0.1	5963326
As 188.980	57.8393	ppb	8.1938	14.2	29.5885
B 249.678	78.1331	ppb	8.3812	10.7	-759.941
Ba 389.178	21.9298	ppb	1.2832	5.9	2779.28
Be 313.042	-0.2006	ppb	0.0033	1.6	-525.682
Ca 370.602	802396	ppb	3795	0.5	2687558
Cd 226.502	3.7260	ppb	0.3223	8.6	5335.69
Co 228.615	-12.4629	ppb	0.9951	8.0	87.8447

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-5.9014	ppb	0.2017	3.4	153.073
Cu 324.754	0.9690	ppb	0.4306	44.4	948.516
Fe 271.441	899850	ppb	3425.06	0.4	1421862
K 766.491	10.9223	ppb	0.0820	0.8	810.427
Mg 279.078	767870	ppb	1567.63	0.2	2229830
Mn 257.610	5.1304	ppb	0.1154	2.2	10154.8
Mo 202.032	2.4543	ppb	0.1238	5.0	-19.0787
Na 330.237	-132.999	ppb	166.222	125.0	-203.417
Ni 231.604	-18.2126	ppb	2.7766	15.2	17.1573
Pb 220.353	-22.6597	ppb	6.7403	29.7	23.2956
Sb 206.834	9.6179	ppb	11.3327	117.8	33.0770
Se 196.026	-8.6076	ppb	19.8189	230.2	2.5989
Sn 189.925	5.5323	ppb	1.8014	32.6	-2.1979
Sr 216.596	9.2960	ppb	0.6404	6.9	1566.77
Ti 334.941	5.7895	ppb	0.7189	12.4	3208.17
Tl 190.794	35.9955	ppb	1.7696	4.9	-110.968
V 292.401	19.1006	ppb	0.6052	3.2	179.091
Zn 206.200	-16.0566	ppb	0.1730	1.1	14.5228

LRA3 (Samp)

3/20/2015, 11:24:32 AM

Rack S, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0515	0.1211	-0.0052u
Al 308.215	40.0612	43.0459	38.1518
As 188.980	13.7539	13.3948	14.5361
B 249.678	17.2983	16.9095	15.0221
Ba 389.178	0.4062	-0.1961u	0.0639
Be 313.042	0.0090	-0.0011u	0.0028u
Ca 370.602	48.19	45.64	42.56
Cd 226.502	0.1968	0.1020	0.2467
Co 228.615	0.4110	0.0862	0.4148
Cr 267.716	0.0960	0.2499	0.0635
Cu 324.754	0.0511	-0.1947u	-0.0688u
Fe 271.441	62.5140	62.3291	51.8471
K 766.491	38917.6x	39953.3x	39118.5x
Mg 279.078	38.9740	38.4364	33.5394
Mn 257.610	0.3713	0.3542	0.3141
Mo 202.032	0.1617	0.2467	0.2840
Na 330.237	101568x	103509x	101424x
Ni 231.604	-0.1972u	0.8390	0.1883
Pb 220.353	0.5030	-1.4798u	-1.6592u
Sb 206.834	0.8886	-0.4655u	1.8464
Se 196.026	-6.3447u	0.9932	-1.4679u
Sn 189.925	2.4079	1.5822	2.0253
Sr 216.596	0.7032	0.2318	0.1056
Ti 334.941	1.8286	1.7516	1.6191
Tl 190.794	-5.1029u	0.5669	-3.3466u
V 292.401	0.2364	0.2508	0.1051
Zn 206.200	28588.6x	29179.5x	28577.9x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0558b	ppb	0.0633	113.4	-12.0955
Al 308.215	40.4196b	ppb	2.4667	6.1	769.772

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	13.8950b	ppb	0.5836	4.2	3.6582
B 249.678	16.4100b	ppb	1.2176	7.4	378.259
Ba 389.178	0.0913b	ppb	0.3021	330.7	-41.7165
Be 313.042	0.0036b	ppb	0.0051	142.8	-444.042
Ca 370.602	45.47b	ppb	2.818	6.2	168.8
Cd 226.502	0.1818b	ppb	0.0735	40.4	33.3838
Co 228.615	0.3040b	ppb	0.1886	62.0	-4.4621
Cr 267.716	0.1365b	ppb	0.0995	72.9	41.5595
Cu 324.754	-0.0708b	ppb	0.1229	173.5	447.706
Fe 271.441	58.8968b	ppb	6.1059	10.4	95.0128
K 766.491	39329.8xb	ppb	549.209	1.4	1857111
Mg 279.078	36.9833b	ppb	2.9946	8.1	131.036
Mn 257.610	0.3465b	ppb	0.0293	8.5	141.627
Mo 202.032	0.2308b	ppb	0.0627	27.2	6.5494
Na 330.237	102167xb	ppb	1164.40	1.1	4896.49
Ni 231.604	0.2767b	ppb	0.5237	189.3	-3.0812
Pb 220.353	-0.8787b	ppb	1.1999	136.6	8.8236
Sb 206.834	0.7565b	ppb	1.1616	153.5	3.6922
Se 196.026	-2.2732b	ppb	3.7346	164.3	-2.4701
Sn 189.925	2.0051b	ppb	0.4132	20.6	-4.7667
Sr 216.596	0.3469b	ppb	0.3150	90.8	5.3219
Ti 334.941	1.7331b	ppb	0.1060	6.1	496.937
Tl 190.794	-2.6275b	ppb	2.9025	110.5	-11.8419
V 292.401	0.1974b	ppb	0.0803	40.7	-9.6352
Zn 206.200	28782.0xb	ppb	344.324	1.2	30469.2

Cont Calib Verif (CCV) 3/20/2015, 11:29:16 AM Rack 1, Tube 1
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	506.524	502.118	506.331
Al 308.215	4971.21	4939.90	4956.67
As 188.980	508.796	508.462	506.592
B 249.678	504.097	504.235	507.087
Ba 389.178	5060.69	5017.35	5039.19
Be 313.042	506.113	504.721	505.668
Ca 370.602	5131	5099	5119
Cd 226.502	507.539	505.396	507.246
Co 228.615	514.156	509.709	510.653
Cr 267.716	5179.52	5140.92	5166.56
Cu 324.754	5197.91	5184.10	5184.66
Fe 271.441	5058.66	5028.11	5058.25
K 766.491	10674.1	10555.4	10603.6
Mg 279.078	5057.05	5030.73	5043.64
Mn 257.610	5148.15	5102.59	5123.40
Mo 202.032	502.871	500.304	502.864
Na 330.237	7854.35	7578.20	7761.15
Ni 231.604	2553.42	2546.76	2533.98
Pb 220.353	506.157	505.234	506.373
Sb 206.834	1002.92	999.967	1008.29
Se 196.026	4992.86	4992.88	5033.85
Sn 189.925	5038.56	5047.88	5007.87
Sr 216.596	2529.10	2517.30	2505.28
Ti 334.941	505.424	501.689	502.286

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	5138.28	5095.27	5119.98
V 292.401	5049.03	5011.41	5031.15
Zn 206.200	2535.01	2526.13	2542.76

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.991	ppb	2.4899	0.5	45328.5	100.99821
Al 308.215	4955.93	ppb	15.6662	0.3	37125.3	99.11855
As 188.980	507.950	ppb	1.1878	0.2	368.741	101.59002
B 249.678	505.140	ppb	1.6876	0.3	9157.40	101.02792
Ba 389.178	5039.08	ppb	21.6660	0.4	114639	100.78156
Be 313.042	505.501	ppb	0.7106	0.1	975943	101.10013
Ca 370.602	5116	ppb	16.00	0.3	17628	102.32764
Cd 226.502	506.727	ppb	1.1620	0.2	22766.7	101.34543
Co 228.615	511.506	ppb	2.3427	0.5	5747.67	102.30117
Cr 267.716	5162.33	ppb	19.6437	0.4	278461	103.24662
Cu 324.754	5188.89	ppb	7.8179	0.2	409051	103.77776
Fe 271.441	5048.34	ppb	17.5213	0.3	8080.64	100.96677
K 766.491	10611.0	ppb	59.6874	0.6	501257	106.11033
Mg 279.078	5043.81	ppb	13.1620	0.3	14557.2	100.87612
Mn 257.610	5124.71	ppb	22.8131	0.4	1158652	102.49427
Mo 202.032	502.013	ppb	1.4802	0.3	3223.34	100.40260
Na 330.237	7731.24	ppb	140.483	1.8	392.750	103.08315
Ni 231.604	2544.72	ppb	9.8779	0.4	7962.64	101.78880
Pb 220.353	505.921	ppb	0.6048	0.1	812.001	101.18421
Sb 206.834	1003.73	ppb	4.2191	0.4	1503.75	100.37270
Se 196.026	5006.53	ppb	23.6638	0.5	2218.76	100.13057
Sn 189.925	5031.44	ppb	20.9358	0.4	3703.41	100.62880
Sr 216.596	2517.23	ppb	11.9064	0.5	29995.5	100.68907
Ti 334.941	503.133	ppb	2.0062	0.4	147828	100.62658
Tl 190.794	5117.84	ppb	21.5822	0.4	5637.57	102.35684
V 292.401	5030.53	ppb	18.8199	0.4	142032	100.61062
Zn 206.200	2534.63	ppb	8.3194	0.3	2673.69	101.38532

Cont Calib Blank (CCB)

3/20/2015, 11:33:58 AM

Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1536	-0.0363u	0.2055
Al 308.215	4.5810	3.1970	4.1068
As 188.980	-1.3654u	-0.3148u	2.9717
B 249.678	10.0412	9.2917	8.0945
Ba 389.178	-0.5156u	0.1152	0.3846
Be 313.042	0.0338	0.0354	0.0291
Ca 370.602	4.529	9.313	8.129
Cd 226.502	0.1075	0.0670	0.0563
Co 228.615	0.1039	0.0851	-0.2040u
Cr 267.716	0.5531	0.5263	0.5808
Cu 324.754	0.5771	0.2190	0.1208
Fe 271.441	7.0810	8.9283	6.1797
K 766.491	2.1502	1.9979	2.1404
Mg 279.078	2.2252	5.3691	3.9015
Mn 257.610	0.5148	0.5254	0.4899
Mo 202.032	0.3852	0.4793	0.0090
Na 330.237	33.7544	34.1503	120.609

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	1.0458	1.1465	1.2201
Pb 220.353	-4.5024u	0.8707	-1.7771u
Sb 206.834	-0.5844u	-0.3900u	1.9238
Se 196.026	5.6714	-3.2073u	-1.0645u
Sn 189.925	4.2609	2.8722	0.9128
Sr 216.596	0.7447	0.1338	0.0392
Ti 334.941	0.5714	0.4944	0.4456
Tl 190.794	1.6565	-0.0551u	1.4332
V 292.401	0.4516	0.4983	0.5915
Zn 206.200	2.0334	0.9769	2.8946

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1076	ppb	0.1273	118.3	-7.4186	0.10759
Al 308.215	3.9616	ppb	0.7033	17.8	505.584	3.96158
As 188.980	0.4305	ppb	2.2626	525.6	-6.2965	0.43051
B 249.678	9.1425	ppb	0.9819	10.7	247.751	9.14246
Ba 389.178	-0.0053	ppb	0.4621	8788.0	-44.0246	-0.00526
Be 313.042	0.0328	ppb	0.0033	10.0	-376.250	0.03278
Ca 370.602	7.324	ppb	2.491	34.0	40.45	7.32355
Cd 226.502	0.0770	ppb	0.0270	35.1	29.0550	0.07696
Co 228.615	-0.0050	ppb	0.1726	3464.6	-7.9937	-0.00498
Cr 267.716	0.5534	ppb	0.0273	4.9	62.6779	0.55339
Cu 324.754	0.3056	ppb	0.2402	78.6	477.337	0.30565
Fe 271.441	7.3963	ppb	1.4012	18.9	13.6125	7.39633
K 766.491	2.0962	ppb	0.0852	4.1	393.737	2.09620
Mg 279.078	3.8320	ppb	1.5731	41.1	34.7653	3.83195
Mn 257.610	0.5101	ppb	0.0182	3.6	178.676	0.51006
Mo 202.032	0.2912	ppb	0.2489	85.5	6.9388	0.29115
Na 330.237	62.8380	ppb	50.0318	79.6	33.2035	62.83802
Ni 231.604	1.1375	ppb	0.0875	7.7	-0.4222	1.13749
Pb 220.353	-1.8030	ppb	2.6866	149.0	7.3649	-1.80297
Sb 206.834	0.3165	ppb	1.3954	440.9	3.0621	0.31646
Se 196.026	0.4665	ppb	4.6332	993.1	-1.2561	0.46653
Sn 189.925	2.6820	ppb	1.6821	62.7	-4.2976	2.68199
Sr 216.596	0.3059	ppb	0.3830	125.2	4.7276	0.30588
Ti 334.941	0.5038	ppb	0.0634	12.6	143.468	0.50381
Tl 190.794	1.0115	ppb	0.9304	92.0	-7.8273	1.01149
V 292.401	0.5138	ppb	0.0712	13.9	0.0533	0.51380
Zn 206.200	1.9683	ppb	0.9605	48.8	2.6041	1.96831

mb 680-375250/1-a (Samp)

3/20/2015, 11:38:41 AM

Rack 1, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2283	-0.3134u	-0.1193u
Al 308.215	38.9763	36.5769	36.8919
As 188.980	2.0870	-0.4722u	4.8228
B 249.678	31.2938	31.4040	30.5162
Ba 389.178	17.9636	17.6351	17.2414
Be 313.042	0.0091	0.0115	0.0145
Ca 370.602	13305	13416	13332
Cd 226.502	0.0843	0.1603	0.0936
Co 228.615	0.0034	0.2270	0.0500
Cr 267.716	1.5629	1.3177	1.2715

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	42.0828	41.8061	42.2887
Fe 271.441	81.3616	70.2453	77.8276
K 766.491	1856.40	1871.96	1858.44
Mg 279.078	3710.36	3734.87	3718.55
Mn 257.610	3.3611	3.3293	3.2427
Mo 202.032	-0.1173u	0.7135	0.7488
Na 330.237	11786.0	11831.9	11584.4
Ni 231.604	9.4330	11.0612	10.8460
Pb 220.353	13.5261	17.6140	17.6590
Sb 206.834	2.1342	-0.7644u	1.9205
Se 196.026	6.7475	4.1133	3.6058
Sn 189.925	1.9673	-0.2606u	0.5118
Sr 216.596	75.9223	76.5809	75.9272
Ti 334.941	0.2575	0.2157	0.1509
Tl 190.794	3.7495	1.4373	2.6999
V 292.401	0.5816	0.3704	0.4689
Zn 206.200	231.993	227.660	227.975

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0681	ppb	0.2744	402.8	-26.0544
Al 308.215	37.4817	ppb	1.3039	3.5	748.531
As 188.980	2.1459	ppb	2.6480	123.4	-5.0288
B 249.678	31.0713	ppb	0.4839	1.6	641.366
Ba 389.178	17.6134	ppb	0.3616	2.1	364.750
Be 313.042	0.0117	ppb	0.0027	23.3	-413.656
Ca 370.602	13351	ppb	57.88	0.4	44916
Cd 226.502	0.1127	ppb	0.0414	36.8	31.0209
Co 228.615	0.0935	ppb	0.1180	126.3	-6.8878
Cr 267.716	1.3840	ppb	0.1566	11.3	107.745
Cu 324.754	42.0592	ppb	0.2422	0.6	3765.69
Fe 271.441	76.4781	ppb	5.6797	7.4	122.779
K 766.491	1862.27	ppb	8.4584	0.5	88215.1
Mg 279.078	3721.26	ppb	12.4768	0.3	10831.3
Mn 257.610	3.3110	ppb	0.0613	1.9	841.846
Mo 202.032	0.4483	ppb	0.4902	109.3	7.9451
Na 330.237	11734.1	ppb	131.641	1.1	626.026
Ni 231.604	10.4467	ppb	0.8845	8.5	28.7307
Pb 220.353	16.2664	ppb	2.3732	14.6	35.8506
Sb 206.834	1.0968	ppb	1.6154	147.3	4.1917
Se 196.026	4.8222	ppb	1.6865	35.0	0.6757
Sn 189.925	0.7395	ppb	1.1313	153.0	-5.7263
Sr 216.596	76.1435	ppb	0.3788	0.5	915.173
Ti 334.941	0.2080	ppb	0.0537	25.8	62.2756
Tl 190.794	2.6289	ppb	1.1578	44.0	-6.0552
V 292.401	0.4736	ppb	0.1057	22.3	-1.2299
Zn 206.200	229.209	ppb	2.4159	1.1	243.162

lles 680-375250/2-a (Samp) 3/20/2015, 11:43:24 AM Rack 1, Tube 4

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2718	0.2677	-0.1247u
Al 308.215	61.0345	60.5226	60.9418
As 188.980	-3.2775u	0.4799	0.0905

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	28.3217	28.4226	28.1638
Ba 389.178	17.6351	17.3717	17.2370
Be 313.042	-0.0043u	-0.0044u	-0.0076u
Ca 370.602	13350	13412	13411
Cd 226.502	0.0694	0.1179	0.1078
Co 228.615	0.0884	0.0665	-0.2957u
Cr 267.716	0.1347	0.2841	0.2926
Cu 324.754	20.2379	20.6767	20.7762
Fe 271.441	323.421	314.361	311.861
K 766.491	1848.18	1853.73	1856.65
Mg 279.078	3724.64	3743.48	3744.79
Mn 257.610	1.4533	1.3869	1.4420
Mo 202.032	0.0798	0.2291	0.0209
Na 330.237	11707.2	11746.5	11566.5
Ni 231.604	2.1347	1.3408	2.6215
Pb 220.353	47.7001	47.8414	47.7097
Sb 206.834	2.9039	0.6997	2.1598
Se 196.026	1.0963	-5.5162u	3.0125
Sn 189.925	1.9720	2.5947	-2.5825u
Sr 216.596	74.9280	76.4269	75.8418
Ti 334.941	0.0371	0.0665	0.1307
Tl 190.794	-1.2200u	-5.0743u	0.4922
V 292.401	0.3234	0.3674	0.3941
Zn 206.200	11.2374	12.9445	13.3045

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1383	ppb	0.2277	164.7	-7.5467
Al 308.215	60.8330	ppb	0.2727	0.4	917.763
As 188.980	-0.9024	ppb	2.0662	229.0	-7.2841
B 249.678	28.3027	ppb	0.1304	0.5	591.066
Ba 389.178	17.4146	ppb	0.2025	1.2	360.448
Be 313.042	-0.0054	ppb	0.0019	34.7	-446.665
Ca 370.602	13391	ppb	35.87	0.3	45047
Cd 226.502	0.0984	ppb	0.0256	26.0	31.7365
Co 228.615	-0.0469	ppb	0.2157	459.7	-8.4456
Cr 267.716	0.2371	ppb	0.0888	37.4	45.9910
Cu 324.754	20.5636	ppb	0.2864	1.4	2072.89
Fe 271.441	316.547	ppb	6.0822	1.9	502.092
K 766.491	1852.85	ppb	4.3031	0.2	87770.6
Mg 279.078	3737.64	ppb	11.2727	0.3	10878.9
Mn 257.610	1.4274	ppb	0.0355	2.5	416.892
Mo 202.032	0.1099	ppb	0.1073	97.6	5.7617
Na 330.237	11673.4	ppb	94.6588	0.8	625.482
Ni 231.604	2.0323	ppb	0.6464	31.8	2.4062
Pb 220.353	47.7504	ppb	0.0789	0.2	85.4901
Sb 206.834	1.9212	ppb	1.1213	58.4	5.3713
Se 196.026	-0.4691	ppb	4.4746	953.8	-1.6680
Sn 189.925	0.6614	ppb	2.8265	427.4	-5.7839
Sr 216.596	75.7322	ppb	0.7554	1.0	910.815
Ti 334.941	0.0781	ppb	0.0478	61.3	24.1597
Tl 190.794	-1.9340	ppb	2.8511	147.4	-11.1186
V 292.401	0.3616	ppb	0.0357	9.9	-4.3655
Zn 206.200	12.4955	ppb	1.1043	8.8	13.7592

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Cont Calib Verif (CCV) 3/20/2015, 11:51:05 AM Rack 1, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	493.981	499.664	509.752
Al 308.215	4853.90	4873.10	4984.35
As 188.980	484.536	487.912	502.018
B 249.678	487.131	490.164	503.605
Ba 389.178	4938.90	4959.56	5062.09
Be 313.042	494.727	497.978	509.625
Ca 370.602	5027	5044	5162
Cd 226.502	496.941	497.443	508.335
Co 228.615	500.987	503.988	512.667
Cr 267.716	5060.90	5079.61	5185.26
Cu 324.754	5036.74	5074.12	5205.67
Fe 271.441	4935.13	4962.55	5083.54
K 766.491	10421.2	10458.1	10678.0
Mg 279.078	4942.95	4964.51	5065.18
Mn 257.610	5018.68	5025.73	5142.14
Mo 202.032	491.721	492.510	503.838
Na 330.237	7394.90	7247.45	7676.49
Ni 231.604	2502.86	2518.11	2560.89
Pb 220.353	494.207	498.727	507.488
Sb 206.834	979.981	990.832	1008.54
Se 196.026	4929.17	4927.37	5056.11
Sn 189.925	4939.63	4941.25	5045.59
Sr 216.596	2456.22	2459.81	2510.87
Ti 334.941	491.763	493.448	504.398
Tl 190.794	5037.23	5036.33	5139.95
V 292.401	4929.39	4942.25	5055.73
Zn 206.200	2491.71	2494.46	2537.11

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.132	ppb	7.9877	1.6	44982.7	100.22649
Al 308.215	4903.79	ppb	70.4327	1.4	36739.2	98.07572
As 188.980	491.489	ppb	9.2738	1.9	356.573	98.29778
B 249.678	493.633	ppb	8.7675	1.8	8950.77	98.72670
Ba 389.178	4986.85	ppb	65.9729	1.3	113451	99.73700
Be 313.042	500.777	ppb	7.8334	1.6	966818	100.15533
Ca 370.602	5078	ppb	73.23	1.4	17493	101.55808
Cd 226.502	500.906	ppb	6.4386	1.3	22505.5	100.18127
Co 228.615	505.881	ppb	6.0659	1.2	5684.38	101.17618
Cr 267.716	5108.59	ppb	67.0527	1.3	275563	102.17183
Cu 324.754	5105.51	ppb	88.7360	1.7	402485	102.11017
Fe 271.441	4993.74	ppb	78.9644	1.6	7993.26	99.87479
K 766.491	10519.1	ppb	138.831	1.3	496917	105.19106
Mg 279.078	4990.88	ppb	65.2423	1.3	14404.9	99.81757
Mn 257.610	5062.18	ppb	69.3314	1.4	1144515	101.24365
Mo 202.032	496.023	ppb	6.7800	1.4	3184.93	99.20457
Na 330.237	7439.61	ppb	217.987	2.9	378.207	99.19482
Ni 231.604	2527.29	ppb	30.0826	1.2	7908.07	101.09142
Pb 220.353	500.141	ppb	6.7522	1.4	802.840	100.02812
Sb 206.834	993.116	ppb	14.4141	1.5	1487.83	99.31163
Se 196.026	4970.88	ppb	73.8160	1.5	2202.95	99.41761
Sn 189.925	4975.49	ppb	60.7128	1.2	3662.15	99.50976
Sr 216.596	2475.64	ppb	30.5671	1.2	29499.3	99.02543

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	496.536	ppb	6.8606	1.4	145890	99.30730
Tl 190.794	5071.17	ppb	59.5666	1.2	5586.05	101.42338
V 292.401	4975.79	ppb	69.5289	1.4	140487	99.51587
Zn 206.200	2507.76	ppb	25.4551	1.0	2645.36	100.31057

Cont Calib Blank (CCB) 3/20/2015, 11:55:48 AM Rack 1, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0936	0.1705	0.0672
Al 308.215	2.9144	3.5338	4.0180
As 188.980	2.0557	1.6934	-0.4307u
B 249.678	5.6668	5.1238	4.4182
Ba 389.178	0.9188	0.5424	0.8326
Be 313.042	0.0701	0.0704	0.0700
Ca 370.602	4.834	9.236	4.858
Cd 226.502	0.0696	0.0536	0.1878
Co 228.615	0.1941	0.1311	-0.0108u
Cr 267.716	0.8227	0.8132	0.8913
Cu 324.754	0.0210	0.8620	0.4281
Fe 271.441	14.7718	9.0285	15.9089
K 766.491	2.3978	2.6418	2.5959
Mg 279.078	4.5405	6.2598	5.4391
Mn 257.610	0.8350	0.8896	0.9116
Mo 202.032	0.5275	0.6826	0.2432
Na 330.237	119.175	47.7969	57.1031
Ni 231.604	0.0773	0.6070	0.2503
Pb 220.353	-1.2004u	-0.0927u	-1.0984u
Sb 206.834	-0.1328u	1.1479	1.4725
Se 196.026	2.2775	2.0122	0.1421
Sn 189.925	4.1956	2.8799	3.7616
Sr 216.596	0.3572	0.2434	0.7626
Ti 334.941	0.3170	0.2796	0.3097
Tl 190.794	1.6096	-0.6840u	0.0265
V 292.401	0.8742	0.9900	0.9928
Zn 206.200	0.7286	0.5004	0.2890

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1104	ppb	0.0537	48.6	-7.1680	0.11044
Al 308.215	3.4887	ppb	0.5532	15.9	502.225	3.48875
As 188.980	1.1061	ppb	1.3432	121.4	-5.7970	1.10614
B 249.678	5.0696	ppb	0.6261	12.4	174.621	5.06960
Ba 389.178	0.7646	ppb	0.1972	25.8	-26.5020	0.76461
Be 313.042	0.0702	ppb	0.0002	0.2	-304.037	0.07016
Ca 370.602	6.309	ppb	2.535	40.2	36.92	6.30923
Cd 226.502	0.1037	ppb	0.0733	70.7	30.2639	0.10366
Co 228.615	0.1048	ppb	0.1050	100.2	-6.7648	0.10479
Cr 267.716	0.8424	ppb	0.0426	5.1	78.2647	0.84241
Cu 324.754	0.4370	ppb	0.4206	96.2	487.677	0.43702
Fe 271.441	13.2364	ppb	3.6882	27.9	22.8564	13.23640
K 766.491	2.5451	ppb	0.1297	5.1	414.932	2.54514
Mg 279.078	5.4131	ppb	0.8599	15.9	39.3500	5.41311
Mn 257.610	0.8787	ppb	0.0394	4.5	262.035	0.87872
Mo 202.032	0.4844	ppb	0.2229	46.0	8.1794	0.48443

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	74.6916	ppb	38.8037	52.0	33.8260	74.69160
Ni 231.604	0.3115	ppb	0.2701	86.7	-3.0084	0.31153
Pb 220.353	-0.7972	ppb	0.6122	76.8	8.9507	-0.79716
Sb 206.834	0.8292	ppb	0.8488	102.4	3.8026	0.82917
Se 196.026	1.4773	ppb	1.1639	78.8	-0.8081	1.47727
Sn 189.925	3.6124	ppb	0.6704	18.6	-3.6116	3.61238
Sr 216.596	0.4544	ppb	0.2729	60.1	6.5321	0.45441
Ti 334.941	0.3021	ppb	0.0198	6.6	84.1997	0.30208
Tl 190.794	0.3174	ppb	1.1741	369.9	-8.5909	0.31738
V 292.401	0.9523	ppb	0.0677	7.1	12.4403	0.95232
Zn 206.200	0.5060	ppb	0.2199	43.5	1.0555	0.50596

mb 680-375250/1-a (Samp) 3/20/2015, 12:00:31 PM Rack 1, Tube 3
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2189	-0.0277u	-0.0921u
Al 308.215	3.6538	2.5505	3.7844
As 188.980	1.8411	-1.8226u	-1.5742u
B 249.678	1.1021	0.8657	0.7339
Ba 389.178	0.9989	0.0440	0.0221
Be 313.042	0.0161	0.0207	0.0133
Ca 370.602	2.474	7.242	10.02
Cd 226.502	0.1183	-0.0288u	-0.0052u
Co 228.615	0.1382	-0.0594u	-0.3117u
Cr 267.716	0.3267	0.4218	0.4976
Cu 324.754	0.0568	0.1134	-0.2555u
Fe 271.441	13.5473	3.5705	8.1802
K 766.491	0.8767	1.3429	1.0893
Mg 279.078	2.4095	1.1542	1.0650
Mn 257.610	0.3078	0.3149	0.3016
Mo 202.032	0.1006	0.3544	0.3900
Na 330.237	154.401	-109.756u	103.034
Ni 231.604	-0.3637u	0.4594	0.9136
Pb 220.353	-1.6892u	-2.6598u	-1.0388u
Sb 206.834	1.6470	4.5743	0.4376
Se 196.026	1.6215	-1.8288u	6.5641
Sn 189.925	1.6205	4.0288	-0.3467u
Sr 216.596	0.4922	0.0130	0.3772
Ti 334.941	0.1270	0.0829	0.1303
Tl 190.794	1.0671	2.4824	-2.5518u
V 292.401	0.2835	0.3695	0.2256
Zn 206.200	1.7576	-0.1982u	1.4201

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0330	ppb	0.1642	497.1	-14.1251
Al 308.215	3.3296	ppb	0.6779	20.4	500.973
As 188.980	-0.5186	ppb	2.0473	394.8	-6.9981
B 249.678	0.9006	ppb	0.1865	20.7	99.7876
Ba 389.178	0.3550	ppb	0.5578	157.1	-35.8312
Be 313.042	0.0167	ppb	0.0037	22.3	-407.215
Ca 370.602	6.577	ppb	3.815	58.0	37.72
Cd 226.502	0.0281	ppb	0.0790	281.3	26.8649
Co 228.615	-0.0776	ppb	0.2255	290.5	-8.8155

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.4154	ppb	0.0856	20.6	55.2321
Cu 324.754	-0.0284	ppb	0.1987	699.1	451.025
Fe 271.441	8.4327	ppb	4.9932	59.2	15.2307
K 766.491	1.1030	ppb	0.2334	21.2	346.845
Mg 279.078	1.5429	ppb	0.7518	48.7	28.1222
Mn 257.610	0.3081	ppb	0.0066	2.2	133.016
Mo 202.032	0.2817	ppb	0.1578	56.0	6.8780
Na 330.237	49.2261	ppb	140.058	284.5	32.5264
Ni 231.604	0.3365	ppb	0.6475	192.4	-2.9298
Pb 220.353	-1.7959	ppb	0.8158	45.4	7.3763
Sb 206.834	2.2197	ppb	2.1270	95.8	5.7949
Se 196.026	2.1189	ppb	4.2185	199.1	-0.5238
Sn 189.925	1.7675	ppb	2.1915	124.0	-4.9719
Sr 216.596	0.2941	ppb	0.2502	85.1	4.6167
Ti 334.941	0.1134	ppb	0.0265	23.3	28.7690
Tl 190.794	0.3325	ppb	2.5963	780.7	-8.5755
V 292.401	0.2929	ppb	0.0724	24.7	-6.1747
Zn 206.200	0.9932	ppb	1.0454	105.3	1.5721

Iics 680-375250/2-a (Samp)

3/20/2015, 12:05:14 PM

Rack 1, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.8249	10.5618	10.4159
Al 308.215	217.413	218.005	218.391
As 188.980	24.3076	21.8145	20.5927
B 249.678	102.356	102.905	102.883
Ba 389.178	10.5914	10.3778	11.1130
Be 313.042	4.3481	4.3550	4.3322
Ca 370.602	552.6	551.3	549.6
Cd 226.502	5.3361	5.3532	5.2330
Co 228.615	10.3184	10.6072	10.5811
Cr 267.716	11.4156	11.1924	11.2345
Cu 324.754	22.0522	22.5024	21.9005
Fe 271.441	66.3061	61.6357	59.7436
K 766.491	1176.74	1176.82	1176.20
Mg 279.078	533.529	534.039	532.967
Mn 257.610	11.4420	11.3766	11.3729
Mo 202.032	9.8625	10.7637	10.2927
Na 330.237	1024.49	1149.36	1065.15
Ni 231.604	44.6578	44.2259	44.4686
Pb 220.353	9.4546	11.5967	10.7513
Sb 206.834	20.0300	22.0239	20.7832
Se 196.026	21.2170	14.4921	18.8915
Sn 189.925	56.2821	49.7752	52.0505
Sr 216.596	10.3937	10.3759	10.4704
Ti 334.941	10.5802	10.6454	10.6194
Tl 190.794	27.4476	28.7090	27.4639
V 292.401	10.7989	10.8371	10.4890
Zn 206.200	22.7235	23.3146	22.7976

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.6009	ppb	0.2073	2.0	935.582
Al 308.215	217.936	ppb	0.4924	0.2	2057.96

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	22.2383	ppb	1.8934	8.5	9.8235
B 249.678	102.715	ppb	0.3110	0.3	1928.12
Ba 389.178	10.6941	ppb	0.3782	3.5	200.656
Be 313.042	4.3451	ppb	0.0117	0.3	7950.35
Ca 370.602	551.2	ppb	1.520	0.3	1874
Cd 226.502	5.3074	ppb	0.0650	1.2	263.811
Co 228.615	10.5022	ppb	0.1597	1.5	110.061
Cr 267.716	11.2808	ppb	0.1186	1.1	641.280
Cu 324.754	22.1517	ppb	0.3131	1.4	2198.13
Fe 271.441	62.5618	ppb	3.3778	5.4	102.071
K 766.491	1176.58	ppb	0.3390	0.0	55843.0
Mg 279.078	533.512	ppb	0.5362	0.1	1572.80
Mn 257.610	11.3972	ppb	0.0389	0.3	2644.32
Mo 202.032	10.3063	ppb	0.4508	4.4	71.2378
Na 330.237	1079.67	ppb	63.6886	5.9	84.8289
Ni 231.604	44.4508	ppb	0.2165	0.5	135.170
Pb 220.353	10.6008	ppb	1.0789	10.2	26.9038
Sb 206.834	20.9457	ppb	1.0069	4.8	32.6639
Se 196.026	18.2002	ppb	3.4153	18.8	6.6069
Sn 189.925	52.7026	ppb	3.3021	6.3	32.5829
Sr 216.596	10.4133	ppb	0.0502	0.5	124.406
Ti 334.941	10.6150	ppb	0.0328	0.3	3115.08
Tl 190.794	27.8735	ppb	0.7236	2.6	21.7662
V 292.401	10.7083	ppb	0.1909	1.8	286.077
Zn 206.200	22.9452	ppb	0.3220	1.4	24.7912

ics 680-375250/4-a (Samp)

3/20/2015, 12:09:58 PM

Rack 1, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.3257	22.6132	22.3076
Al 308.215	2073.26	2078.43	2071.80
As 188.980	40.8259	43.2836	44.5510
B 249.678	83.8212	83.6951	84.0976
Ba 389.178	41.9136	41.1431	41.6573
Be 313.042	21.3590	21.3747	21.2616
Ca 370.602	2186	2187	2180
Cd 226.502	21.3211	21.5967	21.5208
Co 228.615	22.3312	21.9895	21.3365
Cr 267.716	43.8994	43.7422	43.7352
Cu 324.754	43.3742	43.6801	42.9634
Fe 271.441	2124.87	2133.49	2127.85
K 766.491	2342.10	2339.52	2333.04
Mg 279.078	2115.03	2125.54	2118.30
Mn 257.610	222.476	222.903	222.024
Mo 202.032	41.1140	41.9014	41.1840
Na 330.237	2235.47	2135.95	2205.26
Ni 231.604	42.6201	43.2525	42.3452
Pb 220.353	210.021	213.755	210.588
Sb 206.834	18.0235	25.1558	25.6047
Se 196.026	30.9523	32.6596	44.6447
Sn 189.925	82.9346	85.7656	84.1280
Sr 216.596	41.2433	41.7422	41.6287
Ti 334.941	42.6732	42.8999	42.5408

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	14.6401	17.5502	19.8363
V 292.401	42.9347	43.3222	42.9151
Zn 206.200	41.8812	45.6863	44.2946

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.4155	ppb	0.1715	0.8	1997.38
Al 308.215	2074.50	ppb	3.4825	0.2	15518.5
As 188.980	42.8868	ppb	1.8940	4.4	25.0651
B 249.678	83.8713	ppb	0.2059	0.2	1584.65
Ba 389.178	41.5713	ppb	0.3924	0.9	908.394
Be 313.042	21.3318	ppb	0.0613	0.3	40750.6
Ca 370.602	2184	ppb	4.063	0.2	7366
Cd 226.502	21.4795	ppb	0.1424	0.7	1000.42
Co 228.615	21.8857	ppb	0.5054	2.3	238.049
Cr 267.716	43.7922	ppb	0.0928	0.2	2396.57
Cu 324.754	43.3392	ppb	0.3596	0.8	3868.56
Fe 271.441	2128.73	ppb	4.3796	0.2	3368.43
K 766.491	2338.22	ppb	4.6694	0.2	110685
Mg 279.078	2119.62	ppb	5.3821	0.3	6173.95
Mn 257.610	222.467	ppb	0.4395	0.2	50379.5
Mo 202.032	41.3998	ppb	0.4358	1.1	270.780
Na 330.237	2192.23	ppb	51.0245	2.3	140.822
Ni 231.604	42.7393	ppb	0.4652	1.1	129.962
Pb 220.353	211.455	ppb	2.0122	1.0	343.601
Sb 206.834	22.9280	ppb	4.2534	18.6	35.4471
Se 196.026	36.0855	ppb	7.4614	20.7	14.5991
Sn 189.925	84.2761	ppb	1.4213	1.7	55.8624
Sr 216.596	41.5381	ppb	0.2615	0.6	499.072
Ti 334.941	42.7046	ppb	0.1816	0.4	12546.3
Tl 190.794	17.3422	ppb	2.6043	15.0	9.9280
V 292.401	43.0573	ppb	0.2296	0.5	1193.13
Zn 206.200	43.9540	ppb	1.9252	4.4	47.0383

680-110708-ag-1-a (Samp)

3/20/2015, 12:14:41 PM

Rack 1, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2983	0.4267	-0.0246u
Al 308.215	7.3557	5.2233	7.6517
As 188.980	3.7180	5.5310	4.3523
B 249.678	3.9920	3.5370	3.9469
Ba 389.178	2.0562	1.0665	0.7344
Be 313.042	0.0020	0.0072	0.0075
Ca 370.602	10956	10758	10917
Cd 226.502	-0.0619u	0.0614	-0.0062u
Co 228.615	0.4498	0.1705	0.3770
Cr 267.716	1.0107	0.8272	0.9270
Cu 324.754	3.9539	3.4533	3.8256
Fe 271.441	37.3276	40.1312	31.4728
K 766.491	1184.96	1168.09	1187.66
Mg 279.078	2843.41	2788.46	2827.13
Mn 257.610	3.6189	3.5114	3.5559
Mo 202.032	-0.3812u	0.4253	0.3267
Na 330.237	1445.70	1486.18	1406.38

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	2.1422	2.3627	2.2372
Pb 220.353	-1.2545u	-0.2097u	-1.2230u
Sb 206.834	1.7989	-3.2885u	-2.4349u
Se 196.026	6.7779	-5.9634u	2.1722
Sn 189.925	0.8459	0.1207	-3.4440u
Sr 216.596	16.1822	15.8048	16.2551
Ti 334.941	0.2122	0.2176	0.2772
Tl 190.794	0.2064	1.1629	-0.5759u
V 292.401	0.6135	0.2659	0.4565
Zn 206.200	21.1999	20.8401	19.9466

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2335	ppb	0.2325	99.6	3.2550
Al 308.215	6.7436	ppb	1.3249	19.6	525.744
As 188.980	4.5338	ppb	0.9200	20.3	-3.2629
B 249.678	3.8253	ppb	0.2507	6.6	152.175
Ba 389.178	1.2857	ppb	0.6876	53.5	-8.6930
Be 313.042	0.0056	ppb	0.0031	55.3	-425.166
Ca 370.602	10877	ppb	105.2	1.0	36595
Cd 226.502	-0.0022	ppb	0.0618	2778.2	25.7088
Co 228.615	0.3324	ppb	0.1449	43.6	-4.1918
Cr 267.716	0.9216	ppb	0.0919	10.0	82.5969
Cu 324.754	3.7443	ppb	0.2600	6.9	748.149
Fe 271.441	36.3106	ppb	4.4179	12.2	59.3471
K 766.491	1180.24	ppb	10.6052	0.9	56015.4
Mg 279.078	2819.67	ppb	28.2273	1.0	8212.77
Mn 257.610	3.5621	ppb	0.0540	1.5	891.304
Mo 202.032	0.1236	ppb	0.4399	355.9	5.8617
Na 330.237	1446.09	ppb	39.8989	2.8	103.557
Ni 231.604	2.2473	ppb	0.1106	4.9	3.0543
Pb 220.353	-0.8958	ppb	0.5943	66.4	8.7981
Sb 206.834	-1.3082	ppb	2.7245	208.3	0.7388
Se 196.026	0.9955	ppb	6.4516	648.0	-1.0207
Sn 189.925	-0.8258	ppb	2.2962	278.1	-6.8835
Sr 216.596	16.0807	ppb	0.2417	1.5	197.142
Ti 334.941	0.2356	ppb	0.0361	15.3	69.5707
Tl 190.794	0.2645	ppb	0.8708	329.3	-8.6509
V 292.401	0.4453	ppb	0.1741	39.1	-1.8357
Zn 206.200	20.6622	ppb	0.6453	3.1	22.3938

680-110708-ag-1-b ms (Samp) 3/20/2015, 12:19:25 PM

Rack 1, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.7551	22.2608	22.7562
Al 308.215	2088.45	2075.03	2080.15
As 188.980	45.7999	45.0507	46.9056
B 249.678	85.7899	85.5772	86.1982
Ba 389.178	42.8030	43.4039	42.5868
Be 313.042	21.3673	21.2283	21.2372
Ca 370.602	12974	12924	12937
Cd 226.502	21.4471	21.0781	21.4478
Co 228.615	21.0621	21.7903	21.2050
Cr 267.716	45.1304	44.7481	44.7547

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	47.7659	47.1045	46.8871
Fe 271.441	2178.96	2167.91	2166.22
K 766.491	3496.55	3464.25	3485.06
Mg 279.078	4890.10	4858.12	4876.31
Mn 257.610	226.276	224.668	225.346
Mo 202.032	41.6727	41.6166	41.8373
Na 330.237	3754.27	3878.23	3686.57
Ni 231.604	45.4425	45.0420	45.2772
Pb 220.353	211.741	210.876	206.203
Sb 206.834	24.3740	19.5769	21.5082
Se 196.026	43.3684	41.1218	43.7649
Sn 189.925	86.9501	80.6462	82.4618
Sr 216.596	57.2515	56.7333	57.2579
Ti 334.941	42.8638	42.4740	42.6254
Tl 190.794	15.3635	18.3053	17.5593
V 292.401	43.8359	42.9965	43.3411
Zn 206.200	65.9311	65.3926	64.4119

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.5907	ppb	0.2857	1.3	2012.49
Al 308.215	2081.21	ppb	6.7695	0.3	15567.2
As 188.980	45.9187	ppb	0.9331	2.0	27.3063
B 249.678	85.8551	ppb	0.3156	0.4	1620.15
Ba 389.178	42.9313	ppb	0.4234	1.0	945.183
Be 313.042	21.2776	ppb	0.0778	0.4	40649.5
Ca 370.602	12945	ppb	26.11	0.2	43554
Cd 226.502	21.3244	ppb	0.2133	1.0	993.739
Co 228.615	21.3524	ppb	0.3858	1.8	232.052
Cr 267.716	44.8777	ppb	0.2189	0.5	2455.18
Cu 324.754	47.2525	ppb	0.4577	1.0	4176.78
Fe 271.441	2171.03	ppb	6.9190	0.3	3435.22
K 766.491	3481.96	ppb	16.3746	0.5	164683
Mg 279.078	4874.85	ppb	16.0389	0.3	14175.9
Mn 257.610	225.430	ppb	0.8069	0.4	51071.5
Mo 202.032	41.7089	ppb	0.1147	0.3	272.762
Na 330.237	3773.03	ppb	97.1975	2.6	221.229
Ni 231.604	45.2539	ppb	0.2013	0.4	137.840
Pb 220.353	209.607	ppb	2.9793	1.4	340.692
Sb 206.834	21.8197	ppb	2.4136	11.1	33.8638
Se 196.026	42.7517	ppb	1.4254	3.3	17.5547
Sn 189.925	83.3527	ppb	3.2450	3.9	55.1820
Sr 216.596	57.0809	ppb	0.3010	0.5	688.632
Ti 334.941	42.6544	ppb	0.1965	0.5	12536.3
Tl 190.794	17.0760	ppb	1.5293	9.0	9.6278
V 292.401	43.3911	ppb	0.4219	1.0	1202.47
Zn 206.200	65.2452	ppb	0.7703	1.2	69.5766

680-110708-ag-1-c ms (Samp) 3/20/2015, 12:24:09 PM Rack 1, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.2458	22.2738	21.2765
Al 308.215	2014.15	2011.14	1966.54
As 188.980	43.7621	40.1952	38.6766

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	83.0230	83.5076	82.0914
Ba 389.178	41.4805	41.1753	40.6844
Be 313.042	20.6101	20.5355	20.1382
Ca 370.602	12821	12759	12459
Cd 226.502	20.5866	20.4824	20.1458
Co 228.615	20.4489	20.2587	19.9873
Cr 267.716	43.3004	43.1415	42.3330
Cu 324.754	45.7500	45.7692	44.4899
Fe 271.441	2102.79	2103.59	2048.19
K 766.491	3421.67	3410.51	3347.15
Mg 279.078	4802.72	4773.12	4676.53
Mn 257.610	218.169	217.269	212.927
Mo 202.032	39.9088	39.8212	39.0038
Na 330.237	3532.85	3493.44	3463.57
Ni 231.604	45.1882	43.4582	42.6055
Pb 220.353	202.086	203.584	198.047
Sb 206.834	21.5979	16.4323	22.1414
Se 196.026	41.5820	40.8914	41.5891
Sn 189.925	80.0152	85.2835	83.4651
Sr 216.596	55.1585	55.6465	54.2088
Ti 334.941	41.3822	41.2423	40.4315
Tl 190.794	14.2906	10.8846	17.5642
V 292.401	42.1792	41.8850	41.2895
Zn 206.200	58.5819	60.0042	60.1039

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.9320	ppb	0.5679	2.6	1953.32
Al 308.215	1997.27	ppb	26.6619	1.3	14958.6
As 188.980	40.8780	ppb	2.6106	6.4	23.5807
B 249.678	82.8740	ppb	0.7198	0.9	1566.82
Ba 389.178	41.1134	ppb	0.4017	1.0	903.475
Be 313.042	20.4280	ppb	0.2537	1.2	39008.9
Ca 370.602	12680	ppb	193.6	1.5	42662
Cd 226.502	20.4049	ppb	0.2304	1.1	952.020
Co 228.615	20.2316	ppb	0.2320	1.1	219.465
Cr 267.716	42.9250	ppb	0.5188	1.2	2349.78
Cu 324.754	45.3364	ppb	0.7331	1.6	4025.76
Fe 271.441	2084.85	ppb	31.7569	1.5	3298.91
K 766.491	3393.11	ppb	40.1917	1.2	160488
Mg 279.078	4750.79	ppb	65.9874	1.4	13815.9
Mn 257.610	216.122	ppb	2.8028	1.3	48965.9
Mo 202.032	39.5779	ppb	0.4991	1.3	259.084
Na 330.237	3496.62	ppb	34.7490	1.0	207.207
Ni 231.604	43.7506	ppb	1.3160	3.0	133.128
Pb 220.353	201.239	ppb	2.8639	1.4	327.499
Sb 206.834	20.0572	ppb	3.1510	15.7	31.3427
Se 196.026	41.3542	ppb	0.4008	1.0	16.9325
Sn 189.925	82.9212	ppb	2.6760	3.2	54.8638
Sr 216.596	55.0046	ppb	0.7311	1.3	663.686
Ti 334.941	41.0187	ppb	0.5133	1.3	12055.5
Tl 190.794	14.2465	ppb	3.3400	23.4	6.5222
V 292.401	41.7846	ppb	0.4532	1.1	1157.55
Zn 206.200	59.5634	ppb	0.8514	1.4	63.5625

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

640-50751-c-1-a (Samp) **3/20/2015, 12:28:54 PM** **Rack 1, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0407	0.1804	0.0789
Al 308.215	223.277	219.051	221.360
As 188.980	0.0486	0.7526	2.9233
B 249.678	10.0669	10.2504	10.1634
Ba 389.178	11.1346	11.3823	11.4814
Be 313.042	0.0103	0.0174	0.0080
Ca 370.602	516.4	505.2	514.9
Cd 226.502	0.0505	0.0033	-0.1351u
Co 228.615	0.0033	0.5368	0.2911
Cr 267.716	0.5889	0.8457	0.6957
Cu 324.754	-0.2424u	-0.0117u	-0.2239u
Fe 271.441	243.292	237.743	244.051
K 766.491	913.624	895.147	908.645
Mg 279.078	328.693	320.797	327.382
Mn 257.610	1.8710	1.8107	1.8658
Mo 202.032	0.2865	0.4127	0.1277
Na 330.237	3481.62	3492.67	3463.13
Ni 231.604	0.8970	1.0288	0.7505
Pb 220.353	-0.3902u	1.7268	-0.8038u
Sb 206.834	1.5147	-0.4766u	-0.4953u
Se 196.026	-5.7627u	1.4476	4.0349
Sn 189.925	-1.4184u	1.5330	3.3890
Sr 216.596	9.5596	9.5905	9.7603
Ti 334.941	0.6684	0.7625	0.6376
Tl 190.794	-0.8391u	-2.1016u	-1.0550u
V 292.401	0.3054	0.3245	0.3700
Zn 206.200	-0.1814u	1.9342	1.8502

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1000	ppb	0.0722	72.2	-8.4850
Al 308.215	221.229	ppb	2.1159	1.0	2080.18
As 188.980	1.2415	ppb	1.4984	120.7	-5.6985
B 249.678	10.1602	ppb	0.0918	0.9	265.437
Ba 389.178	11.3328	ppb	0.1786	1.6	214.818
Be 313.042	0.0119	ppb	0.0049	41.3	-416.784
Ca 370.602	512.2	ppb	6.052	1.2	1736
Cd 226.502	-0.0271	ppb	0.0965	355.6	25.7108
Co 228.615	0.2771	ppb	0.2670	96.4	-4.7999
Cr 267.716	0.7101	ppb	0.1290	18.2	71.3193
Cu 324.754	-0.1594	ppb	0.1282	80.4	440.823
Fe 271.441	241.695	ppb	3.4439	1.4	383.847
K 766.491	905.805	ppb	9.5601	1.1	43059.1
Mg 279.078	325.624	ppb	4.2313	1.3	969.234
Mn 257.610	1.8492	ppb	0.0334	1.8	484.702
Mo 202.032	0.2756	ppb	0.1428	51.8	6.8287
Na 330.237	3479.14	ppb	14.9222	0.4	207.494
Ni 231.604	0.8921	ppb	0.1392	15.6	-1.1705
Pb 220.353	0.1776	ppb	1.3575	764.3	10.4997
Sb 206.834	0.1809	ppb	1.1551	638.4	2.8753
Se 196.026	-0.0934	ppb	5.0773	5436.0	-1.5020
Sn 189.925	1.1679	ppb	2.4244	207.6	-5.4129
Sr 216.596	9.6368	ppb	0.1081	1.1	116.664

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.6895	ppb	0.0651	9.4	198.373
Tl 190.794	-1.3319	ppb	0.6752	50.7	-10.4441
V 292.401	0.3333	ppb	0.0332	10.0	-5.1667
Zn 206.200	1.2010	ppb	1.1979	99.7	1.7995

640-50751-c-2-a (Samp) **3/20/2015, 12:33:39 PM** **Rack 1, Tube 10**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0673u	-0.0727u	-0.2415u
Al 308.215	196.379	196.850	202.671
As 188.980	2.0752	2.2167	6.5968
B 249.678	13.3206	12.8107	13.9371
Ba 389.178	64.0443	62.7609	65.2185
Be 313.042	0.0550	0.0599	0.0555
Ca 370.602	72390	72267	74065
Cd 226.502	-0.2700	-0.2043	-0.2407
Co 228.615	0.0439	0.1887	-0.6588u
Cr 267.716	2.5255	2.4978	2.8207
Cu 324.754	0.2426	-0.3286u	0.4876
Fe 271.441	8565.47	8566.64	8783.66
K 766.491	1315.52	1316.30	1343.76
Mg 279.078	2519.38	2514.88	2590.32
Mn 257.610	284.886	285.285	292.532
Mo 202.032	0.0860	-0.1668u	0.0617
Na 330.237	6775.44	6845.56	6869.11
Ni 231.604	2.6626	3.3861	2.4062
Pb 220.353	-0.6811u	-3.6082u	-1.9932u
Sb 206.834	-0.8513u	-2.6854u	-2.1611u
Se 196.026	-0.8239u	4.5837	-3.5550u
Sn 189.925	3.7687	1.8700	0.6962
Sr 216.596	364.873	365.532	376.182
Ti 334.941	0.8687	0.8721	0.9539
Tl 190.794	3.0256	-3.1253u	-2.3712u
V 292.401	1.8206	1.8490	2.0854
Zn 206.200	2.2622	2.5909	2.5036

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0823	ppb	0.1546	187.9	-38.0076
Al 308.215	198.633	ppb	3.5045	1.8	1917.60
As 188.980	3.6296	ppb	2.5707	70.8	-3.9938
B 249.678	13.3561	ppb	0.5640	4.2	301.899
Ba 389.178	64.0079	ppb	1.2292	1.9	1424.58
Be 313.042	0.0568	ppb	0.0027	4.8	-304.787
Ca 370.602	72907	ppb	1004	1.4	245115
Cd 226.502	-0.2383	ppb	0.0329	13.8	63.9909
Co 228.615	-0.1420	ppb	0.4533	319.2	-8.9338
Cr 267.716	2.6147	ppb	0.1790	6.8	179.488
Cu 324.754	0.1339	ppb	0.4188	312.8	467.776
Fe 271.441	8638.59	ppb	125.635	1.5	13651.8
K 766.491	1325.19	ppb	16.0854	1.2	62859.0
Mg 279.078	2541.53	ppb	42.3164	1.7	7398.61
Mn 257.610	287.568	ppb	4.3041	1.5	65121.1
Mo 202.032	-0.0064	ppb	0.1395	2185.3	4.6452

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	6830.04	ppb	48.7280	0.7	376.360
Ni 231.604	2.8183	ppb	0.5082	18.0	5.5851
Pb 220.353	-2.0942	ppb	1.4662	70.0	7.5396
Sb 206.834	-1.8993	ppb	0.9447	49.7	0.0754
Se 196.026	0.0683	ppb	4.1421	6068.8	-1.2938
Sn 189.925	2.1116	ppb	1.5504	73.4	-4.7161
Sr 216.596	368.862	ppb	6.3481	1.7	4444.03
Ti 334.941	0.8982	ppb	0.0482	5.4	264.360
Tl 190.794	-0.8237	ppb	3.3548	407.3	-11.0528
V 292.401	1.9183	ppb	0.1454	7.6	36.4192
Zn 206.200	2.4522	ppb	0.1703	6.9	3.4086

640-50751-c-3-a (Samp)

3/20/2015, 12:38:25 PM

Rack 1, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6143u	-0.9121u	-0.3741u
Al 308.215	89946.9	89996.9	89891.1
As 188.980	2.8655	8.0670	-0.6103u
B 249.678	48.1463	48.5659	48.0144
Ba 389.178	6.5714	6.4770	6.0030
Be 313.042	0.8635	0.8652	0.8703
Ca 370.602	189777	191031	190240
Cd 226.502	-0.1331	0.0091	-0.0955
Co 228.615	1.4238	1.7366	2.2236
Cr 267.716	3.2682	3.4557	3.5691
Cu 324.754	-0.2593u	-0.8446u	-0.0351u
Fe 271.441	3488.24	3491.99	3482.23
K 766.491	1573.25	1572.23	1571.26
Mg 279.078	23919.1	23944.1	23868.5
Mn 257.610	42.9734	43.2142	42.9357
Mo 202.032	0.2243	0.1901	0.5665
Na 330.237	11589.6	11520.6	11630.4
Ni 231.604	24.0452	22.8891	23.8220
Pb 220.353	-0.1726u	-0.8627u	0.8561
Sb 206.834	2.1379	4.0008	1.0589
Se 196.026	-9.4797u	0.7558	-3.2305u
Sn 189.925	-1.2328u	0.7741	2.8982
Sr 216.596	343.770	343.029	340.561
Ti 334.941	0.0504	0.0724	0.0506
Tl 190.794	-0.6306u	0.9116	-3.6729u
V 292.401	1.0804	0.7558	0.7934
Zn 206.200	35.0694	36.8500	36.3006

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6335	ppb	0.2695	42.5	-87.1972
Al 308.215	89945.0	ppb	52.9021	0.1	652329
As 188.980	3.4407	ppb	4.3672	126.9	-4.0961
B 249.678	48.2422	ppb	0.2880	0.6	941.209
Ba 389.178	6.3505	ppb	0.3046	4.8	153.563
Be 313.042	0.8663	ppb	0.0035	0.4	1308.02
Ca 370.602	190349	ppb	634.1	0.3	640141
Cd 226.502	-0.0732	ppb	0.0737	100.7	42.3791
Co 228.615	1.7947	ppb	0.4030	22.5	12.4747

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	3.4310	ppb	0.1520	4.4	220.945
Cu 324.754	-0.3797	ppb	0.4179	110.1	424.968
Fe 271.441	3487.49	ppb	4.9242	0.1	5512.75
K 766.491	1572.25	ppb	0.9950	0.1	74522.8
Mg 279.078	23910.6	ppb	38.5244	0.2	69430.6
Mn 257.610	43.0411	ppb	0.1511	0.4	9996.74
Mo 202.032	0.3270	ppb	0.2081	63.6	7.0144
Na 330.237	11580.2	ppb	55.4666	0.5	619.654
Ni 231.604	23.5854	ppb	0.6132	2.6	70.1958
Pb 220.353	-0.0597	ppb	0.8649	1448.0	9.1173
Sb 206.834	2.3992	ppb	1.4882	62.0	6.1565
Se 196.026	-3.9848	ppb	5.1593	129.5	-3.1892
Sn 189.925	0.8131	ppb	2.0658	254.0	-5.6720
Sr 216.596	342.453	ppb	1.6802	0.5	4164.50
Ti 334.941	0.0578	ppb	0.0127	21.9	58.8253
Tl 190.794	-1.1306	ppb	2.3328	206.3	-10.7039
V 292.401	0.8765	ppb	0.1775	20.3	8.4079
Zn 206.200	36.0733	ppb	0.9118	2.5	38.8214

640-50751-c-4-a (Samp)

3/20/2015, 12:43:10 PM

Rack 1, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.0966u	-2.8629u	-2.8161u
Al 308.215	371939	371446	372362
As 188.980	15.3923	13.5755	9.3384
B 249.678	18.7437	18.5014	18.2930
Ba 389.178	8.5926	8.5764	9.3878
Be 313.042	4.9737	4.9642	4.9874
Ca 370.602	64702	64651	64807
Cd 226.502	0.3589	0.5533	0.3318
Co 228.615	-0.6867u	-0.6505u	-0.3321u
Cr 267.716	4.9670	4.9204	4.8602
Cu 324.754	0.0273	-0.3691u	-0.3318u
Fe 271.441	19196.2	19093.7	19194.1
K 766.491	2447.63	2442.92	2450.15
Mg 279.078	13617.6	13595.0	13628.7
Mn 257.610	102.983	102.888	103.011
Mo 202.032	1.4616	1.6417	1.1211
Na 330.237	11230.7	11252.3	11198.6
Ni 231.604	3.4582	3.3592	3.4307
Pb 220.353	1.6547u	0.1856u	-1.4728u
Sb 206.834	1.3036	5.3177	2.5814
Se 196.026	-7.0478u	-10.4993u	0.0853
Sn 189.925	-3.3353u	-3.0707u	-5.7729u
Sr 216.596	399.675	397.878	397.792
Ti 334.941	0.3884	0.3768	0.4168
Tl 190.794	-0.3865u	-1.7346u	0.5317u
V 292.401	8.4059	8.8429	8.6352
Zn 206.200	65.6829	65.0457	65.3073

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.9252	ppb	0.1503	5.1	-295.470
Al 308.215	371916	ppb	458.374	0.1	2695837

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	12.7687	ppb	3.1066	24.3	2.6863
B 249.678	18.5127	ppb	0.2256	1.2	368.412
Ba 389.178	8.8523	ppb	0.4638	5.2	201.064
Be 313.042	4.9751	ppb	0.0117	0.2	9224.86
Ca 370.602	64720	ppb	79.60	0.1	217446
Cd 226.502	0.4146	ppb	0.1208	29.1	153.197
Co 228.615	-0.5565	ppb	0.1951	35.1	-12.9275
Cr 267.716	4.9159	ppb	0.0535	1.1	311.735
Cu 324.754	-0.2245	ppb	0.2189	97.5	444.390
Fe 271.441	19161.3	ppb	58.5627	0.3	30278.9
K 766.491	2446.90	ppb	3.6714	0.2	115817
Mg 279.078	13613.8	ppb	17.1877	0.1	39411.2
Mn 257.610	102.960	ppb	0.0645	0.1	23507.6
Mo 202.032	1.4081	ppb	0.2644	18.8	13.2567
Na 330.237	11227.2	ppb	27.0254	0.2	597.346
Ni 231.604	3.4160	ppb	0.0511	1.5	8.5245
Pb 220.353	0.1225	ppb	1.5647	1277.3	6.5823
Sb 206.834	3.0676	ppb	2.0507	66.9	7.4120
Se 196.026	-5.8206	ppb	5.3979	92.7	-3.8530
Sn 189.925	-4.0596	ppb	1.4896	36.7	-9.2649
Sr 216.596	398.449	ppb	1.0630	0.3	4807.93
Ti 334.941	0.3940	ppb	0.0206	5.2	155.527
Tl 190.794	-0.5298	ppb	1.1399	215.2	-12.4696
V 292.401	8.6280	ppb	0.2186	2.5	219.302
Zn 206.200	65.3453	ppb	0.3203	0.5	70.3438

Cont Calib Verif (CCV)

3/20/2015, 12:47:54 PM

Rack 1, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	508.302	495.655	500.490
Al 308.215	4982.89	4892.70	4906.42
As 188.980	500.359	495.535	496.371
B 249.678	501.077	491.807	495.907
Ba 389.178	5050.31	4951.15	4970.77
Be 313.042	508.149	497.800	498.996
Ca 370.602	5158	5062	5067
Cd 226.502	510.398	499.602	500.533
Co 228.615	513.903	504.132	503.924
Cr 267.716	5185.37	5089.65	5096.83
Cu 324.754	5249.72	5138.14	5156.77
Fe 271.441	5075.18	4982.37	4979.36
K 766.491	10780.0	10574.2	10625.5
Mg 279.078	5071.01	4978.21	4989.23
Mn 257.610	5138.36	5038.40	5052.84
Mo 202.032	504.626	493.722	496.189
Na 330.237	7723.05	7458.71	7392.02
Ni 231.604	2550.49	2518.57	2524.38
Pb 220.353	513.905	497.790	504.067
Sb 206.834	1006.17	995.968	994.384
Se 196.026	5096.07	5021.39	5032.03
Sn 189.925	5056.61	4965.32	4960.51
Sr 216.596	2514.54	2449.90	2451.49
Ti 334.941	502.888	494.027	495.093

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	5155.79	5069.48	5065.06
V 292.401	5058.07	4966.65	4964.48
Zn 206.200	2561.67	2493.27	2505.54

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.482	ppb	6.3819	1.3	45014.7	100.29646
Al 308.215	4927.34	ppb	48.6000	1.0	36911.7	98.54671
As 188.980	497.422	ppb	2.5777	0.5	360.959	99.48431
B 249.678	496.264	ppb	4.6452	0.9	8998.06	99.25272
Ba 389.178	4990.74	ppb	52.5149	1.1	113539	99.81487
Be 313.042	501.648	ppb	5.6615	1.1	968502	100.32966
Ca 370.602	5096	ppb	54.06	1.1	17554	101.91933
Cd 226.502	503.511	ppb	5.9824	1.2	22622.2	100.70213
Co 228.615	507.320	ppb	5.7023	1.1	5700.53	101.46394
Cr 267.716	5123.95	ppb	53.3132	1.0	276391	102.47894
Cu 324.754	5181.54	ppb	59.7748	1.2	408473	103.63087
Fe 271.441	5012.30	ppb	54.4708	1.1	8022.89	100.24605
K 766.491	10659.9	ppb	107.140	1.0	503563	106.59890
Mg 279.078	5012.82	ppb	50.6989	1.0	14468.4	100.25636
Mn 257.610	5076.54	ppb	54.0292	1.1	1147760	101.53073
Mo 202.032	498.179	ppb	5.7180	1.1	3198.77	99.63581
Na 330.237	7524.59	ppb	175.074	2.3	382.507	100.32790
Ni 231.604	2531.15	ppb	17.0003	0.7	7920.15	101.24587
Pb 220.353	505.254	ppb	8.1225	1.6	810.896	101.05078
Sb 206.834	998.840	ppb	6.3946	0.6	1495.99	99.88399
Se 196.026	5049.83	ppb	40.3989	0.8	2237.94	100.99664
Sn 189.925	4994.15	ppb	54.1504	1.1	3675.91	99.88294
Sr 216.596	2471.98	ppb	36.8693	1.5	29455.5	98.87923
Ti 334.941	497.336	ppb	4.8377	1.0	146125	99.46725
Tl 190.794	5096.78	ppb	51.1530	1.0	5614.29	101.93551
V 292.401	4996.40	ppb	53.4156	1.1	141070	99.92799
Zn 206.200	2520.16	ppb	36.4701	1.4	2658.50	100.80649

Cont Calib Blank (CCB)

3/20/2015, 12:52:37 PM

Rack 1, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0656	0.2293	0.4609
Al 308.215	2.4706	0.8806	2.4038
As 188.980	0.8602	0.1546	1.0625
B 249.678	4.0276	3.8090	3.0594
Ba 389.178	-0.1405u	1.1382	0.2302
Be 313.042	0.0379	0.0459	0.0472
Ca 370.602	7.054	5.885	6.834
Cd 226.502	-0.0300u	-0.0044u	0.1149
Co 228.615	0.2461	0.4989	-0.1435u
Cr 267.716	0.5902	0.3773	0.5569
Cu 324.754	0.0069	0.2829	0.1040
Fe 271.441	9.8871	6.4036	10.9574
K 766.491	1.6689	0.8621	1.1311
Mg 279.078	3.2872	2.3660	2.1743
Mn 257.610	0.5936	0.6143	0.6284
Mo 202.032	0.1361	0.6763	0.1593
Na 330.237	209.576	76.7166	155.453

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	0.7513	0.6230	1.6995
Pb 220.353	-0.7905u	0.1957	-0.1370u
Sb 206.834	1.9012	0.2584	4.2133
Se 196.026	2.7107	-0.8874u	0.6848
Sn 189.925	1.8942	1.5460	1.9782
Sr 216.596	0.1214	0.4165	-0.2333u
Ti 334.941	0.1938	0.1677	0.1174
Tl 190.794	-0.2742u	0.2605	1.0060
V 292.401	0.4875	0.7099	0.5455
Zn 206.200	1.0412	0.7352	0.1089

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2519	ppb	0.1986	78.8	5.5620	0.25193
Al 308.215	1.9183	ppb	0.8993	46.9	490.786	1.91832
As 188.980	0.6924	ppb	0.4766	68.8	-6.1028	0.69244
B 249.678	3.6320	ppb	0.5078	14.0	148.837	3.63198
Ba 389.178	0.4093	ppb	0.6579	160.7	-34.5963	0.40933
Be 313.042	0.0437	ppb	0.0050	11.5	-355.167	0.04369
Ca 370.602	6.591	ppb	0.6213	9.4	37.85	6.59129
Cd 226.502	0.0268	ppb	0.0773	288.5	26.7923	0.02680
Co 228.615	0.2005	ppb	0.3236	161.4	-5.6879	0.20050
Cr 267.716	0.5081	ppb	0.1145	22.5	60.2364	0.50814
Cu 324.754	0.1313	ppb	0.1400	106.7	463.595	0.13127
Fe 271.441	9.0827	ppb	2.3811	26.2	16.2941	9.08270
K 766.491	1.2207	ppb	0.4108	33.7	352.402	1.22068
Mg 279.078	2.6092	ppb	0.5950	22.8	31.2128	2.60917
Mn 257.610	0.6121	ppb	0.0175	2.9	201.727	0.61210
Mo 202.032	0.3239	ppb	0.3054	94.3	7.1490	0.32389
Na 330.237	147.249	ppb	66.8088	45.4	37.5327	147.24883
Ni 231.604	1.0246	ppb	0.5880	57.4	-0.7763	1.02459
Pb 220.353	-0.2439	ppb	0.5017	205.7	9.8224	-0.24393
Sb 206.834	2.1243	ppb	1.9869	93.5	5.6598	2.12429
Se 196.026	0.8360	ppb	1.8038	215.8	-1.0924	0.83602
Sn 189.925	1.8061	ppb	0.2292	12.7	-4.9433	1.80614
Sr 216.596	0.1015	ppb	0.3254	320.4	2.2878	0.10155
Ti 334.941	0.1596	ppb	0.0388	24.3	42.3384	0.15964
Tl 190.794	0.3307	ppb	0.6430	194.4	-8.5756	0.33074
V 292.401	0.5810	ppb	0.1154	19.9	1.9770	0.58099
Zn 206.200	0.6284	ppb	0.4752	75.6	1.1856	0.62842

640-50751-c-5-a (Samp)

3/20/2015, 12:57:19 PM

Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0496u	0.1137	-0.2682u
Al 308.215	35901.3	35902.6	35957.9
As 188.980	2.9354	2.1304	-0.0265u
B 249.678	21.5308	21.0160	21.5015
Ba 389.178	27.9405	28.3720	28.3118
Be 313.042	0.5570	0.5534	0.5485
Ca 370.602	3164	3152	3154
Cd 226.502	0.0215	0.1107	0.1077
Co 228.615	0.2256	0.3981	0.1954
Cr 267.716	1.0879	1.2813	1.2466

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	0.4243	0.3179	0.5035
Fe 271.441	1530.34	1523.10	1524.45
K 766.491	821.270	819.514	822.442
Mg 279.078	2792.17	2795.29	2803.77
Mn 257.610	6.6997	6.7353	6.7841
Mo 202.032	0.4330	0.0036u	0.6031
Na 330.237	4564.01	4665.49	4631.69
Ni 231.604	3.1702	3.2766	4.3774
Pb 220.353	0.4268	-0.0335u	-2.2041u
Sb 206.834	-0.5728u	1.9856	-0.4923u
Se 196.026	-2.0553u	-4.5787u	5.6011
Sn 189.925	1.4368	-0.5133u	-1.5637u
Sr 216.596	89.4537	90.1927	90.3046
Ti 334.941	0.1828	0.1810	0.1376
Tl 190.794	1.1475	0.1871u	-2.0064u
V 292.401	0.4472	0.2330	0.6465
Zn 206.200	6.3565	6.9444	7.3928

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0680	ppb	0.1916	281.7	-26.5290
Al 308.215	35920.6	ppb	32.3146	0.1	260802
As 188.980	1.6798	ppb	1.5315	91.2	-5.3839
B 249.678	21.3494	ppb	0.2891	1.4	463.162
Ba 389.178	28.2081	ppb	0.2337	0.8	604.984
Be 313.042	0.5530	ppb	0.0043	0.8	632.165
Ca 370.602	3157	ppb	6.731	0.2	10614
Cd 226.502	0.0800	ppb	0.0507	63.4	37.8334
Co 228.615	0.2730	ppb	0.1094	40.1	-4.7687
Cr 267.716	1.2053	ppb	0.1031	8.6	99.0668
Cu 324.754	0.4152	ppb	0.0931	22.4	486.670
Fe 271.441	1525.97	ppb	3.8511	0.3	2413.14
K 766.491	821.075	ppb	1.4733	0.2	39058.9
Mg 279.078	2797.08	ppb	6.0037	0.2	8132.70
Mn 257.610	6.7397	ppb	0.0424	0.6	1613.94
Mo 202.032	0.3466	ppb	0.3090	89.2	7.2277
Na 330.237	4620.40	ppb	51.6709	1.1	265.336
Ni 231.604	3.6081	ppb	0.6684	18.5	7.4590
Pb 220.353	-0.6036	ppb	1.4051	232.8	8.8633
Sb 206.834	0.3068	ppb	1.4544	474.0	3.0863
Se 196.026	-0.3443	ppb	5.3012	1539.6	-1.6009
Sn 189.925	-0.2134	ppb	1.5226	713.5	-6.4310
Sr 216.596	89.9837	ppb	0.4624	0.5	1078.74
Ti 334.941	0.1671	ppb	0.0256	15.3	51.1514
Tl 190.794	-0.2240	ppb	1.6166	721.8	-9.4223
V 292.401	0.4422	ppb	0.2068	46.8	-2.8436
Zn 206.200	6.8979	ppb	0.5197	7.5	7.8733

640-50751-c-6-a (Samp)

3/20/2015, 1:02:02 PM

Rack 1, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7049u	-2.0714u	-1.6511u
Al 308.215	630661	630025	628425
As 188.980	7.4746	13.6670	18.1756

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	59.5665	60.0580	60.1622
Ba 389.178	8.9108	8.9742	9.8601
Be 313.042	3.1413	3.1379	3.1230
Ca 370.602	365905	365079	364579
Cd 226.502	1.4353	1.4886	1.5200
Co 228.615	8.4802	9.1239	8.9233
Cr 267.716	4.4659	4.3933	4.6197
Cu 324.754	-0.2938u	-0.3050u	-0.7784u
Fe 271.441	11808.3	11771.4	11722.3
K 766.491	2885.32	2880.28	2889.83
Mg 279.078	22590.8	22530.6	22449.1
Mn 257.610	138.730	138.169	137.624
Mo 202.032	0.7654	2.4121	0.7418
Na 330.237	20630.9	20519.7	20727.9
Ni 231.604	54.2061	53.3819	53.2223
Pb 220.353	1.5612u	-5.1084u	1.9922u
Sb 206.834	3.5884	5.6308	8.8490
Se 196.026	1.7518	-7.8415u	-3.0815u
Sn 189.925	-7.7662u	-6.5874u	1.6450
Sr 216.596	595.223	591.988	590.431
Ti 334.941	0.4707	0.5079	0.5706
Tl 190.794	-4.2934u	-1.3195u	0.7636u
V 292.401	2.6059	2.6550	2.8886
Zn 206.200	168.405	171.106	169.695

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8091	ppb	0.2287	12.6	-200.121
Al 308.215	629704	ppb	1152.45	0.2	4564081
As 188.980	13.1057	ppb	5.3726	41.0	2.9892
B 249.678	59.9289	ppb	0.3181	0.5	1130.53
Ba 389.178	9.2484	ppb	0.5307	5.7	222.958
Be 313.042	3.1340	ppb	0.0097	0.3	5800.77
Ca 370.602	365188	ppb	670.0	0.2	1228045
Cd 226.502	1.4813	ppb	0.0428	2.9	159.017
Co 228.615	8.8425	ppb	0.3294	3.7	92.2468
Cr 267.716	4.4930	ppb	0.1156	2.6	288.583
Cu 324.754	-0.4591	ppb	0.2766	60.2	422.572
Fe 271.441	11767.3	ppb	43.1726	0.4	18596.6
K 766.491	2885.14	ppb	4.7806	0.2	136507
Mg 279.078	22523.5	ppb	71.1187	0.3	65184.0
Mn 257.610	138.174	ppb	0.5531	0.4	31519.7
Mo 202.032	1.3064	ppb	0.9576	73.3	12.9367
Na 330.237	20626.2	ppb	104.196	0.5	1077.58
Ni 231.604	53.6035	ppb	0.5280	1.0	165.111
Pb 220.353	-0.5183	ppb	3.9809	768.0	1.5327
Sb 206.834	6.0228	ppb	2.6521	44.0	11.5121
Se 196.026	-3.0570	ppb	4.7967	156.9	-2.6847
Sn 189.925	-4.2362	ppb	5.1273	121.0	-9.3922
Sr 216.596	592.547	ppb	2.4445	0.4	7225.32
Ti 334.941	0.5164	ppb	0.0505	9.8	218.727
Tl 190.794	-1.6164	ppb	2.5415	157.2	-12.4698
V 292.401	2.7165	ppb	0.1511	5.6	53.0882
Zn 206.200	169.735	ppb	1.3511	0.8	180.598

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

640-50751-c-7-a (Samp) 3/20/2015, 1:06:45 PM Rack 1, Tube 17

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0186	-0.2567u	0.1841
Al 308.215	1121.75	1097.02	1075.69
As 188.980	1.7375	0.2541	1.8433
B 249.678	16.5171	16.2153	16.0194
Ba 389.178	3.4885	4.0365	2.7547
Be 313.042	0.0146	0.0164	0.0238
Ca 370.602	642.6	632.4	618.0
Cd 226.502	0.0760	-0.2002u	0.0216
Co 228.615	0.1530	-0.1711u	0.5364
Cr 267.716	0.7810	0.9012	0.7328
Cu 324.754	0.0050	-0.1294u	0.5059
Fe 271.441	135.324	135.416	138.928
K 766.491	246.138	242.194	242.198
Mg 279.078	1155.16	1135.91	1141.40
Mn 257.610	1.1916	1.1523	1.1997
Mo 202.032	-0.0620u	0.1648	0.1235
Na 330.237	4369.89	4368.82	4332.99
Ni 231.604	0.0027	2.1482	0.9133
Pb 220.353	-2.1761u	1.2389	0.8612
Sb 206.834	-0.8494u	2.9754	2.6097
Se 196.026	-0.5998u	-1.5850u	-5.4994u
Sn 189.925	1.7458	-0.6799u	-1.5008u
Sr 216.596	6.2727	6.6241	6.2842
Ti 334.941	1.5434	1.5717	1.4903
Tl 190.794	-3.1504u	-0.0383u	-0.9177u
V 292.401	0.8566	1.0722	0.8883
Zn 206.200	4.1018	4.2288	4.4432

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0180	ppb	0.2227	1237.5	-18.9643
Al 308.215	1098.16	ppb	23.0507	2.1	8435.53
As 188.980	1.2783	ppb	0.8886	69.5	-5.6705
B 249.678	16.2506	ppb	0.2507	1.5	375.077
Ba 389.178	3.4266	ppb	0.6432	18.8	36.5679
Be 313.042	0.0182	ppb	0.0049	26.9	-404.448
Ca 370.602	631.0	ppb	12.35	2.0	2137
Cd 226.502	-0.0342	ppb	0.1463	427.9	24.8069
Co 228.615	0.1728	ppb	0.3541	205.0	-5.9553
Cr 267.716	0.8050	ppb	0.0867	10.8	76.4066
Cu 324.754	0.1272	ppb	0.3348	263.2	463.322
Fe 271.441	136.556	ppb	2.0552	1.5	217.698
K 766.491	243.510	ppb	2.2759	0.9	11791.2
Mg 279.078	1144.16	ppb	9.9167	0.9	3346.17
Mn 257.610	1.1812	ppb	0.0254	2.1	339.882
Mo 202.032	0.0755	ppb	0.1208	160.1	5.5474
Na 330.237	4357.23	ppb	21.0033	0.5	252.287
Ni 231.604	1.0214	ppb	1.0768	105.4	-0.7738
Pb 220.353	-0.0254	ppb	1.8722	7385.0	10.1606
Sb 206.834	1.5785	ppb	2.1106	133.7	4.8841
Se 196.026	-2.5614	ppb	2.5916	101.2	-2.5969
Sn 189.925	-0.1450	ppb	1.6882	1164.5	-6.3806
Sr 216.596	6.3937	ppb	0.1996	3.1	77.8427

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1.5351	ppb	0.0414	2.7	448.242
Tl 190.794	-1.3688	ppb	1.6043	117.2	-10.4674
V 292.401	0.9390	ppb	0.1164	12.4	12.0680
Zn 206.200	4.2580	ppb	0.1726	4.1	5.0320

640-50751-c-8-a (Samp) **3/20/2015, 1:11:29 PM** **Rack 1, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.7663u	-1.8107u	-1.5651u
Al 308.215	992934x	990870x	991909x
As 188.980	6.9734	21.4711	14.1655
B 249.678	56.4410	56.1728	56.7633
Ba 389.178	8.2541	7.6234	7.5655
Be 313.042	3.1468	3.1401	3.1411
Ca 370.602	513688	510369	508585
Cd 226.502	2.3972	2.6482	2.5559
Co 228.615	9.8513	9.7400	9.7122
Cr 267.716	3.6480	3.8893	3.7348
Cu 324.754	-0.4547u	-0.5496u	-0.2437u
Fe 271.441	21695.4	21613.5	21570.1
K 766.491	3536.63	3538.57	3549.11
Mg 279.078	47039.8	46891.7	46937.6
Mn 257.610	260.554	259.651	259.346
Mo 202.032	1.1724	0.9109	2.2583
Na 330.237	16350.3	16229.2	16516.1
Ni 231.604	73.2955	73.1717	73.5526
Pb 220.353	-3.3206u	-4.7971u	0.4301u
Sb 206.834	17.0543	14.0999	4.1169
Se 196.026	-8.4359u	2.4918	-4.8740u
Sn 189.925	-6.3465u	3.0083	-7.0729u
Sr 216.596	596.851	595.967	592.803
Ti 334.941	1.3029	1.3418	1.4055
Tl 190.794	-10.1662u	-2.9096u	-12.7172u
V 292.401	2.6880	2.9427	2.6903
Zn 206.200	101.785	101.345	100.982

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7140b	ppb	0.1308	7.6	-191.548
Al 308.215	991904xb	ppb	1031.82	0.1	7189033
As 188.980	14.2033b	ppb	7.2489	51.0	3.7291
B 249.678	56.4590b	ppb	0.2956	0.5	1043.82
Ba 389.178	7.8143b	ppb	0.3819	4.9	249.389
Be 313.042	3.1427b	ppb	0.0036	0.1	5904.08
Ca 370.602	510881b	ppb	2590	0.5	1717910
Cd 226.502	2.5338b	ppb	0.1270	5.0	262.611
Co 228.615	9.7678b	ppb	0.0736	0.8	103.321
Cr 267.716	3.7574b	ppb	0.1222	3.3	258.006
Cu 324.754	-0.4160b	ppb	0.1566	37.6	430.548
Fe 271.441	21626.3b	ppb	63.6336	0.3	34175.0
K 766.491	3541.44b	ppb	6.7152	0.2	167491
Mg 279.078	46956.4b	ppb	75.8362	0.2	135997
Mn 257.610	259.850b	ppb	0.6281	0.2	59253.4
Mo 202.032	1.4472b	ppb	0.7145	49.4	13.4049

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	16365.2b	ppb	144.026	0.9	858.465
Ni 231.604	73.3399b	ppb	0.1943	0.3	227.908
Pb 220.353	-2.5625b	ppb	2.6948	105.2	-5.9984
Sb 206.834	11.7570b	ppb	6.7794	57.7	19.9170
Se 196.026	-3.6061b	ppb	5.5731	154.5	-2.8150
Sn 189.925	-3.4704b	ppb	5.6224	162.0	-8.8289
Sr 216.596	595.207b	ppb	2.1287	0.4	7323.04
Ti 334.941	1.3501b	ppb	0.0518	3.8	526.835
Tl 190.794	-8.5977b	ppb	5.0884	59.2	-21.6399
V 292.401	2.7737b	ppb	0.1464	5.3	48.6406
Zn 206.200	101.371b	ppb	0.4021	0.4	108.567

640-50751-c-9-a (Samp)

3/20/2015, 1:16:13 PM

Rack 1, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.0615u	-1.8804u	-1.8322u
Al 308.215	1030455x	1029888x	1030850x
As 188.980	14.0591	12.1448	14.6617
B 249.678	57.0543	56.7954	56.9848
Ba 389.178	5.6276	7.3032	6.2333
Be 313.042	2.9975	3.0082	3.0090
Ca 370.602	505025	508523	507984
Cd 226.502	2.6306	2.7251	2.5836
Co 228.615	11.5814	12.9912	12.3065
Cr 267.716	1.9035	1.7605	1.9408
Cu 324.754	-0.3424u	0.2801	-0.1493u
Fe 271.441	12184.2	12200.9	12210.0
K 766.491	4260.31	4262.57	4256.18
Mg 279.078	45912.6	45862.7	45884.1
Mn 257.610	275.113	275.540	275.403
Mo 202.032	1.4680	1.1454	1.4239
Na 330.237	17285.0	17478.6	17208.2
Ni 231.604	74.8907	74.1322	77.4600
Pb 220.353	-2.3686u	-0.7008u	-0.3990u
Sb 206.834	16.9966	3.5872	14.5819
Se 196.026	5.3846	10.4395	1.9419
Sn 189.925	-8.1705u	-4.8814u	-4.2575u
Sr 216.596	610.253	611.115	610.930
Ti 334.941	3.6184	3.6310	3.6325
Tl 190.794	-12.4746u	-8.5742u	-12.9259u
V 292.401	2.2794	1.8805	1.8608
Zn 206.200	105.490	104.314	107.935

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.9247b	ppb	0.1209	6.3	-208.998
Al 308.215	1030397xb	ppb	483.581	0.0	7467999
As 188.980	13.6219b	ppb	1.3142	9.6	3.3676
B 249.678	56.9448b	ppb	0.1340	0.2	1075.94
Ba 389.178	6.3880b	ppb	0.8484	13.3	207.311
Be 313.042	3.0049b	ppb	0.0064	0.2	5640.94
Ca 370.602	507177b	ppb	1883	0.4	1705571
Cd 226.502	2.6464b	ppb	0.0721	2.7	214.141
Co 228.615	12.2930b	ppb	0.7050	5.7	131.133

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	1.8683b	ppb	0.0952	5.1	152.149
Cu 324.754	-0.0705b	ppb	0.3186	451.7	453.385
Fe 271.441	12198.4b	ppb	13.0614	0.1	19278.1
K 766.491	4259.69b	ppb	3.2360	0.1	201401
Mg 279.078	45886.5b	ppb	25.0266	0.1	132874
Mn 257.610	275.352b	ppb	0.2180	0.1	62720.1
Mo 202.032	1.3458b	ppb	0.1749	13.0	13.1703
Na 330.237	17323.9b	ppb	139.384	0.8	909.718
Ni 231.604	75.4943b	ppb	1.7441	2.3	233.853
Pb 220.353	-1.1562b	ppb	1.0608	91.8	-4.9422
Sb 206.834	11.7219b	ppb	7.1476	61.0	19.6711
Se 196.026	5.9220b	ppb	4.2742	72.2	1.3295
Sn 189.925	-5.7698b	ppb	2.1023	36.4	-10.5240
Sr 216.596	610.766b	ppb	0.4542	0.1	7495.57
Ti 334.941	3.6273b	ppb	0.0077	0.2	1194.77
Tl 190.794	-11.3249b	ppb	2.3929	21.1	-23.1524
V 292.401	2.0069b	ppb	0.2362	11.8	30.4435
Zn 206.200	105.913b	ppb	1.8471	1.7	113.056

640-50751-c-10-a (Samp) 3/20/2015, 1:20:57 PM Rack 1, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2065u	-1.0869u	-1.1705u
Al 308.215	677449	676848	677787
As 188.980	13.2848	17.8347	6.8537
B 249.678	64.5885	64.3876	64.2836
Ba 389.178	9.8671	10.1782	8.1888
Be 313.042	2.2664	2.2548	2.2566
Ca 370.602	531769	533858	531921
Cd 226.502	1.3508	1.3882	1.5682
Co 228.615	10.4819	10.4454	10.2789
Cr 267.716	85.6762	85.6256	85.8045
Cu 324.754	-0.2196u	-0.7059u	-0.5819u
Fe 271.441	13457.5	13442.4	13434.0
K 766.491	3823.49	3823.23	3820.62
Mg 279.078	39377.0	39287.8	39301.4
Mn 257.610	206.604	206.555	205.962
Mo 202.032	1.0678	-0.1969u	0.6817
Na 330.237	18046.3	18158.6	18061.7
Ni 231.604	75.9352	75.7753	77.6521
Pb 220.353	-0.6348u	-4.0301u	-2.0701u
Sb 206.834	6.9925	4.2932	11.0156
Se 196.026	-20.5863u	4.0979	5.5182
Sn 189.925	-0.0356u	-13.3922u	-0.0066
Sr 216.596	658.463	657.036	655.554
Ti 334.941	0.4473	0.4587	0.4559
Tl 190.794	-0.6463u	-0.8523u	-7.5337u
V 292.401	3.9690	4.3094	3.9747
Zn 206.200	90.3420	85.4737	87.0985

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1546	ppb	0.0614	5.3	-144.088
Al 308.215	677361	ppb	475.418	0.1	4909469

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	12.6577	ppb	5.5173	43.6	2.6460
B 249.678	64.4199	ppb	0.1550	0.2	1207.05
Ba 389.178	9.4114	ppb	1.0701	11.4	263.352
Be 313.042	2.2593	ppb	0.0063	0.3	4176.23
Ca 370.602	532516	ppb	1164	0.2	1790770
Cd 226.502	1.4357	ppb	0.1162	8.1	166.811
Co 228.615	10.4021	ppb	0.1082	1.0	110.095
Cr 267.716	85.7021	ppb	0.0922	0.1	4670.64
Cu 324.754	-0.5025	ppb	0.2527	50.3	419.883
Fe 271.441	13444.6	ppb	11.8816	0.1	21247.3
K 766.491	3822.45	ppb	1.5869	0.0	180758
Mg 279.078	39322.1	ppb	48.0553	0.1	113952
Mn 257.610	206.374	ppb	0.3571	0.2	47078.6
Mo 202.032	0.5175	ppb	0.6481	125.2	7.7950
Na 330.237	18088.9	ppb	60.9079	0.3	948.660
Ni 231.604	76.4542	ppb	1.0405	1.4	236.817
Pb 220.353	-2.2450	ppb	1.7044	75.9	-1.6526
Sb 206.834	7.4338	ppb	3.3828	45.5	14.6243
Se 196.026	-3.6567	ppb	14.6786	401.4	-2.9206
Sn 189.925	-4.4781	ppb	7.7198	172.4	-9.5714
Sr 216.596	657.018	ppb	1.4549	0.2	8058.70
Ti 334.941	0.4540	ppb	0.0059	1.3	233.006
Tl 190.794	-3.0108	ppb	3.9183	130.1	-14.2252
V 292.401	4.0843	ppb	0.1949	4.8	87.4343
Zn 206.200	87.6381	ppb	2.4786	2.8	93.5883

640-50751-c-11-a (Samp)

3/20/2015, 1:25:41 PM

Rack 1, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.8527u	-1.6515u	-1.5397u
Al 308.215	476826	476050	475605
As 188.980	7.7084	12.1135	6.4205
B 249.678	45.3219	45.4594	44.9034
Ba 389.178	14.1142	14.0264	13.7957
Be 313.042	3.6744	3.6736	3.6726
Ca 370.602	284838	283862	283528
Cd 226.502	0.7489	0.9335	0.9313
Co 228.615	2.0665	1.3747	2.3269
Cr 267.716	26.3734	26.4146	26.6646
Cu 324.754	-0.1605u	-0.4270u	-0.2757u
Fe 271.441	16028.0	16002.0	15991.4
K 766.491	2585.78	2581.02	2576.76
Mg 279.078	19320.9	19298.9	19273.9
Mn 257.610	135.802	135.614	135.392
Mo 202.032	0.0323u	0.3880	0.8251
Na 330.237	16804.5	16619.8	16682.4
Ni 231.604	33.8178	36.3793	34.5488
Pb 220.353	-0.9112u	1.6186u	-0.3892u
Sb 206.834	-3.5030u	-4.0121u	-0.1761
Se 196.026	13.8684	5.2448	0.2833
Sn 189.925	3.3484	-0.9906u	1.6316
Sr 216.596	677.334	674.895	672.317
Ti 334.941	1.1962	1.1671	1.1116

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-3.1134u	-4.1652u	-4.3187u
V 292.401	5.0456	5.0694	5.0388
Zn 206.200	73.4320	70.7885	70.3153

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6813	ppb	0.1586	9.4	-193.016
Al 308.215	476160	ppb	617.815	0.1	3451319
As 188.980	8.7475	ppb	2.9853	34.1	-0.2637
B 249.678	45.2282	ppb	0.2896	0.6	855.850
Ba 389.178	13.9788	ppb	0.1645	1.2	327.186
Be 313.042	3.6735	ppb	0.0009	0.0	6799.56
Ca 370.602	284076	ppb	680.6	0.2	955204
Cd 226.502	0.8712	ppb	0.1060	12.2	155.840
Co 228.615	1.9227	ppb	0.4921	25.6	14.8185
Cr 267.716	26.4842	ppb	0.1576	0.6	1475.07
Cu 324.754	-0.2877	ppb	0.1336	46.4	437.969
Fe 271.441	16007.2	ppb	18.8475	0.1	25295.3
K 766.491	2581.19	ppb	4.5116	0.2	122156
Mg 279.078	19297.9	ppb	23.4905	0.1	55877.2
Mn 257.610	135.603	ppb	0.2057	0.2	30925.2
Mo 202.032	0.4151	ppb	0.3971	95.7	7.0226
Na 330.237	16702.3	ppb	93.9234	0.6	877.445
Ni 231.604	34.9153	ppb	1.3195	3.8	106.916
Pb 220.353	0.1061	ppb	1.3356	1259.4	4.9326
Sb 206.834	-2.5637	ppb	2.0834	81.3	-0.4387
Se 196.026	6.4655	ppb	6.8743	106.3	1.5724
Sn 189.925	1.3298	ppb	2.1852	164.3	-5.2896
Sr 216.596	674.848	ppb	2.5091	0.4	8184.57
Ti 334.941	1.1583	ppb	0.0430	3.7	394.658
Tl 190.794	-3.8658	ppb	0.6561	17.0	-15.6290
V 292.401	5.0513	ppb	0.0160	0.3	117.750
Zn 206.200	71.5120	ppb	1.6796	2.3	76.7215

640-50751-c-12-a (Samp)

3/20/2015, 1:30:26 PM

Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3206u	-0.4552u	-0.5564u
Al 308.215	206356	206302	206228
As 188.980	0.7233	5.8673	3.3597
B 249.678	21.5722	21.7737	21.2205
Ba 389.178	18.1052	18.7567	17.6131
Be 313.042	0.7850	0.7903	0.7825
Ca 370.602	385790	383812	384725
Cd 226.502	0.3059	0.5238	0.1310
Co 228.615	1.2086	0.6718	1.0877
Cr 267.716	2.5884	2.3584	2.4537
Cu 324.754	-0.5995u	-0.5588u	-0.8807u
Fe 271.441	3246.08	3236.64	3238.54
K 766.491	474.805	476.040	476.054
Mg 279.078	7913.05	7885.96	7899.70
Mn 257.610	40.2049	40.2288	40.2435
Mo 202.032	0.0622	0.0498	0.2955
Na 330.237	8913.99	9042.29	8792.45

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	12.1869	13.3779	11.5015
Pb 220.353	0.4193u	-1.0271u	0.2337u
Sb 206.834	1.4095	2.1435	1.9670
Se 196.026	-1.1331u	5.5500	0.8771
Sn 189.925	-0.5282u	1.7153	-2.7950u
Sr 216.596	244.836	243.456	245.230
Ti 334.941	0.3190	0.3163	0.3311
Tl 190.794	-2.2050u	-3.3624u	-2.7702u
V 292.401	1.4833	1.2474	1.0602
Zn 206.200	15.0812	14.0358	13.5196

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4441	ppb	0.1183	26.6	-66.2588
Al 308.215	206295	ppb	64.3647	0.0	1495546
As 188.980	3.3168	ppb	2.5722	77.6	-4.1859
B 249.678	21.5222	ppb	0.2800	1.3	462.033
Ba 389.178	18.1584	ppb	0.5736	3.2	388.353
Be 313.042	0.7859	ppb	0.0039	0.5	1235.06
Ca 370.602	384775	ppb	989.8	0.3	1294021
Cd 226.502	0.3202	ppb	0.1968	61.5	58.3835
Co 228.615	0.9894	ppb	0.2816	28.5	3.4108
Cr 267.716	2.4668	ppb	0.1155	4.7	170.001
Cu 324.754	-0.6797	ppb	0.1753	25.8	401.216
Fe 271.441	3240.42	ppb	4.9958	0.2	5122.27
K 766.491	475.633	ppb	0.7173	0.2	22750.1
Mg 279.078	7899.57	ppb	13.5454	0.2	22883.0
Mn 257.610	40.2257	ppb	0.0195	0.0	9234.72
Mo 202.032	0.1359	ppb	0.1384	101.9	5.7978
Na 330.237	8916.24	ppb	124.937	1.4	484.032
Ni 231.604	12.3555	ppb	0.9495	7.7	35.0661
Pb 220.353	-0.1247	ppb	0.7870	631.1	7.3937
Sb 206.834	1.8400	ppb	0.3831	20.8	5.3375
Se 196.026	1.7647	ppb	3.4288	194.3	-0.6437
Sn 189.925	-0.5360	ppb	2.2551	420.8	-6.6675
Sr 216.596	244.508	ppb	0.9312	0.4	3066.55
Ti 334.941	0.3221	ppb	0.0079	2.4	114.221
Tl 190.794	-2.7792	ppb	0.5788	20.8	-12.4838
V 292.401	1.2636	ppb	0.2120	16.8	18.5146
Zn 206.200	14.2122	ppb	0.7956	5.6	15.6725

640-50751-c-13-a (Samp)

3/20/2015, 1:35:11 PM

Rack 1, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0156u	-0.9408u	-0.7717u
Al 308.215	187389	187392	187268
As 188.980	10.0868	10.3135	4.0541
B 249.678	45.4387	45.3186	45.6930
Ba 389.178	13.3524	13.2129	14.6947
Be 313.042	1.3782	1.3763	1.3682
Ca 370.602	277648	278111	277543
Cd 226.502	0.0905	0.2651	0.1039
Co 228.615	6.7839	7.0195	6.7160
Cr 267.716	13.3945	13.4096	13.3249

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	-0.5888u	0.0201	-0.1589u
Fe 271.441	7373.88	7386.24	7393.54
K 766.491	1861.20	1856.14	1861.63
Mg 279.078	25854.0	25874.6	25844.2
Mn 257.610	82.6216	82.6570	82.6663
Mo 202.032	0.6972	0.5307	0.5012
Na 330.237	12596.8	12618.4	12590.2
Ni 231.604	42.4956	43.3929	41.8131
Pb 220.353	-1.2761u	2.6340	-1.5502u
Sb 206.834	1.1645	0.3677	-0.1260
Se 196.026	2.8908	3.9555	-1.7738u
Sn 189.925	-2.0717u	-3.1186u	1.3026
Sr 216.596	421.482	420.239	420.648
Ti 334.941	0.0960	0.0677	0.0630
Tl 190.794	-4.6551u	-1.0654u	-2.4708u
V 292.401	1.1463	0.9740	1.1481
Zn 206.200	61.3060	58.5337	58.2427

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9093	ppb	0.1250	13.7	-115.011
Al 308.215	187349	ppb	70.7777	0.0	1358241
As 188.980	8.1515	ppb	3.5502	43.6	-0.6415
B 249.678	45.4834	ppb	0.1912	0.4	881.979
Ba 389.178	13.7533	ppb	0.8182	5.9	329.171
Be 313.042	1.3742	ppb	0.0053	0.4	2329.14
Ca 370.602	277767	ppb	302.4	0.1	934092
Cd 226.502	0.1532	ppb	0.0971	63.4	74.6280
Co 228.615	6.8398	ppb	0.1593	2.3	69.4675
Cr 267.716	13.3763	ppb	0.0452	0.3	760.509
Cu 324.754	-0.2425	ppb	0.3130	129.0	437.578
Fe 271.441	7384.55	ppb	9.9379	0.1	11671.1
K 766.491	1859.66	ppb	3.0551	0.2	88091.8
Mg 279.078	25857.6	ppb	15.5261	0.1	75045.6
Mn 257.610	82.6483	ppb	0.0236	0.0	18979.5
Mo 202.032	0.5763	ppb	0.1057	18.3	8.4441
Na 330.237	12601.8	ppb	14.7314	0.1	670.525
Ni 231.604	42.5672	ppb	0.7923	1.9	129.992
Pb 220.353	-0.0641	ppb	2.3406	3650.9	8.0447
Sb 206.834	0.4687	ppb	0.6512	138.9	3.5812
Se 196.026	1.6908	ppb	3.0473	180.2	-0.6309
Sn 189.925	-1.2959	ppb	2.3104	178.3	-7.2268
Sr 216.596	420.790	ppb	0.6337	0.2	5136.53
Ti 334.941	0.0756	ppb	0.0179	23.7	72.8554
Tl 190.794	-2.7304	ppb	1.8089	66.2	-13.0419
V 292.401	1.0895	ppb	0.1000	9.2	11.7448
Zn 206.200	59.3608	ppb	1.6909	2.8	63.5873

640-50751-c-14-a (Samp)

3/20/2015, 1:39:56 PM

Rack 1, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2940u	-0.9683u	-1.1683u
Al 308.215	984214x	986765x	984872x
As 188.980	-0.1921u	10.4691	11.2743

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	44.4497	45.0045	45.7635
Ba 389.178	11.2377	11.4147	11.5612
Be 313.042	4.3150	4.3198	4.3130
Ca 370.602	472373	471356	473066
Cd 226.502	2.6915	2.5730	2.7761
Co 228.615	14.3100	14.0373	13.1340
Cr 267.716	484.216	484.709	483.715
Cu 324.754	0.2410	-0.2453	-0.1514
Fe 271.441	48953.8	49045.9	48944.5
K 766.491	2641.54	2641.01	2640.23
Mg 279.078	50445.0	50531.4	50464.7
Mn 257.610	271.456	272.226	271.739
Mo 202.032	2.5120	1.6252	2.6199
Na 330.237	12000.9	12072.9	12002.4
Ni 231.604	169.333	169.118	165.621
Pb 220.353	71.6265	81.3083	78.0230
Sb 206.834	6.1117	6.7135	-1.0473
Se 196.026	26.1664	3.6061	15.0158
Sn 189.925	-7.9148u	-12.9298u	-4.4210u
Sr 216.596	561.235	570.834	563.906
Ti 334.941	5.8125	5.8223	5.8129
Tl 190.794	-0.9207u	-4.0510u	-2.8695u
V 292.401	45.4405	45.5819	44.9427
Zn 206.200	96.9184	105.133	91.7162

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1436b	ppb	0.1643	14.4	-143.966
Al 308.215	985284xb	ppb	1324.49	0.1	7141060
As 188.980	7.1838b	ppb	6.4003	89.1	-1.6599
B 249.678	45.0726b	ppb	0.6595	1.5	771.169
Ba 389.178	11.4045b	ppb	0.1620	1.4	360.014
Be 313.042	4.3159b	ppb	0.0035	0.1	8156.95
Ca 370.602	472265b	ppb	860.2	0.2	1587710
Cd 226.502	2.6802b	ppb	0.1020	3.8	424.761
Co 228.615	13.8271b	ppb	0.6156	4.5	151.921
Cr 267.716	484.214b	ppb	0.4971	0.1	26186.6
Cu 324.754	-0.0519b	ppb	0.2580	497.1	471.307
Fe 271.441	48981.4b	ppb	56.0257	0.1	77400.7
K 766.491	2640.93b	ppb	0.6596	0.0	124977
Mg 279.078	50480.4b	ppb	45.2914	0.1	146234
Mn 257.610	271.807b	ppb	0.3894	0.1	62069.1
Mo 202.032	2.2524b	ppb	0.5458	24.2	17.3236
Na 330.237	12025.4b	ppb	41.1386	0.3	630.205
Ni 231.604	168.024b	ppb	2.0839	1.2	526.706
Pb 220.353	76.9859b	ppb	4.9235	6.4	121.688
Sb 206.834	3.9260b	ppb	4.3175	110.0	15.3498
Se 196.026	14.9294b	ppb	11.2804	75.6	5.6417
Sn 189.925	-8.4219b	ppb	4.2770	50.8	-12.4810
Sr 216.596	565.325b	ppb	4.9541	0.9	6984.73
Ti 334.941	5.8159b	ppb	0.0055	0.1	1848.45
Tl 190.794	-2.6138b	ppb	1.5807	60.5	-19.2602
V 292.401	45.3217b	ppb	0.3358	0.7	1220.07
Zn 206.200	97.9225b	ppb	6.7645	6.9	104.913

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Cont Calib Verif (CCV) 3/20/2015, 1:44:40 PM Rack 1, Tube 25

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	502.456	501.470	502.130
Al 308.215	4979.39	4963.27	4978.14
As 188.980	504.536	489.778	500.798
B 249.678	495.405	496.294	499.308
Ba 389.178	4923.16	4924.11	4936.06
Be 313.042	497.279	497.161	498.780
Ca 370.602	5041	5042	5054
Cd 226.502	499.956	499.620	501.168
Co 228.615	500.503	502.802	503.678
Cr 267.716	5058.35	5057.97	5075.97
Cu 324.754	5229.10	5161.82	5216.44
Fe 271.441	4961.90	4958.07	4983.27
K 766.491	10852.0	10814.5	10862.3
Mg 279.078	4993.29	4980.32	4995.52
Mn 257.610	5047.77	5033.57	5065.23
Mo 202.032	495.100	496.365	496.956
Na 330.237	7650.70	7521.96	7440.21
Ni 231.604	2519.61	2520.61	2522.94
Pb 220.353	496.193	499.995	498.308
Sb 206.834	1006.22	1004.08	1003.15
Se 196.026	5100.70	5087.98	5108.84
Sn 189.925	4965.30	4932.44	4991.33
Sr 216.596	2427.84	2440.67	2445.59
Ti 334.941	493.260	493.055	493.663
Tl 190.794	5081.82	5069.78	5070.50
V 292.401	4962.83	4959.43	4974.58
Zn 206.200	2477.00	2469.70	2470.08

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.019	ppb	0.5027	0.1	45064.1	100.40371
Al 308.215	4973.60	ppb	8.9684	0.2	37242.2	99.47199
As 188.980	498.371	ppb	7.6725	1.5	361.662	99.67419
B 249.678	497.002	ppb	2.0459	0.4	9011.50	99.40044
Ba 389.178	4927.77	ppb	7.1880	0.1	112107	98.55550
Be 313.042	497.740	ppb	0.9024	0.2	960953	99.54799
Ca 370.602	5046	ppb	7.056	0.1	17382	100.91738
Cd 226.502	500.248	ppb	0.8145	0.2	22475.8	100.04962
Co 228.615	502.328	ppb	1.6393	0.3	5644.27	100.46551
Cr 267.716	5064.10	ppb	10.2851	0.2	273163	101.28192
Cu 324.754	5202.46	ppb	35.7590	0.7	410120	104.04910
Fe 271.441	4967.75	ppb	13.5785	0.3	7951.63	99.35494
K 766.491	10843.0	ppb	25.1488	0.2	512206	108.42952
Mg 279.078	4989.71	ppb	8.2102	0.2	14402.0	99.79415
Mn 257.610	5048.86	ppb	15.8603	0.3	1141502	100.97712
Mo 202.032	496.141	ppb	0.9483	0.2	3185.71	99.22814
Na 330.237	7537.62	ppb	106.113	1.4	383.726	100.50163
Ni 231.604	2521.05	ppb	1.7105	0.1	7888.55	100.84204
Pb 220.353	498.165	ppb	1.9053	0.4	799.668	99.63308
Sb 206.834	1004.48	ppb	1.5725	0.2	1503.27	100.44817
Se 196.026	5099.17	ppb	10.5165	0.2	2259.81	101.98344
Sn 189.925	4963.02	ppb	29.5113	0.6	3652.96	99.26039
Sr 216.596	2438.03	ppb	9.1640	0.4	29050.4	97.52123

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	493.326	ppb	0.3092	0.1	144947	98.66515
Tl 190.794	5074.03	ppb	6.7531	0.1	5589.17	101.48061
V 292.401	4965.61	ppb	7.9470	0.2	140202	99.31226
Zn 206.200	2472.26	ppb	4.1090	0.2	2607.91	98.89040

Cont Calib Blank (CCB)

3/20/2015, 1:49:22 PM

Rack 1, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1215u	0.0252	0.3451
Al 308.215	5.8020	5.0017	4.9043
As 188.980	0.8693	0.1478	1.1733
B 249.678	3.9826	3.6776	3.0250
Ba 389.178	0.3843	0.9744	0.3809
Be 313.042	0.0471	0.0360	0.0432
Ca 370.602	10.31	11.65	8.373
Cd 226.502	0.0382	0.0200	0.0907
Co 228.615	0.2177	0.5560	0.0881
Cr 267.716	0.7382	0.5955	0.5805
Cu 324.754	0.4074	0.0536	0.4590
Fe 271.441	9.0817	10.9779	3.4334
K 766.491	0.0263	0.4731	0.2657
Mg 279.078	2.5539	4.7863	4.1454
Mn 257.610	0.5667	0.5777	0.5722
Mo 202.032	0.4886	0.1045	0.6730
Na 330.237	1.2860	118.312	-72.6854u
Ni 231.604	1.1292	0.4265	0.9639
Pb 220.353	1.9782	-0.6399u	-3.1881u
Sb 206.834	1.1081	2.1294	2.7770
Se 196.026	1.4566	-1.3799u	-3.6890u
Sn 189.925	1.5159	1.9578	5.0629
Sr 216.596	0.5514	0.5844	0.5932
Ti 334.941	0.1748	0.1580	0.1321
Tl 190.794	3.2501	-1.7716u	1.0083
V 292.401	0.5825	0.4148	0.6355
Zn 206.200	0.6142	0.1105	1.6559

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0829	ppb	0.2386	287.6	-9.6443	0.08295
Al 308.215	5.2360	ppb	0.4926	9.4	514.834	5.23598
As 188.980	0.7301	ppb	0.5267	72.1	-6.0750	0.73011
B 249.678	3.5617	ppb	0.4892	13.7	147.572	3.56174
Ba 389.178	0.5799	ppb	0.3417	58.9	-30.7089	0.57990
Be 313.042	0.0421	ppb	0.0056	13.4	-358.297	0.04208
Ca 370.602	10.11	ppb	1.647	16.3	49.67	10.10972
Cd 226.502	0.0496	ppb	0.0367	74.0	27.8225	0.04963
Co 228.615	0.2873	ppb	0.2416	84.1	-4.7197	0.28726
Cr 267.716	0.6381	ppb	0.0871	13.6	67.2416	0.63806
Cu 324.754	0.3067	ppb	0.2206	72.0	477.420	0.30665
Fe 271.441	7.8310	ppb	3.9247	50.1	14.3234	7.83100
K 766.491	0.2550	ppb	0.2236	87.7	306.813	0.25503
Mg 279.078	3.8285	ppb	1.1494	30.0	34.7533	3.82850
Mn 257.610	0.5722	ppb	0.0055	1.0	192.725	0.57219
Mo 202.032	0.4220	ppb	0.2900	68.7	7.7793	0.42204

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	15.6377	ppb	96.3043	615.8	30.8149	15.63766
Ni 231.604	0.8399	ppb	0.3674	43.7	-1.3546	0.83990
Pb 220.353	-0.6166	ppb	2.5833	419.0	9.2346	-0.61660
Sb 206.834	2.0049	ppb	0.8414	42.0	5.4848	2.00485
Se 196.026	-1.2041	ppb	2.5773	214.0	-1.9966	-1.20410
Sn 189.925	2.8455	ppb	1.9330	67.9	-4.1770	2.84553
Sr 216.596	0.5763	ppb	0.0220	3.8	7.9572	0.57632
Ti 334.941	0.1549	ppb	0.0215	13.9	40.9714	0.15493
Tl 190.794	0.8289	ppb	2.5157	303.5	-8.0279	0.82893
V 292.401	0.5443	ppb	0.1152	21.2	0.8770	0.54426
Zn 206.200	0.7935	ppb	0.7882	99.3	1.3603	0.79351

640-50751-c-15-a (Samp)

3/20/2015, 1:54:05 PM

Rack 1, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1068u	-1.1715u	-1.1422u
Al 308.215	533275	532919	533358
As 188.980	8.9452	8.9801	8.2070
B 249.678	46.3948	45.4627	45.5784
Ba 389.178	13.7287	12.6288	13.4964
Be 313.042	2.5588	2.5500	2.5494
Ca 370.602	380102	381565	382186
Cd 226.502	0.9517	0.6118	1.0005
Co 228.615	7.4861	7.1986	6.7304
Cr 267.716	124.173	123.975	123.980
Cu 324.754	-0.1375u	0.3171	0.3263
Fe 271.441	18228.1	18209.7	18199.7
K 766.491	2309.71	2311.50	2316.56
Mg 279.078	28735.2	28717.3	28691.7
Mn 257.610	149.173	149.073	149.040
Mo 202.032	1.5715	-0.0555u	0.3848
Na 330.237	13840.2	13925.0	13873.5
Ni 231.604	69.1657	68.3554	67.2563
Pb 220.353	15.3356	16.6903	20.5693
Sb 206.834	6.2148	5.8721	6.2656
Se 196.026	-2.6374u	0.9417	-4.2160u
Sn 189.925	-5.7427u	-5.4129u	-3.2324u
Sr 216.596	524.220	523.881	522.363
Ti 334.941	1.4833	1.4920	1.4862
Tl 190.794	-1.5929u	-1.6066u	-0.2968u
V 292.401	12.2289	11.5666	11.4816
Zn 206.200	66.4721	68.2695	67.9175

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1402	ppb	0.0324	2.8	-139.329
Al 308.215	533184	ppb	233.333	0.0	3864584
As 188.980	8.7108	ppb	0.4367	5.0	-0.3068
B 249.678	45.8120	ppb	0.5080	1.1	861.026
Ba 389.178	13.2846	ppb	0.5797	4.4	333.014
Be 313.042	2.5528	ppb	0.0053	0.2	4675.56
Ca 370.602	381284	ppb	1070	0.3	1282101
Cd 226.502	0.8546	ppb	0.2117	24.8	167.701
Co 228.615	7.1383	ppb	0.3814	5.3	73.8211

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	124.043	ppb	0.1125	0.1	6739.04
Cu 324.754	0.1687	ppb	0.2651	157.2	474.837
Fe 271.441	18212.5	ppb	14.4168	0.1	28780.8
K 766.491	2312.59	ppb	3.5510	0.2	109476
Mg 279.078	28714.7	ppb	21.8681	0.1	83203.7
Mn 257.610	149.095	ppb	0.0695	0.0	34058.7
Mo 202.032	0.6336	ppb	0.8416	132.8	8.3222
Na 330.237	13879.6	ppb	42.7051	0.3	732.922
Ni 231.604	68.2591	ppb	0.9583	1.4	211.515
Pb 220.353	17.5317	ppb	2.7164	15.5	31.8436
Sb 206.834	6.1175	ppb	0.2140	3.5	13.3131
Se 196.026	-1.9706	ppb	2.6428	134.1	-2.1446
Sn 189.925	-4.7960	ppb	1.3641	28.4	-9.8070
Sr 216.596	523.488	ppb	0.9889	0.2	6414.40
Ti 334.941	1.4872	ppb	0.0044	0.3	511.409
Tl 190.794	-1.1654	ppb	0.7523	64.6	-12.9670
V 292.401	11.7591	ppb	0.4091	3.5	301.959
Zn 206.200	67.5531	ppb	0.9525	1.4	72.4148

640-50751-c-16-a (Samp)

3/20/2015, 1:58:49 PM

Rack 1, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0643	0.0024u	0.2078
Al 308.215	3902.84	3902.99	3935.99
As 188.980	-1.9125u	0.2588	3.3527
B 249.678	32.5800	32.2156	32.5507
Ba 389.178	0.1959	0.4656	0.4539
Be 313.042	0.0207	0.0301	0.0281
Ca 370.602	6057	6095	6110
Cd 226.502	0.0090	-0.0945u	0.0996
Co 228.615	-0.0021u	0.2821	-0.3594u
Cr 267.716	1.1980	1.3953	1.4034
Cu 324.754	3.4020	3.9268	4.2342
Fe 271.441	189.179	185.269	187.852
K 766.491	138.135	136.764	138.735
Mg 279.078	408.131	404.976	405.230
Mn 257.610	2.2172	2.2595	2.3085
Mo 202.032	0.4721	-0.0623u	0.0526
Na 330.237	898.385	786.411	965.332
Ni 231.604	1.8259	1.9102	1.8536
Pb 220.353	-0.5105u	0.3773	2.7257
Sb 206.834	0.0423	1.8408	0.6516
Se 196.026	-3.2256u	2.7706	-0.1312u
Sn 189.925	3.7765	0.7760	-4.6092u
Sr 216.596	8.4603	8.9417	8.6978
Ti 334.941	0.0814	0.0823	0.0043
Tl 190.794	-3.5155u	-0.0959u	3.7830
V 292.401	0.0768	0.3125	0.3253
Zn 206.200	20.4326	20.1441	19.3308

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0915	ppb	0.1054	115.1	-9.1918
Al 308.215	3913.94	ppb	19.0919	0.5	28842.1

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.5663	ppb	2.6460	467.2	-6.1973
B 249.678	32.4488	ppb	0.2024	0.6	665.802
Ba 389.178	0.3718	ppb	0.1524	41.0	-34.4582
Be 313.042	0.0263	ppb	0.0049	18.8	-386.316
Ca 370.602	6087	ppb	27.02	0.4	20485
Cd 226.502	0.0047	ppb	0.0971	2066.0	26.8326
Co 228.615	-0.0265	ppb	0.3215	1214.4	-8.2238
Cr 267.716	1.3322	ppb	0.1163	8.7	104.842
Cu 324.754	3.8543	ppb	0.4208	10.9	756.890
Fe 271.441	187.434	ppb	1.9880	1.1	298.092
K 766.491	137.878	ppb	1.0106	0.7	6804.18
Mg 279.078	406.112	ppb	1.7530	0.4	1201.51
Mn 257.610	2.2617	ppb	0.0457	2.0	578.511
Mo 202.032	0.1542	ppb	0.2813	182.5	6.0514
Na 330.237	883.376	ppb	90.3995	10.2	74.8183
Ni 231.604	1.8632	ppb	0.0430	2.3	1.8672
Pb 220.353	0.8641	ppb	1.6721	193.5	11.5282
Sb 206.834	0.8449	ppb	0.9147	108.3	3.8373
Se 196.026	-0.1954	ppb	2.9986	1534.6	-1.5476
Sn 189.925	-0.0189	ppb	4.2490	22492.2	-6.2887
Sr 216.596	8.6999	ppb	0.2407	2.8	107.429
Ti 334.941	0.0560	ppb	0.0447	79.9	12.7712
Tl 190.794	0.0572	ppb	3.6517	6385.0	-8.9050
V 292.401	0.2382	ppb	0.1399	58.7	-7.8443
Zn 206.200	19.9692	ppb	0.5713	2.9	21.6645

680-110702-d-3-a (Samp)

3/20/2015, 2:03:32 PM

Rack 1, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2579u	1.3580u	1.3856u
Al 308.215	27.4360	28.5195	26.4243
As 188.980	-1.8918u	2.4585	3.3020
B 249.678	574.047	574.325	577.633
Ba 389.178	30.5690	31.5450	31.3894
Be 313.042	0.0662u	0.0681u	0.0681u
Ca 370.602	189016	189360	188536
Cd 226.502	0.3084	0.3953	0.3554
Co 228.615	-0.5502u	-0.5956u	-0.7019u
Cr 267.716	-1.1094u	-0.9928u	-0.7997
Cu 324.754	0.8602	0.8128	1.0130
Fe 271.441	398.938	399.409	402.347
K 766.491	95751.7x	95758.6x	95545.2x
Mg 279.078	206746	206198	206477
Mn 257.610	8.0709	8.0194	8.0695
Mo 202.032	0.9564	1.0727	1.1661
Na 330.237	2356739x	2354342x	2354648x
Ni 231.604	3.8935	2.7632	4.3597
Pb 220.353	3.0879	1.0277	0.8379
Sb 206.834	3.0487	3.6127	1.1555
Se 196.026	-7.4964u	14.6884	11.5268
Sn 189.925	-2.4288u	-0.1388	1.0451
Sr 216.596	17408.7x	17328.6x	17394.9x
Ti 334.941	-0.6405u	-0.6462u	-0.6426u

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-3.7898u	-6.0414u	-0.1228u
V 292.401	1.2408	1.4548	1.0750
Zn 206.200	3.8535	7.7019	5.8495

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.3339b	ppb	0.0672	5.0	-525.159
Al 308.215	27.4599b	ppb	1.0478	3.8	676.029
As 188.980	1.2896b	ppb	2.7872	216.1	-5.6645
B 249.678	575.335b	ppb	1.9951	0.3	10413.7
Ba 389.178	31.1678b	ppb	0.5244	1.7	1100.78
Be 313.042	0.0674b	ppb	0.0011	1.6	-518.427
Ca 370.602	188971b	ppb	413.8	0.2	635541
Cd 226.502	0.3530b	ppb	0.0435	12.3	31.9291
Co 228.615	-0.6159b	ppb	0.0779	12.6	-14.7986
Cr 267.716	-0.9673b	ppb	0.1564	16.2	25.4073
Cu 324.754	0.8953b	ppb	0.1046	11.7	523.987
Fe 271.441	400.231b	ppb	1.8471	0.5	634.257
K 766.491	95685.2xb	ppb	121.260	0.1	4517730
Mg 279.078	206474b	ppb	273.701	0.1	599688
Mn 257.610	8.0533b	ppb	0.0293	0.4	3520.78
Mo 202.032	1.0650b	ppb	0.1050	9.9	11.8897
Na 330.237	2355243xb	ppb	1304.46	0.1	120217
Ni 231.604	3.6721b	ppb	0.8210	22.4	7.5507
Pb 220.353	1.6512b	ppb	1.2478	75.6	12.8380
Sb 206.834	2.6056b	ppb	1.2871	49.4	6.3344
Se 196.026	6.2396b	ppb	12.0003	192.3	1.3095
Sn 189.925	-0.5075b	ppb	1.7661	348.0	-5.9485
Sr 216.596	17377.4xb	ppb	42.8342	0.2	207593
Ti 334.941	-0.6431b	ppb	0.0029	0.5	-8.7906
Tl 190.794	-3.3180b	ppb	2.9874	90.0	-12.6556
V 292.401	1.2568b	ppb	0.1904	15.2	5.2122
Zn 206.200	5.8016b	ppb	1.9247	33.2	6.6773

680-110739-p-1-a (Samp)

3/20/2015, 2:08:15 PM

Rack 1, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0368	0.0183	0.0861
Al 308.215	7.8971	8.3927	10.3378
As 188.980	-1.8010u	-0.0258u	-1.8467u
B 249.678	139.173	140.235	139.665
Ba 389.178	0.4233	0.9731	0.2568
Be 313.042	0.0142	0.0107u	0.0142
Ca 370.602	134.1	141.3	140.3
Cd 226.502	-0.0560u	-0.0063u	0.0259u
Co 228.615	0.5158	-0.1053u	0.4324
Cr 267.716	-0.0470	0.1547	0.1720
Cu 324.754	2.6139	2.5776	2.6961
Fe 271.441	13.3599	13.7646	7.5086
K 766.491	280.743	279.816	281.485
Mg 279.078	48.5134	49.7916	46.6921
Mn 257.610	0.7127	0.7249	0.6949
Mo 202.032	1.2295	1.1790	1.0284
Na 330.237	195800x	195931x	196192x

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	0.1984	1.4748	0.3454
Pb 220.353	0.1952	-0.1049u	-0.7037u
Sb 206.834	2.3929	0.4650	-1.8170u
Se 196.026	3.2012	1.7789	-1.7975u
Sn 189.925	3.7880	1.7408	1.3874
Sr 216.596	4.2419	3.4310	3.2383
Ti 334.941	-0.0021u	-0.0017u	0.0078u
Tl 190.794	-0.0466u	-0.4629u	-4.1399u
V 292.401	0.5068	0.2900	0.3798
Zn 206.200	7.8894	6.8814	5.8398

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0471b	ppb	0.0350	74.4	-12.9837
Al 308.215	8.8759b	ppb	1.2901	14.5	541.199
As 188.980	-1.2245b	ppb	1.0384	84.8	-7.5204
B 249.678	139.691b	ppb	0.5313	0.4	2591.88
Ba 389.178	0.5511b	ppb	0.3748	68.0	-31.2639
Be 313.042	0.0130b	ppb	0.0020	15.4	-436.587
Ca 370.602	138.6b	ppb	3.919	2.8	481.5
Cd 226.502	-0.0121b	ppb	0.0413	340.8	23.8469
Co 228.615	0.2810b	ppb	0.3371	120.0	-4.8111
Cr 267.716	0.0932b	ppb	0.1217	130.6	41.5862
Cu 324.754	2.6292b	ppb	0.0607	2.3	660.365
Fe 271.441	11.5444b	ppb	3.5010	30.3	20.1721
K 766.491	280.681b	ppb	0.8364	0.3	13546.1
Mg 279.078	48.3324b	ppb	1.5577	3.2	164.001
Mn 257.610	0.7108b	ppb	0.0151	2.1	223.450
Mo 202.032	1.1456b	ppb	0.1046	9.1	12.4256
Na 330.237	195974xb	ppb	199.291	0.1	10030.4
Ni 231.604	0.6729b	ppb	0.6984	103.8	-1.8766
Pb 220.353	-0.2045b	ppb	0.4576	223.8	9.8836
Sb 206.834	0.3470b	ppb	2.1074	607.4	3.0881
Se 196.026	1.0609b	ppb	2.5756	242.8	-0.9926
Sn 189.925	2.3054b	ppb	1.2960	56.2	-4.5166
Sr 216.596	3.6370b	ppb	0.5326	14.6	44.5668
Ti 334.941	0.0013b	ppb	0.0056	420.9	-19.3061
Tl 190.794	-1.5498b	ppb	2.2527	145.4	-10.6516
V 292.401	0.3922b	ppb	0.1089	27.8	-5.0537
Zn 206.200	6.8702b	ppb	1.0249	14.9	7.7942

680-110739-p-2-a (Samp)

3/20/2015, 2:12:58 PM

Rack 1, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1222u	-0.1392u	0.0801u
Al 308.215	21.6827	22.2686	22.3584
As 188.980	4.4803	2.1534	0.3725
B 249.678	92.5539	92.7300	93.3764
Ba 389.178	85.0782	85.2335	85.3445
Be 313.042	-0.0163u	-0.0118u	-0.0194u
Ca 370.602	60745	60761	60616
Cd 226.502	-0.1037u	-0.1102u	-0.0494u
Co 228.615	0.7206	0.0100	0.0606
Cr 267.716	0.3057	0.4332	0.4020

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	3.8956	3.7257	3.7972
Fe 271.441	56.4290	54.8631	59.3138
K 766.491	3727.57	3712.72	3721.30
Mg 279.078	8126.46	8103.92	8110.44
Mn 257.610	1.7474	1.7625	1.7563
Mo 202.032	0.7164	0.5330	0.5830
Na 330.237	108034x	107341x	107646x
Ni 231.604	1.7414	2.7618	2.2174
Pb 220.353	-1.2080u	-0.2842u	-0.5349u
Sb 206.834	2.1078	-1.5682u	-1.6020u
Se 196.026	1.9137	3.3547	-2.4027u
Sn 189.925	1.5328	2.3661	0.5196
Sr 216.596	450.855	450.146	448.539
Ti 334.941	0.3808	0.2838	0.3270
Tl 190.794	0.6630	-0.7361u	-1.2543u
V 292.401	0.0285u	0.2454	0.3545
Zn 206.200	5.4982	6.1474	5.0192

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0604b	ppb	0.1220	201.8	-38.9651
Al 308.215	22.1033b	ppb	0.3670	1.7	637.053
As 188.980	2.3354b	ppb	2.0599	88.2	-4.8885
B 249.678	92.8867b	ppb	0.4331	0.5	1751.35
Ba 389.178	85.2187b	ppb	0.1338	0.2	1912.27
Be 313.042	-0.0158b	ppb	0.0039	24.4	-461.076
Ca 370.602	60707b	ppb	79.37	0.1	204181
Cd 226.502	-0.0878b	ppb	0.0334	38.0	21.3805
Co 228.615	0.2637b	ppb	0.3965	150.3	-4.9771
Cr 267.716	0.3803b	ppb	0.0664	17.5	55.4273
Cu 324.754	3.8062b	ppb	0.0853	2.2	753.057
Fe 271.441	56.8687b	ppb	2.2577	4.0	91.8189
K 766.491	3720.53b	ppb	7.4517	0.2	175946
Mg 279.078	8113.61b	ppb	11.6001	0.1	23588.1
Mn 257.610	1.7554b	ppb	0.0076	0.4	525.344
Mo 202.032	0.6108b	ppb	0.0948	15.5	8.9895
Na 330.237	107674xb	ppb	347.714	0.3	5524.47
Ni 231.604	2.2402b	ppb	0.5106	22.8	3.0338
Pb 220.353	-0.6757b	ppb	0.4777	70.7	9.1444
Sb 206.834	-0.3541b	ppb	2.1321	602.1	2.0935
Se 196.026	0.9552b	ppb	2.9960	313.6	-1.0388
Sn 189.925	1.4728b	ppb	0.9247	62.8	-5.1568
Sr 216.596	449.847b	ppb	1.1869	0.3	5395.53
Ti 334.941	0.3306b	ppb	0.0486	14.7	98.6139
Tl 190.794	-0.4425b	ppb	0.9918	224.2	-9.4358
V 292.401	0.2095b	ppb	0.1660	79.2	-9.3708
Zn 206.200	5.5549b	ppb	0.5663	10.2	6.4028

680-110739-p-2-aSD^5 (Samp) 3/20/2015, 2:17:42 PM Rack 1, Tube 32

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0578	0.0735	0.0262u
Al 308.215	6.2638	4.0533	3.6217
As 188.980	-0.0903u	-0.8633u	2.8277

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	17.4846	18.6579	17.7459
Ba 389.178	16.8674	17.1585	17.7367
Be 313.042	0.0083	0.0006	0.0010
Ca 370.602	12186	12186	12188
Cd 226.502	0.0248	0.1116	-0.0331u
Co 228.615	0.0339	0.0374	-0.3330u
Cr 267.716	0.0136	0.1418	0.1582
Cu 324.754	0.6654	0.7735	0.7770
Fe 271.441	12.7273	21.8887	23.4460
K 766.491	672.877	671.484	673.656
Mg 279.078	1648.81	1652.46	1653.68
Mn 257.610	0.3931	0.4373	0.4250
Mo 202.032	0.2901	0.4819	0.4299
Na 330.237	19916.5	20123.8	20120.9
Ni 231.604	1.2322	1.8653	1.8165
Pb 220.353	-0.7622u	-2.2377u	-1.7278u
Sb 206.834	-2.3123u	-0.6615u	-0.2307u
Se 196.026	-0.4590u	-2.4916u	-3.8751u
Sn 189.925	1.7220	-0.0048	0.8554
Sr 216.596	91.8865	91.8031	91.9591
Ti 334.941	0.0272	0.0414	0.1327
Tl 190.794	0.1926	-3.7395u	-0.2247u
V 292.401	0.0137	-0.0336u	0.2054
Zn 206.200	-0.4270u	2.0887	2.5252

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0525	ppb	0.0241	45.9	-15.7255
Al 308.215	4.6463	ppb	1.4173	30.5	510.493
As 188.980	0.6247	ppb	1.9466	311.6	-6.1530
B 249.678	17.9628	ppb	0.6160	3.4	406.081
Ba 389.178	17.2542	ppb	0.4425	2.6	352.172
Be 313.042	0.0033	ppb	0.0044	132.0	-431.184
Ca 370.602	12187	ppb	1.135	0.0	41000
Cd 226.502	0.0344	ppb	0.0728	211.5	27.1063
Co 228.615	-0.0872	ppb	0.2129	244.0	-8.9263
Cr 267.716	0.1045	ppb	0.0792	75.8	38.8557
Cu 324.754	0.7387	ppb	0.0634	8.6	511.451
Fe 271.441	19.3540	ppb	5.7915	29.9	32.4749
K 766.491	672.672	ppb	1.1005	0.2	32052.6
Mg 279.078	1651.65	ppb	2.5348	0.2	4820.56
Mn 257.610	0.4185	ppb	0.0228	5.4	171.210
Mo 202.032	0.4007	ppb	0.0992	24.8	7.6420
Na 330.237	20053.8	ppb	118.858	0.6	1053.33
Ni 231.604	1.6380	ppb	0.3523	21.5	1.1463
Pb 220.353	-1.5759	ppb	0.7494	47.6	7.7234
Sb 206.834	-1.0682	ppb	1.0988	102.9	1.0681
Se 196.026	-2.2752	ppb	1.7183	75.5	-2.4713
Sn 189.925	0.8575	ppb	0.8634	100.7	-5.6368
Sr 216.596	91.8829	ppb	0.0780	0.1	1102.83
Ti 334.941	0.0671	ppb	0.0572	85.3	16.5265
Tl 190.794	-1.2572	ppb	2.1598	171.8	-10.3290
V 292.401	0.0618	ppb	0.1266	204.7	-12.8666
Zn 206.200	1.3956	ppb	1.5934	114.2	1.9991

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110739-p-2-aPDS (Samp) **3/20/2015, 2:22:27 PM** **Rack 1, Tube 33****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	91.7871	91.4826	91.5655
Al 308.215	1042.97	1037.05	1038.28
As 188.980	99.9559	100.000	102.832
B 249.678	286.640	287.049	289.317
Ba 389.178	173.681	172.699	173.418
Be 313.042	97.7880	97.6129	97.6586
Ca 370.602	71133	71008	70774
Cd 226.502	98.0242	97.4261	97.8756
Co 228.615	96.8484	97.5009	96.6974
Cr 267.716	101.565	100.911	101.321
Cu 324.754	107.683	107.915	107.985
Fe 271.441	9930.56	9931.18	9890.54
K 766.491	15806.4	15825.5	15808.0
Mg 279.078	17995.6	17951.0	17969.0
Mn 257.610	1030.08	1029.09	1027.59
Mo 202.032	97.0319	97.2763	98.3549
Na 330.237	117500x	117703x	117853x
Ni 231.604	101.228	98.8438	99.8786
Pb 220.353	94.1111	96.5126	95.2212
Sb 206.834	92.6753	92.8843	95.3135
Se 196.026	101.911	100.174	94.5662
Sn 189.925	96.6183	101.478	100.384
Sr 216.596	543.619	542.585	543.597
Ti 334.941	99.4218	99.5005	99.7796
Tl 190.794	16.4296	16.1490	18.3906
V 292.401	102.455	102.504	102.928
Zn 206.200	103.689	102.857	104.053

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	91.6117b	ppb	0.1575	0.2	8202.43
Al 308.215	1039.43b	ppb	3.1200	0.3	8027.37
As 188.980	100.929b	ppb	1.6480	1.6	67.9042
B 249.678	287.669b	ppb	1.4418	0.5	5225.77
Ba 389.178	173.266b	ppb	0.5081	0.3	3944.89
Be 313.042	97.6865b	ppb	0.0908	0.1	188204
Ca 370.602	70972b	ppb	182.5	0.3	238664
Cd 226.502	97.7753b	ppb	0.3114	0.3	4463.98
Co 228.615	97.0156b	ppb	0.4270	0.4	1082.94
Cr 267.716	101.266b	ppb	0.3302	0.3	5505.21
Cu 324.754	107.861b	ppb	0.1578	0.1	8955.12
Fe 271.441	9917.43b	ppb	23.2875	0.2	15684.6
K 766.491	15813.3b	ppb	10.6358	0.1	746864
Mg 279.078	17971.8b	ppb	22.4290	0.1	52196.4
Mn 257.610	1028.92b	ppb	1.2508	0.1	232843
Mo 202.032	97.5544b	ppb	0.7039	0.7	630.970
Na 330.237	117686xb	ppb	177.105	0.2	6031.71
Ni 231.604	99.9834b	ppb	1.1954	1.2	309.676
Pb 220.353	95.2816b	ppb	1.2019	1.3	161.099
Sb 206.834	93.6243b	ppb	1.4665	1.6	136.940
Se 196.026	98.8840b	ppb	3.8389	3.9	42.6797
Sn 189.925	99.4934b	ppb	2.5493	2.6	67.1168
Sr 216.596	543.267b	ppb	0.5909	0.1	6523.91

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	99.5673b	ppb	0.1880	0.2	29273.0
Tl 190.794	16.9897b	ppb	1.2212	7.2	8.8410
V 292.401	102.629b	ppb	0.2601	0.3	2861.58
Zn 206.200	103.533b	ppb	0.6134	0.6	110.264

680-110739-p-2-b ms (Samp) 3/20/2015, 2:27:12 PM Rack 1, Tube 34

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.4839	22.4096	22.3303
Al 308.215	2137.01	2135.48	2138.19
As 188.980	40.8630	44.0525	45.1128
B 249.678	175.195	176.832	177.110
Ba 389.178	125.226	126.735	126.207
Be 313.042	20.6307	20.5842	20.6361
Ca 370.602	63603	63579	63708
Cd 226.502	20.5490	20.6282	20.6276
Co 228.615	20.7761	20.0348	20.8655
Cr 267.716	42.6175	42.4324	42.2410
Cu 324.754	47.6681	47.8289	47.8479
Fe 271.441	2113.71	2097.48	2103.53
K 766.491	6485.63	6494.54	6484.18
Mg 279.078	10337.0	10337.7	10342.2
Mn 257.610	216.363	216.482	216.666
Mo 202.032	40.4841	40.9524	40.9500
Na 330.237	112051x	112191x	112209x
Ni 231.604	42.5656	42.8125	43.5463
Pb 220.353	202.050	204.969	204.945
Sb 206.834	21.5165	21.0293	24.4167
Se 196.026	47.3005	47.9117	41.6337
Sn 189.925	81.9158	79.0585	81.8356
Sr 216.596	494.832	495.911	495.527
Ti 334.941	41.3839	41.2929	41.4338
Tl 190.794	15.9986	15.3690	15.7191
V 292.401	42.1904	42.6789	42.1971
Zn 206.200	47.1895	47.6672	43.3671

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.4079b	ppb	0.0768	0.3	1980.07
Al 308.215	2136.89b	ppb	1.3596	0.1	15970.5
As 188.980	43.3428b	ppb	2.2120	5.1	25.4026
B 249.678	176.379b	ppb	1.0349	0.6	3245.81
Ba 389.178	126.056b	ppb	0.7657	0.6	2848.04
Be 313.042	20.6170b	ppb	0.0285	0.1	39379.5
Ca 370.602	63630b	ppb	68.43	0.1	214013
Cd 226.502	20.6016b	ppb	0.0456	0.2	960.338
Co 228.615	20.5588b	ppb	0.4560	2.2	223.126
Cr 267.716	42.4303b	ppb	0.1883	0.4	2325.17
Cu 324.754	47.7817b	ppb	0.0988	0.2	4218.39
Fe 271.441	2104.91b	ppb	8.1975	0.4	3330.64
K 766.491	6488.11b	ppb	5.6100	0.1	306608
Mg 279.078	10338.9b	ppb	2.8052	0.0	30045.6
Mn 257.610	216.504b	ppb	0.1529	0.1	49097.1
Mo 202.032	40.7955b	ppb	0.2697	0.7	266.902

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	112151xb	ppb	86.4974	0.1	5751.92
Ni 231.604	42.9748b	ppb	0.5101	1.2	130.700
Pb 220.353	203.988b	ppb	1.6781	0.8	331.829
Sb 206.834	22.3208b	ppb	1.8314	8.2	34.5680
Se 196.026	45.6153b	ppb	3.4617	7.6	18.8213
Sn 189.925	80.9366b	ppb	1.6270	2.0	53.4331
Sr 216.596	495.423b	ppb	0.5472	0.1	5941.91
Ti 334.941	41.3702b	ppb	0.0714	0.2	12160.3
Tl 190.794	15.6956b	ppb	0.3154	2.0	8.1136
V 292.401	42.3555b	ppb	0.2801	0.7	1172.75
Zn 206.200	46.0746b	ppb	2.3569	5.1	49.2850

680-110739-p-2-c msd (Samp) 3/20/2015, 2:31:57 PM Rack 1, Tube 35

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.8156	21.9280	22.0396
Al 308.215	2123.93	2123.34	2122.86
As 188.980	42.1736	45.2459	37.2265
B 249.678	171.402	172.127	172.450
Ba 389.178	123.292	123.515	124.224
Be 313.042	20.6786	20.6506	20.6529
Ca 370.602	61719	61607	61460
Cd 226.502	20.5203	20.5249	20.4570
Co 228.615	20.1497	20.7772	20.8697
Cr 267.716	42.2710	41.8910	42.0313
Cu 324.754	47.5726	47.6257	47.8212
Fe 271.441	2095.25	2094.78	2095.51
K 766.491	6315.47	6326.97	6313.98
Mg 279.078	10053.4	10034.4	10072.3
Mn 257.610	215.330	214.876	215.373
Mo 202.032	41.1551	40.8352	40.6917
Na 330.237	107861x	108226x	108508x
Ni 231.604	42.2057	43.9354	43.1117
Pb 220.353	202.274	204.436	204.375
Sb 206.834	23.6971	22.6436	19.9408
Se 196.026	43.5460	42.8303	32.3773
Sn 189.925	81.1780	78.6116	86.4008
Sr 216.596	480.585	478.898	481.769
Ti 334.941	41.1558	41.1337	41.2066
Tl 190.794	14.2990	13.4431	15.8899
V 292.401	41.9677	41.8686	41.9104
Zn 206.200	49.6481	48.5532	51.6270

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.9278b	ppb	0.1120	0.5	1937.41
Al 308.215	2123.38b	ppb	0.5356	0.0	15872.5
As 188.980	41.5487b	ppb	4.0460	9.7	24.0761
B 249.678	171.993b	ppb	0.5367	0.3	3167.08
Ba 389.178	123.677b	ppb	0.4866	0.4	2793.30
Be 313.042	20.6607b	ppb	0.0155	0.1	39463.5
Ca 370.602	61595b	ppb	130.1	0.2	207171
Cd 226.502	20.5007b	ppb	0.0380	0.2	955.767
Co 228.615	20.5989b	ppb	0.3918	1.9	223.561

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	42.0644b	ppb	0.1921	0.5	2305.35
Cu 324.754	47.6732b	ppb	0.1309	0.3	4209.85
Fe 271.441	2095.18b	ppb	0.3733	0.0	3315.28
K 766.491	6318.80b	ppb	7.1119	0.1	298615
Mg 279.078	10053.4b	ppb	18.9639	0.2	29216.2
Mn 257.610	215.193b	ppb	0.2754	0.1	48798.5
Mo 202.032	40.8940b	ppb	0.2372	0.6	267.535
Na 330.237	108198xb	ppb	324.509	0.3	5550.20
Ni 231.604	43.0843b	ppb	0.8652	2.0	131.042
Pb 220.353	203.695b	ppb	1.2312	0.6	331.366
Sb 206.834	22.0938b	ppb	1.9375	8.8	34.2304
Se 196.026	39.5845b	ppb	6.2519	15.8	16.1479
Sn 189.925	82.0635b	ppb	3.9694	4.8	54.2628
Sr 216.596	480.417b	ppb	1.4429	0.3	5761.97
Ti 334.941	41.1654b	ppb	0.0374	0.1	12099.9
Tl 190.794	14.5440b	ppb	1.2417	8.5	6.8452
V 292.401	41.9156b	ppb	0.0497	0.1	1160.27
Zn 206.200	49.9428b	ppb	1.5579	3.1	53.3803

mb 680-375239/1-a (Samp)

3/20/2015, 2:36:42 PM

Rack 1, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1273	0.0492	-0.1226u
Al 308.215	3.9823	0.5484	2.7712
As 188.980	2.3915	0.7020	0.2514
B 249.678	1.6334	1.3852	1.0767
Ba 389.178	1.0169	-0.7724u	0.0901
Be 313.042	0.0014	0.0113	0.0079
Ca 370.602	21.00	21.34	18.91
Cd 226.502	0.0325	-0.0297u	0.0566
Co 228.615	0.4317	-0.1301u	0.1400
Cr 267.716	0.0729	-0.0041u	0.1237
Cu 324.754	-0.2020u	-0.1438u	-0.1712u
Fe 271.441	6.5434	6.8330	8.9631
K 766.491	2.0233	1.8570	2.1663
Mg 279.078	1.8012	5.0358	2.9242
Mn 257.610	0.1563	0.1751	0.1639
Mo 202.032	0.0449	0.6623	0.1486
Na 330.237	-60.6702u	-91.1242u	-83.7343u
Ni 231.604	1.5218	1.2478	0.6020
Pb 220.353	-1.7590u	-1.2646u	-1.5616u
Sb 206.834	-0.8278u	0.3647	-2.4264u
Se 196.026	6.1867	-0.2876u	-7.8213u
Sn 189.925	-0.1799u	1.9242	0.0210
Sr 216.596	0.3962	0.1075	0.4633
Ti 334.941	0.0312	0.0241	0.0379
Tl 190.794	1.1025	-0.2698u	-2.9645u
V 292.401	0.2798	-0.0770u	-0.0575u
Zn 206.200	0.8199	2.5735	1.7701

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0180	ppb	0.1278	710.6	-15.4813
Al 308.215	2.4339	ppb	1.7416	71.6	494.454

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.1150	ppb	1.1282	101.2	-5.7904
B 249.678	1.3651	ppb	0.2789	20.4	108.082
Ba 389.178	0.1115	ppb	0.8948	802.2	-41.3654
Be 313.042	0.0069	ppb	0.0051	73.6	-426.272
Ca 370.602	20.42	ppb	1.313	6.4	84.22
Cd 226.502	0.0198	ppb	0.0445	224.5	26.4919
Co 228.615	0.1472	ppb	0.2809	190.8	-6.2900
Cr 267.716	0.0642	ppb	0.0644	100.3	36.2902
Cu 324.754	-0.1723	ppb	0.0291	16.9	439.696
Fe 271.441	7.4465	ppb	1.3214	17.7	13.6930
K 766.491	2.0156	ppb	0.1548	7.7	389.929
Mg 279.078	3.2537	ppb	1.6423	50.5	33.0943
Mn 257.610	0.1651	ppb	0.0095	5.8	100.706
Mo 202.032	0.2853	ppb	0.3306	115.9	6.9014
Na 330.237	-78.5096	ppb	15.8851	20.2	25.9994
Ni 231.604	1.1239	ppb	0.4723	42.0	-0.4650
Pb 220.353	-1.5284	ppb	0.2488	16.3	7.7976
Sb 206.834	-0.9632	ppb	1.4004	145.4	1.2203
Se 196.026	-0.6407	ppb	7.0107	1094.2	-1.7470
Sn 189.925	0.5884	ppb	1.1612	197.3	-5.8412
Sr 216.596	0.3224	ppb	0.1890	58.6	4.9308
Ti 334.941	0.0311	ppb	0.0069	22.2	4.5825
Tl 190.794	-0.7106	ppb	2.0690	291.2	-9.7242
V 292.401	0.0484	ppb	0.2006	414.0	-13.0789
Zn 206.200	1.7212	ppb	0.8778	51.0	2.3434

Cont Calib Verif (CCV)

3/20/2015, 2:41:26 PM

Rack 1, Tube 37

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	501.557	500.048	500.824
Al 308.215	5001.41	4983.09	4992.95
As 188.980	503.225	503.672	497.187
B 249.678	495.474	497.655	500.648
Ba 389.178	4955.18	4930.56	4935.57
Be 313.042	500.489	496.683	499.196
Ca 370.602	5060	5034	5053
Cd 226.502	502.842	500.215	503.736
Co 228.615	504.706	503.222	505.217
Cr 267.716	5088.32	5062.17	5073.18
Cu 324.754	5199.45	5219.27	5203.33
Fe 271.441	4987.90	4964.23	4974.37
K 766.491	10877.6	10876.5	10882.9
Mg 279.078	5008.77	4996.55	5001.60
Mn 257.610	5087.00	5051.93	5074.89
Mo 202.032	495.404	495.119	497.569
Na 330.237	7376.21	7532.07	7381.11
Ni 231.604	2535.79	2523.43	2537.19
Pb 220.353	496.818	501.175	498.009
Sb 206.834	1007.86	1011.46	1013.56
Se 196.026	5109.00	5076.42	5108.82
Sn 189.925	4922.07	4941.78	4950.91
Sr 216.596	2456.43	2444.72	2450.72
Ti 334.941	494.228	493.276	492.991

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	5096.83	5072.66	5100.02
V 292.401	4984.63	4973.48	4981.95
Zn 206.200	2501.44	2476.03	2477.95

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.810	ppb	0.7547	0.2	44955.0	100.16191
Al 308.215	4992.49	ppb	9.1679	0.2	37381.8	99.84974
As 188.980	501.361	ppb	3.6222	0.7	363.873	100.27229
B 249.678	497.926	ppb	2.5976	0.5	9028.16	99.58516
Ba 389.178	4940.44	ppb	13.0081	0.3	112395	98.80877
Be 313.042	498.789	ppb	1.9352	0.4	962981	99.75788
Ca 370.602	5049	ppb	13.84	0.3	17393	100.97984
Cd 226.502	502.264	ppb	1.8300	0.4	22566.2	100.45280
Co 228.615	504.382	ppb	1.0363	0.2	5667.37	100.87632
Cr 267.716	5074.55	ppb	13.1262	0.3	273727	101.49110
Cu 324.754	5207.35	ppb	10.5039	0.2	410505	104.14700
Fe 271.441	4975.50	ppb	11.8736	0.2	7964.27	99.51005
K 766.491	10879.0	ppb	3.4177	0.0	513907	108.78972
Mg 279.078	5002.31	ppb	6.1365	0.1	14438.1	100.04614
Mn 257.610	5071.27	ppb	17.8093	0.4	1146570	101.42545
Mo 202.032	496.031	ppb	1.3402	0.3	3184.99	99.20615
Na 330.237	7429.79	ppb	88.6067	1.2	378.052	99.06393
Ni 231.604	2532.14	ppb	7.5731	0.3	7923.25	101.28544
Pb 220.353	498.667	ppb	2.2517	0.5	800.474	99.73349
Sb 206.834	1010.96	ppb	2.8805	0.3	1512.76	101.09615
Se 196.026	5098.08	ppb	18.7575	0.4	2259.33	101.96158
Sn 189.925	4938.25	ppb	14.7393	0.3	3634.70	98.76504
Sr 216.596	2450.62	ppb	5.8590	0.2	29200.5	98.02493
Ti 334.941	493.498	ppb	0.6480	0.1	144998	98.69967
Tl 190.794	5089.84	ppb	14.9643	0.3	5606.62	101.79672
V 292.401	4980.02	ppb	5.8185	0.1	140609	99.60041
Zn 206.200	2485.14	ppb	14.1458	0.6	2621.52	99.40555

Cont Calib Blank (CCB)

3/20/2015, 2:46:09 PM

Rack 1, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2412	0.0213	0.1157
Al 308.215	2.6431	2.0795	1.8183
As 188.980	-3.9098u	-0.2279u	4.7027
B 249.678	5.0158	3.8862	3.5806
Ba 389.178	0.6781	1.1989	0.0393
Be 313.042	0.0365	0.0302	0.0387
Ca 370.602	2.986	2.828	3.842
Cd 226.502	0.1231	0.1650	0.0274
Co 228.615	0.5357	0.4546	0.6673
Cr 267.716	0.7036	0.5517	0.6609
Cu 324.754	0.7997	0.3437	0.0311
Fe 271.441	7.9494	8.7662	4.3207
K 766.491	1.0511	0.6950	0.6449
Mg 279.078	1.3731	0.7564	-1.6250u
Mn 257.610	0.5357	0.5486	0.4697
Mo 202.032	0.6142	0.4351	0.3995
Na 330.237	37.0968	-27.9614u	98.1964

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	0.4376	-0.0456u	0.2516
Pb 220.353	-0.9032u	-1.2727u	0.6419
Sb 206.834	2.3297	0.6102	1.1503
Se 196.026	0.8483	7.2577	-0.9194u
Sn 189.925	-0.3951u	3.7795	1.1256
Sr 216.596	0.0840	0.0260	0.2831
Ti 334.941	0.2035	0.1818	0.1146
Tl 190.794	1.0609	0.1473	2.9056
V 292.401	0.7947	0.4687	0.4982
Zn 206.200	0.9487	1.6953	0.3629

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1260	ppb	0.1103	87.5	-5.7546	0.12605
Al 308.215	2.1803	ppb	0.4215	19.3	492.698	2.18032
As 188.980	0.1883	ppb	4.3213	2294.5	-6.4756	0.18833
B 249.678	4.1608	ppb	0.7560	18.2	158.321	4.16084
Ba 389.178	0.6388	ppb	0.5808	90.9	-29.3764	0.63877
Be 313.042	0.0352	ppb	0.0044	12.6	-371.666	0.03516
Ca 370.602	3.218	ppb	0.5457	17.0	26.48	3.21833
Cd 226.502	0.1052	ppb	0.0706	67.1	30.3085	0.10517
Co 228.615	0.5525	ppb	0.1074	19.4	-1.7382	0.55251
Cr 267.716	0.6387	ppb	0.0783	12.3	67.2772	0.63874
Cu 324.754	0.3915	ppb	0.3865	98.7	484.098	0.39146
Fe 271.441	7.0121	ppb	2.3663	33.7	13.0714	7.01212
K 766.491	0.7970	ppb	0.2215	27.8	332.400	0.79701
Mg 279.078	0.1682	ppb	1.5832	941.5	24.1253	0.16816
Mn 257.610	0.5180	ppb	0.0423	8.2	180.441	0.51798
Mo 202.032	0.4829	ppb	0.1151	23.8	8.1703	0.48294
Na 330.237	35.7773	ppb	63.0892	176.3	31.8355	35.77727
Ni 231.604	0.2145	ppb	0.2437	113.6	-3.3136	0.21451
Pb 220.353	-0.5113	ppb	1.0157	198.6	9.4005	-0.51132
Sb 206.834	1.3634	ppb	0.8793	64.5	4.5632	1.36340
Se 196.026	2.3955	ppb	4.3025	179.6	-0.4012	2.39552
Sn 189.925	1.5034	ppb	2.1128	140.5	-5.1666	1.50335
Sr 216.596	0.1310	ppb	0.1348	102.9	2.6673	0.13103
Ti 334.941	0.1666	ppb	0.0463	27.8	44.3993	0.16664
Tl 190.794	1.3713	ppb	1.4051	102.5	-7.4294	1.37127
V 292.401	0.5872	ppb	0.1803	30.7	2.0923	0.58720
Zn 206.200	1.0023	ppb	0.6678	66.6	1.5813	1.00233

lcs 680-375239/2-a (Samp)

3/20/2015, 2:50:52 PM

Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.9963	53.7430	53.6441
Al 308.215	5180.01	5174.44	5187.25
As 188.980	101.700	103.449	106.499
B 249.678	207.358	207.374	209.589
Ba 389.178	101.023	100.457	100.778
Be 313.042	51.8544	51.7504	51.8376
Ca 370.602	5337	5321	5353
Cd 226.502	52.3644	52.8485	52.8365
Co 228.615	52.7508	52.4823	52.7203
Cr 267.716	107.255	107.351	107.858

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	108.087	108.598	107.342
Fe 271.441	5190.63	5170.01	5197.42
K 766.491	5937.89	5944.62	5930.11
Mg 279.078	5182.96	5186.53	5194.00
Mn 257.610	542.207	541.996	543.424
Mo 202.032	102.038	100.847	101.908
Na 330.237	5598.70	5522.18	5355.33
Ni 231.604	105.451	106.185	105.978
Pb 220.353	519.484	522.053	525.801
Sb 206.834	52.1673	52.6335	56.9091
Se 196.026	102.998	102.702	100.557
Sn 189.925	204.800	201.295	204.815
Sr 216.596	100.025	99.7184	101.368
Ti 334.941	104.504	104.489	104.391
Tl 190.794	42.3411	42.0383	41.9976
V 292.401	105.664	105.863	105.746
Zn 206.200	106.603	104.159	106.616

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.7945	ppb	0.1816	0.3	4817.41
Al 308.215	5180.57	ppb	6.4272	0.1	38039.5
As 188.980	103.883	ppb	2.4284	2.3	70.1209
B 249.678	208.107	ppb	1.2836	0.6	3808.32
Ba 389.178	100.753	ppb	0.2842	0.3	2264.29
Be 313.042	51.8141	ppb	0.0558	0.1	99609.7
Ca 370.602	5337	ppb	16.19	0.3	17973
Cd 226.502	52.6831	ppb	0.2761	0.5	2416.38
Co 228.615	52.6511	ppb	0.1470	0.3	583.822
Cr 267.716	107.488	ppb	0.3239	0.3	5834.58
Cu 324.754	108.009	ppb	0.6318	0.6	8964.69
Fe 271.441	5186.02	ppb	14.2743	0.3	8203.41
K 766.491	5937.54	ppb	7.2613	0.1	280615
Mg 279.078	5187.83	ppb	5.6338	0.1	15076.7
Mn 257.610	542.542	ppb	0.7707	0.1	122772
Mo 202.032	101.598	ppb	0.6530	0.6	657.139
Na 330.237	5492.07	ppb	124.448	2.3	307.698
Ni 231.604	105.872	ppb	0.3783	0.4	327.816
Pb 220.353	522.446	ppb	3.1770	0.6	833.925
Sb 206.834	53.9033	ppb	2.6135	4.8	79.7963
Se 196.026	102.085	ppb	1.3319	1.3	43.9496
Sn 189.925	203.637	ppb	2.0282	1.0	143.868
Sr 216.596	100.370	ppb	0.8774	0.9	1204.34
Ti 334.941	104.461	ppb	0.0618	0.1	30696.5
Tl 190.794	42.1257	ppb	0.1877	0.4	36.8877
V 292.401	105.758	ppb	0.1000	0.1	2951.51
Zn 206.200	105.792	ppb	1.4146	1.3	112.481

680-110714-o-1-d (Samp)

3/20/2015, 2:55:34 PM

Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.2153	2.2801	2.5435
Al 308.215	756.378	754.690	757.644
As 188.980	3.2894	4.8574	-0.5498u

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	55.0296	55.6864	54.5619
Ba 389.178	22.8650	22.6958	23.5735
Be 313.042	0.0564	0.0626	0.0569
Ca 370.602	36299	36313	36304
Cd 226.502	1.0896	1.0118	1.2771
Co 228.615	0.9859	1.0802	0.7193
Cr 267.716	4.2775	4.0949	4.2341
Cu 324.754	103.348	103.184	104.643
Fe 271.441	1626.09	1628.91	1630.28
K 766.491	4747.90	4747.35	4767.97
Mg 279.078	3151.96	3158.41	3164.58
Mn 257.610	40.9878	40.9970	40.9651
Mo 202.032	1.1701	0.7053	0.8380
Na 330.237	582961x	580489x	580622x
Ni 231.604	3.0156	2.7457	2.8410
Pb 220.353	10.0956	10.0331	8.0167
Sb 206.834	3.0733	1.5674	2.1639
Se 196.026	7.3602	12.5932	5.6154
Sn 189.925	2.8815	-1.7394u	2.8593
Sr 216.596	514.842	515.577	513.430
Ti 334.941	28.1078	27.9797	28.1934
Tl 190.794	-3.5070u	-1.6010u	0.8216
V 292.401	3.1432	3.0157	3.0626
Zn 206.200	991.286	983.385	982.109

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.3463b	ppb	0.1738	7.4	175.171
Al 308.215	756.237b	ppb	1.4821	0.2	5958.04
As 188.980	2.5324b	ppb	2.7820	109.9	-4.7544
B 249.678	55.0926b	ppb	0.5649	1.0	1068.86
Ba 389.178	23.0448b	ppb	0.4656	2.0	488.380
Be 313.042	0.0587b	ppb	0.0034	5.9	-378.938
Ca 370.602	36305b	ppb	7.349	0.0	122110
Cd 226.502	1.1262b	ppb	0.1364	12.1	81.5695
Co 228.615	0.9285b	ppb	0.1872	20.2	3.1731
Cr 267.716	4.2021b	ppb	0.0954	2.3	271.507
Cu 324.754	103.725b	ppb	0.7991	0.8	8622.89
Fe 271.441	1628.43b	ppb	2.1356	0.1	2575.16
K 766.491	4754.41b	ppb	11.7490	0.2	224757
Mg 279.078	3158.32b	ppb	6.3106	0.2	9195.18
Mn 257.610	40.9833b	ppb	0.0164	0.0	9356.13
Mo 202.032	0.9045b	ppb	0.2394	26.5	10.8032
Na 330.237	581357xb	ppb	1390.44	0.2	29684.1
Ni 231.604	2.8674b	ppb	0.1369	4.8	5.1324
Pb 220.353	9.3818b	ppb	1.1826	12.6	25.0878
Sb 206.834	2.2682b	ppb	0.7584	33.4	5.9352
Se 196.026	8.5229b	ppb	3.6313	42.6	2.3377
Sn 189.925	1.3338b	ppb	2.6615	199.5	-5.1178
Sr 216.596	514.616b	ppb	1.0916	0.2	6162.02
Ti 334.941	28.0936b	ppb	0.1075	0.4	8210.28
Tl 190.794	-1.4288b	ppb	2.1694	151.8	-10.7429
V 292.401	3.0738b	ppb	0.0645	2.1	67.3370
Zn 206.200	985.593b	ppb	4.9709	0.5	1043.92

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110714-o-1-dSD^5 (Samp) **3/20/2015, 3:00:18 PM** **Rack 1, Tube 41****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.6252	0.5430	0.4560
Al 308.215	156.112	155.251	155.496
As 188.980	-1.3085u	-2.3818u	-0.3114u
B 249.678	9.9587	9.7448	9.9420
Ba 389.178	4.9883	4.6648	4.2342
Be 313.042	0.0044u	0.0027u	0.0093
Ca 370.602	7190	7150	7184
Cd 226.502	0.1845	0.1409	0.2362
Co 228.615	0.0563	0.8631	0.1451
Cr 267.716	1.0224	1.0078	0.9521
Cu 324.754	20.2019	20.2559	20.1807
Fe 271.441	334.750	335.039	340.261
K 766.491	726.793	722.714	722.826
Mg 279.078	646.020	639.541	644.972
Mn 257.610	8.3286	8.2606	8.3171
Mo 202.032	0.5031	0.6913	0.0936
Na 330.237	98757.9x	98464.9x	98427.9x
Ni 231.604	1.2028	1.8321	1.1291
Pb 220.353	-1.8473u	0.0220	0.0889
Sb 206.834	-0.5576u	-1.2110u	-1.5854u
Se 196.026	-2.4530u	-1.2516u	-9.6176u
Sn 189.925	0.3711	-2.6346u	0.5762
Sr 216.596	102.910	102.130	101.889
Ti 334.941	6.4289	6.1482	5.8919
Tl 190.794	2.5880	1.5679	0.4785
V 292.401	0.8327	0.7512	0.6685
Zn 206.200	191.203	193.366	189.893

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5414b	ppb	0.0846	15.6	27.8668
Al 308.215	155.620b	ppb	0.4439	0.3	1604.76
As 188.980	-1.3339b	ppb	1.0355	77.6	-7.6034
B 249.678	9.8818b	ppb	0.1190	1.2	260.185
Ba 389.178	4.6291b	ppb	0.3783	8.2	63.0345
Be 313.042	0.0055b	ppb	0.0035	63.2	-437.552
Ca 370.602	7174b	ppb	21.63	0.3	24143
Cd 226.502	0.1872b	ppb	0.0477	25.5	35.2333
Co 228.615	0.3549b	ppb	0.4424	124.7	-3.8094
Cr 267.716	0.9941b	ppb	0.0371	3.7	88.5256
Cu 324.754	20.2128b	ppb	0.0388	0.2	2045.29
Fe 271.441	336.683b	ppb	3.1015	0.9	533.961
K 766.491	724.111b	ppb	2.3235	0.3	34481.1
Mg 279.078	643.511b	ppb	3.4776	0.5	1892.36
Mn 257.610	8.3021b	ppb	0.0364	0.4	1945.93
Mo 202.032	0.4293b	ppb	0.3056	71.2	7.8113
Na 330.237	98550.2xb	ppb	180.785	0.2	5056.59
Ni 231.604	1.3880b	ppb	0.3864	27.8	0.3899
Pb 220.353	-0.5788b	ppb	1.0990	189.9	9.3130
Sb 206.834	-1.1180b	ppb	0.5201	46.5	1.0124
Se 196.026	-4.4407b	ppb	4.5233	101.9	-3.4266
Sn 189.925	-0.5624b	ppb	1.7975	319.6	-6.6602
Sr 216.596	102.310b	ppb	0.5338	0.5	1225.93

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	6.1563b	ppb	0.2686	4.4	1797.74
Tl 190.794	1.5448b	ppb	1.0549	68.3	-7.2864
V 292.401	0.7508b	ppb	0.0821	10.9	5.8769
Zn 206.200	191.487b	ppb	1.7540	0.9	203.240

680-110714-o-1-dPDS (Samp) 3/20/2015, 3:05:02 PM Rack 1, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	95.1636	95.1469	95.0129
Al 308.215	1820.11	1821.56	1824.77
As 188.980	101.962	99.4545	104.832
B 249.678	250.008	251.247	250.402
Ba 389.178	109.243	108.672	109.000
Be 313.042	96.9300	96.9627	96.8409
Ca 370.602	46003	46023	45925
Cd 226.502	97.8960	97.7400	97.7621
Co 228.615	96.7493	96.3951	95.4471
Cr 267.716	104.454	104.214	104.322
Cu 324.754	207.108	208.119	208.467
Fe 271.441	11246.3	11269.5	11246.2
K 766.491	19923.0	20007.1	20039.8
Mg 279.078	12674.5	12660.9	12640.4
Mn 257.610	1050.55	1052.39	1049.12
Mo 202.032	95.6247	94.8048	96.1619
Na 330.237	588583x	589529x	589075x
Ni 231.604	99.5597	100.275	101.622
Pb 220.353	106.566	105.344	99.7938
Sb 206.834	91.6425	93.3313	96.1645
Se 196.026	105.867	110.341	109.211
Sn 189.925	101.702	94.6269	95.3548
Sr 216.596	599.029	601.115	597.424
Ti 334.941	126.085	126.706	126.617
Tl 190.794	15.3264	17.6962	22.1714
V 292.401	103.270	103.847	103.534
Zn 206.200	1060.54	1064.67	1056.21

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	95.1078b	ppb	0.0826	0.1	8514.83
Al 308.215	1822.15b	ppb	2.3821	0.1	13700.1
As 188.980	102.083b	ppb	2.6908	2.6	68.7481
B 249.678	250.553b	ppb	0.6331	0.3	4556.02
Ba 389.178	108.972b	ppb	0.2866	0.3	2471.84
Be 313.042	96.9112b	ppb	0.0630	0.1	186645
Ca 370.602	45984b	ppb	51.77	0.1	154625
Cd 226.502	97.7994b	ppb	0.0844	0.1	4469.46
Co 228.615	96.1972b	ppb	0.6733	0.7	1074.45
Cr 267.716	104.330b	ppb	0.1201	0.1	5680.22
Cu 324.754	207.898b	ppb	0.7061	0.3	16834.1
Fe 271.441	11254.0b	ppb	13.3975	0.1	17796.4
K 766.491	19990.0b	ppb	60.2482	0.3	944049
Mg 279.078	12658.6b	ppb	17.1269	0.1	36764.4
Mn 257.610	1050.69b	ppb	1.6411	0.2	237723
Mo 202.032	95.5305b	ppb	0.6834	0.7	617.913

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	589062xb	ppb	473.371	0.1	30073.9
Ni 231.604	100.485b	ppb	1.0472	1.0	311.366
Pb 220.353	103.901b	ppb	3.6092	3.5	174.759
Sb 206.834	93.7128b	ppb	2.2850	2.4	137.166
Se 196.026	108.473b	ppb	2.3263	2.1	46.9460
Sn 189.925	97.2279b	ppb	3.8917	4.0	65.5875
Sr 216.596	599.190b	ppb	1.8506	0.3	7184.24
Ti 334.941	126.469b	ppb	0.3360	0.3	37131.1
Tl 190.794	18.3980b	ppb	3.4760	18.9	10.2005
V 292.401	103.550b	ppb	0.2888	0.3	2883.92
Zn 206.200	1060.47b	ppb	4.2280	0.4	1123.32

680-110714-o-1-e ms (Samp) 3/20/2015, 3:09:45 PM Rack 1, Tube 43

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	57.3855	57.1779	57.4557
Al 308.215	6248.74	6238.35	6253.77
As 188.980	107.178	111.072	110.637
B 249.678	261.770	262.904	263.886
Ba 389.178	119.860	121.023	120.240
Be 313.042	51.2602	51.2183	51.1758
Ca 370.602	40212	40102	40231
Cd 226.502	52.2321	52.1517	52.2180
Co 228.615	51.5540	51.6184	51.1677
Cr 267.716	108.349	107.929	108.188
Cu 324.754	210.509	210.342	210.692
Fe 271.441	6505.01	6516.81	6530.71
K 766.491	12679.9	12683.0	12685.0
Mg 279.078	8055.41	8049.63	8069.17
Mn 257.610	562.782	563.262	563.328
Mo 202.032	98.2344	99.9512	100.469
Na 330.237	571501x	573140x	572173x
Ni 231.604	104.620	103.117	105.016
Pb 220.353	504.953	508.517	509.657
Sb 206.834	53.4518	56.0130	55.8116
Se 196.026	115.799	106.114	109.957
Sn 189.925	197.374	192.518	201.377
Sr 216.596	594.173	596.021	594.527
Ti 334.941	127.708	127.806	127.904
Tl 190.794	35.8455	35.5015	37.4092
V 292.401	105.928	105.555	105.914
Zn 206.200	1038.43	1044.63	1043.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.3397b	ppb	0.1444	0.3	5118.08
Al 308.215	6246.95b	ppb	7.8642	0.1	45767.9
As 188.980	109.629b	ppb	2.1340	1.9	74.3602
B 249.678	262.853b	ppb	1.0585	0.4	4788.05
Ba 389.178	120.374b	ppb	0.5930	0.5	2717.86
Be 313.042	51.2181b	ppb	0.0422	0.1	98407.5
Ca 370.602	40182b	ppb	69.84	0.2	135156
Cd 226.502	52.2006b	ppb	0.0429	0.1	2398.75
Co 228.615	51.4467b	ppb	0.2437	0.5	570.915

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	108.156b	ppb	0.2122	0.2	5882.13
Cu 324.754	210.514b	ppb	0.1755	0.1	17038.1
Fe 271.441	6517.51b	ppb	12.8673	0.2	10307.2
K 766.491	12682.6b	ppb	2.5366	0.0	599061
Mg 279.078	8058.07b	ppb	10.0382	0.1	23411.9
Mn 257.610	563.124b	ppb	0.2978	0.1	127450
Mo 202.032	99.5515b	ppb	1.1697	1.2	643.941
Na 330.237	572271xb	ppb	823.994	0.1	29218.5
Ni 231.604	104.251b	ppb	1.0021	1.0	322.862
Pb 220.353	507.709b	ppb	2.4537	0.5	810.768
Sb 206.834	55.0921b	ppb	1.4241	2.6	81.5715
Se 196.026	110.623b	ppb	4.8767	4.4	47.7501
Sn 189.925	197.090b	ppb	4.4361	2.3	139.210
Sr 216.596	594.907b	ppb	0.9812	0.2	7124.77
Ti 334.941	127.806b	ppb	0.0980	0.1	37516.7
Tl 190.794	36.2521b	ppb	1.0168	2.8	30.2227
V 292.401	105.799b	ppb	0.2119	0.2	2948.37
Zn 206.200	1042.06b	ppb	3.2372	0.3	1103.66

680-110714-o-1-f msd (Samp) 3/20/2015, 3:14:30 PM Rack 1, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	58.2327	57.8089	57.9472
Al 308.215	6265.67	6260.96	6255.47
As 188.980	110.087	110.455	110.079
B 249.678	261.318	262.110	262.649
Ba 389.178	120.103	119.988	119.483
Be 313.042	51.1006	51.1282	51.0808
Ca 370.602	40036	40019	39875
Cd 226.502	52.2496	52.2671	52.0373
Co 228.615	51.8253	51.8461	51.3646
Cr 267.716	108.079	108.253	107.834
Cu 324.754	210.703	209.985	210.912
Fe 271.441	6513.07	6516.78	6506.11
K 766.491	12633.2	12555.1	12626.7
Mg 279.078	8017.92	8035.96	8009.22
Mn 257.610	568.303	568.487	567.148
Mo 202.032	99.5122	100.590	100.036
Na 330.237	564890x	568570x	563841x
Ni 231.604	104.059	105.055	104.080
Pb 220.353	511.901	514.323	510.868
Sb 206.834	55.4011	53.6071	55.6195
Se 196.026	106.552	114.625	109.393
Sn 189.925	196.468	195.774	203.681
Sr 216.596	589.823	590.574	587.258
Ti 334.941	128.188	127.872	128.082
Tl 190.794	36.2620	38.0205	37.3234
V 292.401	106.135	105.936	105.744
Zn 206.200	1035.97	1039.84	1029.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.9962b	ppb	0.2161	0.4	5177.36
Al 308.215	6260.70b	ppb	5.1056	0.1	45867.5

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	110.207b	ppb	0.2148	0.2	74.7876
B 249.678	262.025b	ppb	0.6695	0.3	4773.22
Ba 389.178	119.858b	ppb	0.3300	0.3	2706.03
Be 313.042	51.1032b	ppb	0.0238	0.0	98186.0
Ca 370.602	39977b	ppb	88.77	0.2	134466
Cd 226.502	52.1847b	ppb	0.1279	0.2	2397.99
Co 228.615	51.6786b	ppb	0.2722	0.5	573.524
Cr 267.716	108.055b	ppb	0.2103	0.2	5876.66
Cu 324.754	210.534b	ppb	0.4861	0.2	17039.6
Fe 271.441	6511.99b	ppb	5.4182	0.1	10298.5
K 766.491	12605.0b	ppb	43.3722	0.3	595395
Mg 279.078	8021.03b	ppb	13.6385	0.2	23304.2
Mn 257.610	567.979b	ppb	0.7260	0.1	128547
Mo 202.032	100.046b	ppb	0.5387	0.5	647.118
Na 330.237	565767xb	ppb	2483.22	0.4	28886.7
Ni 231.604	104.398b	ppb	0.5690	0.5	323.319
Pb 220.353	512.364b	ppb	1.7735	0.3	818.105
Sb 206.834	54.8759b	ppb	1.1042	2.0	81.2590
Se 196.026	110.190b	ppb	4.0951	3.7	47.5587
Sn 189.925	198.641b	ppb	4.3787	2.2	140.352
Sr 216.596	589.219b	ppb	1.7385	0.3	7056.69
Ti 334.941	128.047b	ppb	0.1606	0.1	37588.0
Tl 190.794	37.2020b	ppb	0.8855	2.4	31.2741
V 292.401	105.938b	ppb	0.1956	0.2	2952.37
Zn 206.200	1035.01b	ppb	5.3709	0.5	1096.20

680-110688-a-13-a^10 (Samp) 3/20/2015, 3:19:14 PM

Rack 1, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1278	0.6392	0.3781
Al 308.215	6716.62	6524.83	6527.46
As 188.980	17.4904	10.1896	10.0672
B 249.678	6.4353	5.8706	5.8782
Ba 389.178	418.485	408.046	406.620
Be 313.042	0.6471	0.6364	0.6372
Ca 370.602	13391	13032	13054
Cd 226.502	0.8004	0.6924	0.7444
Co 228.615	7.2696	7.3452	6.4996
Cr 267.716	16.7998	16.2824	16.1462
Cu 324.754	58.0645	55.9533	56.2920
Fe 271.441	15582.7	15198.9	15168.8
K 766.491	1567.34	1521.08	1542.26
Mg 279.078	1290.08	1254.61	1256.41
Mn 257.610	3835.84	3735.74	3736.01
Mo 202.032	3.4091	3.4207	3.0603
Na 330.237	409.914	453.865	402.758
Ni 231.604	15.7690	14.1495	15.0912
Pb 220.353	6155.58	6005.91	6011.85
Sb 206.834	2.5881	3.0245	4.8499
Se 196.026	-2.5294u	3.6644	-10.6594u
Sn 189.925	24.9536	24.0668	22.7725
Sr 216.596	74.1050	72.7733	73.7672
Ti 334.941	186.156	181.301	181.295

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	1.9199	-2.0874u	-0.2421u
V 292.401	22.7270	22.5227	22.1390
Zn 206.200	631.128	610.713	613.087

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3817	ppb	0.2557	67.0	32.4572
Al 308.215	6589.64	ppb	109.975	1.7	48238.4
As 188.980	12.5824	ppb	4.2509	33.8	2.5756
B 249.678	6.0614	ppb	0.3239	5.3	154.291
Ba 389.178	411.050	ppb	6.4780	1.6	9323.51
Be 313.042	0.6402	ppb	0.0059	0.9	799.578
Ca 370.602	13159	ppb	201.2	1.5	44292
Cd 226.502	0.7457	ppb	0.0540	7.2	146.058
Co 228.615	7.0382	ppb	0.4679	6.6	75.9327
Cr 267.716	16.4095	ppb	0.3448	2.1	943.738
Cu 324.754	56.7699	ppb	1.1339	2.0	4931.10
Fe 271.441	15316.8	ppb	230.759	1.5	24205.1
K 766.491	1543.56	ppb	23.1534	1.5	73168.5
Mg 279.078	1267.04	ppb	19.9807	1.6	3617.85
Mn 257.610	3769.20	ppb	57.7131	1.5	852215
Mo 202.032	3.2967	ppb	0.2048	6.2	25.5382
Na 330.237	422.179	ppb	27.6734	6.6	40.2468
Ni 231.604	15.0032	ppb	0.8133	5.4	44.2983
Pb 220.353	6057.78	ppb	84.7529	1.4	9559.99
Sb 206.834	3.4875	ppb	1.1999	34.4	8.0656
Se 196.026	-3.1748	ppb	7.1837	226.3	-1.9029
Sn 189.925	23.9310	ppb	1.0968	4.6	11.3693
Sr 216.596	73.5485	ppb	0.6923	0.9	903.685
Ti 334.941	182.917	ppb	2.8051	1.5	53742.0
Tl 190.794	-0.1365	ppb	2.0057	1468.9	-9.5224
V 292.401	22.4629	ppb	0.2986	1.3	615.406
Zn 206.200	618.310	ppb	11.1647	1.8	655.559

680-110688-a-13-aSD (Samp) 3/20/2015, 3:23:59 PM Rack 1, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0525	0.1184	0.2034
Al 308.215	1612.04	1611.37	1615.37
As 188.980	6.1259	6.0644	1.1812
B 249.678	0.0153u	0.3899u	0.0008u
Ba 389.178	102.151	101.622	102.427
Be 313.042	0.1457	0.1475	0.1434
Ca 370.602	3238	3242	3259
Cd 226.502	0.2085	0.1830	-0.0330
Co 228.615	2.0519	1.7829	1.9619
Cr 267.716	4.2703	4.0937	4.1603
Cu 324.754	14.1104	14.2464	13.9086
Fe 271.441	3818.63	3812.76	3818.72
K 766.491	386.349	384.604	386.467
Mg 279.078	313.217	312.389	312.404
Mn 257.610	955.978	954.807	955.795
Mo 202.032	1.0938	1.4284	1.5359
Na 330.237	149.964	175.627	129.608

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	4.8711	4.1660	5.1510
Pb 220.353	1511.06	1513.11	1516.13
Sb 206.834	-0.4721u	2.7290	0.3366
Se 196.026	-3.9098u	-0.0423	-10.7751u
Sn 189.925	5.6488	6.3873	4.0736
Sr 216.596	18.4901	18.9425	17.9778
Ti 334.941	45.1628	45.1440	45.2043
Tl 190.794	0.5563	-2.8219u	-0.3627u
V 292.401	5.6705	5.6099	5.4676
Zn 206.200	151.079	152.657	152.849

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1248	ppb	0.0757	60.6	-1.9855
Al 308.215	1612.93	ppb	2.1394	0.1	12167.3
As 188.980	4.4572	ppb	2.8372	63.7	-3.3474
B 249.678	0.1353	ppb	0.2206	163.0	76.5365
Ba 389.178	102.066	ppb	0.4093	0.4	2282.08
Be 313.042	0.1455	ppb	0.0021	1.4	-157.861
Ca 370.602	3246	ppb	10.87	0.3	10939
Cd 226.502	0.1195	ppb	0.1327	111.1	52.5954
Co 228.615	1.9322	ppb	0.1369	7.1	14.9438
Cr 267.716	4.1748	ppb	0.0892	2.1	264.511
Cu 324.754	14.0885	ppb	0.1699	1.2	1564.54
Fe 271.441	3816.70	ppb	3.4177	0.1	6032.97
K 766.491	385.807	ppb	1.0429	0.3	18509.3
Mg 279.078	312.670	ppb	0.4740	0.2	910.058
Mn 257.610	955.527	ppb	0.6300	0.1	216091
Mo 202.032	1.3527	ppb	0.2306	17.0	13.5816
Na 330.237	151.733	ppb	23.0606	15.2	34.9647
Ni 231.604	4.7294	ppb	0.5075	10.7	11.1490
Pb 220.353	1513.43	ppb	2.5483	0.2	2396.05
Sb 206.834	0.8645	ppb	1.6645	192.5	3.9524
Se 196.026	-4.9091	ppb	5.4357	110.7	-3.3944
Sn 189.925	5.3699	ppb	1.1818	22.0	-2.3158
Sr 216.596	18.4701	ppb	0.4826	2.6	227.659
Ti 334.941	45.1704	ppb	0.0309	0.1	13267.9
Tl 190.794	-0.8761	ppb	1.7467	199.4	-10.0057
V 292.401	5.5827	ppb	0.1042	1.9	142.020
Zn 206.200	152.195	ppb	0.9713	0.6	161.758

680-110688-a-13-aPDS (Samp) 3/20/2015, 3:28:44 PM

Rack 1, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	88.7733	88.8369	88.9275
Al 308.215	9110.60	9108.23	9090.75
As 188.980	112.115	111.376	105.741
B 249.678	195.361	196.520	197.464
Ba 389.178	587.627	587.871	586.416
Be 313.042	97.5354	97.4437	97.4263
Ca 370.602	25862	25908	25910
Cd 226.502	96.9992	97.1042	96.8028
Co 228.615	104.467	104.828	104.759
Cr 267.716	118.323	118.331	118.152

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	170.667	170.737	170.223
Fe 271.441	28233.0	28260.6	28240.8
K 766.491	12396.2	12338.9	12368.3
Mg 279.078	11181.5	11185.4	11195.2
Mn 257.610	5519.36	5523.74	5521.04
Mo 202.032	98.5100	99.6204	99.1591
Na 330.237	9461.95	9432.65	9418.89
Ni 231.604	114.666	115.463	115.415
Pb 220.353	7409.32	7430.21	7420.69
Sb 206.834	96.6205	98.9928	101.327
Se 196.026	96.6418	95.4801	90.4700
Sn 189.925	124.187	122.260	127.084
Sr 216.596	183.408	183.296	182.458
Ti 334.941	317.218	316.525	315.772
Tl 190.794	19.0438	17.5350	18.7364
V 292.401	127.920	127.509	126.984
Zn 206.200	840.281	846.721	842.923

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	88.8459	ppb	0.0775	0.1	7988.34
Al 308.215	9103.19	ppb	10.8460	0.1	66472.9
As 188.980	109.744	ppb	3.4865	3.2	74.2872
B 249.678	196.448	ppb	1.0532	0.5	3542.16
Ba 389.178	587.305	ppb	0.7791	0.1	13365.7
Be 313.042	97.4685	ppb	0.0586	0.1	187777
Ca 370.602	25893	ppb	26.84	0.1	87083
Cd 226.502	96.9687	ppb	0.1530	0.2	4532.57
Co 228.615	104.685	ppb	0.1916	0.2	1174.85
Cr 267.716	118.269	ppb	0.1014	0.1	6451.08
Cu 324.754	170.542	ppb	0.2788	0.2	13899.8
Fe 271.441	28244.8	ppb	14.2457	0.1	44644.9
K 766.491	12367.8	ppb	28.6686	0.2	584196
Mg 279.078	11187.4	ppb	7.0781	0.1	32390.1
Mn 257.610	5521.38	ppb	2.2118	0.0	1248446
Mo 202.032	99.0965	ppb	0.5578	0.6	640.035
Na 330.237	9437.83	ppb	21.9923	0.2	494.342
Ni 231.604	115.181	ppb	0.4469	0.4	358.827
Pb 220.353	7420.08	ppb	10.4602	0.1	11708.2
Sb 206.834	98.9802	ppb	2.3535	2.4	145.174
Se 196.026	94.1973	ppb	3.2798	3.5	41.7555
Sn 189.925	124.510	ppb	2.4283	2.0	85.5291
Sr 216.596	183.054	ppb	0.5190	0.3	2228.98
Ti 334.941	316.505	ppb	0.7230	0.2	93009.6
Tl 190.794	18.4384	ppb	0.7973	4.3	9.9128
V 292.401	127.471	ppb	0.4689	0.4	3558.85
Zn 206.200	843.308	ppb	3.2370	0.4	893.988

680-110688-a-13-b ms (Samp) 3/20/2015, 3:33:29 PM Rack 1, Tube 48

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.5501	5.5888	5.5081
Al 308.215	8567.42	8573.95	8559.84
As 188.980	24.0854	19.4755	22.1888

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	24.7815	24.0513	24.3514
Ba 389.178	608.683	607.598	609.082
Be 313.042	5.5492	5.5338	5.5552
Ca 370.602	13965	13901	13939
Cd 226.502	5.6029	5.8099	5.6115
Co 228.615	13.6297	12.9494	13.2208
Cr 267.716	27.9854	27.7629	27.6007
Cu 324.754	66.9755	67.0695	66.0427
Fe 271.441	15262.7	15231.3	15234.3
K 766.491	3009.88	3015.84	3014.09
Mg 279.078	1909.25	1909.59	1915.38
Mn 257.610	5310.82	5298.13	5307.40
Mo 202.032	12.0979	12.3514	11.8972
Na 330.237	927.317	897.085	1003.11
Ni 231.604	23.9118	23.0021	24.6522
Pb 220.353	1970.67	1962.34	1967.68
Sb 206.834	4.5241	7.8651	6.5580
Se 196.026	6.8650	1.5798	7.5930
Sn 189.925	42.8538	42.8145	41.3349
Sr 216.596	89.9673	89.3742	90.6081
Ti 334.941	251.374	250.743	252.967
Tl 190.794	6.2167	3.9716	0.8504
V 292.401	33.9118	33.9638	33.6699
Zn 206.200	1026.93	1018.56	1018.27

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.5490	ppb	0.0404	0.7	504.810
Al 308.215	8567.07	ppb	7.0622	0.1	62571.0
As 188.980	21.9166	ppb	2.3170	10.6	9.4747
B 249.678	24.3947	ppb	0.3670	1.5	483.773
Ba 389.178	608.455	ppb	0.7679	0.1	13816.4
Be 313.042	5.5461	ppb	0.0110	0.2	10273.4
Ca 370.602	13935	ppb	32.19	0.2	46984
Cd 226.502	5.6748	ppb	0.1171	2.1	366.265
Co 228.615	13.2666	ppb	0.3424	2.6	147.141
Cr 267.716	27.7830	ppb	0.1931	0.7	1564.60
Cu 324.754	66.6959	ppb	0.5676	0.9	5712.99
Fe 271.441	15242.7	ppb	17.3571	0.1	24089.0
K 766.491	3013.27	ppb	3.0611	0.1	142556
Mg 279.078	1911.41	ppb	3.4467	0.2	5454.79
Mn 257.610	5305.45	ppb	6.5642	0.1	1199517
Mo 202.032	12.1155	ppb	0.2276	1.9	82.1606
Na 330.237	942.503	ppb	54.6190	5.8	61.9724
Ni 231.604	23.8554	ppb	0.8265	3.5	71.9915
Pb 220.353	1966.90	ppb	4.2181	0.2	3112.25
Sb 206.834	6.3157	ppb	1.6836	26.7	12.1248
Se 196.026	5.3460	ppb	3.2818	61.4	2.2116
Sn 189.925	42.3344	ppb	0.8658	2.0	24.9383
Sr 216.596	89.9832	ppb	0.6171	0.7	1099.75
Ti 334.941	251.695	ppb	1.1462	0.5	73950.4
Tl 190.794	3.6796	ppb	2.6950	73.2	-4.5150
V 292.401	33.8485	ppb	0.1568	0.5	935.839
Zn 206.200	1021.25	ppb	4.9186	0.5	1082.09

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Cont Calib Verif (CCV) 3/20/2015, 3:38:13 PM Rack 1, Tube 49

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	499.987	499.302	499.509
Al 308.215	4964.28	4957.13	4954.35
As 188.980	496.963	510.039	506.754
B 249.678	498.479	500.557	502.086
Ba 389.178	4940.64	4939.77	4945.03
Be 313.042	498.575	497.376	498.855
Ca 370.602	5011	5016	5028
Cd 226.502	502.516	503.175	504.488
Co 228.615	505.627	505.409	505.981
Cr 267.716	5066.00	5066.83	5074.83
Cu 324.754	5265.68	5235.25	5231.48
Fe 271.441	4980.95	4977.36	4983.05
K 766.491	10961.4	10911.9	10924.0
Mg 279.078	5010.61	5008.90	5017.05
Mn 257.610	5058.51	5085.83	5077.54
Mo 202.032	495.724	497.379	498.195
Na 330.237	7606.15	7527.70	7599.85
Ni 231.604	2540.26	2547.85	2550.92
Pb 220.353	501.084	501.095	495.392
Sb 206.834	1011.86	1010.31	1015.32
Se 196.026	5120.11	5104.90	5119.78
Sn 189.925	4954.04	4940.45	4980.13
Sr 216.596	2452.46	2438.43	2459.61
Ti 334.941	493.488	491.246	492.125
Tl 190.794	5102.29	5114.73	5112.24
V 292.401	4986.86	4982.86	4990.84
Zn 206.200	2478.88	2485.17	2483.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.599	ppb	0.3514	0.1	44846.2	99.91987
Al 308.215	4958.58	ppb	5.1228	0.1	37137.3	99.17168
As 188.980	504.585	ppb	6.8024	1.3	366.255	100.91707
B 249.678	500.374	ppb	1.8103	0.4	9072.14	100.07487
Ba 389.178	4941.82	ppb	2.8214	0.1	112426	98.83631
Be 313.042	498.269	ppb	0.7856	0.2	961976	99.65382
Ca 370.602	5018	ppb	8.640	0.2	17289	100.36562
Cd 226.502	503.393	ppb	1.0041	0.2	22616.8	100.67854
Co 228.615	505.672	ppb	0.2888	0.1	5681.80	101.13441
Cr 267.716	5069.22	ppb	4.8776	0.1	273439	101.38441
Cu 324.754	5244.14	ppb	18.7539	0.4	413402	104.88274
Fe 271.441	4980.45	ppb	2.8748	0.1	7972.36	99.60904
K 766.491	10932.4	ppb	25.8185	0.2	516430	109.32417
Mg 279.078	5012.19	ppb	4.3003	0.1	14466.9	100.24374
Mn 257.610	5073.96	ppb	14.0089	0.3	1147177	101.47918
Mo 202.032	497.099	ppb	1.2592	0.3	3191.84	99.41988
Na 330.237	7577.90	ppb	43.5883	0.6	385.619	101.03867
Ni 231.604	2546.34	ppb	5.4856	0.2	7967.74	101.85380
Pb 220.353	499.190	ppb	3.2893	0.7	801.301	99.83808
Sb 206.834	1012.50	ppb	2.5635	0.3	1515.02	101.24969
Se 196.026	5114.93	ppb	8.6848	0.2	2266.80	102.29863
Sn 189.925	4958.21	ppb	20.1677	0.4	3649.41	99.16411
Sr 216.596	2450.17	ppb	10.7737	0.4	29194.7	98.00665

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	492.286	ppb	1.1297	0.2	144641	98.45728
Tl 190.794	5109.76	ppb	6.5801	0.1	5628.56	102.19511
V 292.401	4986.85	ppb	3.9917	0.1	140802	99.73709
Zn 206.200	2482.59	ppb	3.2970	0.1	2618.81	99.30375

Cont Calib Blank (CCB) 3/20/2015, 3:42:56 PM Rack 1, Tube 50
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2298u	0.1288	-0.1685u
Al 308.215	6.6658	6.2228	6.8434
As 188.980	-3.6741u	-1.4386u	0.2261
B 249.678	4.7106	3.7657	3.2379
Ba 389.178	0.2884	0.0910	0.6098
Be 313.042	0.0331	0.0325	0.0332
Ca 370.602	8.442	9.967	6.596
Cd 226.502	0.0679	0.0573	0.0840
Co 228.615	0.1301	0.6126	0.1916
Cr 267.716	0.6069	0.3881	0.4353
Cu 324.754	0.4529	0.6039	0.4558
Fe 271.441	-0.8525u	7.1736	5.8154
K 766.491	0.1486	0.3933	0.7507
Mg 279.078	1.4306	-0.0546u	-0.4001u
Mn 257.610	0.5051	0.4975	0.4895
Mo 202.032	0.4794	0.2603	0.3483
Na 330.237	32.1574	153.458	28.8223
Ni 231.604	0.0123	0.2603	0.6185
Pb 220.353	-3.8638u	-0.1024u	-4.2249u
Sb 206.834	2.8462	2.4655	-0.4939u
Se 196.026	-2.6531u	-0.5300u	-1.4740u
Sn 189.925	0.6918	0.1343	-1.0262u
Sr 216.596	0.3939	0.5324	0.4665
Ti 334.941	0.1713	0.1280	0.1481
Tl 190.794	5.1094	2.9425	1.2663
V 292.401	0.4052	0.6071	0.6298
Zn 206.200	2.5651	-0.6377u	1.6833

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0898	ppb	0.1918	213.5	-25.1709	-0.08984
Al 308.215	6.5773	ppb	0.3196	4.9	524.553	6.57734
As 188.980	-1.6289	ppb	1.9571	120.1	-7.8190	-1.62887
B 249.678	3.9047	ppb	0.7461	19.1	153.728	3.90475
Ba 389.178	0.3297	ppb	0.2619	79.4	-36.4099	0.32975
Be 313.042	0.0329	ppb	0.0004	1.2	-375.927	0.03294
Ca 370.602	8.335	ppb	1.688	20.3	43.72	8.33509
Cd 226.502	0.0697	ppb	0.0134	19.3	28.7071	0.06973
Co 228.615	0.3114	ppb	0.2626	84.3	-4.4433	0.31144
Cr 267.716	0.4767	ppb	0.1151	24.2	58.5381	0.47674
Cu 324.754	0.5042	ppb	0.0863	17.1	492.969	0.50418
Fe 271.441	4.0455	ppb	4.2958	106.2	8.3585	4.04553
K 766.491	0.4309	ppb	0.3028	70.3	315.114	0.43088
Mg 279.078	0.3253	ppb	0.9726	299.0	24.5799	0.32532
Mn 257.610	0.4973	ppb	0.0078	1.6	175.768	0.49733
Mo 202.032	0.3627	ppb	0.1103	30.4	7.3982	0.36268

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	71.4792	ppb	71.0150	99.4	33.6549	71.47916
Ni 231.604	0.2970	ppb	0.3047	102.6	-3.0550	0.29701
Pb 220.353	-2.7304	ppb	2.2830	83.6	5.9028	-2.73036
Sb 206.834	1.6059	ppb	1.8284	113.9	4.9117	1.60593
Se 196.026	-1.5524	ppb	1.0637	68.5	-2.1510	-1.55239
Sn 189.925	-0.0667	ppb	0.8765	1313.6	-6.3242	-0.06672
Sr 216.596	0.4643	ppb	0.0693	14.9	6.6427	0.46429
Ti 334.941	0.1492	ppb	0.0216	14.5	39.2677	0.14915
Tl 190.794	3.1061	ppb	1.9268	62.0	-5.5186	3.10608
V 292.401	0.5473	ppb	0.1236	22.6	1.0001	0.54733
Zn 206.200	1.2036	ppb	1.6544	137.5	1.7945	1.20356

680-110688-a-13-c ms (Samp) 3/20/2015, 3:47:39 PM Rack 1, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.2530	5.3609	5.2789
Al 308.215	7179.81	7185.41	7184.57
As 188.980	22.4275	24.3858	25.5483
B 249.678	21.3864	21.5261	21.6177
Ba 389.178	358.507	359.406	359.245
Be 313.042	5.4550	5.4549	5.4478
Ca 370.602	13477	13516	13489
Cd 226.502	5.4937	5.5083	5.5619
Co 228.615	13.5614	13.6852	13.7708
Cr 267.716	24.1942	24.2748	24.4085
Cu 324.754	69.0511	68.7623	68.2429
Fe 271.441	17174.6	17199.2	17202.2
K 766.491	1973.59	1972.55	1971.52
Mg 279.078	1952.23	1943.11	1950.54
Mn 257.610	5771.11	5792.76	5773.91
Mo 202.032	12.0235	12.1206	12.5809
Na 330.237	688.750	911.480	814.138
Ni 231.604	26.1273	25.1815	25.9944
Pb 220.353	1293.25	1296.92	1290.39
Sb 206.834	5.2140	6.5101	7.1301
Se 196.026	11.3447	11.5363	-1.3093
Sn 189.925	29.3086	29.7451	32.0557
Sr 216.596	100.272	100.746	100.650
Ti 334.941	194.508	194.249	193.956
Tl 190.794	2.1580	4.3821	3.8689
V 292.401	31.7464	31.4341	31.7271
Zn 206.200	596.103	599.005	596.907

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.2976	ppb	0.0563	1.1	484.049
Al 308.215	7183.26	ppb	3.0211	0.0	52542.2
As 188.980	24.1205	ppb	1.5772	6.5	11.0897
B 249.678	21.5101	ppb	0.1165	0.5	427.046
Ba 389.178	359.053	ppb	0.4796	0.1	8143.36
Be 313.042	5.4526	ppb	0.0041	0.1	10092.5
Ca 370.602	13494	ppb	19.96	0.1	45461
Cd 226.502	5.5213	ppb	0.0359	0.6	370.722
Co 228.615	13.6724	ppb	0.1053	0.8	150.641

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	24.2925	ppb	0.1082	0.4	1379.46
Cu 324.754	68.6854	ppb	0.4096	0.6	5870.63
Fe 271.441	17192.0	ppb	15.1677	0.1	27169.0
K 766.491	1972.55	ppb	1.0363	0.1	93421.9
Mg 279.078	1948.63	ppb	4.8504	0.2	5552.98
Mn 257.610	5779.26	ppb	11.7732	0.2	1306637
Mo 202.032	12.2417	ppb	0.2978	2.4	82.8855
Na 330.237	804.789	ppb	111.659	13.9	59.5375
Ni 231.604	25.7677	ppb	0.5120	2.0	78.1480
Pb 220.353	1293.52	ppb	3.2745	0.3	2051.16
Sb 206.834	6.2847	ppb	0.9777	15.6	12.0666
Se 196.026	7.1906	ppb	7.3617	102.4	3.1514
Sn 189.925	30.3698	ppb	1.4762	4.9	16.1168
Sr 216.596	100.556	ppb	0.2506	0.2	1228.39
Ti 334.941	194.238	ppb	0.2760	0.1	57069.5
Tl 190.794	3.4697	ppb	1.1645	33.6	-4.8173
V 292.401	31.6358	ppb	0.1750	0.6	872.119
Zn 206.200	597.338	ppb	1.4983	0.3	633.408

680-110688-a-26-a^10 (Samp) 3/20/2015, 3:52:22 PM Rack 1, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4727u	-0.3646u	-0.6198u
Al 308.215	10977.5	10999.5	11356.9
As 188.980	20.7091	21.8593	24.7892
B 249.678	0.9496u	0.7050u	0.5135u
Ba 389.178	587.885	588.208	608.987
Be 313.042	1.5940	1.5963	1.6509
Ca 370.602	1278	1284	1316
Cd 226.502	-1.9921	-1.8863	-1.4130
Co 228.615	24.0113	24.1970	24.0782
Cr 267.716	44.1597	44.2688	45.8567
Cu 324.754	7.1920	7.0001	7.5826
Fe 271.441	68188.8	68247.0	70561.1
K 766.491	295.330	296.582	305.675
Mg 279.078	776.948	779.061	802.371
Mn 257.610	5993.18	5983.15	6204.39
Mo 202.032	2.0395	1.6866	1.0469
Na 330.237	190.996u	160.178u	122.380u
Ni 231.604	8.5690	9.4029	9.1886
Pb 220.353	30.5023	30.5469	32.8114
Sb 206.834	1.2640	-0.1839	-1.6570u
Se 196.026	-0.4751	-6.2216u	-14.2920u
Sn 189.925	5.0994	2.3793	5.2713
Sr 216.596	19.1151	19.3101	19.7712
Ti 334.941	86.3975	86.2436	89.3165
Tl 190.794	-1.6488u	-0.3580u	1.2230u
V 292.401	83.8700	84.3770	86.8483
Zn 206.200	48.5353	46.3066	50.6165

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4857	ppb	0.1281	26.4	-40.6362
Al 308.215	11111.3	ppb	212.967	1.9	81022.6

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	22.4525	ppb	2.1037	9.4	9.4831
B 249.678	0.7227	ppb	0.2186	30.2	-75.3855
Ba 389.178	595.027	ppb	12.0910	2.0	13550.7
Be 313.042	1.6137	ppb	0.0322	2.0	2678.65
Ca 370.602	1293	ppb	20.40	1.6	3748
Cd 226.502	-1.7638	ppb	0.3084	17.5	339.154
Co 228.615	24.0955	ppb	0.0940	0.4	269.396
Cr 267.716	44.7617	ppb	0.9499	2.1	2508.93
Cu 324.754	7.2582	ppb	0.2968	4.1	1055.69
Fe 271.441	68999.0	ppb	1353.12	2.0	109031
K 766.491	299.196	ppb	5.6459	1.9	14420.2
Mg 279.078	786.127	ppb	14.1077	1.8	2169.02
Mn 257.610	6060.24	ppb	124.937	2.1	1370308
Mo 202.032	1.5910	ppb	0.5032	31.6	12.1457
Na 330.237	157.851	ppb	34.3673	21.8	20.1289
Ni 231.604	9.0535	ppb	0.4330	4.8	30.2594
Pb 220.353	31.2869	ppb	1.3205	4.2	65.1925
Sb 206.834	-0.1923	ppb	1.4605	759.5	4.1720
Se 196.026	-6.9962	ppb	6.9409	99.2	-2.6232
Sn 189.925	4.2500	ppb	1.6223	38.2	-3.1416
Sr 216.596	19.3988	ppb	0.3369	1.7	322.316
Ti 334.941	87.3192	ppb	1.7314	2.0	25660.5
Tl 190.794	-0.2613	ppb	1.4384	550.5	-16.7697
V 292.401	85.0317	ppb	1.5934	1.9	2363.80
Zn 206.200	48.4861	ppb	2.1553	4.4	54.1321

680-110688-a-28-a^10 (Samp) 3/20/2015, 3:57:06 PM

Rack 1, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2869	0.6380	0.2157
Al 308.215	9115.35	9115.66	9128.01
As 188.980	36.3523	36.1624	34.0597
B 249.678	4.0662	3.8559	3.9072
Ba 389.178	363.338	363.004	364.754
Be 313.042	0.9769	0.9753	0.9812
Ca 370.602	5333	5339	5355
Cd 226.502	0.4125	0.2522	0.3391
Co 228.615	7.3051	7.5031	7.4366
Cr 267.716	25.5403	25.4667	25.4939
Cu 324.754	769.268	771.984	775.004
Fe 271.441	22162.0	22120.3	22183.7
K 766.491	857.254	854.897	855.098
Mg 279.078	981.035	977.813	973.574
Mn 257.610	608.614	608.675	610.462
Mo 202.032	2.4031	2.3776	2.6619
Na 330.237	161.319u	9.3916u	265.210
Ni 231.604	14.4937	14.8306	15.5048
Pb 220.353	1949.50	1952.61	1964.20
Sb 206.834	63.0482	65.6620	64.2602
Se 196.026	-0.0251	-1.9237u	-1.7148u
Sn 189.925	85.9975	85.1683	83.3706
Sr 216.596	64.9258	65.6062	65.2466
Ti 334.941	141.208	141.058	141.120

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	0.3984u	2.6669u	0.3160u
V 292.401	34.1297	34.2108	34.0811
Zn 206.200	410.871	411.387	417.807

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3802	ppb	0.2261	59.5	14.1508
Al 308.215	9119.67	ppb	7.2237	0.1	66576.5
As 188.980	35.5248	ppb	1.2723	3.6	19.4884
B 249.678	3.9431	ppb	0.1097	2.8	100.142
Ba 389.178	363.699	ppb	0.9293	0.3	8250.95
Be 313.042	0.9778	ppb	0.0031	0.3	1451.56
Ca 370.602	5342	ppb	11.26	0.2	17802
Cd 226.502	0.3346	ppb	0.0803	24.0	166.607
Co 228.615	7.4149	ppb	0.1008	1.4	79.7555
Cr 267.716	25.5003	ppb	0.0373	0.1	1421.87
Cu 324.754	772.085	ppb	2.8692	0.4	61269.0
Fe 271.441	22155.4	ppb	32.2044	0.1	35011.0
K 766.491	855.750	ppb	1.3068	0.2	40696.0
Mg 279.078	977.474	ppb	3.7420	0.4	2845.47
Mn 257.610	609.250	ppb	1.0498	0.2	137872
Mo 202.032	2.4809	ppb	0.1573	6.3	19.9844
Na 330.237	145.307	ppb	128.659	88.5	26.8760
Ni 231.604	14.9430	ppb	0.5149	3.4	44.7008
Pb 220.353	1955.44	ppb	7.7481	0.4	3093.75
Sb 206.834	64.3235	ppb	1.3080	2.0	95.6841
Se 196.026	-1.2212	ppb	1.0411	85.2	-1.6762
Sn 189.925	84.8455	ppb	1.3429	1.6	56.2815
Sr 216.596	65.2596	ppb	0.3404	0.5	810.701
Ti 334.941	141.129	ppb	0.0754	0.1	41464.8
Tl 190.794	1.1271	ppb	1.3341	118.4	-10.8033
V 292.401	34.1405	ppb	0.0655	0.2	942.659
Zn 206.200	413.355	ppb	3.8640	0.9	438.811

680-110688-a-37-a^10 (Samp) 3/20/2015, 4:01:49 PM Rack 1, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0073	0.1261	-0.1576u
Al 308.215	12131.3	12141.4	12107.3
As 188.980	40.6653	41.4762	43.4002
B 249.678	2.5302u	3.1162u	3.0084u
Ba 389.178	215.790	215.740	215.129
Be 313.042	1.7657	1.7766	1.7720
Ca 370.602	7761	7773	7744
Cd 226.502	-0.3400	-0.4252	-0.4461
Co 228.615	11.0622	10.9164	10.7911
Cr 267.716	44.5590	44.6095	44.3935
Cu 324.754	23.6785	23.7049	23.8699
Fe 271.441	74615.9	74732.8	74506.9
K 766.491	1879.15	1876.15	1870.07
Mg 279.078	1755.27	1748.27	1750.01
Mn 257.610	3447.76	3455.58	3441.03
Mo 202.032	3.8473	3.9709	4.5447
Na 330.237	100.617u	59.0144u	149.239u

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	11.2326	11.0776	11.8808
Pb 220.353	172.062	172.024	168.978
Sb 206.834	2.8605	-1.8703u	-1.3463u
Se 196.026	-6.9385u	-2.7081	-4.1196u
Sn 189.925	7.6949	6.3420	9.0876
Sr 216.596	93.8493	94.9560	94.4800
Ti 334.941	160.048	160.074	159.849
Tl 190.794	3.2254u	4.1724u	3.1207u
V 292.401	98.6974	98.6564	98.2268
Zn 206.200	317.193	314.024	316.059

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0080	ppb	0.1425	1771.1	-15.6853
Al 308.215	12126.7	ppb	17.5534	0.1	88384.1
As 188.980	41.8472	ppb	1.4047	3.4	23.7803
B 249.678	2.8849	ppb	0.3119	10.8	-50.7218
Ba 389.178	215.553	ppb	0.3680	0.2	4923.07
Be 313.042	1.7714	ppb	0.0055	0.3	2986.54
Ca 370.602	7759	ppb	14.31	0.2	25386
Cd 226.502	-0.4037	ppb	0.0562	13.9	432.321
Co 228.615	10.9232	ppb	0.1357	1.2	123.130
Cr 267.716	44.5207	ppb	0.1130	0.3	2486.00
Cu 324.754	23.7511	ppb	0.1037	0.4	2357.14
Fe 271.441	74618.5	ppb	113.008	0.2	117909
K 766.491	1875.12	ppb	4.6248	0.2	88822.0
Mg 279.078	1751.18	ppb	3.6493	0.2	5028.87
Mn 257.610	3448.12	ppb	7.2836	0.2	779819
Mo 202.032	4.1210	ppb	0.3721	9.0	28.1272
Na 330.237	102.957	ppb	45.1580	43.9	12.6562
Ni 231.604	11.3970	ppb	0.4261	3.7	38.1205
Pb 220.353	171.021	ppb	1.7695	1.0	285.234
Sb 206.834	-0.1187	ppb	2.5933	2184.6	4.3327
Se 196.026	-4.5887	ppb	2.1538	46.9	-2.0832
Sn 189.925	7.7082	ppb	1.3729	17.8	-0.5919
Sr 216.596	94.4284	ppb	0.5552	0.6	1227.95
Ti 334.941	159.991	ppb	0.1229	0.1	47014.3
Tl 190.794	3.5062	ppb	0.5794	16.5	-14.8718
V 292.401	98.5269	ppb	0.2607	0.3	2743.59
Zn 206.200	315.759	ppb	1.6059	0.5	337.263

680-110688-a-6-a^10 (Samp) 3/20/2015, 4:06:33 PM Rack 1, Tube 55

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0001u	-0.0033u	-0.0387u
Al 308.215	13736.0	13460.3	13444.9
As 188.980	19.4296	13.9734	23.8561
B 249.678	1.6904u	1.4647u	1.8200u
Ba 389.178	164.142	159.303	160.280
Be 313.042	1.5718	1.5413	1.5443
Ca 370.602	12132	11876	11911
Cd 226.502	-0.5014	-0.6097	-0.7032
Co 228.615	12.4386	11.7193	11.4894
Cr 267.716	51.4696	50.3727	50.3693

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	47.1799	45.8549	46.0875
Fe 271.441	45174.9	44258.9	44236.3
K 766.491	817.096	798.959	797.965
Mg 279.078	4404.26	4313.90	4314.65
Mn 257.610	1586.25	1554.59	1552.25
Mo 202.032	1.2937	1.3330	1.4925
Na 330.237	-23.3543u	121.101u	90.1086u
Ni 231.604	36.7186	37.2390	36.4782
Pb 220.353	174.406	170.903	171.482
Sb 206.834	-2.4782u	5.1392	-1.2400u
Se 196.026	0.7277	-0.2174	6.4340
Sn 189.925	8.3264	9.8676	10.4692
Sr 216.596	23.7986	22.7610	23.0516
Ti 334.941	191.204	187.068	186.666
Tl 190.794	0.3184u	2.4260u	2.3184u
V 292.401	74.8029	72.5432	72.6406
Zn 206.200	244.410	243.275	242.456

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0140	ppb	0.0215	154.0	-18.6016
Al 308.215	13547.1	ppb	163.811	1.2	98671.1
As 188.980	19.0863	ppb	4.9503	25.9	7.1715
B 249.678	1.6584	ppb	0.1798	10.8	2.0853
Ba 389.178	161.242	ppb	2.5588	1.6	3669.22
Be 313.042	1.5525	ppb	0.0168	1.1	2565.93
Ca 370.602	11973	ppb	138.8	1.2	39881
Cd 226.502	-0.6048	ppb	0.1010	16.7	252.417
Co 228.615	11.8824	ppb	0.4952	4.2	132.595
Cr 267.716	50.7372	ppb	0.6343	1.3	2798.25
Cu 324.754	46.3741	ppb	0.7075	1.5	4125.13
Fe 271.441	44556.7	ppb	535.512	1.2	70408.3
K 766.491	804.673	ppb	10.7698	1.3	38284.6
Mg 279.078	4344.27	ppb	51.9506	1.2	12600.9
Mn 257.610	1564.37	ppb	18.9888	1.2	353890
Mo 202.032	1.3731	ppb	0.1053	7.7	11.8354
Na 330.237	62.6185	ppb	76.0501	121.4	19.0396
Ni 231.604	36.8119	ppb	0.3889	1.1	115.102
Pb 220.353	172.264	ppb	1.8776	1.1	284.778
Sb 206.834	0.4737	ppb	4.0876	863.0	4.7554
Se 196.026	2.3148	ppb	3.5985	155.5	0.2985
Sn 189.925	9.5544	ppb	1.1052	11.6	0.7693
Sr 216.596	23.2038	ppb	0.5353	2.3	339.450
Ti 334.941	188.312	ppb	2.5121	1.3	55336.6
Tl 190.794	1.6876	ppb	1.1869	70.3	-13.1486
V 292.401	73.3289	ppb	1.2775	1.7	2042.60
Zn 206.200	243.381	ppb	0.9811	0.4	259.600

680-110688-a-6-aSD (Samp) 3/20/2015, 4:11:17 PM Rack 1, Tube 56

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1752	-0.0816u	0.1495
Al 308.215	2797.65	2874.45	2802.93
As 188.980	1.1647	4.9205	7.6308

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	-1.5546u	-1.7071u	-1.9586u
Ba 389.178	33.9636	34.6662	33.1309
Be 313.042	0.2920	0.2972	0.2991
Ca 370.602	2460	2536	2459
Cd 226.502	-0.0581	-0.0580	-0.2322
Co 228.615	2.9645	2.3234	2.5004
Cr 267.716	10.5775	10.8640	10.4076
Cu 324.754	9.5235	9.8801	9.5573
Fe 271.441	9177.90	9406.48	9156.70
K 766.491	162.525	166.422	163.184
Mg 279.078	900.189	922.418	898.812
Mn 257.610	325.046	333.306	324.467
Mo 202.032	0.7129	0.6668	-0.2655u
Na 330.237	-27.0515u	105.900	-86.1969u
Ni 231.604	8.0836	8.6882	9.0293
Pb 220.353	33.0078	34.4043	38.3832
Sb 206.834	-1.4008u	0.9072	0.2194
Se 196.026	-2.3156u	-2.6965u	-7.8553u
Sn 189.925	1.2267	0.2846	2.2362
Sr 216.596	4.9479	5.1040	4.9419
Ti 334.941	38.8710	39.8086	38.8583
Tl 190.794	-0.6186u	-1.6723u	-1.4451u
V 292.401	15.3164	15.5804	15.4074
Zn 206.200	50.7812	51.8222	51.3102

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0810	ppb	0.1414	174.5	-9.8419
Al 308.215	2825.01	ppb	42.8946	1.5	20953.5
As 188.980	4.5720	ppb	3.2471	71.0	-3.3017
B 249.678	-1.7401	ppb	0.2040	11.7	29.2849
Ba 389.178	33.9202	ppb	0.7686	2.3	737.077
Be 313.042	0.2961	ppb	0.0037	1.2	133.768
Ca 370.602	2485	ppb	44.05	1.8	8289
Cd 226.502	-0.1161	ppb	0.1005	86.6	72.9662
Co 228.615	2.5961	ppb	0.3311	12.8	22.6875
Cr 267.716	10.6164	ppb	0.2307	2.2	611.424
Cu 324.754	9.6536	ppb	0.1969	2.0	1217.60
Fe 271.441	9247.02	ppb	138.496	1.5	14613.6
K 766.491	164.044	ppb	2.0856	1.3	8039.50
Mg 279.078	907.140	ppb	13.2493	1.5	2649.93
Mn 257.610	327.606	ppb	4.9444	1.5	74160.6
Mo 202.032	0.3714	ppb	0.5520	148.7	7.0295
Na 330.237	-2.4496	ppb	98.3830	4016.3	26.9559
Ni 231.604	8.6004	ppb	0.4789	5.6	23.7363
Pb 220.353	35.2651	ppb	2.7891	7.9	66.4234
Sb 206.834	-0.0914	ppb	1.1850	1296.7	2.7786
Se 196.026	-4.2891	ppb	3.0942	72.1	-3.2110
Sn 189.925	1.2492	ppb	0.9760	78.1	-5.3540
Sr 216.596	4.9980	ppb	0.0919	1.8	73.4441
Ti 334.941	39.1793	ppb	0.5451	1.4	11509.4
Tl 190.794	-1.2454	ppb	0.5545	44.5	-11.5665
V 292.401	15.4347	ppb	0.1341	0.9	418.619
Zn 206.200	51.3045	ppb	0.5206	1.0	55.1295

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110688-a-6-aPDS (Samp) 3/20/2015, 4:16:02 PM Rack 1, Tube 57**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	87.6950	89.0106	87.5596
Al 308.215	14714.2	15067.3	14710.7
As 188.980	116.357	123.748	114.982
B 249.678	192.331	197.591	193.581
Ba 389.178	246.942	252.675	247.315
Be 313.042	97.2492	99.6223	97.3223
Ca 370.602	21826	22376	21855
Cd 226.502	95.0915	97.9571	95.4603
Co 228.615	106.877	109.427	107.489
Cr 267.716	148.311	151.857	148.260
Cu 324.754	148.118	150.376	146.804
Fe 271.441	53740.2	55012.6	53801.3
K 766.491	11775.5	12014.6	11755.2
Mg 279.078	13949.1	14319.5	13960.7
Mn 257.610	2578.88	2640.81	2578.22
Mo 202.032	94.7824	98.4022	95.3717
Na 330.237	9122.52	9265.96	9261.22
Ni 231.604	133.394	136.084	135.801
Pb 220.353	268.004	276.554	272.234
Sb 206.834	95.3560	98.2683	97.2934
Se 196.026	95.0277	104.362	105.564
Sn 189.925	102.085	107.211	104.926
Sr 216.596	116.625	119.017	116.232
Ti 334.941	282.931	289.519	282.662
Tl 190.794	24.8406	17.8944	19.2136
V 292.401	174.300	177.685	174.293
Zn 206.200	334.589	343.574	334.503

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	88.0884	ppb	0.8015	0.9	7901.98
Al 308.215	14830.7	ppb	204.880	1.4	107991
As 188.980	118.362	ppb	4.7147	4.0	80.4708
B 249.678	194.501	ppb	2.7482	1.4	3442.38
Ba 389.178	248.977	ppb	3.2078	1.3	5694.34
Be 313.042	98.0646	ppb	1.3495	1.4	188933
Ca 370.602	22019	ppb	309.5	1.4	73632
Cd 226.502	96.1696	ppb	1.5589	1.6	4644.73
Co 228.615	107.931	ppb	1.3310	1.2	1212.58
Cr 267.716	149.476	ppb	2.0623	1.4	8132.17
Cu 324.754	148.433	ppb	1.8063	1.2	12169.8
Fe 271.441	54184.7	ppb	717.590	1.3	85633.5
K 766.491	11848.4	ppb	144.260	1.2	559676
Mg 279.078	14076.5	ppb	210.588	1.5	40842.9
Mn 257.610	2599.30	ppb	35.9477	1.4	587963
Mo 202.032	96.1854	ppb	1.9422	2.0	620.142
Na 330.237	9216.57	ppb	81.4826	0.9	482.600
Ni 231.604	135.093	ppb	1.4782	1.1	423.407
Pb 220.353	272.264	ppb	4.2747	1.6	443.089
Sb 206.834	96.9726	ppb	1.4824	1.5	143.221
Se 196.026	101.651	ppb	5.7677	5.7	44.6402
Sn 189.925	104.740	ppb	2.5679	2.5	70.9529
Sr 216.596	117.291	ppb	1.5072	1.3	1475.37

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	285.038	ppb	3.8836	1.4	83772.9
Tl 190.794	20.6495	ppb	3.6890	17.9	6.8617
V 292.401	175.426	ppb	1.9567	1.1	4905.01
Zn 206.200	337.555	ppb	5.2127	1.5	359.430

680-110688-a-6-b ms (Samp) 3/20/2015, 4:20:46 PM Rack 1, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.2191	5.0832	5.0132
Al 308.215	15375.0	15005.3	15338.4
As 188.980	26.6923	27.7725	22.6154
B 249.678	18.5793	17.5572	17.8591
Ba 389.178	195.442	191.299	194.899
Be 313.042	6.4566	6.3156	6.4332
Ca 370.602	11118	10860	11068
Cd 226.502	5.1796	4.8995	5.1008
Co 228.615	14.4094	14.3583	14.3518
Cr 267.716	46.8628	46.0316	46.9439
Cu 324.754	56.4870	54.5541	56.1799
Fe 271.441	28595.3	27933.3	28493.9
K 766.491	1514.81	1478.60	1515.13
Mg 279.078	4332.30	4220.04	4310.15
Mn 257.610	1791.63	1747.97	1781.83
Mo 202.032	10.4471	10.4784	10.6432
Na 330.237	647.008	693.347	802.647
Ni 231.604	36.0944	35.1301	34.5685
Pb 220.353	196.138	190.837	197.046
Sb 206.834	2.4121	3.6268	4.0295
Se 196.026	5.9837	14.7397	-1.8334u
Sn 189.925	28.4616	27.2530	32.4867
Sr 216.596	30.4681	29.4400	29.6954
Ti 334.941	149.457	146.141	149.312
Tl 190.794	5.3010	3.8361	7.2979
V 292.401	56.3497	54.7655	55.9080
Zn 206.200	249.216	240.875	246.573

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.1052	ppb	0.1047	2.1	445.428
Al 308.215	15239.6	ppb	203.700	1.3	110933
As 188.980	25.6934	ppb	2.7198	10.6	12.1722
B 249.678	17.9985	ppb	0.5251	2.9	336.206
Ba 389.178	193.880	ppb	2.2515	1.2	4398.94
Be 313.042	6.4018	ppb	0.0756	1.2	11928.1
Ca 370.602	11015	ppb	136.6	1.2	36846
Cd 226.502	5.0600	ppb	0.1445	2.9	413.517
Co 228.615	14.3732	ppb	0.0316	0.2	158.403
Cr 267.716	46.6128	ppb	0.5049	1.1	2569.08
Cu 324.754	55.7403	ppb	1.0387	1.9	4855.86
Fe 271.441	28340.9	ppb	356.567	1.3	44785.7
K 766.491	1502.85	ppb	21.0019	1.4	71246.3
Mg 279.078	4287.50	ppb	59.4564	1.4	12430.8
Mn 257.610	1773.81	ppb	22.9091	1.3	401187
Mo 202.032	10.5229	ppb	0.1054	1.0	71.3314

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	714.334	ppb	79.9141	11.2	56.3900
Ni 231.604	35.2643	ppb	0.7718	2.2	108.844
Pb 220.353	194.674	ppb	3.3536	1.7	319.034
Sb 206.834	3.3561	ppb	0.8420	25.1	8.3847
Se 196.026	6.2967	ppb	8.2910	131.7	1.9670
Sn 189.925	29.4004	ppb	2.7403	9.3	15.4020
Sr 216.596	29.8678	ppb	0.5353	1.8	397.463
Ti 334.941	148.303	ppb	1.8741	1.3	43579.7
Tl 190.794	5.4784	ppb	1.7377	31.7	-6.3575
V 292.401	55.6744	ppb	0.8175	1.5	1547.18
Zn 206.200	245.555	ppb	4.2625	1.7	261.348

680-110688-a-6-c msd (Samp) 3/20/2015, 4:25:31 PM Rack 1, Tube 59
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.8266	4.6957	5.0776
Al 308.215	14738.2	14611.7	14509.2
As 188.980	25.3585	26.5422	24.3214
B 249.678	15.7464	15.9060	15.3733
Ba 389.178	430.655	427.753	425.943
Be 313.042	6.1585	6.1153	6.0648
Ca 370.602	20458	20320	20188
Cd 226.502	4.8946	4.8989	4.7982
Co 228.615	21.3310	21.1301	21.4554
Cr 267.716	54.1701	53.8048	53.4185
Cu 324.754	53.6432	53.1944	53.4717
Fe 271.441	32316.8	32052.1	31813.6
K 766.491	1404.74	1400.09	1395.42
Mg 279.078	9416.79	9351.55	9282.08
Mn 257.610	5623.43	5579.63	5538.94
Mo 202.032	10.5477	10.1551	10.1437
Na 330.237	557.046	380.612	640.493
Ni 231.604	72.1419	72.0067	71.0350
Pb 220.353	212.829	205.068	207.732
Sb 206.834	4.7193	3.8607	6.1960
Se 196.026	13.3176	8.7343	8.9256
Sn 189.925	26.7460	29.5291	26.3614
Sr 216.596	33.1719	33.6885	32.6801
Ti 334.941	151.218	149.910	149.071
Tl 190.794	5.5865	1.1000u	4.4329
V 292.401	62.3843	61.6349	61.3541
Zn 206.200	260.526	263.264	255.028

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.8666	ppb	0.1940	4.0	443.899
Al 308.215	14619.7	ppb	114.703	0.8	106442
As 188.980	25.4074	ppb	1.1112	4.4	11.9336
B 249.678	15.6753	ppb	0.2734	1.7	285.186
Ba 389.178	428.117	ppb	2.3768	0.6	9742.20
Be 313.042	6.1129	ppb	0.0469	0.8	11372.4
Ca 370.602	20322	ppb	135.0	0.7	68213
Cd 226.502	4.8639	ppb	0.0570	1.2	426.094
Co 228.615	21.3055	ppb	0.1642	0.8	236.647

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	53.7978	ppb	0.3758	0.7	2976.79
Cu 324.754	53.4364	ppb	0.2264	0.4	4676.05
Fe 271.441	32060.8	ppb	251.710	0.8	50664.5
K 766.491	1400.08	ppb	4.6586	0.3	66394.7
Mg 279.078	9350.14	ppb	67.3666	0.7	27050.7
Mn 257.610	5580.67	ppb	42.2508	0.8	1261846
Mo 202.032	10.2822	ppb	0.2300	2.2	69.6135
Na 330.237	526.050	ppb	132.684	25.2	45.6483
Ni 231.604	71.7279	ppb	0.6038	0.8	223.315
Pb 220.353	208.543	ppb	3.9432	1.9	341.933
Sb 206.834	4.9253	ppb	1.1812	24.0	10.8076
Se 196.026	10.3258	ppb	2.5927	25.1	4.6268
Sn 189.925	27.5455	ppb	1.7286	6.3	14.0343
Sr 216.596	33.1801	ppb	0.5043	1.5	444.316
Ti 334.941	150.067	ppb	1.0820	0.7	44107.1
Tl 190.794	3.7065	ppb	2.3298	62.9	-6.9179
V 292.401	61.7911	ppb	0.5326	0.9	1718.64
Zn 206.200	259.606	ppb	4.1944	1.6	276.337

680-110688-a-7-a^10 (Samp) 3/20/2015, 4:30:16 PM Rack 1, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7093u	-0.3981u	-0.3275u
Al 308.215	13757.3	13743.3	13454.6
As 188.980	18.6515	13.6527	13.9998
B 249.678	-0.3608u	-0.2435u	-0.0204u
Ba 389.178	284.058	284.513	277.869
Be 313.042	1.2569	1.2538	1.2329
Ca 370.602	3439	3451	3368
Cd 226.502	-0.0501	0.0122	-0.1263
Co 228.615	16.9337	16.1657	15.6310
Cr 267.716	25.0273	24.7524	24.3018
Cu 324.754	18.2037	18.3514	17.7016
Fe 271.441	25521.0	25544.7	25011.0
K 766.491	697.633	698.268	683.788
Mg 279.078	1660.51	1657.99	1620.49
Mn 257.610	3836.84	3823.26	3753.51
Mo 202.032	1.6895	1.3861	1.4624
Na 330.237	172.092	90.2279u	88.5789u
Ni 231.604	12.0996	12.1976	11.6219
Pb 220.353	85.0015	81.8992	82.2407
Sb 206.834	0.3746	1.2309	-3.2424u
Se 196.026	-2.3223	-1.8148	1.5182
Sn 189.925	5.9464	2.0334	7.6625
Sr 216.596	13.2523	13.0000	12.9136
Ti 334.941	110.655	110.625	108.174
Tl 190.794	0.3481u	2.1092	2.0800
V 292.401	46.9457	46.9883	46.1038
Zn 206.200	144.914	142.930	139.326

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4783	ppb	0.2032	42.5	-44.2095
Al 308.215	13651.7	ppb	170.846	1.3	99423.5

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	15.4347	ppb	2.7913	18.1	4.6118
B 249.678	-0.2082	ppb	0.1729	83.0	16.5683
Ba 389.178	282.147	ppb	3.7118	1.3	6399.28
Be 313.042	1.2478	ppb	0.0130	1.0	1973.07
Ca 370.602	3419	ppb	44.74	1.3	11376
Cd 226.502	-0.0547	ppb	0.0694	126.8	167.482
Co 228.615	16.2435	ppb	0.6548	4.0	178.646
Cr 267.716	24.6939	ppb	0.3663	1.5	1395.23
Cu 324.754	18.0856	ppb	0.3406	1.9	1888.72
Fe 271.441	25358.9	ppb	301.520	1.2	40074.0
K 766.491	693.229	ppb	8.1827	1.2	33023.1
Mg 279.078	1646.33	ppb	22.4138	1.4	4715.89
Mn 257.610	3804.54	ppb	44.7110	1.2	860239
Mo 202.032	1.5127	ppb	0.1578	10.4	13.6119
Na 330.237	116.966	ppb	47.7476	40.8	27.8864
Ni 231.604	11.9730	ppb	0.3080	2.6	35.6591
Pb 220.353	83.0471	ppb	1.7011	2.0	143.345
Sb 206.834	-0.5456	ppb	2.3744	435.2	2.5946
Se 196.026	-0.8730	ppb	2.0863	239.0	-0.7876
Sn 189.925	5.2141	ppb	2.8851	55.3	-2.4307
Sr 216.596	13.0553	ppb	0.1760	1.3	190.826
Ti 334.941	109.818	ppb	1.4236	1.3	32267.3
Tl 190.794	1.5124	ppb	1.0084	66.7	-9.2001
V 292.401	46.6793	ppb	0.4988	1.1	1296.30
Zn 206.200	142.390	ppb	2.8329	2.0	152.079

Cont Calib Verif (CCV) 3/20/2015, 4:38:10 PM Rack 2, Tube 1
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	499.336	500.597	498.607
Al 308.215	4947.04	4952.63	4952.31
As 188.980	501.901	510.698	505.857
B 249.678	495.251	499.024	499.541
Ba 389.178	4940.84	4945.08	4945.33
Be 313.042	498.466	498.703	498.112
Ca 370.602	5033	5043	5031
Cd 226.502	504.392	505.926	505.695
Co 228.615	506.407	505.535	505.394
Cr 267.716	5069.14	5073.92	5073.58
Cu 324.754	5175.78	5223.60	5221.63
Fe 271.441	4978.78	4973.73	4978.89
K 766.491	10910.1	10892.2	10911.6
Mg 279.078	5012.53	5027.81	5013.91
Mn 257.610	5079.47	5079.73	5074.47
Mo 202.032	495.570	497.241	497.328
Na 330.237	7599.91	7538.28	7539.85
Ni 231.604	2547.92	2541.36	2550.86
Pb 220.353	500.122	501.987	503.251
Sb 206.834	1008.38	1016.27	1017.93
Se 196.026	5124.62	5141.20	5097.96
Sn 189.925	4931.88	4971.81	4980.40
Sr 216.596	2455.01	2465.59	2461.36
Ti 334.941	489.808	490.411	490.751

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	5115.89	5137.18	5103.13
V 292.401	4977.92	4982.71	4985.65
Zn 206.200	2484.90	2504.11	2476.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.513	ppb	1.0066	0.2	44838.2	99.90262
Al 308.215	4950.66	ppb	3.1349	0.1	37079.3	99.01318
As 188.980	506.152	ppb	4.4059	0.9	367.414	101.23036
B 249.678	497.939	ppb	2.3422	0.5	9028.40	99.58771
Ba 389.178	4943.75	ppb	2.5192	0.1	112470	98.87501
Be 313.042	498.427	ppb	0.2977	0.1	962281	99.68536
Ca 370.602	5036	ppb	6.601	0.1	17347	100.71613
Cd 226.502	505.338	ppb	0.8271	0.2	22704.0	101.06757
Co 228.615	505.779	ppb	0.5485	0.1	5682.96	101.15575
Cr 267.716	5072.22	ppb	2.6656	0.1	273601	101.44431
Cu 324.754	5207.00	ppb	27.0560	0.5	410478	104.14010
Fe 271.441	4977.13	ppb	2.9487	0.1	7967.10	99.54266
K 766.491	10904.6	ppb	10.7661	0.1	515118	109.04639
Mg 279.078	5018.08	ppb	8.4550	0.2	14484.0	100.36161
Mn 257.610	5077.89	ppb	2.9626	0.1	1148065	101.55773
Mo 202.032	496.713	ppb	0.9910	0.2	3189.37	99.34264
Na 330.237	7559.35	ppb	35.1365	0.5	384.634	100.79128
Ni 231.604	2546.71	ppb	4.8598	0.2	7968.89	101.86858
Pb 220.353	501.787	ppb	1.5738	0.3	805.394	100.35733
Sb 206.834	1014.19	ppb	5.0996	0.5	1517.45	101.41942
Se 196.026	5121.26	ppb	21.8144	0.4	2269.60	102.42522
Sn 189.925	4961.36	ppb	25.8914	0.5	3651.74	99.22720
Sr 216.596	2460.65	ppb	5.3239	0.2	29320.0	98.42617
Ti 334.941	490.323	ppb	0.4774	0.1	144065	98.06470
Tl 190.794	5118.74	ppb	17.2002	0.3	5638.45	102.37471
V 292.401	4982.09	ppb	3.9017	0.1	140667	99.64188
Zn 206.200	2488.41	ppb	14.2715	0.6	2624.97	99.53645

Cont Calib Blank (CCB) 3/20/2015, 4:42:54 PM Rack 2, Tube 2
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0375u	0.0628	-0.1426u
Al 308.215	-0.2468u	-2.8941u	0.0332
As 188.980	-2.2975u	0.8213	0.9158
B 249.678	4.0143	3.5904	2.6152
Ba 389.178	0.4375	0.6330	-0.0062u
Be 313.042	0.0140	0.0135	0.0086
Ca 370.602	1.190	4.826	2.292
Cd 226.502	-0.0674u	-0.1229u	0.0429
Co 228.615	-0.0081u	0.3354	-0.0913u
Cr 267.716	0.1430	0.0103	0.3196
Cu 324.754	0.2651	0.2138	0.0457
Fe 271.441	5.1743	5.2966	-1.2677u
K 766.491	-0.2730u	-0.3790u	-0.6843u
Mg 279.078	-2.5459u	1.1696	-1.4420u
Mn 257.610	0.1388	0.1061	0.1060
Mo 202.032	0.6400	-0.1040u	0.5234
Na 330.237	59.3247	8.0677	316.781

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	1.4078	0.0861	0.7086
Pb 220.353	-0.0703u	0.7067	0.3343
Sb 206.834	0.0073	0.8930	0.6882
Se 196.026	-5.0655u	-3.0334u	-6.4810u
Sn 189.925	0.4611	0.2181	0.7585
Sr 216.596	0.2271	0.3215	0.3650
Ti 334.941	0.1371	0.0915	0.0930
Tl 190.794	-0.6390u	-0.9837u	1.1730
V 292.401	0.4270	0.2924	0.3573
Zn 206.200	-0.6566u	0.2069	1.0923

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0391	ppb	0.1027	262.7	-20.6083	-0.03910
Al 308.215	-1.0359	ppb	1.6153	155.9	469.340	-1.03590
As 188.980	-0.1868	ppb	1.8285	978.9	-6.7528	-0.18680
B 249.678	3.4066	ppb	0.7174	21.1	144.762	3.40662
Ba 389.178	0.3548	ppb	0.3275	92.3	-35.8418	0.35479
Be 313.042	0.0120	ppb	0.0030	24.7	-416.292	0.01204
Ca 370.602	2.769	ppb	1.864	67.3	24.94	2.76885
Cd 226.502	-0.0491	ppb	0.0844	171.8	23.3929	-0.04913
Co 228.615	0.0787	ppb	0.2262	287.5	-7.0600	0.07869
Cr 267.716	0.1576	ppb	0.1552	98.4	41.3296	0.15762
Cu 324.754	0.1749	ppb	0.1148	65.6	467.036	0.17486
Fe 271.441	3.0677	ppb	3.7551	122.4	6.7606	3.06773
K 766.491	-0.4454	ppb	0.2135	47.9	273.742	-0.44545
Mg 279.078	-0.9394	ppb	1.9081	203.1	20.9180	-0.93940
Mn 257.610	0.1170	ppb	0.0189	16.1	89.7798	0.11698
Mo 202.032	0.3531	ppb	0.4002	113.3	7.3370	0.35312
Na 330.237	128.058	ppb	165.436	129.2	36.5546	128.05765
Ni 231.604	0.7342	ppb	0.6612	90.1	-1.6848	0.73420
Pb 220.353	0.3235	ppb	0.3886	120.1	10.7164	0.32352
Sb 206.834	0.5295	ppb	0.4637	87.6	3.3633	0.52951
Se 196.026	-4.8600	ppb	1.7330	35.7	-3.6171	-4.85996
Sn 189.925	0.4792	ppb	0.2707	56.5	-5.9217	0.47923
Sr 216.596	0.3045	ppb	0.0705	23.1	4.7299	0.30455
Ti 334.941	0.1072	ppb	0.0259	24.2	26.9252	0.10717
Tl 190.794	-0.1499	ppb	1.1585	772.8	-9.1067	-0.14991
V 292.401	0.3589	ppb	0.0673	18.8	-4.3059	0.35892
Zn 206.200	0.2142	ppb	0.8745	408.2	0.7479	0.21423

680-110688-a-11-a^10 (Samp) 3/20/2015, 4:47:37 PM

Rack 2, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.6750	3.3184	3.8043
Al 308.215	14308.2	14312.0	14302.3
As 188.980	44.9728	44.7612	43.7690
B 249.678	8.4665u	8.4899u	8.5993u
Ba 389.178	282.266	282.641	282.738
Be 313.042	1.6801	1.6799	1.6884
Ca 370.602	10569	10589	10550
Cd 226.502	3.9078	3.9381	3.9340
Co 228.615	12.4765	12.8456	12.0450
Cr 267.716	64.5159	64.8621	64.7606

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	32.7389	32.9375	33.4213
Fe 271.441	74717.7	74833.1	74470.1
K 766.491	1345.90	1349.29	1347.95
Mg 279.078	3012.81	3014.34	3009.72
Mn 257.610	6390.67	6380.60	6377.60
Mo 202.032	2.5109	2.3273	2.7221
Na 330.237	123.308u	161.318u	107.250u
Ni 231.604	14.1068	13.4929	13.1288
Pb 220.353	751.513	745.021	750.690
Sb 206.834	1.9179	-1.8764u	2.4870
Se 196.026	1.1810	4.9571	-2.5402
Sn 189.925	53.8355	52.7368	49.2271
Sr 216.596	36.3374	36.4625	36.4493
Ti 334.941	187.271	187.282	186.833
Tl 190.794	8.9025	5.7855u	4.9329u
V 292.401	80.9570	81.1969	80.5252
Zn 206.200	1395.67	1399.48	1386.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.5992	ppb	0.2516	7.0	326.656
Al 308.215	14307.5	ppb	4.8838	0.0	104186
As 188.980	44.5010	ppb	0.6427	1.4	25.7438
B 249.678	8.5186	ppb	0.0709	0.8	50.7585
Ba 389.178	282.549	ppb	0.2494	0.1	6449.91
Be 313.042	1.6828	ppb	0.0049	0.3	2814.88
Ca 370.602	10570	ppb	19.36	0.2	34940
Cd 226.502	3.9266	ppb	0.0164	0.4	625.716
Co 228.615	12.4557	ppb	0.4007	3.2	140.967
Cr 267.716	64.7128	ppb	0.1780	0.3	3589.52
Cu 324.754	33.0326	ppb	0.3510	1.1	3088.25
Fe 271.441	74673.6	ppb	185.475	0.2	117996
K 766.491	1347.71	ppb	1.7059	0.1	63922.3
Mg 279.078	3012.29	ppb	2.3529	0.1	8626.13
Mn 257.610	6382.96	ppb	6.8459	0.1	1443300
Mo 202.032	2.5201	ppb	0.1976	7.8	17.8708
Na 330.237	130.625	ppb	27.7668	21.3	1.1559
Ni 231.604	13.5762	ppb	0.4943	3.6	44.9312
Pb 220.353	749.075	ppb	3.5347	0.5	1196.92
Sb 206.834	0.8428	ppb	2.3721	281.4	6.0123
Se 196.026	1.1993	ppb	3.7486	312.6	1.1291
Sn 189.925	51.9332	ppb	2.4070	4.6	32.0151
Sr 216.596	36.4164	ppb	0.0687	0.2	535.971
Ti 334.941	187.129	ppb	0.2558	0.1	54989.9
Tl 190.794	6.5403	ppb	2.0897	32.0	-10.0297
V 292.401	80.8930	ppb	0.3404	0.4	2244.15
Zn 206.200	1393.94	ppb	6.5868	0.5	1478.58

680-110688-a-12-a^10 (Samp) 3/20/2015, 4:52:21 PM Rack 2, Tube 4

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.2640	10.1140	9.6703
Al 308.215	15083.4	15450.4	15062.0
As 188.980	62.3581	62.8124	58.6696

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	19.3659	19.8391	19.5317
Ba 389.178	569.651	583.092	567.548
Be 313.042	1.7765	1.8111	1.7731
Ca 370.602	21444	21960	21398
Cd 226.502	12.6634	13.2075	12.5542
Co 228.615	7.7594	8.0240	6.5405
Cr 267.716	37.3400	38.2716	37.6220
Cu 324.754	48.5128	49.6815	48.7405
Fe 271.441	66191.6	67874.3	66214.7
K 766.491	2662.86	2732.76	2656.98
Mg 279.078	5231.50	5352.80	5225.19
Mn 257.610	13279.0	13587.8	13311.6
Mo 202.032	5.6911	5.4145	5.7209
Na 330.237	219.106u	151.756u	378.166u
Ni 231.604	12.0246	13.8018	12.9717
Pb 220.353	1500.32	1537.12	1494.66
Sb 206.834	3.5784	2.7084	-0.2062
Se 196.026	9.6939	-5.8663	1.9394
Sn 189.925	70.8339	66.0921	65.5641
Sr 216.596	84.5370	86.1729	84.3417
Ti 334.941	282.332	289.634	282.232
Tl 190.794	7.1648	5.2335	11.1103
V 292.401	56.0353	57.8083	56.2054
Zn 206.200	2968.22	3054.18	2979.14

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.0161	ppb	0.3087	3.1	941.401
Al 308.215	15198.6	ppb	218.308	1.4	110640
As 188.980	61.2800	ppb	2.2721	3.7	38.2057
B 249.678	19.5789	ppb	0.2401	1.2	268.997
Ba 389.178	573.430	ppb	8.4328	1.5	13066.9
Be 313.042	1.7869	ppb	0.0210	1.2	3015.98
Ca 370.602	21601	ppb	311.7	1.4	72394
Cd 226.502	12.8084	ppb	0.3499	2.7	978.900
Co 228.615	7.4413	ppb	0.7913	10.6	85.9448
Cr 267.716	37.7445	ppb	0.4778	1.3	2165.37
Cu 324.754	48.9783	ppb	0.6196	1.3	4340.91
Fe 271.441	66760.2	ppb	964.939	1.4	105492
K 766.491	2684.20	ppb	42.1557	1.6	127020
Mg 279.078	5269.83	ppb	71.9225	1.4	15028.1
Mn 257.610	13392.8	ppb	169.638	1.3	3027987
Mo 202.032	5.6088	ppb	0.1690	3.0	38.0778
Na 330.237	249.676	ppb	116.260	46.6	-10.1375
Ni 231.604	12.9327	ppb	0.8892	6.9	42.2522
Pb 220.353	1510.70	ppb	23.0541	1.5	2398.20
Sb 206.834	2.0269	ppb	1.9822	97.8	7.1766
Se 196.026	1.9223	ppb	7.7801	404.7	2.9300
Sn 189.925	67.4967	ppb	2.9021	4.3	43.4901
Sr 216.596	85.0172	ppb	1.0056	1.2	1110.21
Ti 334.941	284.733	ppb	4.2447	1.5	83669.8
Tl 190.794	7.8362	ppb	2.9954	38.2	-3.8421
V 292.401	56.6830	ppb	0.9782	1.7	1563.28
Zn 206.200	3000.51	ppb	46.7957	1.6	3179.09

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110688-a-14-a^10 (Samp) **3/20/2015, 4:57:05 PM** **Rack 2, Tube 5****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3826	0.2422	0.4237
Al 308.215	7926.18	7946.70	7898.70
As 188.980	13.6743	12.3589	10.1783
B 249.678	2.8933	2.7483	2.8208
Ba 389.178	318.600	320.481	318.596
Be 313.042	0.6144	0.6172	0.6193
Ca 370.602	4212	4231	4213
Cd 226.502	0.0773	0.1927	0.2776
Co 228.615	12.3418	11.5977	12.0580
Cr 267.716	10.7141	11.2243	10.6521
Cu 324.754	37.5789	37.5000	37.0256
Fe 271.441	14174.9	14223.3	14147.5
K 766.491	2707.24	2715.60	2694.41
Mg 279.078	1659.14	1663.69	1655.53
Mn 257.610	8847.64	8890.85	8813.05
Mo 202.032	4.1135	3.8739	4.1400
Na 330.237	453.905	253.239	467.387
Ni 231.604	15.0779	15.5677	14.9133
Pb 220.353	102.929	107.670	102.745
Sb 206.834	1.6456	3.2223	2.9213
Se 196.026	-3.3370	2.6715	-7.2988u
Sn 189.925	7.6581	8.3560	5.5562
Sr 216.596	60.8502	60.2901	60.7490
Ti 334.941	163.452	164.099	163.021
Tl 190.794	-6.3454u	-1.0926	-4.3824u
V 292.401	19.8341	19.9290	19.9690
Zn 206.200	768.411	769.117	762.932

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3495	ppb	0.0952	27.2	58.0016
Al 308.215	7923.86	ppb	24.0840	0.3	57907.3
As 188.980	12.0705	ppb	1.7658	14.6	2.2053
B 249.678	2.8208	ppb	0.0725	2.6	98.9733
Ba 389.178	319.226	ppb	1.0868	0.3	7234.06
Be 313.042	0.6170	ppb	0.0025	0.4	751.486
Ca 370.602	4219	ppb	10.58	0.3	14379
Cd 226.502	0.1825	ppb	0.1005	55.1	114.173
Co 228.615	11.9992	ppb	0.3755	3.1	131.197
Cr 267.716	10.8635	ppb	0.3140	2.9	668.600
Cu 324.754	37.3681	ppb	0.2993	0.8	3402.64
Fe 271.441	14181.9	ppb	38.3597	0.3	22412.4
K 766.491	2705.75	ppb	10.6713	0.4	128037
Mg 279.078	1659.45	ppb	4.0849	0.2	4645.35
Mn 257.610	8850.52	ppb	38.9774	0.4	2000936
Mo 202.032	4.0425	ppb	0.1466	3.6	30.3808
Na 330.237	391.511	ppb	119.936	30.6	37.1895
Ni 231.604	15.1863	ppb	0.3404	2.2	44.7605
Pb 220.353	104.448	ppb	2.7919	2.7	177.396
Sb 206.834	2.5964	ppb	0.8371	32.2	6.6773
Se 196.026	-2.6548	ppb	5.0200	189.1	-0.5612
Sn 189.925	7.1901	ppb	1.4574	20.3	-0.9737
Sr 216.596	60.6298	ppb	0.2985	0.5	744.595

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	163.524	ppb	0.5426	0.3	48044.8
Tl 190.794	-3.9401	ppb	2.6542	67.4	-10.9270
V 292.401	19.9107	ppb	0.0693	0.3	543.534
Zn 206.200	766.820	ppb	3.3852	0.4	812.743

680-110688-a-15-a^10 (Samp) **3/20/2015, 5:01:49 PM** **Rack 2, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5236u	-1.0610u	-0.6079u
Al 308.215	18444.1	18443.9	18422.9
As 188.980	13.9048	21.3999	17.6997
B 249.678	-0.0113u	0.2425u	0.6772u
Ba 389.178	694.592	694.707	693.632
Be 313.042	1.8505	1.8484	1.8506
Ca 370.602	3347	3332	3326
Cd 226.502	-1.5201	-1.3659	-1.3807
Co 228.615	28.4460	28.3232	28.2492
Cr 267.716	39.4876	39.5428	39.5594
Cu 324.754	7.3702	7.3460	7.2265
Fe 271.441	56464.1	56498.3	56389.0
K 766.491	912.688	911.140	908.663
Mg 279.078	1999.89	2002.68	1995.04
Mn 257.610	4827.60	4819.40	4823.28
Mo 202.032	1.6971	2.3692	2.0866
Na 330.237	80.5936u	117.404u	370.457
Ni 231.604	11.8912	11.4064	12.2958
Pb 220.353	93.0823	91.9671	92.8688
Sb 206.834	1.1325	-2.3441u	-1.7076u
Se 196.026	-6.8086u	-2.1538	-4.3806u
Sn 189.925	9.6429	5.0729	6.4351
Sr 216.596	29.6495	30.0839	30.3135
Ti 334.941	51.4350	51.2725	51.3046
Tl 190.794	2.2007u	1.0519u	3.5889u
V 292.401	87.5788	87.3682	87.2498
Zn 206.200	49.0544	49.1428	50.5066

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7308	ppb	0.2890	39.5	-67.4834
Al 308.215	18437.0	ppb	12.1883	0.1	134112
As 188.980	17.6681	ppb	3.7477	21.2	6.0369
B 249.678	0.3028	ppb	0.3482	115.0	-51.6586
Ba 389.178	694.310	ppb	0.5904	0.1	15802.5
Be 313.042	1.8499	ppb	0.0013	0.1	3136.81
Ca 370.602	3335	ppb	11.10	0.3	10714
Cd 226.502	-1.4222	ppb	0.0851	6.0	283.085
Co 228.615	28.3395	ppb	0.0994	0.4	315.497
Cr 267.716	39.5299	ppb	0.0376	0.1	2214.73
Cu 324.754	7.3142	ppb	0.0769	1.1	1054.25
Fe 271.441	56450.5	ppb	55.9317	0.1	89203.7
K 766.491	910.831	ppb	2.0302	0.2	43296.4
Mg 279.078	1999.20	ppb	3.8649	0.2	5716.42
Mn 257.610	4823.43	ppb	4.1029	0.1	1090676
Mo 202.032	2.0509	ppb	0.3375	16.5	15.6526

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	189.485	ppb	157.804	83.3	24.8926
Ni 231.604	11.8645	ppb	0.4453	3.8	37.9703
Pb 220.353	92.6394	ppb	0.5919	0.6	160.716
Sb 206.834	-0.9731	ppb	1.8510	190.2	2.7414
Se 196.026	-4.4477	ppb	2.3282	52.3	-1.8760
Sn 189.925	7.0503	ppb	2.3463	33.3	-1.0770
Sr 216.596	30.0156	ppb	0.3372	1.1	433.498
Ti 334.941	51.3374	ppb	0.0860	0.2	15089.9
Tl 190.794	2.2805	ppb	1.2704	55.7	-12.6155
V 292.401	87.3990	ppb	0.1667	0.2	2435.51
Zn 206.200	49.5679	ppb	0.8141	1.6	54.8562

680-110688-a-20-a^10 (Samp) 3/20/2015, 5:06:33 PM Rack 2, Tube 7
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8752u	-0.9377u	-0.7029u
Al 308.215	14151.6	14141.9	14106.6
As 188.980	23.3906	16.2415	22.1239
B 249.678	-0.4411u	-0.4138u	-0.1211u
Ba 389.178	349.705	349.003	349.028
Be 313.042	2.0795	2.0820	2.0811
Ca 370.602	2806	2804	2795
Cd 226.502	-1.4488	-1.5521	-1.5649
Co 228.615	31.6357	31.5893	31.9608
Cr 267.716	43.3098	43.1421	42.8659
Cu 324.754	10.2204	9.9311	9.9263
Fe 271.441	57918.8	58032.4	57815.6
K 766.491	684.546	685.390	683.761
Mg 279.078	1121.70	1118.43	1115.02
Mn 257.610	4057.54	4046.93	4036.27
Mo 202.032	1.4325	2.0596	1.4135
Na 330.237	71.2499u	50.7069u	192.119u
Ni 231.604	15.3919	14.7653	15.3862
Pb 220.353	41.1006	38.0594	37.7397
Sb 206.834	-1.6160u	-1.0814	4.4033
Se 196.026	-10.5683u	-2.4868	4.1473
Sn 189.925	4.3778	5.2650	1.2629
Sr 216.596	23.4239	24.0789	23.4170
Ti 334.941	43.5620	43.5180	43.4961
Tl 190.794	-0.1682u	-0.8647u	-2.2083u
V 292.401	66.7031	66.1719	66.3091
Zn 206.200	61.3432	64.4566	60.6440

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8386	ppb	0.1216	14.5	-81.5223
Al 308.215	14133.4	ppb	23.6847	0.2	102921
As 188.980	20.5853	ppb	3.8148	18.5	8.1839
B 249.678	-0.3253	ppb	0.1774	54.5	-66.3506
Ba 389.178	349.245	ppb	0.3981	0.1	7950.35
Be 313.042	2.0809	ppb	0.0013	0.1	3581.51
Ca 370.602	2802	ppb	5.585	0.2	8875
Cd 226.502	-1.5220	ppb	0.0637	4.2	286.473
Co 228.615	31.7286	ppb	0.2024	0.6	353.547

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	43.1059	ppb	0.2242	0.5	2404.68
Cu 324.754	10.0259	ppb	0.1684	1.7	1268.76
Fe 271.441	57922.3	ppb	108.429	0.2	91529.6
K 766.491	684.566	ppb	0.8146	0.1	32614.1
Mg 279.078	1118.38	ppb	3.3393	0.3	3177.11
Mn 257.610	4046.92	ppb	10.6350	0.3	915129
Mo 202.032	1.6352	ppb	0.3677	22.5	12.9435
Na 330.237	104.692	ppb	76.4076	73.0	20.0681
Ni 231.604	15.1812	ppb	0.3601	2.4	48.4639
Pb 220.353	38.9666	ppb	1.8550	4.8	76.1172
Sb 206.834	0.5687	ppb	3.3317	585.9	5.0314
Se 196.026	-2.9693	ppb	7.3697	248.2	-1.3807
Sn 189.925	3.6353	ppb	2.1018	57.8	-3.5949
Sr 216.596	23.6399	ppb	0.3802	1.6	358.875
Ti 334.941	43.5254	ppb	0.0335	0.1	12793.0
Tl 190.794	-1.0804	ppb	1.0370	96.0	-16.9566
V 292.401	66.3947	ppb	0.2758	0.4	1840.34
Zn 206.200	62.1479	ppb	2.0297	3.3	68.2142

680-110688-a-36-a^10 (Samp) 3/20/2015, 5:11:17 PM Rack 2, Tube 8
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4551	0.2432	0.4444
Al 308.215	13549.1	13553.0	13539.1
As 188.980	36.3840	41.9194	39.5103
B 249.678	5.8486u	5.7768u	6.1433u
Ba 389.178	314.501	315.468	314.545
Be 313.042	1.5698	1.5605	1.5622
Ca 370.602	15525	15466	15420
Cd 226.502	2.7381	2.7293	2.8479
Co 228.615	14.2391	14.4539	14.0823
Cr 267.716	35.1082	34.8078	34.6762
Cu 324.754	47.0166	47.7105	47.1838
Fe 271.441	59677.3	59577.7	59484.4
K 766.491	1501.42	1506.13	1497.89
Mg 279.078	3590.10	3586.64	3574.64
Mn 257.610	5224.50	5215.98	5204.40
Mo 202.032	2.6437	3.3904	3.0530
Na 330.237	452.741u	271.357u	351.289u
Ni 231.604	15.2412	14.6610	15.7304
Pb 220.353	498.810	496.295	493.965
Sb 206.834	1.1374	3.5636	2.4550
Se 196.026	-0.6475	-0.0135	-0.5472
Sn 189.925	13.0562	9.9880	10.3392
Sr 216.596	136.429	136.206	137.522
Ti 334.941	186.009	186.479	186.010
Tl 190.794	6.0445	4.4363u	7.9550
V 292.401	64.5183	64.2288	63.6397
Zn 206.200	819.164	824.251	828.140

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3809	ppb	0.1194	31.3	30.0435
Al 308.215	13547.1	ppb	7.1547	0.1	98671.4

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	39.2712	ppb	2.7754	7.1	21.9864
B 249.678	5.9229	ppb	0.1942	3.3	41.6172
Ba 389.178	314.838	ppb	0.5464	0.2	7174.00
Be 313.042	1.5642	ppb	0.0050	0.3	2587.27
Ca 370.602	15470	ppb	52.52	0.3	51568
Cd 226.502	2.7718	ppb	0.0661	2.4	488.445
Co 228.615	14.2584	ppb	0.1865	1.3	160.163
Cr 267.716	34.8640	ppb	0.2215	0.6	1966.85
Cu 324.754	47.3036	ppb	0.3621	0.8	4205.47
Fe 271.441	59579.8	ppb	96.4579	0.2	94146.6
K 766.491	1501.81	ppb	4.1363	0.3	71197.6
Mg 279.078	3583.79	ppb	8.1101	0.2	10311.9
Mn 257.610	5214.96	ppb	10.0905	0.2	1179211
Mo 202.032	3.0290	ppb	0.3739	12.3	21.8205
Na 330.237	358.462	ppb	90.9045	25.4	23.4067
Ni 231.604	15.2109	ppb	0.5353	3.5	48.7481
Pb 220.353	496.357	ppb	2.4233	0.5	797.332
Sb 206.834	2.3853	ppb	1.2146	50.9	7.5441
Se 196.026	-0.4027	ppb	0.3408	84.6	0.0305
Sn 189.925	11.1278	ppb	1.6792	15.1	1.9294
Sr 216.596	136.719	ppb	0.7041	0.5	1716.12
Ti 334.941	186.166	ppb	0.2711	0.1	54706.3
Tl 190.794	6.1453	ppb	1.7615	28.7	-8.7244
V 292.401	64.1289	ppb	0.4477	0.7	1776.77
Zn 206.200	823.852	ppb	4.5015	0.5	874.630

680-110688-a-36-aSD (Samp) 3/20/2015, 5:16:01 PM

Rack 2, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0484u	-0.0229	-0.0423u
Al 308.215	2722.85	2719.63	2731.06
As 188.980	8.4955	5.2415	11.1766
B 249.678	-0.5773u	-0.5244u	-0.4680u
Ba 389.178	64.4967	64.7333	64.0742
Be 313.042	0.2907	0.2949	0.2903
Ca 370.602	3117	3117	3123
Cd 226.502	0.5248	0.5773	0.5634
Co 228.615	3.1438	2.7317	2.9497
Cr 267.716	7.2092	7.2738	7.2636
Cu 324.754	9.1588	9.2682	8.9000
Fe 271.441	12124.7	12121.3	12119.2
K 766.491	298.620	298.236	298.379
Mg 279.078	728.715	733.870	731.919
Mn 257.610	1087.00	1086.61	1086.46
Mo 202.032	0.4812	0.4599	1.1529
Na 330.237	137.514	67.0654u	64.3851u
Ni 231.604	4.4537	4.5532	4.0807
Pb 220.353	98.1287	99.4143	99.1060
Sb 206.834	0.0040	0.2263	2.0852
Se 196.026	1.3656	2.7869	1.7514
Sn 189.925	2.9251	0.9113	0.6955
Sr 216.596	27.9404	28.2245	27.9418
Ti 334.941	37.4274	37.3535	37.3861

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-3.7801u	-0.6253u	-0.6909u
V 292.401	13.1326	12.9564	13.2014
Zn 206.200	167.226	167.943	169.572

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0378	ppb	0.0133	35.2	-17.7354
Al 308.215	2724.51	ppb	5.8898	0.2	20225.2
As 188.980	8.3045	ppb	2.9722	35.8	-0.5630
B 249.678	-0.5233	ppb	0.0547	10.4	44.0154
Ba 389.178	64.4347	ppb	0.3339	0.5	1433.24
Be 313.042	0.2920	ppb	0.0026	0.9	125.616
Ca 370.602	3119	ppb	3.552	0.1	10409
Cd 226.502	0.5552	ppb	0.0272	4.9	119.370
Co 228.615	2.9417	ppb	0.2062	7.0	26.7093
Cr 267.716	7.2489	ppb	0.0347	0.5	434.830
Cu 324.754	9.1090	ppb	0.1891	2.1	1176.09
Fe 271.441	12121.8	ppb	2.7828	0.0	19156.1
K 766.491	298.412	ppb	0.1944	0.1	14383.2
Mg 279.078	731.501	ppb	2.6030	0.4	2123.16
Mn 257.610	1086.69	ppb	0.2786	0.0	245772
Mo 202.032	0.6980	ppb	0.3941	56.5	9.0026
Na 330.237	89.6549	ppb	41.4690	46.3	29.5159
Ni 231.604	4.3625	ppb	0.2491	5.7	10.7140
Pb 220.353	98.8830	ppb	0.6712	0.7	167.042
Sb 206.834	0.7718	ppb	1.1428	148.1	4.0240
Se 196.026	1.9680	ppb	0.7350	37.3	-0.2450
Sn 189.925	1.5106	ppb	1.2297	81.4	-5.1613
Sr 216.596	28.0355	ppb	0.1636	0.6	352.621
Ti 334.941	37.3890	ppb	0.0370	0.1	10983.4
Tl 190.794	-1.6988	ppb	1.8028	106.1	-12.1318
V 292.401	13.0968	ppb	0.1264	1.0	351.399
Zn 206.200	168.247	ppb	1.2025	0.7	179.030

680-110688-a-36-aPDS (Samp) 3/20/2015, 5:20:46 PM Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	86.2783	85.8251	85.8702
Al 308.215	14535.1	14491.8	14501.2
As 188.980	133.314	137.317	137.179
B 249.678	192.328	193.438	193.051
Ba 389.178	397.981	397.174	398.070
Be 313.042	95.1164	94.9420	94.8788
Ca 370.602	25015	24897	24928
Cd 226.502	95.4323	95.5173	95.2957
Co 228.615	105.866	106.239	105.922
Cr 267.716	129.280	128.495	128.771
Cu 324.754	143.090	144.816	144.925
Fe 271.441	68440.8	68242.4	68300.2
K 766.491	11769.9	11724.9	11735.1
Mg 279.078	12864.7	12866.7	12862.8
Mn 257.610	6119.29	6100.86	6109.12
Mo 202.032	93.7458	93.8595	93.4994
Na 330.237	9057.14	9268.08	9055.03

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	111.339	110.537	110.955
Pb 220.353	581.585	583.866	584.709
Sb 206.834	94.2606	96.4237	94.6475
Se 196.026	95.1153	91.0785	94.1519
Sn 189.925	104.559	104.083	103.551
Sr 216.596	225.585	224.732	226.725
Ti 334.941	275.998	275.632	275.974
Tl 190.794	23.0630	24.7248	22.8149
V 292.401	161.018	160.575	159.768
Zn 206.200	908.225	909.560	907.971

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	85.9912	ppb	0.2496	0.3	7726.16
Al 308.215	14509.4	ppb	22.7591	0.2	105662
As 188.980	135.937	ppb	2.2726	1.7	93.3629
B 249.678	192.939	ppb	0.5631	0.3	3379.21
Ba 389.178	397.742	ppb	0.4934	0.1	9087.54
Be 313.042	94.9791	ppb	0.1231	0.1	182973
Ca 370.602	24947	ppb	61.34	0.2	83406
Cd 226.502	95.4151	ppb	0.1118	0.1	4691.04
Co 228.615	106.009	ppb	0.2008	0.2	1191.74
Cr 267.716	128.849	ppb	0.3982	0.3	7043.33
Cu 324.754	144.277	ppb	1.0291	0.7	11849.2
Fe 271.441	68327.8	ppb	102.011	0.1	107981
K 766.491	11743.3	ppb	23.5892	0.2	554713
Mg 279.078	12864.7	ppb	1.9616	0.0	37246.5
Mn 257.610	6109.76	ppb	9.2331	0.2	1381598
Mo 202.032	93.7016	ppb	0.1841	0.2	603.584
Na 330.237	9126.75	ppb	122.399	1.3	467.605
Ni 231.604	110.944	ppb	0.4014	0.4	349.015
Pb 220.353	583.387	ppb	1.6162	0.3	935.128
Sb 206.834	95.1106	ppb	1.1535	1.2	140.584
Se 196.026	93.4486	ppb	2.1083	2.3	41.9030
Sn 189.925	104.064	ppb	0.5045	0.5	70.4542
Sr 216.596	225.681	ppb	1.0002	0.4	2789.71
Ti 334.941	275.868	ppb	0.2047	0.1	81078.2
Tl 190.794	23.5342	ppb	1.0385	4.4	9.6018
V 292.401	160.454	ppb	0.6334	0.4	4477.11
Zn 206.200	908.585	ppb	0.8534	0.1	964.447

680-110688-a-36-b ms (Samp) 3/20/2015, 5:25:31 PM

Rack 2, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.6818	5.6266	5.3721
Al 308.215	12714.6	13000.9	12716.1
As 188.980	49.3336	48.7133	45.6652
B 249.678	27.6634	28.7018	27.3967
Ba 389.178	339.208	345.748	340.255
Be 313.042	5.9515	6.0932	5.9663
Ca 370.602	18249	18699	18280
Cd 226.502	7.4854	7.8220	7.4850
Co 228.615	13.8054	14.5955	14.0078
Cr 267.716	39.3696	40.1673	39.3705

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	61.0498	62.9722	61.3899
Fe 271.441	49789.8	50952.3	49857.6
K 766.491	2148.70	2197.80	2152.92
Mg 279.078	3892.90	3985.49	3897.95
Mn 257.610	5095.16	5227.02	5112.47
Mo 202.032	11.9880	12.8024	12.1185
Na 330.237	856.882	759.790	937.154
Ni 231.604	23.8928	24.4814	23.7231
Pb 220.353	533.729	537.483	528.574
Sb 206.834	3.7163	4.8956	6.9555
Se 196.026	17.1117	-1.3383	-0.4548
Sn 189.925	32.7105	32.9881	32.1757
Sr 216.596	159.499	163.574	159.541
Ti 334.941	226.903	232.136	227.306
Tl 190.794	9.3517	7.6866	10.2019
V 292.401	55.3162	56.8221	55.3469
Zn 206.200	838.100	856.568	836.067

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.5602	ppb	0.1652	3.0	496.067
Al 308.215	12810.5	ppb	164.877	1.3	93331.5
As 188.980	47.9040	ppb	1.9635	4.1	28.4344
B 249.678	27.9207	ppb	0.6895	2.5	460.038
Ba 389.178	341.737	ppb	3.5126	1.0	7779.45
Be 313.042	6.0037	ppb	0.0779	1.3	11159.7
Ca 370.602	18410	ppb	251.5	1.4	61590
Cd 226.502	7.5975	ppb	0.1944	2.6	651.271
Co 228.615	14.1362	ppb	0.4104	2.9	158.795
Cr 267.716	39.6358	ppb	0.4603	1.2	2219.55
Cu 324.754	61.8040	ppb	1.0259	1.7	5343.62
Fe 271.441	50199.9	ppb	652.509	1.3	79325.4
K 766.491	2166.48	ppb	27.2135	1.3	102577
Mg 279.078	3925.45	ppb	52.0616	1.3	11306.1
Mn 257.610	5144.89	ppb	71.6567	1.4	1163343
Mo 202.032	12.3029	ppb	0.4375	3.6	81.7964
Na 330.237	851.275	ppb	88.8152	10.4	50.6638
Ni 231.604	24.0324	ppb	0.3980	1.7	75.5581
Pb 220.353	533.262	ppb	4.4727	0.8	854.839
Sb 206.834	5.1891	ppb	1.6395	31.6	11.3033
Se 196.026	5.1062	ppb	10.4064	203.8	2.3742
Sn 189.925	32.6248	ppb	0.4129	1.3	17.7793
Sr 216.596	160.871	ppb	2.3405	1.5	1993.15
Ti 334.941	228.782	ppb	2.9119	1.3	67226.5
Tl 190.794	9.0801	ppb	1.2795	14.1	-4.1002
V 292.401	55.8284	ppb	0.8607	1.5	1543.63
Zn 206.200	843.579	ppb	11.2950	1.3	895.181

680-110688-a-36-c ms (Samp) 3/20/2015, 5:30:17 PM Rack 2, Tube 12

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.6183	5.6318	5.6767
Al 308.215	13888.0	13881.4	13900.4
As 188.980	55.8223	59.0242	59.2313

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	27.1047	27.1034	27.4712
Ba 389.178	373.856	375.570	374.867
Be 313.042	6.3529	6.3435	6.3433
Ca 370.602	18407	18423	18455
Cd 226.502	8.6663	8.8122	8.8175
Co 228.615	14.0738	13.9014	14.4204
Cr 267.716	44.0703	43.7598	43.7110
Cu 324.754	69.0034	68.4040	68.7885
Fe 271.441	63545.5	63583.6	63644.9
K 766.491	2342.19	2342.26	2335.74
Mg 279.078	4084.51	4083.18	4090.16
Mn 257.610	6090.11	6082.39	6078.41
Mo 202.032	13.1221	12.9967	12.8428
Na 330.237	942.662	767.102	1082.81
Ni 231.604	26.5817	26.3487	26.4911
Pb 220.353	690.985	690.521	693.638
Sb 206.834	6.3560	5.0523	6.1173
Se 196.026	9.6534	8.0774	7.7445
Sn 189.925	31.2532	33.5793	36.9183
Sr 216.596	189.054	190.118	189.388
Ti 334.941	242.041	242.009	241.701
Tl 190.794	9.6753	10.4756	9.1162
V 292.401	68.5647	68.8100	68.5923
Zn 206.200	1060.28	1078.26	1070.98

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.6423	ppb	0.0306	0.5	505.128
Al 308.215	13889.9	ppb	9.6188	0.1	101158
As 188.980	58.0259	ppb	1.9112	3.3	35.8197
B 249.678	27.2264	ppb	0.2119	0.8	414.021
Ba 389.178	374.765	ppb	0.8617	0.2	8541.86
Be 313.042	6.3466	ppb	0.0054	0.1	11821.8
Ca 370.602	18428	ppb	24.60	0.1	61522
Cd 226.502	8.7653	ppb	0.0858	1.0	780.258
Co 228.615	14.1319	ppb	0.2643	1.9	159.907
Cr 267.716	43.8470	ppb	0.1949	0.4	2457.58
Cu 324.754	68.7319	ppb	0.3036	0.4	5895.33
Fe 271.441	63591.3	ppb	50.1792	0.1	100485
K 766.491	2340.07	ppb	3.7420	0.2	110773
Mg 279.078	4085.95	ppb	3.7039	0.1	11751.0
Mn 257.610	6083.64	ppb	5.9461	0.1	1375608
Mo 202.032	12.9872	ppb	0.1399	1.1	85.5815
Na 330.237	930.856	ppb	158.182	17.0	48.6288
Ni 231.604	26.4738	ppb	0.1174	0.4	84.3646
Pb 220.353	691.715	ppb	1.6815	0.2	1105.66
Sb 206.834	5.8419	ppb	0.6941	11.9	12.5347
Se 196.026	8.4918	ppb	1.0197	12.0	4.2007
Sn 189.925	33.9169	ppb	2.8476	8.4	18.7320
Sr 216.596	189.520	ppb	0.5439	0.3	2352.64
Ti 334.941	241.917	ppb	0.1875	0.1	71087.6
Tl 190.794	9.7557	ppb	0.6832	7.0	-4.9717
V 292.401	68.6556	ppb	0.1344	0.2	1901.19
Zn 206.200	1069.84	ppb	9.0445	0.8	1135.16

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Cont Calib Verif (CCV) 3/20/2015, 5:35:01 PM Rack 2, Tube 13

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	501.035	499.004	497.767
Al 308.215	4946.12	4953.45	4927.60
As 188.980	497.479	502.511	503.682
B 249.678	493.695	496.858	497.267
Ba 389.178	4942.32	4956.24	4933.42
Be 313.042	497.289	498.305	495.003
Ca 370.602	5051	5052	5020
Cd 226.502	504.639	505.608	503.793
Co 228.615	505.010	505.962	504.787
Cr 267.716	5072.16	5086.77	5065.87
Cu 324.754	5202.65	5183.26	5204.94
Fe 271.441	4975.30	4987.98	4983.31
K 766.491	10864.0	10904.3	10837.0
Mg 279.078	5002.43	5010.41	4994.12
Mn 257.610	5078.68	5091.17	5053.19
Mo 202.032	497.321	499.212	495.028
Na 330.237	7676.66	7538.28	7550.10
Ni 231.604	2547.01	2552.68	2539.83
Pb 220.353	502.309	504.632	499.947
Sb 206.834	997.343	1014.42	1003.53
Se 196.026	5122.61	5149.08	5083.81
Sn 189.925	4988.99	4995.81	4953.70
Sr 216.596	2440.68	2464.92	2452.38
Ti 334.941	489.796	491.997	489.549
Tl 190.794	5104.76	5120.82	5096.71
V 292.401	4976.94	4988.97	4969.36
Zn 206.200	2501.45	2492.44	2484.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.269	ppb	1.6499	0.3	44816.6	99.85377
Al 308.215	4942.39	ppb	13.3196	0.3	37018.2	98.84779
As 188.980	501.224	ppb	3.2956	0.7	363.771	100.24480
B 249.678	495.940	ppb	1.9547	0.4	8992.37	99.18800
Ba 389.178	4943.99	ppb	11.5005	0.2	112476	98.87988
Be 313.042	496.866	ppb	1.6909	0.3	959266	99.37315
Ca 370.602	5041	ppb	18.04	0.4	17365	100.82446
Cd 226.502	504.680	ppb	0.9081	0.2	22674.5	100.93599
Co 228.615	505.253	ppb	0.6241	0.1	5677.03	101.05059
Cr 267.716	5074.93	ppb	10.7239	0.2	273747	101.49865
Cu 324.754	5196.95	ppb	11.9129	0.2	409686	103.93897
Fe 271.441	4982.20	ppb	6.4129	0.1	7974.97	99.64394
K 766.491	10868.5	ppb	33.8750	0.3	513410	108.68452
Mg 279.078	5002.32	ppb	8.1485	0.2	14438.3	100.04639
Mn 257.610	5074.35	ppb	19.3573	0.4	1147266	101.48702
Mo 202.032	497.187	ppb	2.0953	0.4	3192.42	99.43738
Na 330.237	7588.35	ppb	76.7059	1.0	386.028	101.17795
Ni 231.604	2546.51	ppb	6.4372	0.3	7968.24	101.86026
Pb 220.353	502.296	ppb	2.3425	0.5	806.193	100.45918
Sb 206.834	1005.10	ppb	8.6454	0.9	1504.32	100.50969
Se 196.026	5118.50	ppb	32.8301	0.6	2268.38	102.37006
Sn 189.925	4979.50	ppb	22.6034	0.5	3665.11	99.59005
Sr 216.596	2452.66	ppb	12.1200	0.5	29224.5	98.10635

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	490.447	ppb	1.3478	0.3	144101	98.08942
Tl 190.794	5107.43	ppb	12.2743	0.2	5625.98	102.14859
V 292.401	4978.42	ppb	9.8896	0.2	140563	99.56849
Zn 206.200	2492.74	ppb	8.5613	0.3	2629.57	99.70964

Cont Calib Blank (CCB)

3/20/2015, 5:39:45 PM

Rack 2, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0180	0.1690	0.1050
Al 308.215	-2.4424u	-3.8330u	-3.6236u
As 188.980	0.3893	4.4291	-0.5663u
B 249.678	4.2764	3.2881	3.0842
Ba 389.178	0.0032	-0.5671u	0.0572
Be 313.042	0.0025	0.0123	0.0135
Ca 370.602	3.585	1.463	3.700
Cd 226.502	0.0963	0.0456	-0.0354u
Co 228.615	0.1948	0.2310	0.2552
Cr 267.716	0.3453	0.4396	0.2979
Cu 324.754	-0.0988u	0.0054	0.1090
Fe 271.441	5.9982	2.6513	3.3020
K 766.491	0.2615	-0.3614u	-0.8104u
Mg 279.078	0.2740	-0.5893u	-0.2323u
Mn 257.610	0.2385	0.2525	0.1709
Mo 202.032	0.2237	0.8280	0.2948
Na 330.237	99.7933	124.513	-3.7211u
Ni 231.604	0.2293	0.6837	0.8904
Pb 220.353	-2.5984u	-2.6737u	-2.0767u
Sb 206.834	1.8182	-2.3288u	1.5175
Se 196.026	1.1335	-6.0118u	1.9074
Sn 189.925	1.2732	1.6366	2.1841
Sr 216.596	0.3635	0.1711	0.6225
Ti 334.941	0.1308	0.0598	0.0528
Tl 190.794	-0.8311u	0.6078	-2.4738u
V 292.401	0.2303	0.2398	0.1970
Zn 206.200	0.8377	0.5211	0.2963

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0973	ppb	0.0758	77.9	-8.3526	0.09734
Al 308.215	-3.2997	ppb	0.7497	22.7	452.927	-3.29965
As 188.980	1.4173	ppb	2.6516	187.1	-5.5669	1.41734
B 249.678	3.5496	ppb	0.6377	18.0	147.322	3.54956
Ba 389.178	-0.1689	ppb	0.3459	204.8	-47.7574	-0.16890
Be 313.042	0.0094	ppb	0.0060	63.7	-421.362	0.00942
Ca 370.602	2.916	ppb	1.260	43.2	25.43	2.91596
Cd 226.502	0.0355	ppb	0.0664	187.2	27.1824	0.03549
Co 228.615	0.2270	ppb	0.0304	13.4	-5.3968	0.22697
Cr 267.716	0.3609	ppb	0.0721	20.0	52.2934	0.36092
Cu 324.754	0.0052	ppb	0.1039	1994.8	453.681	0.00521
Fe 271.441	3.9839	ppb	1.7746	44.5	8.2444	3.98386
K 766.491	-0.3034	ppb	0.5383	177.4	280.447	-0.30343
Mg 279.078	-0.1825	ppb	0.4338	237.7	23.1155	-0.18254
Mn 257.610	0.2206	ppb	0.0436	19.8	113.211	0.22063
Mo 202.032	0.4488	ppb	0.3303	73.6	7.9517	0.44884

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	73.5284	ppb	68.0321	92.5	33.7725	73.52835
Ni 231.604	0.6011	ppb	0.3382	56.3	-2.1024	0.60112
Pb 220.353	-2.4496	ppb	0.3251	13.3	6.3454	-2.44960
Sb 206.834	0.3356	ppb	2.3124	689.0	3.0857	0.33563
Se 196.026	-0.9903	ppb	4.3659	440.9	-1.9019	-0.99027
Sn 189.925	1.6979	ppb	0.4586	27.0	-5.0232	1.69793
Sr 216.596	0.3857	ppb	0.2265	58.7	5.6953	0.38571
Ti 334.941	0.0811	ppb	0.0432	53.2	19.2761	0.08112
Tl 190.794	-0.8990	ppb	1.5419	171.5	-9.9312	-0.89903
V 292.401	0.2223	ppb	0.0225	10.1	-8.2049	0.22234
Zn 206.200	0.5517	ppb	0.2720	49.3	1.1048	0.55169

680-110688-a-46-a^10 (Samp) 3/20/2015, 5:44:29 PM

Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1083	0.1470	0.0752
Al 308.215	13654.6	14008.4	13983.4
As 188.980	67.0145	69.7256	75.0552
B 249.678	8.7452	9.4260	9.1804
Ba 389.178	996.276	1021.57	1020.00
Be 313.042	1.8070	1.8423	1.8527
Ca 370.602	7616	7748	7789
Cd 226.502	0.4816	0.6461	0.5803
Co 228.615	24.5631	26.1157	25.7102
Cr 267.716	30.3713	31.0302	30.9207
Cu 324.754	92.3625	94.5350	94.1377
Fe 271.441	57124.4	58575.8	58484.1
K 766.491	1241.38	1277.57	1273.28
Mg 279.078	1447.16	1480.51	1476.10
Mn 257.610	5136.06	5251.98	5258.44
Mo 202.032	6.9712	6.9653	7.1259
Na 330.237	371.377u	264.064u	117.846u
Ni 231.604	24.1439	25.1657	25.2670
Pb 220.353	314.786	321.379	319.888
Sb 206.834	3.6957	1.6995	3.2949
Se 196.026	-5.1215u	-2.7902	-2.2069
Sn 189.925	26.3069	22.0052	23.2707
Sr 216.596	155.952	159.399	158.633
Ti 334.941	226.071	232.273	231.828
Tl 190.794	2.6263u	1.6527u	0.5782u
V 292.401	63.7935	65.2194	65.1687
Zn 206.200	690.138	702.714	702.580

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0379	ppb	0.1316	347.0	-1.2189
Al 308.215	13882.1	ppb	197.474	1.4	101100
As 188.980	70.5984	ppb	4.0908	5.8	45.1576
B 249.678	9.1172	ppb	0.3448	3.8	102.646
Ba 389.178	1012.62	ppb	14.1714	1.4	23045.1
Be 313.042	1.8340	ppb	0.0239	1.3	3104.92
Ca 370.602	7717	ppb	90.27	1.2	25537
Cd 226.502	0.5693	ppb	0.0828	14.5	381.219
Co 228.615	25.4630	ppb	0.8053	3.2	286.807

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	30.7740	ppb	0.3531	1.1	1745.64
Cu 324.754	93.6784	ppb	1.1568	1.2	7857.21
Fe 271.441	58061.4	ppb	812.767	1.4	91748.7
K 766.491	1264.08	ppb	19.7735	1.6	59973.6
Mg 279.078	1467.92	ppb	18.1154	1.2	4166.66
Mn 257.610	5215.49	ppb	68.8707	1.3	1179310
Mo 202.032	7.0208	ppb	0.0911	1.3	47.5184
Na 330.237	251.096	ppb	127.262	50.7	19.7972
Ni 231.604	24.8589	ppb	0.6213	2.5	78.8001
Pb 220.353	318.684	ppb	3.4574	1.1	517.149
Sb 206.834	2.8967	ppb	1.0560	36.5	8.1324
Se 196.026	-3.3729	ppb	1.5422	45.7	-1.2994
Sn 189.925	23.8609	ppb	2.2108	9.3	11.3176
Sr 216.596	157.995	ppb	1.8101	1.1	1965.15
Ti 334.941	230.058	ppb	3.4596	1.5	67598.0
Tl 190.794	1.6191	ppb	1.0245	63.3	-13.4602
V 292.401	64.7272	ppb	0.8090	1.2	1793.93
Zn 206.200	698.477	ppb	7.2226	1.0	741.866

CRI (Samp)

3/20/2015, 5:49:12 PM

Rack 2, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.5101	10.5380	10.3232
Al 308.215	237.588	239.215	239.514
As 188.980	19.5988	19.8643	20.5104
B 249.678	99.1833	101.429	101.614
Ba 389.178	10.3750	10.2179	9.3448
Be 313.042	4.2453	4.2668	4.2503
Ca 370.602	538.8	538.9	535.1
Cd 226.502	5.2218	5.2335	5.2114
Co 228.615	10.3835	10.9245	10.0842
Cr 267.716	10.5509	10.6293	10.5371
Cu 324.754	21.9316	22.0024	22.4883
Fe 271.441	64.3353	64.0983	60.1833
K 766.491	1163.04	1172.61	1163.84
Mg 279.078	519.809	528.384	523.534
Mn 257.610	11.8028	11.8722	11.8704
Mo 202.032	10.1464	10.1923	9.8974
Na 330.237	1234.86	1191.62	1142.79
Ni 231.604	42.4548	44.8223	43.7095
Pb 220.353	11.0236	9.4081	9.5985
Sb 206.834	21.0488	19.3757	25.0734
Se 196.026	19.2186	11.4854	17.1653
Sn 189.925	50.6826	52.5692	50.8271
Sr 216.596	10.0623	9.1151	9.8358
Ti 334.941	10.2501	10.3067	10.2594
Tl 190.794	26.1204	28.0392	25.2579
V 292.401	10.3714	10.7163	10.5227
Zn 206.200	22.1166	23.5996	21.8218

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.4571	ppb	0.1168	1.1	922.681
Al 308.215	238.772	ppb	1.0366	0.4	2208.93

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	19.9912	ppb	0.4689	2.3	8.1622
B 249.678	100.742	ppb	1.3531	1.3	1892.73
Ba 389.178	9.9792	ppb	0.5550	5.6	184.369
Be 313.042	4.2541	ppb	0.0112	0.3	7774.66
Ca 370.602	537.6	ppb	2.143	0.4	1829
Cd 226.502	5.2222	ppb	0.0111	0.2	259.981
Co 228.615	10.4641	ppb	0.4259	4.1	109.630
Cr 267.716	10.5724	ppb	0.0497	0.5	603.075
Cu 324.754	22.1408	ppb	0.3030	1.4	2197.26
Fe 271.441	62.8723	ppb	2.3318	3.7	102.560
K 766.491	1166.50	ppb	5.3135	0.5	55366.7
Mg 279.078	523.909	ppb	4.2997	0.8	1544.89
Mn 257.610	11.8485	ppb	0.0396	0.3	2746.26
Mo 202.032	10.0787	ppb	0.1587	1.6	69.7766
Na 330.237	1189.76	ppb	46.0653	3.9	90.4482
Ni 231.604	43.6622	ppb	1.1845	2.7	132.700
Pb 220.353	10.0100	ppb	0.8829	8.8	25.9723
Sb 206.834	21.8326	ppb	2.9286	13.4	33.9322
Se 196.026	15.9564	ppb	4.0058	25.1	5.6124
Sn 189.925	51.3596	ppb	1.0500	2.0	31.5928
Sr 216.596	9.6711	ppb	0.4946	5.1	115.576
Ti 334.941	10.2721	ppb	0.0303	0.3	3014.30
Tl 190.794	26.4725	ppb	1.4237	5.4	20.2242
V 292.401	10.5368	ppb	0.1729	1.6	281.303
Zn 206.200	22.5127	ppb	0.9528	4.2	24.3346

mb 680-375244/1-a (Samp)

3/20/2015, 5:53:56 PM

Rack 2, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0044u	0.2681	0.0386
Al 308.215	2.7375	0.9897	1.3027
As 188.980	-1.1587u	0.6238	-3.2654u
B 249.678	0.5446	0.1073	-0.3199u
Ba 389.178	-0.5513u	-0.2767u	0.4886
Be 313.042	0.0083	0.0085	0.0024
Ca 370.602	20.72	18.82	19.84
Cd 226.502	-0.0345u	0.1183	0.0291
Co 228.615	0.3788	0.4597	0.6591
Cr 267.716	0.0880	0.2364	0.2861
Cu 324.754	0.0066	0.0505	0.2312
Fe 271.441	11.4866	9.0668	8.1799
K 766.491	1.2762	0.8812	1.5777
Mg 279.078	1.3282	0.0778	0.3280
Mn 257.610	0.2811	0.2565	0.2544
Mo 202.032	0.1344	0.3587	-0.0174u
Na 330.237	185.748	196.480	354.877
Ni 231.604	0.6195	0.7292	-0.0255u
Pb 220.353	-3.6763u	-0.7964u	0.9621
Sb 206.834	-0.9288u	0.2322	-2.2843u
Se 196.026	-4.4186u	-5.1562u	-2.0351u
Sn 189.925	-2.0567u	1.0463	2.1639
Sr 216.596	0.1132	0.2360	0.3412
Ti 334.941	0.0717	0.0698	0.0922

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-4.2579u	-3.2389u	1.5190
V 292.401	0.0709	0.1131	0.2103
Zn 206.200	1.4035	0.3714	1.8929

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1008	ppb	0.1465	145.4	-8.0327
Al 308.215	1.6766	ppb	0.9320	55.6	488.973
As 188.980	-1.2668	ppb	1.9469	153.7	-7.5513
B 249.678	0.1107	ppb	0.4322	390.5	85.5472
Ba 389.178	-0.1131	ppb	0.5389	476.4	-46.4844
Be 313.042	0.0064	ppb	0.0035	54.3	-427.159
Ca 370.602	19.79	ppb	0.9489	4.8	82.14
Cd 226.502	0.0377	ppb	0.0768	203.9	27.3038
Co 228.615	0.4992	ppb	0.1443	28.9	-2.3279
Cr 267.716	0.2035	ppb	0.1031	50.6	43.8089
Cu 324.754	0.0961	ppb	0.1191	123.9	460.829
Fe 271.441	9.5778	ppb	1.7116	17.9	17.0887
K 766.491	1.2450	ppb	0.3493	28.1	353.552
Mg 279.078	0.5780	ppb	0.6617	114.5	25.3216
Mn 257.610	0.2640	ppb	0.0149	5.6	123.042
Mo 202.032	0.1586	ppb	0.1892	119.3	6.0877
Na 330.237	245.702	ppb	94.7004	38.5	42.5454
Ni 231.604	0.4411	ppb	0.4078	92.4	-2.6032
Pb 220.353	-1.1702	ppb	2.3417	200.1	8.3625
Sb 206.834	-0.9936	ppb	1.2595	126.8	1.1806
Se 196.026	-3.8700	ppb	1.6313	42.2	-3.1783
Sn 189.925	0.3845	ppb	2.1868	568.7	-5.9915
Sr 216.596	0.2301	ppb	0.1141	49.6	3.8584
Ti 334.941	0.0779	ppb	0.0124	15.9	18.3156
Tl 190.794	-1.9926	ppb	3.0835	154.7	-11.1353
V 292.401	0.1315	ppb	0.0715	54.4	-10.7151
Zn 206.200	1.2226	ppb	0.7767	63.5	1.8154

lcs 680-375244/2-a (Samp)

3/20/2015, 5:58:40 PM

Rack 2, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.7484	52.7180	52.4883
Al 308.215	5028.22	5040.07	5034.80
As 188.980	99.5137	101.888	104.005
B 249.678	197.541	198.714	199.377
Ba 389.178	97.5167	98.4370	97.4387
Be 313.042	51.2018	51.3502	51.2465
Ca 370.602	5193	5218	5213
Cd 226.502	51.0215	51.1131	51.0086
Co 228.615	50.6333	51.1509	51.1174
Cr 267.716	105.123	105.615	105.256
Cu 324.754	105.345	107.038	107.177
Fe 271.441	5031.39	5058.84	5046.29
K 766.491	5495.53	5497.84	5470.88
Mg 279.078	4952.03	4967.51	4963.01
Mn 257.610	531.077	533.032	531.938
Mo 202.032	99.7773	100.234	99.0666
Na 330.237	5179.12	5255.22	5124.06

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	102.590	102.633	104.224
Pb 220.353	502.366	508.530	510.735
Sb 206.834	51.6173	55.0813	50.8758
Se 196.026	105.641	98.0223	96.3716
Sn 189.925	195.595	200.829	201.166
Sr 216.596	97.9476	98.2808	96.9289
Ti 334.941	101.609	101.740	101.499
Tl 190.794	40.9410	37.7213	40.8752
V 292.401	103.735	103.444	103.393
Zn 206.200	104.610	104.694	106.634

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.3182	ppb	0.5067	1.0	4684.75
Al 308.215	5034.36	ppb	5.9392	0.1	36979.5
As 188.980	101.802	ppb	2.2468	2.2	68.5842
B 249.678	198.544	ppb	0.9299	0.5	3636.91
Ba 389.178	97.7975	ppb	0.5552	0.6	2196.48
Be 313.042	51.2661	ppb	0.0761	0.1	98551.7
Ca 370.602	5208	ppb	13.25	0.3	17539
Cd 226.502	51.0477	ppb	0.0570	0.1	2342.30
Co 228.615	50.9672	ppb	0.2897	0.6	564.871
Cr 267.716	105.332	ppb	0.2546	0.2	5718.18
Cu 324.754	106.520	ppb	1.0201	1.0	8847.33
Fe 271.441	5045.51	ppb	13.7451	0.3	7981.19
K 766.491	5488.08	ppb	14.9435	0.3	259395
Mg 279.078	4960.85	ppb	7.9622	0.2	14417.8
Mn 257.610	532.015	ppb	0.9802	0.2	120390
Mo 202.032	99.6926	ppb	0.5882	0.6	644.914
Na 330.237	5186.13	ppb	65.8644	1.3	292.120
Ni 231.604	103.149	ppb	0.9314	0.9	319.283
Pb 220.353	507.210	ppb	4.3380	0.9	809.904
Sb 206.834	52.5248	ppb	2.2448	4.3	77.8184
Se 196.026	100.012	ppb	4.9447	4.9	43.0268
Sn 189.925	199.197	ppb	3.1235	1.6	140.594
Sr 216.596	97.7191	ppb	0.7043	0.7	1172.55
Ti 334.941	101.616	ppb	0.1207	0.1	29860.1
Tl 190.794	39.8458	ppb	1.8402	4.6	34.3912
V 292.401	103.524	ppb	0.1845	0.2	2888.82
Zn 206.200	105.313	ppb	1.1453	1.1	111.973

680-110741-g-1-a (Samp)

3/20/2015, 6:03:24 PM

Rack 2, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1566	0.0829u	0.0295u
Al 308.215	2.8881	3.9757	4.7694
As 188.980	1.6958	2.6960	-1.4070u
B 249.678	12.7284	12.0616	12.1628
Ba 389.178	26.4198	25.8642	25.0242
Be 313.042	-0.0084u	-0.0083u	-0.0062u
Ca 370.602	35816	35829	35801
Cd 226.502	-0.1137u	-0.0100	-0.1675u
Co 228.615	-0.1884u	0.0567	-0.1889u
Cr 267.716	0.2042	0.2405	0.2925

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	1.7014	1.3608	1.3920
Fe 271.441	97.9776	95.7996	97.3181
K 766.491	1902.24	1904.74	1901.96
Mg 279.078	5005.22	5012.36	5010.64
Mn 257.610	12.7965	12.8205	12.7483
Mo 202.032	0.8621	1.7992	2.0822
Na 330.237	7118.94	7233.53	7097.58
Ni 231.604	0.7829	1.5104	1.4035
Pb 220.353	1.9851	0.5757	2.5383
Sb 206.834	0.3540	2.8645	1.5617
Se 196.026	-5.7679u	-5.5479u	-4.7584u
Sn 189.925	0.8614	2.7401	1.5253
Sr 216.596	219.514	221.538	220.194
Ti 334.941	0.1461	0.1551	0.1242
Tl 190.794	-1.6607u	-3.6711u	-0.0540u
V 292.401	0.0408	-0.2016u	-0.3246u
Zn 206.200	27.5878	29.8360	29.9025

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0897	ppb	0.0638	71.2	-17.0742
Al 308.215	3.8777	ppb	0.9444	24.4	504.949
As 188.980	0.9949	ppb	2.1394	215.0	-5.8802
B 249.678	12.3176	ppb	0.3593	2.9	304.565
Ba 389.178	25.7694	ppb	0.7026	2.7	553.110
Be 313.042	-0.0076	ppb	0.0013	16.6	-442.767
Ca 370.602	35815	ppb	13.98	0.0	120466
Cd 226.502	-0.0971	ppb	0.0801	82.5	21.7886
Co 228.615	-0.1069	ppb	0.1416	132.5	-9.1697
Cr 267.716	0.2457	ppb	0.0444	18.1	46.3237
Cu 324.754	1.4847	ppb	0.1883	12.7	570.294
Fe 271.441	97.0317	ppb	1.1169	1.2	155.231
K 766.491	1902.98	ppb	1.5315	0.1	90137.2
Mg 279.078	5009.41	ppb	3.7285	0.1	14572.3
Mn 257.610	12.7884	ppb	0.0368	0.3	2995.20
Mo 202.032	1.5812	ppb	0.6386	40.4	15.2191
Na 330.237	7150.02	ppb	73.1068	1.0	394.520
Ni 231.604	1.2323	ppb	0.3928	31.9	-0.1176
Pb 220.353	1.6997	ppb	1.0119	59.5	12.8924
Sb 206.834	1.5934	ppb	1.2555	78.8	4.8728
Se 196.026	-5.3581	ppb	0.5309	9.9	-3.8343
Sn 189.925	1.7089	ppb	0.9527	55.7	-5.0129
Sr 216.596	220.415	ppb	1.0303	0.5	2646.57
Ti 334.941	0.1418	ppb	0.0159	11.2	45.5034
Tl 190.794	-1.7953	ppb	1.8123	100.9	-10.9312
V 292.401	-0.1618	ppb	0.1859	114.9	-19.3303
Zn 206.200	29.1088	ppb	1.3176	4.5	31.3386

680-110741-g-1-aSD^5 (Samp) 3/20/2015, 6:08:08 PM Rack 2, Tube 20

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0590u	-0.2038u	0.0006u
Al 308.215	-1.5693u	-0.4107u	1.2784
As 188.980	0.5627	0.9190	-2.6145u

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	0.7699	0.7372	0.8949
Ba 389.178	4.7714	4.2408	3.8606
Be 313.042	-0.0006	-0.0010	-0.0038u
Ca 370.602	6986	6889	6932
Cd 226.502	-0.0048u	0.0572	0.0353
Co 228.615	0.0657	0.2055	0.0509
Cr 267.716	0.2194	0.1750	0.0414
Cu 324.754	0.1127	0.0875	0.4855
Fe 271.441	23.3409	25.5071	25.2554
K 766.491	382.306	378.569	382.270
Mg 279.078	995.656	975.115	983.669
Mn 257.610	2.5807	2.5063	2.5907
Mo 202.032	0.7529	0.0821	0.4599
Na 330.237	1363.42	1426.97	1526.34
Ni 231.604	0.5126	1.3501	1.8856
Pb 220.353	-1.0902u	-0.6668u	3.2540
Sb 206.834	-2.1407u	-1.4792u	2.2528
Se 196.026	-5.4550u	-2.0778u	-0.3947u
Sn 189.925	2.3171	1.7543	1.5157
Sr 216.596	43.9132	43.0078	42.6719
Ti 334.941	-0.0197u	-0.0116u	0.0239
Tl 190.794	-1.7231u	-3.6120u	-3.2084u
V 292.401	-0.0139u	-0.2111u	0.1226
Zn 206.200	8.0789	7.7184	5.3711

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0874	ppb	0.1051	120.2	-26.5138
Al 308.215	-0.2339	ppb	1.4321	612.3	475.114
As 188.980	-0.3776	ppb	1.9454	515.2	-6.8941
B 249.678	0.8007	ppb	0.0833	10.4	97.9155
Ba 389.178	4.2909	ppb	0.4575	10.7	55.8202
Be 313.042	-0.0018	ppb	0.0017	96.5	-440.796
Ca 370.602	6936	ppb	48.78	0.7	23340
Cd 226.502	0.0292	ppb	0.0314	107.5	27.0187
Co 228.615	0.1074	ppb	0.0853	79.4	-6.7434
Cr 267.716	0.1453	ppb	0.0927	63.8	40.7134
Cu 324.754	0.2286	ppb	0.2228	97.5	471.287
Fe 271.441	24.7011	ppb	1.1847	4.8	40.9497
K 766.491	381.048	ppb	2.1472	0.6	18284.6
Mg 279.078	984.813	ppb	10.3185	1.0	2883.80
Mn 257.610	2.5592	ppb	0.0461	1.8	649.928
Mo 202.032	0.4317	ppb	0.3363	77.9	7.8408
Na 330.237	1438.91	ppb	82.1123	5.7	103.360
Ni 231.604	1.2495	ppb	0.6920	55.4	-0.0701
Pb 220.353	0.4990	ppb	2.3952	480.0	10.9946
Sb 206.834	-0.4557	ppb	2.3689	519.8	1.9467
Se 196.026	-2.6425	ppb	2.5770	97.5	-2.6336
Sn 189.925	1.8624	ppb	0.4115	22.1	-4.9015
Sr 216.596	43.1976	ppb	0.6421	1.5	519.511
Ti 334.941	-0.0025	ppb	0.0232	937.4	-3.6394
Tl 190.794	-2.8478	ppb	0.9947	34.9	-12.0807
V 292.401	-0.0341	ppb	0.1678	491.4	-15.4706
Zn 206.200	7.0561	ppb	1.4704	20.8	7.9915

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110741-g-1-aPDS (Samp) **3/20/2015, 6:12:53 PM** **Rack 2, Tube 21****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	88.9964	88.8726	88.6565
Al 308.215	987.396	986.296	988.108
As 188.980	98.1151	97.3441	99.5845
B 249.678	202.397	202.470	202.898
Ba 389.178	112.158	112.987	112.367
Be 313.042	98.1337	98.2640	98.3763
Ca 370.602	45603	45627	45649
Cd 226.502	96.5277	96.7009	95.9090
Co 228.615	96.2068	97.2010	96.1285
Cr 267.716	101.216	101.766	101.336
Cu 324.754	105.236	105.895	105.359
Fe 271.441	9868.62	9896.03	9879.44
K 766.491	12324.4	12354.5	12366.2
Mg 279.078	14582.3	14557.6	14582.9
Mn 257.610	1040.44	1040.26	1041.65
Mo 202.032	98.6156	97.9251	98.9301
Na 330.237	16273.1	16309.3	16361.8
Ni 231.604	99.9393	99.5792	99.2570
Pb 220.353	99.1754	92.3307	94.8423
Sb 206.834	98.3967	97.1429	96.3082
Se 196.026	92.2609	87.5816	96.7583
Sn 189.925	95.6268	99.5570	98.6189
Sr 216.596	311.285	311.048	311.160
Ti 334.941	98.1035	98.1716	98.4434
Tl 190.794	20.6512	19.2326	17.7335
V 292.401	101.927	102.089	102.645
Zn 206.200	125.110	124.067	121.835

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	88.8418	ppb	0.1721	0.2	7961.97
Al 308.215	987.267	ppb	0.9126	0.1	7649.31
As 188.980	98.3479	ppb	1.1382	1.2	65.9954
B 249.678	202.588	ppb	0.2708	0.1	3698.16
Ba 389.178	112.504	ppb	0.4311	0.4	2555.30
Be 313.042	98.2580	ppb	0.1214	0.1	189310
Ca 370.602	45626	ppb	23.39	0.1	153424
Cd 226.502	96.3792	ppb	0.4163	0.4	4401.84
Co 228.615	96.5121	ppb	0.5979	0.6	1077.22
Cr 267.716	101.439	ppb	0.2893	0.3	5512.70
Cu 324.754	105.497	ppb	0.3507	0.3	8768.95
Fe 271.441	9881.36	ppb	13.8073	0.1	15627.5
K 766.491	12348.4	ppb	21.5528	0.2	583279
Mg 279.078	14574.3	ppb	14.4113	0.1	42328.7
Mn 257.610	1040.79	ppb	0.7561	0.1	235499
Mo 202.032	98.4903	ppb	0.5141	0.5	636.981
Na 330.237	16314.8	ppb	44.5842	0.3	858.562
Ni 231.604	99.5918	ppb	0.3413	0.3	308.448
Pb 220.353	95.4495	ppb	3.4625	3.6	161.364
Sb 206.834	97.2826	ppb	1.0512	1.1	142.173
Se 196.026	92.2002	ppb	4.5887	5.0	39.7192
Sn 189.925	97.9342	ppb	2.0526	2.1	65.9368
Sr 216.596	311.164	ppb	0.1188	0.0	3742.80

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	98.2395	ppb	0.1798	0.2	28884.8
Tl 190.794	19.2058	ppb	1.4590	7.6	11.2859
V 292.401	102.221	ppb	0.3764	0.4	2850.51
Zn 206.200	123.671	ppb	1.6733	1.4	131.581

680-110741-g-1-b ms (Samp) 3/20/2015, 6:17:37 PM Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.6759	52.8406	52.4830
Al 308.215	4994.06	4994.21	5004.83
As 188.980	102.568	103.049	99.8651
B 249.678	207.843	209.184	209.032
Ba 389.178	120.341	120.764	120.487
Be 313.042	50.6446	50.6349	50.6518
Ca 370.602	38893	38927	38982
Cd 226.502	49.9572	49.8828	49.9733
Co 228.615	50.0745	50.2917	50.2321
Cr 267.716	103.861	103.708	103.360
Cu 324.754	107.750	107.171	106.958
Fe 271.441	5039.68	5037.62	5043.08
K 766.491	7352.93	7338.46	7347.51
Mg 279.078	9668.18	9677.81	9678.11
Mn 257.610	536.116	535.804	536.205
Mo 202.032	99.7768	98.6790	99.3887
Na 330.237	11886.1	11853.6	11830.3
Ni 231.604	101.388	101.627	103.213
Pb 220.353	493.592	490.730	491.745
Sb 206.834	56.5261	47.9487	54.6733
Se 196.026	105.937	96.9435	107.158
Sn 189.925	200.154	191.917	193.535
Sr 216.596	305.422	304.393	305.203
Ti 334.941	99.6695	99.6305	99.6655
Tl 190.794	38.5654	35.9085	40.2603
V 292.401	101.703	102.370	102.227
Zn 206.200	125.741	126.515	126.577

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.3332	ppb	0.5966	1.1	4678.49
Al 308.215	4997.70	ppb	6.1734	0.1	36713.6
As 188.980	101.828	ppb	1.7165	1.7	68.6031
B 249.678	208.686	ppb	0.7343	0.4	3819.06
Ba 389.178	120.531	ppb	0.2152	0.2	2723.75
Be 313.042	50.6438	ppb	0.0085	0.0	97360.9
Ca 370.602	38934	ppb	44.81	0.1	130962
Cd 226.502	49.9378	ppb	0.0483	0.1	2292.56
Co 228.615	50.1994	ppb	0.1122	0.2	556.208
Cr 267.716	103.643	ppb	0.2568	0.2	5627.24
Cu 324.754	107.293	ppb	0.4098	0.4	8908.18
Fe 271.441	5040.13	ppb	2.7580	0.1	7972.57
K 766.491	7346.30	ppb	7.3084	0.1	347124
Mg 279.078	9674.70	ppb	5.6495	0.1	28108.2
Mn 257.610	536.042	ppb	0.2106	0.0	121339
Mo 202.032	99.2815	ppb	0.5567	0.6	642.276

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	11856.7	ppb	27.9777	0.2	632.271
Ni 231.604	102.076	ppb	0.9921	1.0	315.925
Pb 220.353	492.022	ppb	1.4513	0.3	785.967
Sb 206.834	53.0494	ppb	4.5134	8.5	78.5524
Se 196.026	103.346	ppb	5.5782	5.4	44.5055
Sn 189.925	195.202	ppb	4.3644	2.2	137.651
Sr 216.596	305.006	ppb	0.5423	0.2	3660.45
Ti 334.941	99.6552	ppb	0.0214	0.0	29292.0
Tl 190.794	38.2447	ppb	2.1936	5.7	32.6263
V 292.401	102.100	ppb	0.3508	0.3	2848.63
Zn 206.200	126.278	ppb	0.4660	0.4	134.169

680-110741-g-1-c msd (Samp) 3/20/2015, 6:22:22 PM Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.7049	53.6835	52.5790
Al 308.215	5108.17	5107.70	5098.27
As 188.980	103.227	99.1167	102.449
B 249.678	213.203	213.429	213.691
Ba 389.178	123.560	123.501	123.385
Be 313.042	51.7847	51.8596	51.8480
Ca 370.602	40082	40092	40079
Cd 226.502	51.2918	50.8317	50.7063
Co 228.615	51.3507	51.4177	50.7064
Cr 267.716	106.106	105.900	106.029
Cu 324.754	108.347	109.711	108.588
Fe 271.441	5137.54	5162.69	5147.31
K 766.491	7539.76	7536.92	7536.98
Mg 279.078	9922.72	9915.17	9889.87
Mn 257.610	545.959	545.778	545.619
Mo 202.032	101.235	101.473	101.872
Na 330.237	12328.8	12325.3	12143.8
Ni 231.604	104.026	104.247	104.223
Pb 220.353	500.219	499.548	498.497
Sb 206.834	53.4183	51.0945	50.1433
Se 196.026	104.113	94.3578	104.430
Sn 189.925	198.163	202.115	195.413
Sr 216.596	312.407	313.202	312.166
Ti 334.941	102.261	102.105	102.165
Tl 190.794	39.3659	39.4507	36.9919
V 292.401	104.039	104.205	104.612
Zn 206.200	127.847	126.555	126.659

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.9891	ppb	0.6046	1.1	4737.22
Al 308.215	5104.71	ppb	5.5878	0.1	37489.5
As 188.980	101.597	ppb	2.1833	2.1	68.4315
B 249.678	213.441	ppb	0.2442	0.1	3904.13
Ba 389.178	123.482	ppb	0.0888	0.1	2791.46
Be 313.042	51.8308	ppb	0.0403	0.1	99653.2
Ca 370.602	40084	ppb	7.048	0.0	134832
Cd 226.502	50.9433	ppb	0.3083	0.6	2338.26
Co 228.615	51.1582	ppb	0.3928	0.8	566.990

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	106.012	ppb	0.1039	0.1	5755.11
Cu 324.754	108.882	ppb	0.7280	0.7	9033.47
Fe 271.441	5149.18	ppb	12.6830	0.2	8145.01
K 766.491	7537.89	ppb	1.6214	0.0	356169
Mg 279.078	9909.25	ppb	17.2063	0.2	28789.2
Mn 257.610	545.786	ppb	0.1701	0.0	123544
Mo 202.032	101.527	ppb	0.3217	0.3	656.688
Na 330.237	12266.0	ppb	105.849	0.9	653.115
Ni 231.604	104.166	ppb	0.1212	0.1	322.475
Pb 220.353	499.421	ppb	0.8676	0.2	797.634
Sb 206.834	51.5521	ppb	1.6848	3.3	76.3992
Se 196.026	100.967	ppb	5.7261	5.7	43.4543
Sn 189.925	198.564	ppb	3.3692	1.7	140.130
Sr 216.596	312.592	ppb	0.5423	0.2	3751.51
Ti 334.941	102.177	ppb	0.0789	0.1	30033.3
Tl 190.794	38.6028	ppb	1.3958	3.6	33.0069
V 292.401	104.285	ppb	0.2945	0.3	2909.89
Zn 206.200	127.020	ppb	0.7178	0.6	134.954

680-110757-b-1-a (Samp)

3/20/2015, 6:27:08 PM

Rack 2, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4365	0.2405u	0.2991
Al 308.215	118.298	117.787	117.778
As 188.980	-1.8509u	3.0696	0.0449
B 249.678	276.225	276.914	278.848
Ba 389.178	1.0426	1.0082	1.3010
Be 313.042	-0.0101u	0.0006u	-0.0052u
Ca 370.602	60682	60747	60665
Cd 226.502	0.0790	-0.1931u	-0.1060u
Co 228.615	0.5088	0.2835	0.4478
Cr 267.716	0.5215	0.5295	0.5294
Cu 324.754	11.1652	11.0694	11.0826
Fe 271.441	680.826	679.315	678.412
K 766.491	76495.1x	76441.2x	76481.7x
Mg 279.078	1765.09	1764.58	1763.92
Mn 257.610	64.0821	64.2098	64.1137
Mo 202.032	4.2215	4.7558	3.7231
Na 330.237	179841x	180415x	180135x
Ni 231.604	6.9078	6.5231	8.7438
Pb 220.353	-1.6894u	-1.3012u	-2.2521u
Sb 206.834	1.6167	0.6079	1.7357
Se 196.026	0.4543	0.5980	-5.2367u
Sn 189.925	0.8028	-0.1161u	-0.1140u
Sr 216.596	704.600	700.031	701.078
Ti 334.941	0.4737	0.4326	0.4615
Tl 190.794	-3.6857u	-2.8544u	-2.5926u
V 292.401	0.2113	0.2149	0.0982
Zn 206.200	204.769	202.630	205.445

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3254b	ppb	0.1006	30.9	-12.9622
Al 308.215	117.954b	ppb	0.2980	0.3	1331.85

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.4212b	ppb	2.4817	589.2	-6.3095
B 249.678	277.329b	ppb	1.3594	0.5	5061.94
Ba 389.178	1.1173b	ppb	0.1601	14.3	-14.2047
Be 313.042	-0.0049b	ppb	0.0053	109.3	-452.020
Ca 370.602	60698b	ppb	43.40	0.1	204144
Cd 226.502	-0.0734b	ppb	0.1390	189.4	25.0199
Co 228.615	0.4134b	ppb	0.1166	28.2	-3.2975
Cr 267.716	0.5268b	ppb	0.0046	0.9	65.2800
Cu 324.754	11.1058b	ppb	0.0519	0.5	1328.39
Fe 271.441	679.518b	ppb	1.2197	0.2	1075.67
K 766.491	76472.7xb	ppb	28.0287	0.0	3610679
Mg 279.078	1764.53b	ppb	0.5912	0.0	5146.94
Mn 257.610	64.1352b	ppb	0.0665	0.1	14578.3
Mo 202.032	4.2335b	ppb	0.5164	12.2	32.2249
Na 330.237	180130xb	ppb	287.375	0.2	9219.32
Ni 231.604	7.3915b	ppb	1.1868	16.1	19.2165
Pb 220.353	-1.7476b	ppb	0.4781	27.4	7.5025
Sb 206.834	1.3201b	ppb	0.6197	46.9	4.4474
Se 196.026	-1.3948b	ppb	3.3280	238.6	-2.0612
Sn 189.925	0.1909b	ppb	0.5299	277.6	-6.0806
Sr 216.596	701.903b	ppb	2.3936	0.3	8406.25
Ti 334.941	0.4560b	ppb	0.0211	4.6	118.713
Tl 190.794	-3.0442b	ppb	0.5707	18.7	-12.3801
V 292.401	0.1748b	ppb	0.0664	38.0	-11.9894
Zn 206.200	204.281b	ppb	1.4694	0.7	216.796

Cont Calib Verif (CCV) 3/20/2015, 6:31:53 PM Rack 2, Tube 25

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	497.389	497.597	496.703
Al 308.215	4938.54	4944.69	4936.17
As 188.980	494.429	491.375	503.339
B 249.678	495.257	499.537	501.068
Ba 389.178	4947.14	4951.75	4937.59
Be 313.042	499.484	498.513	498.819
Ca 370.602	5028	5020	5016
Cd 226.502	502.274	501.882	501.677
Co 228.615	504.845	505.719	505.537
Cr 267.716	5067.89	5072.96	5068.06
Cu 324.754	5195.35	5176.36	5232.75
Fe 271.441	4971.50	4988.75	4976.49
K 766.491	10856.4	10878.7	10879.1
Mg 279.078	4990.66	4986.12	4987.69
Mn 257.610	5048.74	5077.37	5081.43
Mo 202.032	494.189	495.792	494.354
Na 330.237	7540.44	7592.70	7582.56
Ni 231.604	2543.83	2535.54	2541.05
Pb 220.353	500.105	502.337	500.480
Sb 206.834	1006.68	1003.77	1004.57
Se 196.026	5085.75	5105.74	5080.44
Sn 189.925	4979.86	4889.55	4963.35
Sr 216.596	2456.17	2450.54	2453.68
Ti 334.941	489.257	490.502	490.054

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	5081.64	5081.44	5079.12
V 292.401	4974.36	4983.96	4974.51
Zn 206.200	2485.18	2485.06	2466.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.230	ppb	0.4682	0.1	44633.1	99.44594
Al 308.215	4939.80	ppb	4.3978	0.1	37000.0	98.79597
As 188.980	496.381	ppb	6.2164	1.3	360.190	99.27620
B 249.678	498.621	ppb	3.0117	0.6	9040.51	99.72415
Ba 389.178	4945.49	ppb	7.2225	0.1	112510	98.90987
Be 313.042	498.939	ppb	0.4967	0.1	963269	99.78772
Ca 370.602	5021	ppb	6.149	0.1	17298	100.42223
Cd 226.502	501.945	ppb	0.3032	0.1	22551.9	100.38891
Co 228.615	505.367	ppb	0.4607	0.1	5678.39	101.07339
Cr 267.716	5069.64	ppb	2.8766	0.1	273462	101.39272
Cu 324.754	5201.49	ppb	28.6959	0.6	410044	104.02975
Fe 271.441	4978.91	ppb	8.8781	0.2	7969.83	99.57829
K 766.491	10871.4	ppb	13.0011	0.1	513549	108.71398
Mg 279.078	4988.16	ppb	2.3036	0.0	14397.3	99.76312
Mn 257.610	5069.18	ppb	17.8167	0.4	1146098	101.38366
Mo 202.032	494.778	ppb	0.8818	0.2	3176.94	98.95561
Na 330.237	7571.90	ppb	27.7087	0.4	385.345	100.95866
Ni 231.604	2540.14	ppb	4.2213	0.2	7948.31	101.60560
Pb 220.353	500.974	ppb	1.1954	0.2	804.113	100.19481
Sb 206.834	1005.00	ppb	1.5000	0.1	1504.26	100.50048
Se 196.026	5090.64	ppb	13.3416	0.3	2256.03	101.81289
Sn 189.925	4944.26	ppb	48.0864	1.0	3639.13	98.88511
Sr 216.596	2453.46	ppb	2.8214	0.1	29234.3	98.13856
Ti 334.941	489.938	ppb	0.6302	0.1	143951	97.98753
Tl 190.794	5080.73	ppb	1.4014	0.0	5596.59	101.61459
V 292.401	4977.61	ppb	5.4990	0.1	140541	99.55224
Zn 206.200	2478.99	ppb	10.6201	0.4	2615.00	99.15959

Cont Calib Blank (CCB)

3/20/2015, 6:36:37 PM

Rack 2, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0910u	0.1289	-0.0951u
Al 308.215	-2.6747u	-3.3231u	-1.1607u
As 188.980	1.2056	1.6821	-3.8665u
B 249.678	5.4100	5.2710	4.5610
Ba 389.178	0.0937	-0.5262u	0.6504
Be 313.042	0.0158	0.0089	0.0107
Ca 370.602	1.854	3.079	1.666
Cd 226.502	-0.0102u	0.0089	0.1840
Co 228.615	0.1455	0.2872	-0.0698u
Cr 267.716	0.1723	0.1447	0.1764
Cu 324.754	-0.0337u	-0.4833u	0.0774
Fe 271.441	4.4674	0.2681	6.5633
K 766.491	1.2112	1.0095	1.3073
Mg 279.078	-0.7577u	1.1707	0.7625
Mn 257.610	0.1320	0.0770	0.0880
Mo 202.032	0.1254	0.5069	-0.1169u
Na 330.237	18.6820	112.325	72.8923

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	-0.0798u	1.2076	0.8361
Pb 220.353	1.9796	-0.0191u	-2.8264u
Sb 206.834	2.4699	1.7272	0.7628
Se 196.026	-2.2495u	1.1179	-7.1636u
Sn 189.925	-0.3753u	1.4350	1.2137
Sr 216.596	0.4125	0.0150	0.3538
Ti 334.941	0.1160	0.0864	0.0612
Tl 190.794	-1.1343u	2.2961	-2.3342u
V 292.401	0.4838	0.2283	0.1764
Zn 206.200	0.6316	-0.0518u	-0.2892u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0191	ppb	0.1281	671.8	-18.8106	-0.01908
Al 308.215	-2.3862	ppb	1.1097	46.5	459.549	-2.38616
As 188.980	-0.3263	ppb	3.0752	942.5	-6.8559	-0.32629
B 249.678	5.0807	ppb	0.4554	9.0	174.849	5.08067
Ba 389.178	0.0726	ppb	0.5886	810.4	-42.2639	0.07264
Be 313.042	0.0118	ppb	0.0036	30.4	-416.731	0.01180
Ca 370.602	2.200	ppb	0.7669	34.9	23.04	2.19972
Cd 226.502	0.0609	ppb	0.1071	175.8	28.3097	0.06089
Co 228.615	0.1209	ppb	0.1798	148.6	-6.5816	0.12095
Cr 267.716	0.1644	ppb	0.0172	10.5	41.6936	0.16443
Cu 324.754	-0.1465	ppb	0.2969	202.6	441.717	-0.14653
Fe 271.441	3.7663	ppb	3.2056	85.1	7.8801	3.76625
K 766.491	1.1760	ppb	0.1520	12.9	350.293	1.17601
Mg 279.078	0.3918	ppb	1.0162	259.3	24.7860	0.39183
Mn 257.610	0.0990	ppb	0.0291	29.4	85.7128	0.09901
Mo 202.032	0.1718	ppb	0.3145	183.0	6.1729	0.17182
Na 330.237	67.9665	ppb	47.0154	69.2	33.4886	67.96647
Ni 231.604	0.6547	ppb	0.6626	101.2	-1.9344	0.65466
Pb 220.353	-0.2886	ppb	2.4143	836.5	9.7517	-0.28862
Sb 206.834	1.6533	ppb	0.8560	51.8	4.9796	1.65329
Se 196.026	-2.7651	ppb	4.1648	150.6	-2.6886	-2.76507
Sn 189.925	0.7578	ppb	0.9875	130.3	-5.7163	0.75782
Sr 216.596	0.2605	ppb	0.2146	82.4	4.2085	0.26045
Ti 334.941	0.0878	ppb	0.0275	31.3	21.2463	0.08784
Tl 190.794	-0.3908	ppb	2.4030	614.9	-9.3707	-0.39077
V 292.401	0.2961	ppb	0.1645	55.6	-6.0489	0.29614
Zn 206.200	0.0969	ppb	0.4781	493.5	0.6236	0.09687

680-110750-c-1-a (Samp)

3/20/2015, 6:41:21 PM

Rack 2, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0460u	0.1566	-0.0269u
Al 308.215	757.440	751.661	751.740
As 188.980	2.3479	-4.1537u	5.7378
B 249.678	67.2201	68.2363	67.7753
Ba 389.178	243.094	243.307	243.532
Be 313.042	0.0425	0.0287	0.0375
Ca 370.602	83738	83367	83355
Cd 226.502	0.0608	0.0784	-0.0852
Co 228.615	1.3358	1.1419	1.4108
Cr 267.716	4.6397	4.7964	4.6682

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	10.9460	10.8590	11.1381
Fe 271.441	4320.90	4281.33	4305.55
K 766.491	26377.4	26438.8	26385.8
Mg 279.078	8691.92	8667.60	8681.94
Mn 257.610	1396.84	1392.96	1396.89
Mo 202.032	5.7610	5.2849	5.5873
Na 330.237	322926x	322531x	323216x
Ni 231.604	10.4049	11.1668	11.7612
Pb 220.353	2.2858	1.5587	2.5112
Sb 206.834	5.2415	3.5712	1.6981
Se 196.026	-5.9142u	10.7842	5.3864
Sn 189.925	0.2075	2.6898	2.2169
Sr 216.596	318.914	319.598	320.788
Ti 334.941	9.1680	9.1530	9.0884
Tl 190.794	-0.7211u	-0.8691u	-2.1206u
V 292.401	3.3210	3.1735	3.3752
Zn 206.200	15.5142	17.5452	17.3413

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0279b	ppb	0.1119	400.6	-19.6179
Al 308.215	753.614b	ppb	3.3141	0.4	5939.49
As 188.980	1.3107b	ppb	5.0267	383.5	-5.6786
B 249.678	67.7439b	ppb	0.5088	0.8	1289.44
Ba 389.178	243.311b	ppb	0.2188	0.1	5514.00
Be 313.042	0.0362b	ppb	0.0070	19.3	-378.694
Ca 370.602	83486b	ppb	217.6	0.3	280784
Cd 226.502	0.0180b	ppb	0.0898	498.8	48.9288
Co 228.615	1.2962b	ppb	0.1387	10.7	6.9892
Cr 267.716	4.7014b	ppb	0.0835	1.8	301.339
Cu 324.754	10.9810b	ppb	0.1428	1.3	1320.25
Fe 271.441	4302.59b	ppb	19.9457	0.5	6800.66
K 766.491	26400.7b	ppb	33.2735	0.1	1246709
Mg 279.078	8680.48b	ppb	12.2256	0.1	25203.5
Mn 257.610	1395.56b	ppb	2.2541	0.2	315638
Mo 202.032	5.5444b	ppb	0.2409	4.3	40.4795
Na 330.237	322891xb	ppb	344.017	0.1	16505.7
Ni 231.604	11.1110b	ppb	0.6799	6.1	31.1725
Pb 220.353	2.1186b	ppb	0.4978	23.5	14.0981
Sb 206.834	3.5036b	ppb	1.7727	50.6	7.6830
Se 196.026	3.4188b	ppb	8.5213	249.2	0.3980
Sn 189.925	1.7047b	ppb	1.3180	77.3	-4.9218
Sr 216.596	319.767b	ppb	0.9481	0.3	3855.73
Ti 334.941	9.1365b	ppb	0.0423	0.5	2670.84
Tl 190.794	-1.2369b	ppb	0.7689	62.2	-10.2747
V 292.401	3.2899b	ppb	0.1043	3.2	73.3611
Zn 206.200	16.8002b	ppb	1.1184	6.7	18.4443

480-76761-e-1-a (Samp)

3/20/2015, 6:46:04 PM

Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0070u	-0.2624u	0.1986
Al 308.215	4559.71	4552.87	4549.64
As 188.980	-1.0348u	-1.0575u	4.8759

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	3.7016	3.2197	3.8619
Ba 389.178	1.6553	1.3030	1.6757
Be 313.042	0.0143	0.0084	0.0115
Ca 370.602	4482	4471	4473
Cd 226.502	0.1295	0.0121	0.0457
Co 228.615	0.6061	0.3993	0.5965
Cr 267.716	0.7684	0.8562	0.9026
Cu 324.754	2.2504	2.6118	2.5176
Fe 271.441	50.6545	57.5308	51.7978
K 766.491	3721.24	3726.86	3721.96
Mg 279.078	390.979	387.817	386.992
Mn 257.610	3.1318	3.1630	3.1093
Mo 202.032	12.3534	13.2365	12.8925
Na 330.237	3235.02	2954.56	2930.72
Ni 231.604	1.0441	1.0778	0.5786
Pb 220.353	-0.6768u	-0.6523u	-2.2717u
Sb 206.834	-0.9004u	-2.7569u	-0.9330u
Se 196.026	1.1187	-4.9582u	0.8136
Sn 189.925	0.3379	0.5549	0.3388
Sr 216.596	25.1473	24.9994	25.0079
Ti 334.941	2.8838	2.8612	2.9171
Tl 190.794	-2.0776u	1.4859	-1.6464u
V 292.401	0.9025	0.2376	0.8425
Zn 206.200	405.870	401.399	402.579

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0190	ppb	0.2316	1221.9	-19.6710
Al 308.215	4554.07	ppb	5.1385	0.1	33481.6
As 188.980	0.9279	ppb	3.4191	368.5	-5.9330
B 249.678	3.5944	ppb	0.3343	9.3	148.007
Ba 389.178	1.5447	ppb	0.2095	13.6	-7.8455
Be 313.042	0.0114	ppb	0.0029	25.8	-418.008
Ca 370.602	4475	ppb	6.072	0.1	15068
Cd 226.502	0.0624	ppb	0.0605	96.9	28.6339
Co 228.615	0.5340	ppb	0.1168	21.9	-2.2138
Cr 267.716	0.8424	ppb	0.0682	8.1	78.4013
Cu 324.754	2.4599	ppb	0.1875	7.6	647.554
Fe 271.441	53.3277	ppb	3.6846	6.9	86.2401
K 766.491	3723.35	ppb	3.0589	0.1	176080
Mg 279.078	388.596	ppb	2.1047	0.5	1150.36
Mn 257.610	3.1347	ppb	0.0270	0.9	775.281
Mo 202.032	12.8275	ppb	0.4452	3.5	87.4386
Na 330.237	3040.10	ppb	169.226	5.6	180.294
Ni 231.604	0.9001	ppb	0.2790	31.0	-1.1599
Pb 220.353	-1.2003	ppb	0.9279	77.3	8.2354
Sb 206.834	-1.5301	ppb	1.0626	69.4	0.1936
Se 196.026	-1.0087	ppb	3.4238	339.4	-1.9090
Sn 189.925	0.4105	ppb	0.1250	30.5	-5.9715
Sr 216.596	25.0516	ppb	0.0831	0.3	301.800
Ti 334.941	2.8874	ppb	0.0281	1.0	844.473
Tl 190.794	-0.7460	ppb	1.9449	260.7	-9.8103
V 292.401	0.6609	ppb	0.3678	55.7	1.5334
Zn 206.200	403.283	ppb	2.3171	0.6	427.437

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

mb 680-375261/1-a (Samp) 3/20/2015, 6:50:48 PM Rack 2, Tube 29

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1262u	-0.1340u	0.2103
Al 308.215	1.0806	-2.0906u	-0.2925u
As 188.980	-0.5732u	2.4812	-1.2096u
B 249.678	-1.2175u	-0.8318u	-1.0861u
Ba 389.178	-0.4934u	-0.2669u	-0.0888u
Be 313.042	0.0035	-0.0018u	0.0016
Ca 370.602	14.84	10.18	13.81
Cd 226.502	0.1003	0.0784	0.1134
Co 228.615	0.0888	0.1428	-0.0566u
Cr 267.716	0.1247	0.2160	0.1271
Cu 324.754	-0.2346u	-0.2552u	-0.1163u
Fe 271.441	1.8813	6.6934	8.6975
K 766.491	2.3795	1.9646	1.4657
Mg 279.078	0.1375	0.2763	3.3549
Mn 257.610	0.1338	0.1015	0.1129
Mo 202.032	0.3036	0.2400	0.3777
Na 330.237	345.033	238.156	217.096
Ni 231.604	0.0521	0.8709	0.3262
Pb 220.353	-0.3294u	-1.0014u	-0.3660u
Sb 206.834	-1.6950u	-0.2492u	0.6778
Se 196.026	-2.6878u	-7.3895u	0.9982
Sn 189.925	-3.8658u	3.8382	-1.2437u
Sr 216.596	0.1635	0.2449	0.1464
Ti 334.941	0.0192	-0.0058u	0.0266
Tl 190.794	-2.3475u	-1.8350u	-2.6374u
V 292.401	-0.0370u	0.0093	-0.0841u
Zn 206.200	1.9777	1.9929	2.7842

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0166	ppb	0.1966	1181.3	-18.5873
Al 308.215	-0.4342	ppb	1.5904	366.3	473.660
As 188.980	0.2328	ppb	1.9730	847.5	-6.4426
B 249.678	-1.0451	ppb	0.1961	18.8	64.8112
Ba 389.178	-0.2830	ppb	0.2028	71.6	-50.3511
Be 313.042	0.0011	ppb	0.0027	243.6	-437.392
Ca 370.602	12.94	ppb	2.444	18.9	59.06
Cd 226.502	0.0974	ppb	0.0177	18.1	29.9788
Co 228.615	0.0583	ppb	0.1031	176.7	-7.2877
Cr 267.716	0.1559	ppb	0.0521	33.4	41.2428
Cu 324.754	-0.2020	ppb	0.0750	37.1	437.357
Fe 271.441	5.7574	ppb	3.5032	60.8	11.0167
K 766.491	1.9366	ppb	0.4576	23.6	386.202
Mg 279.078	1.2562	ppb	1.8188	144.8	27.2956
Mn 257.610	0.1161	ppb	0.0164	14.1	89.5899
Mo 202.032	0.3071	ppb	0.0689	22.4	7.0415
Na 330.237	266.762	ppb	68.5983	25.7	43.6113
Ni 231.604	0.4164	ppb	0.4168	100.1	-2.6797
Pb 220.353	-0.5656	ppb	0.3778	66.8	9.3155
Sb 206.834	-0.4221	ppb	1.1958	283.3	1.9990
Se 196.026	-3.0264	ppb	4.2041	138.9	-2.8044
Sn 189.925	-0.4238	ppb	3.9169	924.3	-6.5875
Sr 216.596	0.1849	ppb	0.0526	28.5	3.3214

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0133	ppb	0.0170	127.6	-0.6470
Tl 190.794	-2.2733	ppb	0.4063	17.9	-11.4459
V 292.401	-0.0373	ppb	0.0467	125.4	-15.5097
Zn 206.200	2.2516	ppb	0.4613	20.5	2.9047

ics 680-375261/2-a (Samp) 3/20/2015, 6:55:32 PM Rack 2, Tube 30
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.9146	52.8917	52.8759
Al 308.215	5032.96	5032.97	5020.92
As 188.980	99.5470	99.2044	105.526
B 249.678	198.107	200.156	200.207
Ba 389.178	98.7593	97.8728	98.4216
Be 313.042	51.2621	51.2565	51.1997
Ca 370.602	5250	5246	5242
Cd 226.502	51.7000	51.4427	51.6296
Co 228.615	51.5081	51.2366	51.2926
Cr 267.716	105.787	105.987	105.600
Cu 324.754	106.847	106.522	107.162
Fe 271.441	5077.47	5076.32	5067.40
K 766.491	5553.69	5549.98	5540.90
Mg 279.078	4985.71	4997.40	4980.94
Mn 257.610	535.533	535.317	534.867
Mo 202.032	101.126	100.980	100.942
Na 330.237	5126.45	5174.13	5257.09
Ni 231.604	104.391	105.178	105.775
Pb 220.353	508.882	505.854	507.690
Sb 206.834	54.2936	51.7822	49.8978
Se 196.026	104.425	89.7380	108.547
Sn 189.925	198.154	195.114	202.391
Sr 216.596	99.4218	98.1955	98.5250
Ti 334.941	102.161	102.142	102.142
Tl 190.794	42.4701	42.5279	40.2355
V 292.401	104.241	104.114	104.209
Zn 206.200	102.719	103.735	103.750

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.5607	ppb	0.5596	1.1	4706.53
Al 308.215	5028.95	ppb	6.9533	0.1	36940.4
As 188.980	101.426	ppb	3.5548	3.5	68.3052
B 249.678	199.490	ppb	1.1978	0.6	3653.81
Ba 389.178	98.3512	ppb	0.4474	0.5	2209.17
Be 313.042	51.2395	ppb	0.0345	0.1	98500.0
Ca 370.602	5246	ppb	3.887	0.1	17667
Cd 226.502	51.5908	ppb	0.1330	0.3	2366.84
Co 228.615	51.3458	ppb	0.1434	0.3	569.106
Cr 267.716	105.791	ppb	0.1939	0.2	5742.99
Cu 324.754	106.844	ppb	0.3200	0.3	8872.88
Fe 271.441	5073.73	ppb	5.5118	0.1	8025.83
K 766.491	5548.19	ppb	6.5775	0.1	262233
Mg 279.078	4988.02	ppb	8.4697	0.2	14496.6
Mn 257.610	535.239	ppb	0.3393	0.1	121119
Mo 202.032	101.016	ppb	0.0971	0.1	653.410

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	5185.89	ppb	66.1102	1.3	292.135
Ni 231.604	105.115	ppb	0.6942	0.7	325.440
Pb 220.353	507.475	ppb	1.5255	0.3	810.323
Sb 206.834	51.9912	ppb	2.2053	4.2	77.0355
Se 196.026	100.903	ppb	9.8867	9.8	43.4230
Sn 189.925	198.553	ppb	3.6549	1.8	140.120
Sr 216.596	98.7141	ppb	0.6347	0.6	1184.42
Ti 334.941	102.148	ppb	0.0108	0.0	30016.6
Tl 190.794	41.7445	ppb	1.3071	3.1	36.4757
V 292.401	104.188	ppb	0.0661	0.1	2907.30
Zn 206.200	103.401	ppb	0.5909	0.6	109.950

680-110706-m-1-a (Samp)

3/20/2015, 7:00:16 PM

Rack 2, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1945u	0.0672u	0.1060u
Al 308.215	56.1454	54.8773	57.3904
As 188.980	19.7343	22.8866	21.4919
B 249.678	67.8702	68.1397	68.3782
Ba 389.178	237.125	236.809	237.157
Be 313.042	-0.0440u	-0.0346	-0.0360u
Ca 370.602	218960	219270	219644
Cd 226.502	-1.5035	-1.3333	-1.3974
Co 228.615	-0.8511u	0.2994	0.6057
Cr 267.716	-0.4033	-0.3423	-0.3631
Cu 324.754	0.0046	0.0990	0.2781
Fe 271.441	59012.6	59061.0	59072.7
K 766.491	8265.81	8261.50	8259.87
Mg 279.078	46692.7	46789.5	46781.1
Mn 257.610	1996.36	1999.84	1999.21
Mo 202.032	0.5142	0.5736	0.8508
Na 330.237	61781.1	61913.4	62149.2
Ni 231.604	2.3609	0.5870	0.9877
Pb 220.353	-0.7693	0.8952	-3.5456u
Sb 206.834	-1.7902u	-0.1208	-0.0415
Se 196.026	7.9827	-6.8490u	2.9192
Sn 189.925	-2.1272u	1.5702	3.7775
Sr 216.596	2662.58	2670.44	2662.43
Ti 334.941	1.0060	0.8393	0.8552
Tl 190.794	-0.7094u	1.6585u	-0.1158u
V 292.401	1.6063	1.4867	1.6633
Zn 206.200	3.1453	2.9034	5.7570

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1225	ppb	0.0653	53.3	-103.097
Al 308.215	56.1377	ppb	1.2566	2.2	890.599
As 188.980	21.3709	ppb	1.5796	7.4	8.7558
B 249.678	68.1294	ppb	0.2541	0.4	1159.69
Ba 389.178	237.030	ppb	0.1924	0.1	5494.81
Be 313.042	-0.0382	ppb	0.0051	13.4	-446.292
Ca 370.602	219291	ppb	342.5	0.2	736855
Cd 226.502	-1.4114	ppb	0.0859	6.1	298.996
Co 228.615	0.0180	ppb	0.7681	4262.3	-3.7851

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.3696	ppb	0.0311	8.4	51.9140
Cu 324.754	0.1272	ppb	0.1389	109.2	490.746
Fe 271.441	59048.8	ppb	31.8248	0.1	93305.4
K 766.491	8262.39	ppb	3.0719	0.0	390374
Mg 279.078	46754.4	ppb	53.5845	0.1	135769
Mn 257.610	1998.47	ppb	1.8542	0.1	452415
Mo 202.032	0.6462	ppb	0.1797	27.8	6.6031
Na 330.237	61947.9	ppb	186.469	0.3	3176.28
Ni 231.604	1.3119	ppb	0.9303	70.9	5.2216
Pb 220.353	-1.1399	ppb	2.2435	196.8	12.7596
Sb 206.834	-0.6508	ppb	0.9875	151.7	2.7593
Se 196.026	1.3509	ppb	7.5392	558.1	0.0933
Sn 189.925	1.0735	ppb	2.9835	277.9	-5.4651
Sr 216.596	2665.15	ppb	4.5814	0.2	31985.8
Ti 334.941	0.9002	ppb	0.0920	10.2	345.701
Tl 190.794	0.2778	ppb	1.2320	443.6	-16.8976
V 292.401	1.5854	ppb	0.0901	5.7	7.4975
Zn 206.200	3.9352	ppb	1.5823	40.2	6.7188

680-110706-m-1-aSD^5 (Samp) 3/20/2015, 7:05:00 PM Rack 2, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1833u	0.2255	-0.0200u
Al 308.215	8.2455	8.2206	8.0300
As 188.980	5.3087	1.6060	9.8254
B 249.678	12.1942	12.7399	11.9743
Ba 389.178	45.8941	45.5693	45.1188
Be 313.042	-0.0103u	-0.0118u	-0.0126u
Ca 370.602	42218	41301	40514
Cd 226.502	-0.0736	-0.3056	-0.3536
Co 228.615	-0.0716u	-0.1953u	0.5082
Cr 267.716	-0.0493	0.0509	0.0114
Cu 324.754	0.1399	0.2999	0.4043
Fe 271.441	11568.1	11336.3	11175.6
K 766.491	1443.10	1417.68	1394.46
Mg 279.078	9132.31	8931.51	8770.04
Mn 257.610	387.028	378.754	371.980
Mo 202.032	-0.3880u	0.2780	0.3009
Na 330.237	11037.5	10998.6	10790.7
Ni 231.604	1.2503	2.2808	0.2365
Pb 220.353	-3.1410u	-0.9343u	-2.2973u
Sb 206.834	2.3380	-0.2139u	-2.6070u
Se 196.026	-3.6307u	-2.3136u	6.5804
Sn 189.925	3.3049	0.9328	1.9874
Sr 216.596	529.716	520.616	510.864
Ti 334.941	0.1166	0.1634	0.1496
Tl 190.794	0.4989u	-1.2192u	-0.0705u
V 292.401	0.4836	0.2180	0.1996
Zn 206.200	1.2798	0.6763	1.2162

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0074	ppb	0.2058	2777.8	-35.3589
Al 308.215	8.1653	ppb	0.1179	1.4	537.323

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	5.5800	ppb	4.1164	73.8	-2.5717
B 249.678	12.3028	ppb	0.3942	3.2	276.189
Ba 389.178	45.5274	ppb	0.3893	0.9	1019.86
Be 313.042	-0.0115	ppb	0.0012	10.0	-449.096
Ca 370.602	41344	ppb	852.5	2.1	138933
Cd 226.502	-0.2443	ppb	0.1498	61.3	79.3767
Co 228.615	0.0804	ppb	0.3756	467.0	-6.2742
Cr 267.716	0.0043	ppb	0.0505	1174.2	40.5168
Cu 324.754	0.2814	ppb	0.1332	47.3	480.692
Fe 271.441	11360.0	ppb	197.331	1.7	17952.0
K 766.491	1418.41	ppb	24.3293	1.7	67260.1
Mg 279.078	8944.62	ppb	181.493	2.0	25993.3
Mn 257.610	379.254	ppb	7.5368	2.0	85907.9
Mo 202.032	0.0636	ppb	0.3913	615.0	4.9752
Na 330.237	10942.3	ppb	132.737	1.2	585.532
Ni 231.604	1.2559	ppb	1.0221	81.4	0.9283
Pb 220.353	-2.1242	ppb	1.1135	52.4	7.6942
Sb 206.834	-0.1610	ppb	2.4729	1536.3	2.5871
Se 196.026	0.2120	ppb	5.5543	2619.7	-1.1861
Sn 189.925	2.0750	ppb	1.1885	57.3	-4.7419
Sr 216.596	520.399	ppb	9.4278	1.8	6245.65
Ti 334.941	0.1432	ppb	0.0240	16.8	54.0025
Tl 190.794	-0.2636	ppb	0.8752	332.0	-10.8218
V 292.401	0.3004	ppb	0.1589	52.9	-10.2899
Zn 206.200	1.0574	ppb	0.3316	31.4	2.0313

680-110706-m-1-aPDS (Samp) 3/20/2015, 7:09:45 PM

Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	90.8041	90.6753	90.5439
Al 308.215	1079.62	1081.65	1082.84
As 188.980	113.581	118.586	119.881
B 249.678	259.722	261.082	261.576
Ba 389.178	319.162	318.989	318.152
Be 313.042	96.1890	95.9946	96.0275
Ca 370.602	225851	226075	225626
Cd 226.502	93.2594	93.0173	92.8205
Co 228.615	93.9558	93.5881	93.5002
Cr 267.716	98.4780	98.1116	98.3063
Cu 324.754	104.341	106.055	105.641
Fe 271.441	67881.4	67611.8	67674.1
K 766.491	19872.0	19853.9	19883.9
Mg 279.078	55897.1	55943.7	56011.1
Mn 257.610	2918.35	2898.46	2911.70
Mo 202.032	95.6900	95.7461	96.2884
Na 330.237	72196.0	71902.3	72158.9
Ni 231.604	96.4948	97.6757	96.8323
Pb 220.353	93.3673	95.0274	92.5964
Sb 206.834	102.546	99.0708	100.645
Se 196.026	108.544	100.528	100.571
Sn 189.925	97.3161	97.8262	92.9959
Sr 216.596	2727.03	2720.06	2716.87
Ti 334.941	98.2200	98.2203	98.1372

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	19.1738	15.7181	19.2146
V 292.401	102.241	102.292	102.327
Zn 206.200	98.3374	94.7309	96.2885

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	90.6744	ppb	0.1301	0.1	8038.45
Al 308.215	1081.37	ppb	1.6255	0.2	8337.84
As 188.980	117.349	ppb	3.3272	2.8	79.6234
B 249.678	260.794	ppb	0.9602	0.4	4599.06
Ba 389.178	318.768	ppb	0.5398	0.2	7381.66
Be 313.042	96.0704	ppb	0.1040	0.1	185140
Ca 370.602	225851	ppb	224.8	0.1	758887
Cd 226.502	93.0324	ppb	0.2199	0.2	4581.78
Co 228.615	93.6814	ppb	0.2417	0.3	1049.33
Cr 267.716	98.2987	ppb	0.1833	0.2	5381.04
Cu 324.754	105.346	ppb	0.8942	0.8	8783.87
Fe 271.441	67722.4	ppb	141.136	0.2	107022
K 766.491	19869.9	ppb	15.0789	0.1	938382
Mg 279.078	55950.6	ppb	57.3356	0.1	162457
Mn 257.610	2909.50	ppb	10.1270	0.3	658470
Mo 202.032	95.9082	ppb	0.3305	0.3	617.837
Na 330.237	72085.7	ppb	159.956	0.2	3690.28
Ni 231.604	97.0009	ppb	0.6082	0.6	305.340
Pb 220.353	93.6637	ppb	1.2423	1.3	162.797
Sb 206.834	100.754	ppb	1.7400	1.7	148.242
Se 196.026	103.214	ppb	4.6161	4.5	45.5197
Sn 189.925	96.0461	ppb	2.6538	2.8	64.5613
Sr 216.596	2721.32	ppb	5.1986	0.2	32666.6
Ti 334.941	98.1925	ppb	0.0479	0.0	28947.5
Tl 190.794	18.0355	ppb	2.0071	11.1	1.8528
V 292.401	102.287	ppb	0.0432	0.0	2830.61
Zn 206.200	96.4523	ppb	1.8088	1.9	104.763

680-110706-m-1-b ms (Samp) 3/20/2015, 7:14:29 PM Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.7532	53.8590	53.7913
Al 308.215	5236.42	5222.65	5221.31
As 188.980	122.936	116.194	119.060
B 249.678	265.187	265.554	266.288
Ba 389.178	326.394	325.141	326.755
Be 313.042	49.4593	49.3368	49.3896
Ca 370.602	222205	220745	221167
Cd 226.502	47.1443	46.8209	47.0836
Co 228.615	47.4460	48.2236	47.9768
Cr 267.716	99.7568	99.6853	99.6432
Cu 324.754	107.564	106.282	106.520
Fe 271.441	62890.1	62706.3	62669.0
K 766.491	13871.8	13880.7	13842.4
Mg 279.078	50935.2	50779.2	50809.3
Mn 257.610	2476.65	2471.44	2470.67
Mo 202.032	96.2566	96.3068	95.2032
Na 330.237	66479.7	66762.8	66650.6

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	97.2641	98.1728	99.0829
Pb 220.353	478.784	473.188	472.881
Sb 206.834	54.5097	51.9603	52.6435
Se 196.026	95.1329	105.112	97.6951
Sn 189.925	188.733	189.739	186.711
Sr 216.596	2703.50	2692.76	2699.79
Ti 334.941	98.7649	98.5254	98.6508
Tl 190.794	37.6983	38.1549	37.0249
V 292.401	101.593	101.157	101.713
Zn 206.200	93.5506	95.4484	99.9275

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.8012	ppb	0.0536	0.1	4723.46
Al 308.215	5226.79	ppb	8.3602	0.2	38380.3
As 188.980	119.397	ppb	3.3833	2.8	81.1739
B 249.678	265.676	ppb	0.5604	0.2	4698.57
Ba 389.178	326.097	ppb	0.8468	0.3	7533.37
Be 313.042	49.3952	ppb	0.0614	0.1	95004.9
Ca 370.602	221372	ppb	751.4	0.3	743875
Cd 226.502	47.0162	ppb	0.1719	0.4	2490.39
Co 228.615	47.8821	ppb	0.3973	0.8	534.081
Cr 267.716	99.6951	ppb	0.0574	0.1	5452.28
Cu 324.754	106.788	ppb	0.6821	0.6	8895.16
Fe 271.441	62755.2	ppb	118.339	0.2	99168.3
K 766.491	13865.0	ppb	20.0505	0.1	654881
Mg 279.078	50841.2	ppb	82.7343	0.2	147626
Mn 257.610	2472.92	ppb	3.2521	0.1	559715
Mo 202.032	95.9222	ppb	0.6232	0.6	618.152
Na 330.237	66631.0	ppb	142.571	0.2	3413.21
Ni 231.604	98.1732	ppb	0.9094	0.9	308.691
Pb 220.353	474.951	ppb	3.3227	0.7	763.306
Sb 206.834	53.0378	ppb	1.3197	2.5	79.6180
Se 196.026	99.3135	ppb	5.1829	5.2	43.6499
Sn 189.925	188.394	ppb	1.5418	0.8	132.648
Sr 216.596	2698.68	ppb	5.4535	0.2	32387.6
Ti 334.941	98.6470	ppb	0.1198	0.1	29071.8
Tl 190.794	37.6260	ppb	0.5684	1.5	23.8706
V 292.401	101.487	ppb	0.2922	0.3	2809.83
Zn 206.200	96.3088	ppb	3.2744	3.4	104.435

680-110706-m-1-c msd (Samp) 3/20/2015, 7:19:14 PM

Rack 2, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.3601	53.6246	53.7053
Al 308.215	5407.66	5411.53	5404.20
As 188.980	123.475	125.780	124.063
B 249.678	271.043	271.953	271.659
Ba 389.178	324.368	325.061	324.817
Be 313.042	50.9970	50.9920	51.1290
Ca 370.602	213742	216506	215990
Cd 226.502	48.9631	48.8569	49.0272
Co 228.615	49.0014	49.4909	49.9389
Cr 267.716	103.283	103.409	103.417

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	110.210	109.467	110.109
Fe 271.441	61562.5	61531.0	61685.5
K 766.491	13808.6	13869.1	13812.8
Mg 279.078	49950.8	49961.3	49945.4
Mn 257.610	2442.03	2444.93	2448.65
Mo 202.032	98.9206	99.3747	100.843
Na 330.237	65089.3	65347.4	64978.4
Ni 231.604	101.964	101.550	101.681
Pb 220.353	490.753	490.514	499.995
Sb 206.834	53.0641	55.6530	56.2633
Se 196.026	94.7927	102.045	112.087
Sn 189.925	203.325	200.982	201.408
Sr 216.596	2653.85	2644.91	2653.87
Ti 334.941	102.126	102.419	101.969
Tl 190.794	41.2777	38.0432	34.8672
V 292.401	104.576	105.025	104.936
Zn 206.200	101.252	100.687	99.2639

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.5634	ppb	0.1806	0.3	4703.79
Al 308.215	5407.80	ppb	3.6663	0.1	39692.5
As 188.980	124.439	ppb	1.1980	1.0	84.9094
B 249.678	271.552	ppb	0.4642	0.2	4806.98
Ba 389.178	324.749	ppb	0.3520	0.1	7500.14
Be 313.042	51.0393	ppb	0.0777	0.2	98177.6
Ca 370.602	215413	ppb	1470	0.7	723847
Cd 226.502	48.9491	ppb	0.0860	0.2	2570.44
Co 228.615	49.4771	ppb	0.4689	0.9	551.907
Cr 267.716	103.370	ppb	0.0755	0.1	5649.74
Cu 324.754	109.929	ppb	0.4032	0.4	9142.04
Fe 271.441	61593.0	ppb	81.6520	0.1	97332.3
K 766.491	13830.2	ppb	33.7852	0.2	653236
Mg 279.078	49952.5	ppb	8.0804	0.0	145046
Mn 257.610	2445.20	ppb	3.3201	0.1	553440
Mo 202.032	99.7126	ppb	1.0046	1.0	642.539
Na 330.237	65138.4	ppb	189.338	0.3	3337.28
Ni 231.604	101.732	ppb	0.2115	0.2	319.729
Pb 220.353	493.754	ppb	5.4062	1.1	792.853
Sb 206.834	54.9935	ppb	1.6985	3.1	82.3908
Se 196.026	102.975	ppb	8.6845	8.4	45.2565
Sn 189.925	201.905	ppb	1.2477	0.6	142.609
Sr 216.596	2650.88	ppb	5.1661	0.2	31812.9
Ti 334.941	102.171	ppb	0.2287	0.2	30105.8
Tl 190.794	38.0627	ppb	3.2053	8.4	24.5165
V 292.401	104.846	ppb	0.2379	0.2	2904.42
Zn 206.200	100.401	ppb	1.0244	1.0	108.720

680-110726-a-1-a (Samp)

3/20/2015, 7:23:59 PM

Rack 2, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2230u	0.0479	0.2236
Al 308.215	404.651	403.173	404.342
As 188.980	-1.8936u	3.4144	3.3029

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	56.2629	56.1704	56.0429
Ba 389.178	81.1676	80.6548	80.4556
Be 313.042	0.0388	0.0479	0.0343
Ca 370.602	5561	5552	5573
Cd 226.502	0.4673	0.4439	0.3795
Co 228.615	0.0393	0.6045	0.3893
Cr 267.716	77.1957	77.1158	77.4290
Cu 324.754	6.5808	6.5838	6.4821
Fe 271.441	753.762	757.366	758.647
K 766.491	3273.79	3271.80	3274.92
Mg 279.078	1303.41	1298.16	1308.77
Mn 257.610	23.3639	23.2601	23.4495
Mo 202.032	0.5806	0.6074	0.7239
Na 330.237	24900.2	24934.8	24965.0
Ni 231.604	3.2244	2.7293	2.6538
Pb 220.353	0.3998	4.2254	-0.5767u
Sb 206.834	0.7042	-1.4435u	-0.3120
Se 196.026	-3.9443u	-5.1109u	-0.9400u
Sn 189.925	0.0585	-2.8476u	-0.1991u
Sr 216.596	104.271	103.007	103.992
Ti 334.941	2.3222	2.3453	2.3436
Tl 190.794	-1.1116u	-0.2874u	-1.4518u
V 292.401	2.0225	1.6354	1.7641
Zn 206.200	54.1360	54.2281	54.5979

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0162	ppb	0.2250	1391.4	-19.3949
Al 308.215	404.055	ppb	0.7796	0.2	3405.42
As 188.980	1.6079	ppb	3.0329	188.6	-5.4315
B 249.678	56.1587	ppb	0.1105	0.2	1090.12
Ba 389.178	80.7593	ppb	0.3673	0.5	1796.98
Be 313.042	0.0403	ppb	0.0069	17.2	-362.696
Ca 370.602	5562	ppb	10.47	0.2	18715
Cd 226.502	0.4302	ppb	0.0455	10.6	49.0096
Co 228.615	0.3444	ppb	0.2853	82.8	-3.8081
Cr 267.716	77.2468	ppb	0.1628	0.2	4200.50
Cu 324.754	6.5489	ppb	0.0579	0.9	969.363
Fe 271.441	756.592	ppb	2.5333	0.3	1197.60
K 766.491	3273.50	ppb	1.5813	0.0	154841
Mg 279.078	1303.45	ppb	5.3047	0.4	3808.60
Mn 257.610	23.3579	ppb	0.0948	0.4	5356.53
Mo 202.032	0.6373	ppb	0.0762	12.0	9.1274
Na 330.237	24933.3	ppb	32.4429	0.1	1301.51
Ni 231.604	2.8692	ppb	0.3100	10.8	5.0639
Pb 220.353	1.3495	ppb	2.5380	188.1	12.4443
Sb 206.834	-0.3505	ppb	1.0744	306.6	3.1037
Se 196.026	-3.3317	ppb	2.1519	64.6	-2.9281
Sn 189.925	-0.9961	ppb	1.6086	161.5	-7.0020
Sr 216.596	103.757	ppb	0.6640	0.6	1243.12
Ti 334.941	2.3370	ppb	0.0129	0.6	682.582
Tl 190.794	-0.9503	ppb	0.5987	63.0	-10.0920
V 292.401	1.8073	ppb	0.1972	10.9	32.6026
Zn 206.200	54.3207	ppb	0.2445	0.5	57.8993

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Cont Calib Verif (CCV) 3/20/2015, 7:28:44 PM Rack 2, Tube 37

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	496.232	499.747	496.901
Al 308.215	4921.84	4936.63	4935.37
As 188.980	498.312	498.227	495.449
B 249.678	494.530	499.274	500.646
Ba 389.178	4924.28	4934.81	4933.38
Be 313.042	497.893	497.262	499.726
Ca 370.602	5013	5019	5039
Cd 226.502	502.204	504.590	503.136
Co 228.615	504.219	504.944	506.212
Cr 267.716	5051.44	5068.76	5073.29
Cu 324.754	5213.99	5189.56	5170.23
Fe 271.441	4968.61	4971.71	4977.60
K 766.491	10810.1	10835.5	10836.0
Mg 279.078	4976.03	5002.31	4996.51
Mn 257.610	5078.75	5072.44	5066.91
Mo 202.032	495.364	497.522	497.374
Na 330.237	7504.85	7552.57	7688.29
Ni 231.604	2511.43	2549.78	2547.92
Pb 220.353	501.089	501.946	498.667
Sb 206.834	1012.81	1003.69	1002.02
Se 196.026	5072.02	5096.55	5103.23
Sn 189.925	4968.86	5016.30	4986.66
Sr 216.596	2446.33	2464.15	2466.79
Ti 334.941	487.413	488.843	489.276
Tl 190.794	5081.95	5095.20	5076.82
V 292.401	4967.65	4978.09	4978.53
Zn 206.200	2492.49	2496.05	2499.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.627	ppb	1.8662	0.4	44668.5	99.52537
Al 308.215	4931.28	ppb	8.2003	0.2	36937.6	98.62558
As 188.980	497.329	ppb	1.6290	0.3	360.891	99.46585
B 249.678	498.150	ppb	3.2091	0.6	9032.07	99.62999
Ba 389.178	4930.83	ppb	5.7110	0.1	112176	98.61650
Be 313.042	498.294	ppb	1.2796	0.3	962023	99.65871
Ca 370.602	5024	ppb	13.73	0.3	17306	100.47758
Cd 226.502	503.310	ppb	1.2021	0.2	22613.1	100.66197
Co 228.615	505.125	ppb	1.0085	0.2	5675.54	101.02499
Cr 267.716	5064.50	ppb	11.5330	0.2	273184	101.28994
Cu 324.754	5191.26	ppb	21.9294	0.4	409238	103.82520
Fe 271.441	4972.64	ppb	4.5673	0.1	7959.87	99.45284
K 766.491	10827.2	ppb	14.8402	0.1	511463	108.27213
Mg 279.078	4991.62	ppb	13.8078	0.3	14407.3	99.83234
Mn 257.610	5072.70	ppb	5.9236	0.1	1146892	101.45395
Mo 202.032	496.753	ppb	1.2054	0.2	3189.63	99.35064
Na 330.237	7581.90	ppb	95.1707	1.3	385.674	101.09204
Ni 231.604	2536.38	ppb	21.6260	0.9	7936.52	101.45505
Pb 220.353	500.567	ppb	1.7007	0.3	803.466	100.11348
Sb 206.834	1006.17	ppb	5.8055	0.6	1505.84	100.61731
Se 196.026	5090.60	ppb	16.4306	0.3	2256.01	101.81198
Sn 189.925	4990.61	ppb	23.9683	0.5	3673.30	99.81214
Sr 216.596	2459.09	ppb	11.1273	0.5	29301.5	98.36357

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	488.511	ppb	0.9751	0.2	143532	97.70213
Tl 190.794	5084.66	ppb	9.4847	0.2	5600.90	101.69319
V 292.401	4974.76	ppb	6.1600	0.1	140460	99.49511
Zn 206.200	2495.93	ppb	3.3702	0.1	2632.94	99.83703

Cont Calib Blank (CCB)

3/20/2015, 7:33:29 PM

Rack 2, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1527u	0.2577	0.2639
Al 308.215	-3.9664u	-1.8521u	-3.4929u
As 188.980	0.4048	-2.8818u	2.1543
B 249.678	5.4821	4.5656	3.8535
Ba 389.178	-0.0914u	0.8568	0.4991
Be 313.042	0.0076	0.0042	0.0058
Ca 370.602	1.582	2.463	1.299
Cd 226.502	-0.0136u	0.0023	-0.0858u
Co 228.615	-0.4076u	-0.0230u	0.4652
Cr 267.716	0.1311	0.2627	-0.1333u
Cu 324.754	-0.2903u	0.0594	0.1796
Fe 271.441	5.2600	3.8244	2.6040
K 766.491	0.1426	0.2969	-0.0706u
Mg 279.078	-1.7803u	-1.4060u	-2.1091u
Mn 257.610	0.1194	0.0968	0.0641
Mo 202.032	-0.3606u	0.5485	0.4645
Na 330.237	77.3559	-75.1295u	-35.5658u
Ni 231.604	-0.0145u	0.0726	0.3073
Pb 220.353	-1.3154u	0.4779	-1.0354u
Sb 206.834	1.4110	-0.4811u	-0.7977u
Se 196.026	-0.4586u	-3.8311u	-7.4504u
Sn 189.925	-0.3069u	0.7686	2.3708
Sr 216.596	0.0539	0.1309	0.0449
Ti 334.941	0.1096	0.0836	0.1239
Tl 190.794	-3.0456u	0.7021	-3.5670u
V 292.401	0.3262	0.1822	0.1369
Zn 206.200	0.7359	0.7939	-0.7438u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1230	ppb	0.2387	194.1	-6.0342	0.12295
Al 308.215	-3.1038	ppb	1.1096	35.7	454.337	-3.10379
As 188.980	-0.1076	ppb	2.5568	2376.9	-6.6942	-0.10757
B 249.678	4.6337	ppb	0.8165	17.6	166.787	4.63375
Ba 389.178	0.4215	ppb	0.4788	113.6	-34.3262	0.42152
Be 313.042	0.0059	ppb	0.0017	28.5	-428.211	0.00586
Ca 370.602	1.782	ppb	0.6070	34.1	21.62	1.78154
Cd 226.502	-0.0324	ppb	0.0470	145.0	24.1363	-0.03238
Co 228.615	0.0115	ppb	0.4374	3793.9	-7.8121	0.01153
Cr 267.716	0.0869	ppb	0.2017	232.2	37.5120	0.08686
Cu 324.754	-0.0171	ppb	0.2441	1428.1	451.913	-0.01709
Fe 271.441	3.8961	ppb	1.3295	34.1	8.0753	3.89612
K 766.491	0.1230	ppb	0.1846	150.1	300.577	0.12296
Mg 279.078	-1.7652	ppb	0.3518	19.9	18.5221	-1.76516
Mn 257.610	0.0934	ppb	0.0278	29.8	84.4485	0.09343
Mo 202.032	0.2175	ppb	0.5024	231.0	6.4662	0.21750

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-11.1131	ppb	79.1290	712.0	29.4528	-11.11314
Ni 231.604	0.1218	ppb	0.1665	136.7	-3.6026	0.12178
Pb 220.353	-0.6243	ppb	0.9647	154.5	9.2226	-0.62429
Sb 206.834	0.0441	ppb	1.1943	2710.9	2.6683	0.04406
Se 196.026	-3.9134	ppb	3.4966	89.3	-3.1976	-3.91339
Sn 189.925	0.9442	ppb	1.3475	142.7	-5.5789	0.94417
Sr 216.596	0.0765	ppb	0.0473	61.8	2.0128	0.07655
Ti 334.941	0.1057	ppb	0.0204	19.3	26.5027	0.10573
Tl 190.794	-1.9702	ppb	2.3289	118.2	-11.1108	-1.97017
V 292.401	0.2151	ppb	0.0989	46.0	-8.3423	0.21512
Zn 206.200	0.2620	ppb	0.8715	332.6	0.7986	0.26202

680-110742-a-1-a (Samp)

3/20/2015, 7:38:14 PM

Rack 2, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0615u	0.2040	0.0810
Al 308.215	19.3143	17.9089	17.6018
As 188.980	-0.2453u	1.7228	-2.4915u
B 249.678	9.3546	9.5732	9.0055
Ba 389.178	73.8893	74.5739	73.5929
Be 313.042	-0.0245u	-0.0127	-0.0195u
Ca 370.602	96300	96415	96449
Cd 226.502	0.1412	0.1008	-0.0275u
Co 228.615	-0.3489u	-0.7145u	-0.4704u
Cr 267.716	0.4273	0.2405	0.4971
Cu 324.754	0.4527	0.9484	0.8071
Fe 271.441	32.5104	31.1925	30.0683
K 766.491	635.737	635.395	636.018
Mg 279.078	24601.8	24613.0	24576.7
Mn 257.610	2.7093	2.6328	2.6212
Mo 202.032	0.8002	0.6497	0.3152
Na 330.237	5161.62	5091.03	5468.10
Ni 231.604	1.4631	0.7896	3.3003
Pb 220.353	-0.6284u	-1.4600u	-0.8253u
Sb 206.834	-1.7176u	1.5137	4.0938
Se 196.026	3.5733	-3.4505u	8.3467
Sn 189.925	-0.2926u	-0.2824u	-0.4711u
Sr 216.596	133.650	134.118	133.200
Ti 334.941	0.2063	0.1604	0.1474
Tl 190.794	0.1189	-2.1698u	-4.5676u
V 292.401	0.4864	0.3964	0.2834
Zn 206.200	6.7196	4.7650	5.6806

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1155	ppb	0.0773	66.9	-12.2379
Al 308.215	18.2750	ppb	0.9131	5.0	609.329
As 188.980	-0.3380	ppb	2.1087	623.9	-6.8649
B 249.678	9.3111	ppb	0.2863	3.1	250.747
Ba 389.178	74.0187	ppb	0.5031	0.7	1692.37
Be 313.042	-0.0189	ppb	0.0059	31.2	-443.031
Ca 370.602	96388	ppb	78.19	0.1	324178
Cd 226.502	0.0715	ppb	0.0881	123.2	29.2731
Co 228.615	-0.5113	ppb	0.1862	36.4	-13.6913

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.3883	ppb	0.1327	34.2	53.8939
Cu 324.754	0.7361	ppb	0.2554	34.7	511.256
Fe 271.441	31.2571	ppb	1.2223	3.9	51.2568
K 766.491	635.717	ppb	0.3124	0.0	30307.9
Mg 279.078	24597.1	ppb	18.5843	0.1	71461.4
Mn 257.610	2.6544	ppb	0.0479	1.8	861.636
Mo 202.032	0.5884	ppb	0.2482	42.2	8.8464
Na 330.237	5240.25	ppb	200.455	3.8	297.359
Ni 231.604	1.8510	ppb	1.2995	70.2	1.8149
Pb 220.353	-0.9712	ppb	0.4346	44.7	8.6774
Sb 206.834	1.2967	ppb	2.9118	224.6	4.4627
Se 196.026	2.8232	ppb	5.9343	210.2	-0.2108
Sn 189.925	-0.3487	ppb	0.1061	30.4	-6.5306
Sr 216.596	133.656	ppb	0.4591	0.3	1632.67
Ti 334.941	0.1714	ppb	0.0310	18.1	89.2650
Tl 190.794	-2.2062	ppb	2.3434	106.2	-11.3753
V 292.401	0.3887	ppb	0.1017	26.2	-3.2776
Zn 206.200	5.7217	ppb	0.9779	17.1	6.5785

680-110742-a-2-a (Samp)

3/20/2015, 7:42:58 PM

Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0737u	-0.0188u	0.1518
Al 308.215	60.2340	59.2371	59.4872
As 188.980	0.0709	1.3866	-0.0733u
B 249.678	8.2487	8.3168	8.1004
Ba 389.178	36.6484	37.6085	37.2353
Be 313.042	-0.0143u	-0.0114	-0.0137u
Ca 370.602	74251	73967	73911
Cd 226.502	0.0814	0.0038	0.2337
Co 228.615	0.5702	0.6518	0.6417
Cr 267.716	0.4026	0.4498	0.4626
Cu 324.754	1.7298	1.5808	1.6180
Fe 271.441	89.4410	94.9171	91.3662
K 766.491	925.328	926.188	927.137
Mg 279.078	14455.4	14463.5	14449.9
Mn 257.610	1.3727	1.3458	1.3374
Mo 202.032	1.3167	1.1312	0.8516
Na 330.237	14304.8	14453.6	14386.4
Ni 231.604	3.3814	2.5845	1.5292
Pb 220.353	-2.8721u	-1.6499u	-0.7853u
Sb 206.834	0.0715	2.8595	1.0819
Se 196.026	-13.3462u	-4.7326u	-2.2931u
Sn 189.925	1.4665	1.3114	4.3234
Sr 216.596	276.376	277.416	275.702
Ti 334.941	0.8096	0.7613	0.6882
Tl 190.794	1.1287	-2.8009u	-1.9900u
V 292.401	0.3647	0.1200	0.4207
Zn 206.200	8.8730	7.3603	7.5955

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0689	ppb	0.0854	123.9	-21.3229
Al 308.215	59.6528	ppb	0.5187	0.9	909.214

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.4614	ppb	0.8045	174.4	-6.2745
B 249.678	8.2220	ppb	0.1107	1.3	231.038
Ba 389.178	37.1641	ppb	0.4840	1.3	832.388
Be 313.042	-0.0131	ppb	0.0015	11.6	-440.640
Ca 370.602	74043	ppb	182.4	0.2	249031
Cd 226.502	0.1063	ppb	0.1169	110.0	30.9721
Co 228.615	0.6212	ppb	0.0445	7.2	-0.9615
Cr 267.716	0.4383	ppb	0.0316	7.2	56.7902
Cu 324.754	1.6429	ppb	0.0776	4.7	582.722
Fe 271.441	91.9081	ppb	2.7780	3.0	147.203
K 766.491	926.218	ppb	0.9048	0.1	44022.8
Mg 279.078	14456.3	ppb	6.8103	0.0	42009.1
Mn 257.610	1.3520	ppb	0.0185	1.4	485.901
Mo 202.032	1.0998	ppb	0.2341	21.3	12.1282
Na 330.237	14381.6	ppb	74.4974	0.5	763.794
Ni 231.604	2.4984	ppb	0.9291	37.2	3.8447
Pb 220.353	-1.7691	ppb	1.0485	59.3	7.4217
Sb 206.834	1.3377	ppb	1.4115	105.5	4.5149
Se 196.026	-6.7906	ppb	5.8069	85.5	-4.4717
Sn 189.925	2.3671	ppb	1.6960	71.6	-4.5255
Sr 216.596	276.498	ppb	0.8637	0.3	3330.39
Ti 334.941	0.7530	ppb	0.0611	8.1	241.385
Tl 190.794	-1.2207	ppb	2.0747	170.0	-10.2996
V 292.401	0.3018	ppb	0.1599	53.0	-6.0654
Zn 206.200	7.9430	ppb	0.8140	10.2	8.9319

680-110742-a-3-a (Samp)

3/20/2015, 7:47:43 PM

Rack 2, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0851u	-0.2109u	0.1068
Al 308.215	201.357	202.529	202.477
As 188.980	-0.3007u	-0.4712u	-4.0112u
B 249.678	3.2283	3.0795	2.6148
Ba 389.178	21.0818	21.1633	21.0619
Be 313.042	-0.0075	-0.0059	-0.0074
Ca 370.602	52486	52591	52619
Cd 226.502	0.2802	0.1465	0.1257
Co 228.615	-0.0247u	-0.0172u	-0.2360u
Cr 267.716	0.5934	0.7515	0.4156
Cu 324.754	1.4678	1.5677	1.3382
Fe 271.441	203.079	203.225	193.687
K 766.491	689.244	690.119	689.394
Mg 279.078	9527.21	9518.28	9521.05
Mn 257.610	2.1482	2.1757	2.2054
Mo 202.032	0.8394	0.8378	0.8884
Na 330.237	9262.48	9101.70	9074.04
Ni 231.604	3.4282	2.4174	2.7639
Pb 220.353	2.0093	0.1884	1.3415
Sb 206.834	2.7746	1.8906	1.0828
Se 196.026	1.4649	-2.7666u	-0.7236u
Sn 189.925	1.6849	2.5749	1.6496
Sr 216.596	124.945	125.250	124.842
Ti 334.941	2.7798	2.9218	2.8585

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-0.5135u	-1.5586u	-5.8159u
V 292.401	0.1220	0.5012	0.4186
Zn 206.200	4.4506	7.1970	3.8066

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0631	ppb	0.1600	253.6	-27.5964
Al 308.215	202.121	ppb	0.6623	0.3	1941.72
As 188.980	-1.5944	ppb	2.0947	131.4	-7.7951
B 249.678	2.9742	ppb	0.3200	10.8	136.547
Ba 389.178	21.1023	ppb	0.0537	0.3	456.553
Be 313.042	-0.0069	ppb	0.0009	12.6	-435.627
Ca 370.602	52566	ppb	70.32	0.1	176799
Cd 226.502	0.1841	ppb	0.0839	45.5	35.0360
Co 228.615	-0.0926	ppb	0.1242	134.1	-8.9305
Cr 267.716	0.5868	ppb	0.1681	28.6	64.7602
Cu 324.754	1.4579	ppb	0.1151	7.9	568.196
Fe 271.441	199.997	ppb	5.4652	2.7	317.951
K 766.491	689.585	ppb	0.4679	0.1	32851.1
Mg 279.078	9522.18	ppb	4.5702	0.0	27678.9
Mn 257.610	2.1764	ppb	0.0286	1.3	632.821
Mo 202.032	0.8552	ppb	0.0288	3.4	10.5522
Na 330.237	9146.07	ppb	101.755	1.1	496.635
Ni 231.604	2.8698	ppb	0.5137	17.9	5.0181
Pb 220.353	1.1798	ppb	0.9212	78.1	12.0746
Sb 206.834	1.9160	ppb	0.8462	44.2	5.3527
Se 196.026	-0.6751	ppb	2.1162	313.5	-1.7601
Sn 189.925	1.9698	ppb	0.5244	26.6	-4.8200
Sr 216.596	125.012	ppb	0.2119	0.2	1513.48
Ti 334.941	2.8534	ppb	0.0711	2.5	850.091
Tl 190.794	-2.6293	ppb	2.8087	106.8	-11.8683
V 292.401	0.3473	ppb	0.1994	57.4	-4.7996
Zn 206.200	5.1514	ppb	1.8005	35.0	5.9802

lcsd 680-375261/10-a (Samp) 3/20/2015, 7:52:27 PM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.9888	52.8048	51.7388
Al 308.215	5013.47	5028.91	5005.35
As 188.980	101.872	105.100	104.716
B 249.678	197.384	198.652	198.477
Ba 389.178	98.3332	97.7920	97.6922
Be 313.042	51.3835	51.5004	51.1830
Ca 370.602	5211	5220	5194
Cd 226.502	50.9844	51.0891	50.9553
Co 228.615	51.1440	51.6590	51.5980
Cr 267.716	105.088	105.430	105.042
Cu 324.754	106.082	107.820	105.577
Fe 271.441	5041.39	5065.38	5042.73
K 766.491	5537.66	5553.43	5510.86
Mg 279.078	4964.72	4982.77	4961.39
Mn 257.610	532.443	533.971	532.078
Mo 202.032	99.2801	100.489	100.089
Na 330.237	5233.00	5318.20	5285.33

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	102.926	103.617	102.822
Pb 220.353	501.915	505.282	501.726
Sb 206.834	55.1311	51.1973	51.5674
Se 196.026	101.096	101.504	95.9956
Sn 189.925	198.504	201.024	200.506
Sr 216.596	98.0006	98.3018	97.9730
Ti 334.941	102.009	102.359	101.697
Tl 190.794	42.8312	41.9984	40.2626
V 292.401	103.942	104.144	103.522
Zn 206.200	102.799	100.649	102.412

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1774	ppb	0.5575	1.1	4672.08
Al 308.215	5015.91	ppb	11.9662	0.2	36845.8
As 188.980	103.896	ppb	1.7631	1.7	70.1321
B 249.678	198.171	ppb	0.6870	0.3	3630.20
Ba 389.178	97.9391	ppb	0.3449	0.4	2199.73
Be 313.042	51.3556	ppb	0.1605	0.3	98724.5
Ca 370.602	5208	ppb	13.27	0.3	17540
Cd 226.502	51.0096	ppb	0.0704	0.1	2340.64
Co 228.615	51.4670	ppb	0.2814	0.5	570.489
Cr 267.716	105.187	ppb	0.2119	0.2	5710.38
Cu 324.754	106.493	ppb	1.1770	1.1	8845.20
Fe 271.441	5049.83	ppb	13.4815	0.3	7988.06
K 766.491	5533.98	ppb	21.5215	0.4	261562
Mg 279.078	4969.62	ppb	11.5030	0.2	14443.3
Mn 257.610	532.830	ppb	1.0044	0.2	120575
Mo 202.032	99.9529	ppb	0.6161	0.6	646.586
Na 330.237	5278.84	ppb	42.9715	0.8	296.897
Ni 231.604	103.122	ppb	0.4322	0.4	319.198
Pb 220.353	502.974	ppb	2.0006	0.4	803.228
Sb 206.834	52.6319	ppb	2.1723	4.1	77.9666
Se 196.026	99.5319	ppb	3.0692	3.1	42.8144
Sn 189.925	200.011	ppb	1.3308	0.7	141.195
Sr 216.596	98.0918	ppb	0.1824	0.2	1177.01
Ti 334.941	102.022	ppb	0.3312	0.3	29979.4
Tl 190.794	41.6974	ppb	1.3105	3.1	36.4299
V 292.401	103.869	ppb	0.3175	0.3	2898.52
Zn 206.200	101.953	ppb	1.1459	1.1	108.417

CRI (Samp)

3/20/2015, 7:57:12 PM

Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.1341	10.5040	10.3754
Al 308.215	220.171	222.652	222.350
As 188.980	18.8677	22.1251	22.8455
B 249.678	101.316	101.873	101.532
Ba 389.178	9.8272	10.2763	9.8069
Be 313.042	4.2448	4.2591	4.2478
Ca 370.602	557.1	559.2	557.3
Cd 226.502	5.0419	5.1643	5.0697
Co 228.615	10.0901	9.9661	10.6420
Cr 267.716	10.3261	10.6238	10.4389

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	21.8769	22.2027	21.9512
Fe 271.441	56.8404	61.6319	56.4143
K 766.491	1157.72	1160.41	1159.37
Mg 279.078	523.140	525.837	525.298
Mn 257.610	11.1554	11.2348	11.1653
Mo 202.032	9.3683	9.8205	10.2253
Na 330.237	1156.08	1144.18	1054.78
Ni 231.604	41.8777	43.3250	43.4651
Pb 220.353	10.3978	9.4036	6.9032
Sb 206.834	20.1910	20.4994	23.3653
Se 196.026	21.9902	13.5027	18.8500
Sn 189.925	51.2692	51.6576	50.4887
Sr 216.596	9.6230	10.2904	10.0706
Ti 334.941	10.1606	10.1959	10.1858
Tl 190.794	27.6424	27.4186	25.0903
V 292.401	10.5269	10.8393	10.4443
Zn 206.200	25.1005	23.3886	23.0834

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3378	ppb	0.1878	1.8	911.943
Al 308.215	221.725	ppb	1.3536	0.6	2085.38
As 188.980	21.2795	ppb	2.1195	10.0	9.1148
B 249.678	101.574	ppb	0.2811	0.3	1907.66
Ba 389.178	9.9702	ppb	0.2654	2.7	184.164
Be 313.042	4.2506	ppb	0.0076	0.2	7767.88
Ca 370.602	557.9	ppb	1.135	0.2	1897
Cd 226.502	5.0919	ppb	0.0641	1.3	254.124
Co 228.615	10.2327	ppb	0.3599	3.5	107.033
Cr 267.716	10.4629	ppb	0.1503	1.4	597.161
Cu 324.754	22.0103	ppb	0.1708	0.8	2186.97
Fe 271.441	58.2955	ppb	2.8972	5.0	95.2900
K 766.491	1159.17	ppb	1.3550	0.1	55020.7
Mg 279.078	524.758	ppb	1.4271	0.3	1547.38
Mn 257.610	11.1852	ppb	0.0433	0.4	2596.32
Mo 202.032	9.8047	ppb	0.4287	4.4	68.0172
Na 330.237	1118.35	ppb	55.3737	5.0	86.7922
Ni 231.604	42.8892	ppb	0.8788	2.0	130.281
Pb 220.353	8.9015	ppb	1.8006	20.2	24.2253
Sb 206.834	21.3519	ppb	1.7504	8.2	33.2442
Se 196.026	18.1143	ppb	4.2913	23.7	6.5687
Sn 189.925	51.1385	ppb	0.5953	1.2	31.4297
Sr 216.596	9.9947	ppb	0.3401	3.4	119.456
Ti 334.941	10.1808	ppb	0.0182	0.2	2987.49
Tl 190.794	26.7171	ppb	1.4133	5.3	20.4936
V 292.401	10.6035	ppb	0.2083	2.0	283.238
Zn 206.200	23.8575	ppb	1.0872	4.6	25.7583

Cont Calib Verif (CCV) 3/20/2015, 8:01:57 PM Rack 3, Tube 1
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	497.607	491.734	497.140
Al 308.215	4922.60	4901.06	4913.54
As 188.980	500.124	499.140	496.902

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	493.627	494.014	496.368
Ba 389.178	4918.34	4899.50	4914.28
Be 313.042	497.025	494.760	493.240
Ca 370.602	4985	4970	4986
Cd 226.502	499.638	498.634	498.937
Co 228.615	502.177	501.202	503.976
Cr 267.716	5039.61	5026.98	5032.15
Cu 324.754	5207.06	5160.84	5172.52
Fe 271.441	4951.46	4919.82	4933.65
K 766.491	10827.5	10755.3	10762.8
Mg 279.078	4964.12	4963.10	4963.10
Mn 257.610	5043.66	5038.97	5049.77
Mo 202.032	493.033	494.366	493.524
Na 330.237	7505.28	7521.66	7401.26
Ni 231.604	2526.91	2525.58	2528.44
Pb 220.353	489.931	491.769	495.771
Sb 206.834	1004.26	1003.34	999.159
Se 196.026	5045.76	5043.03	5059.90
Sn 189.925	4933.89	4885.21	4909.77
Sr 216.596	2452.32	2444.37	2430.05
Ti 334.941	489.384	487.321	487.457
Tl 190.794	5071.15	5064.85	5052.41
V 292.401	4967.26	4945.39	4951.27
Zn 206.200	2448.64	2462.23	2465.14

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.494	ppb	3.2645	0.7	44477.0	99.09874
Al 308.215	4912.40	ppb	10.8171	0.2	36798.4	98.24797
As 188.980	498.722	ppb	1.6512	0.3	361.922	99.74446
B 249.678	494.670	ppb	1.4838	0.3	8969.62	98.93392
Ba 389.178	4910.71	ppb	9.9143	0.2	111718	98.21414
Be 313.042	495.009	ppb	1.9046	0.4	955679	99.00173
Ca 370.602	4980	ppb	8.757	0.2	17160	99.60941
Cd 226.502	499.070	ppb	0.5146	0.1	22422.9	99.81390
Co 228.615	502.451	ppb	1.4073	0.3	5645.55	100.49030
Cr 267.716	5032.92	ppb	6.3512	0.1	271481	100.65830
Cu 324.754	5180.14	ppb	24.0346	0.5	408363	103.60284
Fe 271.441	4934.98	ppb	15.8609	0.3	7899.87	98.69950
K 766.491	10781.9	ppb	39.6936	0.4	509322	107.81870
Mg 279.078	4963.44	ppb	0.5885	0.0	14326.0	99.26884
Mn 257.610	5044.13	ppb	5.4177	0.1	1140435	100.88270
Mo 202.032	493.641	ppb	0.6744	0.1	3169.66	98.72820
Na 330.237	7476.07	ppb	65.3001	0.9	380.675	99.68089
Ni 231.604	2526.98	ppb	1.4275	0.1	7907.10	101.07903
Pb 220.353	492.490	ppb	2.9857	0.6	790.718	98.49804
Sb 206.834	1002.25	ppb	2.7191	0.3	1500.01	100.22536
Se 196.026	5049.56	ppb	9.0574	0.2	2237.81	100.99124
Sn 189.925	4909.63	ppb	24.3409	0.5	3613.59	98.19252
Sr 216.596	2442.25	ppb	11.2869	0.5	29100.6	97.68983
Ti 334.941	488.054	ppb	1.1540	0.2	143398	97.61086
Tl 190.794	5062.80	ppb	9.5361	0.2	5576.79	101.25600
V 292.401	4954.64	ppb	11.3168	0.2	139892	99.09283
Zn 206.200	2458.67	ppb	8.8038	0.4	2593.54	98.34682

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Cont Calib Blank (CCB) 3/20/2015, 8:06:42 PM Rack 3, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0411u	0.1601	0.3795
Al 308.215	-3.4076u	-3.0132u	-1.4955u
As 188.980	1.0993	-0.5723u	-4.2813u
B 249.678	5.3041	4.3744	3.8772
Ba 389.178	-0.0527u	0.1803	0.2138
Be 313.042	0.0067	0.0103	0.0045
Ca 370.602	5.238	1.670	2.095
Cd 226.502	0.0481	0.0494	0.0263
Co 228.615	0.3871	0.5337	0.1386
Cr 267.716	0.2636	0.2919	0.2662
Cu 324.754	0.1227	-0.3202u	-0.1708u
Fe 271.441	3.3094	6.1176	6.5639
K 766.491	-0.3214u	-0.0230u	-0.2677u
Mg 279.078	0.0878	-1.6969u	1.9595
Mn 257.610	0.1056	0.0737	0.0885
Mo 202.032	0.0254	0.2813	0.4752
Na 330.237	37.5629	189.030	247.032
Ni 231.604	0.4610	0.7079	-0.0203u
Pb 220.353	-1.8616u	0.4376	0.2002
Sb 206.834	1.1762	0.2954	2.5210
Se 196.026	-4.5753u	-5.6497u	0.5343
Sn 189.925	2.1536	3.1995	-1.3810u
Sr 216.596	-0.2044u	-0.0786u	0.5502
Ti 334.941	0.1666	0.0611	0.0721
Tl 190.794	0.6188	-3.4141u	-1.4663u
V 292.401	0.4376	0.0514	0.0617
Zn 206.200	-0.2067u	0.5622	-0.5362u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1662	ppb	0.2104	126.6	-2.1529	0.16616
Al 308.215	-2.6387	ppb	1.0096	38.3	457.703	-2.63875
As 188.980	-1.2514	ppb	2.7538	220.0	-7.5400	-1.25145
B 249.678	4.5186	ppb	0.7243	16.0	164.743	4.51856
Ba 389.178	0.1138	ppb	0.1452	127.6	-41.3264	0.11378
Be 313.042	0.0071	ppb	0.0029	40.9	-425.760	0.00714
Ca 370.602	3.001	ppb	1.949	65.0	25.71	3.00069
Cd 226.502	0.0413	ppb	0.0130	31.5	27.4438	0.04126
Co 228.615	0.3531	ppb	0.1997	56.6	-3.9740	0.35313
Cr 267.716	0.2739	ppb	0.0156	5.7	47.6010	0.27387
Cu 324.754	-0.1228	ppb	0.2253	183.5	443.595	-0.12278
Fe 271.441	5.3303	ppb	1.7643	33.1	10.3685	5.33029
K 766.491	-0.2040	ppb	0.1591	78.0	285.139	-0.20404
Mg 279.078	0.1168	ppb	1.8284	1565.6	23.9869	0.11679
Mn 257.610	0.0893	ppb	0.0160	17.9	83.5188	0.08929
Mo 202.032	0.2606	ppb	0.2257	86.6	6.7433	0.26064
Na 330.237	157.875	ppb	108.154	68.5	38.0826	157.87489
Ni 231.604	0.3828	ppb	0.3703	96.7	-2.7857	0.38285
Pb 220.353	-0.4080	ppb	1.2645	310.0	9.5636	-0.40795
Sb 206.834	1.3309	ppb	1.1208	84.2	4.5168	1.33086
Se 196.026	-3.2302	ppb	3.3041	102.3	-2.8948	-3.23025
Sn 189.925	1.3240	ppb	2.4003	181.3	-5.2988	1.32401
Sr 216.596	0.0891	ppb	0.4043	453.9	2.1634	0.08907

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.1000	ppb	0.0580	58.0	24.8018	0.09996
Tl 190.794	-1.4205	ppb	2.0169	142.0	-10.5053	-1.42051
V 292.401	0.1836	ppb	0.2200	119.9	-9.2664	0.18356
Zn 206.200	-0.0602	ppb	0.5637	935.9	0.4571	-0.06023

mb 680-375384/1-a (Samp) 3/20/2015, 8:11:28 PM Rack 3, Tube 3
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0361	-0.1309u	-0.1340u
Al 308.215	0.4883	-0.5032u	0.2388
As 188.980	-0.1198u	0.3780	-4.1653u
B 249.678	0.5026	0.2105	0.0372
Ba 389.178	0.8725	-0.7917u	0.0952
Be 313.042	0.0062	0.0083	0.0082
Ca 370.602	16.60	17.19	16.11
Cd 226.502	0.1550	0.1088	-0.0610u
Co 228.615	-0.2150u	0.1166	0.2312
Cr 267.716	0.4799	0.4455	0.3069
Cu 324.754	0.0521	0.2660	-0.1181u
Fe 271.441	12.8907	14.1766	14.2459
K 766.491	7.9955	7.8554	8.0733
Mg 279.078	0.9120	1.1189	4.3134
Mn 257.610	0.1440	0.1957	0.1680
Mo 202.032	0.2272	0.3206	0.4279
Na 330.237	107.512	118.669	166.566
Ni 231.604	1.0453	0.5671	0.3833
Pb 220.353	0.0986	-2.2791u	-0.6138u
Sb 206.834	1.3310	1.6314	-0.2985u
Se 196.026	-1.2959u	-3.9061u	-11.9112u
Sn 189.925	9.6045	8.3180	13.8053
Sr 216.596	0.1964	0.0267	0.0597
Ti 334.941	0.1884	0.1606	0.1683
Tl 190.794	2.0478	-2.6842u	-3.4610u
V 292.401	0.1512	0.3582	-0.0021u
Zn 206.200	4.8296	3.4645	4.8037

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0762	ppb	0.0973	127.7	-23.9418
Al 308.215	0.0746	ppb	0.5157	691.0	477.374
As 188.980	-1.3024	ppb	2.4918	191.3	-7.5777
B 249.678	0.2501	ppb	0.2352	94.1	88.0690
Ba 389.178	0.0586	ppb	0.8327	1420.1	-42.5656
Be 313.042	0.0076	ppb	0.0012	16.1	-424.953
Ca 370.602	16.63	ppb	0.5381	3.2	71.47
Cd 226.502	0.0676	ppb	0.1138	168.3	28.6860
Co 228.615	0.0443	ppb	0.2317	523.4	-7.4509
Cr 267.716	0.4107	ppb	0.0916	22.3	54.9895
Cu 324.754	0.0667	ppb	0.1925	288.7	458.522
Fe 271.441	13.7711	ppb	0.7632	5.5	23.6852
K 766.491	7.9747	ppb	0.1104	1.4	671.270
Mg 279.078	2.1148	ppb	1.9069	90.2	29.7878
Mn 257.610	0.1693	ppb	0.0259	15.3	101.657
Mo 202.032	0.3252	ppb	0.1004	30.9	7.1575

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	130.916	ppb	31.3743	24.0	36.6476
Ni 231.604	0.6652	ppb	0.3417	51.4	-1.9001
Pb 220.353	-0.9314	ppb	1.2203	131.0	8.7393
Sb 206.834	0.8880	ppb	1.0385	116.9	3.8851
Se 196.026	-5.7044	ppb	5.5314	97.0	-3.9913
Sn 189.925	10.5759	ppb	2.8697	27.1	1.5226
Sr 216.596	0.0943	ppb	0.0900	95.5	2.2331
Ti 334.941	0.1724	ppb	0.0143	8.3	46.0994
Tl 190.794	-1.3658	ppb	2.9817	218.3	-10.4474
V 292.401	0.1691	ppb	0.1808	106.9	-9.6977
Zn 206.200	4.3659	ppb	0.7808	17.9	5.1427

ics 680-375384/2-a (Samp) 3/20/2015, 8:16:13 PM Rack 3, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.0562	50.5871	50.7029
Al 308.215	4774.32	4759.01	4762.91
As 188.980	96.5762	97.9404	96.6492
B 249.678	184.491	184.881	185.692
Ba 389.178	94.1192	94.6176	94.1355
Be 313.042	48.5957	48.4871	48.4992
Ca 370.602	4952	4947	4945
Cd 226.502	48.5373	48.5048	48.4221
Co 228.615	48.4910	49.0221	48.2202
Cr 267.716	100.196	100.042	99.7124
Cu 324.754	101.929	99.3072	101.009
Fe 271.441	4801.28	4779.84	4791.57
K 766.491	5244.79	5226.49	5253.14
Mg 279.078	4740.33	4720.19	4718.81
Mn 257.610	506.103	504.668	504.280
Mo 202.032	94.4665	94.8384	93.0883
Na 330.237	5050.92	4904.68	5034.41
Ni 231.604	97.5643	98.8908	97.5516
Pb 220.353	480.202	476.593	475.267
Sb 206.834	46.5874	47.0374	46.5179
Se 196.026	86.4603	97.6281	93.0730
Sn 189.925	200.901	195.392	195.772
Sr 216.596	93.1461	93.0126	92.8988
Ti 334.941	97.0106	96.8332	96.9307
Tl 190.794	34.5487	38.7783	37.4386
V 292.401	97.7293	98.0027	97.3617
Zn 206.200	98.2370	98.0068	96.5973

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.7821	ppb	0.2444	0.5	4546.71
Al 308.215	4765.41	ppb	7.9536	0.2	35029.4
As 188.980	97.0553	ppb	0.7674	0.8	65.0782
B 249.678	185.021	ppb	0.6131	0.3	3394.65
Ba 389.178	94.2908	ppb	0.2831	0.3	2115.95
Be 313.042	48.5273	ppb	0.0595	0.1	93263.2
Ca 370.602	4948	ppb	3.505	0.1	16664
Cd 226.502	48.4881	ppb	0.0594	0.1	2226.13
Co 228.615	48.5778	ppb	0.4079	0.8	538.035

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	99.9834	ppb	0.2469	0.2	5429.52
Cu 324.754	100.748	ppb	1.3300	1.3	8392.50
Fe 271.441	4790.90	ppb	10.7347	0.2	7578.55
K 766.491	5241.48	ppb	13.6322	0.3	247752
Mg 279.078	4726.44	ppb	12.0432	0.3	13737.7
Mn 257.610	505.017	ppb	0.9604	0.2	114284
Mo 202.032	94.1311	ppb	0.9220	1.0	609.219
Na 330.237	4996.67	ppb	80.0895	1.6	282.612
Ni 231.604	98.0023	ppb	0.7695	0.8	303.153
Pb 220.353	477.354	ppb	2.5539	0.5	762.834
Sb 206.834	46.7142	ppb	0.2820	0.6	69.4983
Se 196.026	92.3871	ppb	5.6154	6.1	39.6392
Sn 189.925	197.355	ppb	3.0768	1.6	139.236
Sr 216.596	93.0192	ppb	0.1238	0.1	1116.20
Ti 334.941	96.9248	ppb	0.0889	0.1	28481.4
Tl 190.794	36.9219	ppb	2.1616	5.9	31.1997
V 292.401	97.6979	ppb	0.3216	0.3	2725.38
Zn 206.200	97.6137	ppb	0.8877	0.9	103.824

680-110799-a-3-a (Samp) 3/20/2015, 8:20:58 PM Rack 3, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0829u	-0.3629u	-0.0574u
Al 308.215	7010.34	7036.67	7015.37
As 188.980	38.1025	35.4667	33.1980
B 249.678	60.1551	61.0429	59.8006
Ba 389.178	39.0249	38.3462	38.6847
Be 313.042	0.9958	0.9897	1.0057
Ca 370.602	1384226x	1387802x	1385181x
Cd 226.502	0.4470	0.8183	0.8334
Co 228.615	6.6108	6.7163	6.9220
Cr 267.716	59.7655	60.1067	60.0760
Cu 324.754	22.4074	22.2241	22.1906
Fe 271.441	20736.2	20720.4	20660.6
K 766.491	5311.54	5307.67	5289.94
Mg 279.078	2834.99	2825.01	2836.17
Mn 257.610	469.584	469.062	470.196
Mo 202.032	8.0638	7.8756	7.5501
Na 330.237	663.904	606.139	460.943
Ni 231.604	29.4611	28.6786	31.4715
Pb 220.353	4.5095	5.3170	5.4031
Sb 206.834	0.8082	0.2307	1.1974
Se 196.026	100.322	90.4513	94.4026
Sn 189.925	9.0159	7.4597	8.5503
Sr 216.596	802.881	801.199	804.417
Ti 334.941	127.229	126.917	127.863
Tl 190.794	-1.2811u	-5.4330u	0.2031u
V 292.401	42.7602	42.0795	42.1247
Zn 206.200	55.9413	56.6114	58.7808

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1677b	ppb	0.1695	101.1	-66.4600
Al 308.215	7020.79b	ppb	13.9798	0.2	51366.7

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	35.5891b	ppb	2.4545	6.9	19.5450
B 249.678	60.3329b	ppb	0.6399	1.1	1115.37
Ba 389.178	38.6853b	ppb	0.3393	0.9	858.657
Be 313.042	0.9971b	ppb	0.0081	0.8	1983.76
Ca 370.602	1385737xb	ppb	1852	0.1	4660233
Cd 226.502	0.6996b	ppb	0.2188	31.3	174.613
Co 228.615	6.7497b	ppb	0.1583	2.3	71.8921
Cr 267.716	59.9827b	ppb	0.1888	0.3	3280.37
Cu 324.754	22.2740b	ppb	0.1167	0.5	2216.74
Fe 271.441	20705.7b	ppb	39.8774	0.2	32720.4
K 766.491	5303.05b	ppb	11.5174	0.2	250659
Mg 279.078	2832.06b	ppb	6.1347	0.2	8235.68
Mn 257.610	469.614b	ppb	0.5680	0.1	106333
Mo 202.032	7.8298b	ppb	0.2599	3.3	54.3886
Na 330.237	576.996b	ppb	104.572	18.1	53.5589
Ni 231.604	29.8704b	ppb	1.4407	4.8	91.3113
Pb 220.353	5.0765b	ppb	0.4929	9.7	19.5589
Sb 206.834	0.7454b	ppb	0.4864	65.2	4.7015
Se 196.026	95.0585b	ppb	4.9677	5.2	40.9542
Sn 189.925	8.3420b	ppb	0.7988	9.6	-0.1244
Sr 216.596	802.833b	ppb	1.6097	0.2	10123.6
Ti 334.941	127.336b	ppb	0.4823	0.4	37415.5
Tl 190.794	-2.1703b	ppb	2.9213	134.6	-14.2806
V 292.401	42.3215b	ppb	0.3806	0.9	1172.03
Zn 206.200	57.1111b	ppb	1.4843	2.6	61.5732

680-110799-a-3-aSD^5 (Samp) 3/20/2015, 8:25:44 PM

Rack 3, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0101u	-0.0931u	0.1249
Al 308.215	1440.37	1428.82	1413.73
As 188.980	8.0247	9.5114	6.4128
B 249.678	12.7470	12.3652	12.2414
Ba 389.178	8.4108	9.0866	9.2603
Be 313.042	0.1980	0.1938	0.1920
Ca 370.602	301568	301167	296908
Cd 226.502	0.1598	-0.0229	0.0636
Co 228.615	2.1536	1.9513	2.1049
Cr 267.716	13.3288	13.1810	13.0884
Cu 324.754	4.3802	4.5618	4.3613
Fe 271.441	4642.71	4627.90	4580.73
K 766.491	884.419	878.181	867.564
Mg 279.078	650.891	648.569	642.888
Mn 257.610	105.247	104.734	104.027
Mo 202.032	1.5198	1.9920	1.7132
Na 330.237	242.305	186.039	143.673
Ni 231.604	8.2340	8.2368	8.0761
Pb 220.353	-0.3289u	1.7429	1.5493
Sb 206.834	1.0798	3.5908	2.5228
Se 196.026	21.1345	13.9861	22.0768
Sn 189.925	5.0091	2.4634	1.9870
Sr 216.596	179.840	177.931	177.795
Ti 334.941	27.9863	27.8394	27.7548

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-0.8534u	1.2527	2.4209
V 292.401	8.7793	9.0245	9.0448
Zn 206.200	15.3287	10.9512	12.8657

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0072	ppb	0.1100	1520.7	-24.0266
Al 308.215	1427.64	ppb	13.3576	0.9	10825.1
As 188.980	7.9830	ppb	1.5497	19.4	-0.7465
B 249.678	12.4512	ppb	0.2635	2.1	295.721
Ba 389.178	8.9192	ppb	0.4488	5.0	164.036
Be 313.042	0.1946	ppb	0.0031	1.6	44.3409
Ca 370.602	299881	ppb	2582	0.9	1008510
Cd 226.502	0.0668	ppb	0.0914	136.7	54.7752
Co 228.615	2.0699	ppb	0.1056	5.1	16.2008
Cr 267.716	13.1994	ppb	0.1213	0.9	747.492
Cu 324.754	4.4344	ppb	0.1107	2.5	804.562
Fe 271.441	4617.11	ppb	32.3685	0.7	7297.77
K 766.491	876.721	ppb	8.5218	1.0	41686.1
Mg 279.078	647.450	ppb	4.1170	0.6	1901.17
Mn 257.610	104.669	ppb	0.6127	0.6	23749.1
Mo 202.032	1.7417	ppb	0.2374	13.6	16.0405
Na 330.237	190.672	ppb	49.4790	25.9	38.4393
Ni 231.604	8.1823	ppb	0.0920	1.1	22.0280
Pb 220.353	0.9878	ppb	1.1444	115.8	12.0662
Sb 206.834	2.3978	ppb	1.2601	52.6	6.2754
Se 196.026	19.0658	ppb	4.4243	23.2	7.0508
Sn 189.925	3.1532	ppb	1.6248	51.5	-3.9502
Sr 216.596	178.522	ppb	1.1433	0.6	2249.20
Ti 334.941	27.8602	ppb	0.1171	0.4	8182.71
Tl 190.794	0.9401	ppb	1.6594	176.5	-8.5612
V 292.401	8.9496	ppb	0.1478	1.7	236.376
Zn 206.200	13.0485	ppb	2.1944	16.8	14.4671

680-110799-a-3-aPDS (Samp) 3/20/2015, 8:30:29 PM Rack 3, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	93.2341	93.1539	94.7575
Al 308.215	8089.77	8078.99	8082.62
As 188.980	132.468	132.383	140.688
B 249.678	252.614	254.121	255.400
Ba 389.178	121.381	121.537	122.041
Be 313.042	95.4051	95.6760	95.8079
Ca 370.602	1351576x	1369353x	1365132x
Cd 226.502	91.7565	92.5569	92.4175
Co 228.615	97.9253	97.7363	99.2468
Cr 267.716	153.855	154.403	154.462
Cu 324.754	130.342	127.916	129.023
Fe 271.441	29529.3	29619.1	29603.6
K 766.491	20846.0	20764.1	20856.0
Mg 279.078	12144.4	12144.0	12148.0
Mn 257.610	1447.65	1451.09	1452.09
Mo 202.032	100.132	100.308	100.517
Na 330.237	12259.9	12399.0	12074.1

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	124.585	122.063	123.455
Pb 220.353	99.3320	96.0290	95.8940
Sb 206.834	97.4141	94.1451	96.3166
Se 196.026	212.329	206.842	217.194
Sn 189.925	108.944	103.159	101.157
Sr 216.596	870.649	873.287	872.708
Ti 334.941	222.365	222.346	222.530
Tl 190.794	14.4463	13.9225	15.4248
V 292.401	141.173	141.066	141.737
Zn 206.200	146.372	145.702	146.118

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	93.7151b	ppb	0.9036	1.0	8374.61
Al 308.215	8083.79b	ppb	5.4856	0.1	59087.4
As 188.980	135.180b	ppb	4.7707	3.5	93.0832
B 249.678	254.045b	ppb	1.3948	0.5	4573.03
Ba 389.178	121.653b	ppb	0.3451	0.3	2773.82
Be 313.042	95.6297b	ppb	0.2054	0.2	184710
Ca 370.602	1362020xb	ppb	9288	0.7	4580443
Cd 226.502	92.2436b	ppb	0.4276	0.5	4328.40
Co 228.615	98.3028b	ppb	0.8230	0.8	1101.32
Cr 267.716	154.240b	ppb	0.3349	0.2	8372.05
Cu 324.754	129.094b	ppb	1.2149	0.9	10636.0
Fe 271.441	29584.0b	ppb	48.0252	0.2	46760.4
K 766.491	20822.0b	ppb	50.4287	0.2	983332
Mg 279.078	12145.5b	ppb	2.1939	0.0	35262.7
Mn 257.610	1450.28b	ppb	2.3277	0.2	328131
Mo 202.032	100.319b	ppb	0.1930	0.2	647.810
Na 330.237	12244.3b	ppb	163.030	1.3	645.622
Ni 231.604	123.368b	ppb	1.2632	1.0	384.587
Pb 220.353	97.0850b	ppb	1.9471	2.0	165.219
Sb 206.834	95.9586b	ppb	1.6637	1.7	141.290
Se 196.026	212.122b	ppb	5.1792	2.4	93.1346
Sn 189.925	104.420b	ppb	4.0437	3.9	70.7175
Sr 216.596	872.215b	ppb	1.3868	0.2	10952.3
Ti 334.941	222.414b	ppb	0.1009	0.0	65366.7
Tl 190.794	14.5979b	ppb	0.7626	5.2	3.3897
V 292.401	141.326b	ppb	0.3606	0.3	3947.83
Zn 206.200	146.064b	ppb	0.3379	0.2	155.860

680-110799-a-3-b ms (Samp) 3/20/2015, 8:35:15 PM Rack 3, Tube 8

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.3914	51.7318	51.1493
Al 308.215	11511.0	11472.8	11516.7
As 188.980	133.077	132.011	136.033
B 249.678	229.948	230.706	231.240
Ba 389.178	120.711	120.380	120.615
Be 313.042	46.7282	46.7617	46.2700
Ca 370.602	1319243x	1317436x	1289709x
Cd 226.502	45.2116	45.2887	44.7553
Co 228.615	50.9929	50.3868	50.0431
Cr 267.716	142.893	142.958	141.127

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	123.247	121.875	122.715
Fe 271.441	22684.3	22689.7	22510.5
K 766.491	12577.2	12617.8	12662.7
Mg 279.078	7039.95	7040.49	7009.93
Mn 257.610	946.179	946.478	940.038
Mo 202.032	92.6385	92.8786	92.2885
Na 330.237	6025.59	6208.29	6235.37
Ni 231.604	118.156	116.574	117.474
Pb 220.353	441.849	437.083	429.393
Sb 206.834	43.3325	45.3588	48.3493
Se 196.026	189.915	184.803	185.850
Sn 189.925	182.612	180.521	179.788
Sr 216.596	808.188	811.453	800.162
Ti 334.941	205.805	205.388	205.228
Tl 190.794	32.5560	36.0815	28.5265
V 292.401	128.740	128.430	128.288
Zn 206.200	140.145	139.302	134.308

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.4242b	ppb	0.2927	0.6	4573.84
Al 308.215	11500.1b	ppb	23.8328	0.2	83843.9
As 188.980	133.707b	ppb	2.0835	1.6	92.0472
B 249.678	230.631b	ppb	0.6493	0.3	4169.13
Ba 389.178	120.569b	ppb	0.1703	0.1	2732.80
Be 313.042	46.5867b	ppb	0.2747	0.6	89987.2
Ca 370.602	1308796xb	ppb	16554	1.3	4401506
Cd 226.502	45.0852b	ppb	0.2883	0.6	2175.07
Co 228.615	50.4743b	ppb	0.4809	1.0	562.963
Cr 267.716	142.326b	ppb	1.0386	0.7	7724.18
Cu 324.754	122.612b	ppb	0.6915	0.6	10122.2
Fe 271.441	22628.2b	ppb	101.900	0.5	35763.9
K 766.491	12619.2b	ppb	42.7713	0.3	596065
Mg 279.078	7030.12b	ppb	17.4872	0.2	20415.9
Mn 257.610	944.232b	ppb	3.6349	0.4	213667
Mo 202.032	92.6019b	ppb	0.2967	0.3	598.577
Na 330.237	6156.42b	ppb	114.104	1.9	336.806
Ni 231.604	117.401b	ppb	0.7935	0.7	365.429
Pb 220.353	436.108b	ppb	6.2851	1.4	698.992
Sb 206.834	45.6802b	ppb	2.5238	5.5	68.9128
Se 196.026	186.856b	ppb	2.7001	1.4	81.7637
Sn 189.925	180.973b	ppb	1.4657	0.8	127.158
Sr 216.596	806.601b	ppb	5.8104	0.7	10141.9
Ti 334.941	205.474b	ppb	0.2980	0.1	60380.3
Tl 190.794	32.3880b	ppb	3.7803	11.7	23.6879
V 292.401	128.486b	ppb	0.2312	0.2	3589.06
Zn 206.200	137.918b	ppb	3.1552	2.3	147.021

680-110799-a-3-c msd (Samp) 3/20/2015, 8:40:00 PM Rack 3, Tube 9

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	54.2546	53.4740	53.0101
Al 308.215	12642.2	12701.8	12681.2
As 188.980	139.795	136.376	139.372

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	247.094	248.295	247.808
Ba 389.178	127.391	127.321	126.909
Be 313.042	48.4187	48.4495	48.4263
Ca 370.602	1392874x	1396915x	1391208x
Cd 226.502	46.8107	46.6320	46.3024
Co 228.615	52.8640	52.5876	52.7271
Cr 267.716	152.057	152.054	151.934
Cu 324.754	129.066	129.312	129.484
Fe 271.441	24932.6	24989.9	24950.7
K 766.491	13196.1	13167.5	13114.1
Mg 279.078	7411.75	7402.56	7385.57
Mn 257.610	1017.71	1018.11	1016.01
Mo 202.032	96.6609	96.8907	96.7192
Na 330.237	6339.88	6568.35	6560.27
Ni 231.604	123.609	123.454	122.569
Pb 220.353	448.609	450.536	448.337
Sb 206.834	48.2259	49.7671	47.2186
Se 196.026	205.375	212.476	202.665
Sn 189.925	184.062	183.866	185.728
Sr 216.596	872.927	875.700	873.937
Ti 334.941	225.193	224.963	224.374
Tl 190.794	31.2042	31.8672	33.5869
V 292.401	135.426	134.778	134.640
Zn 206.200	148.406	144.971	149.282

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.5795b	ppb	0.6289	1.2	4765.01
Al 308.215	12675.1b	ppb	30.2249	0.2	92360.1
As 188.980	138.514b	ppb	1.8639	1.3	95.5834
B 249.678	247.733b	ppb	0.6042	0.2	4470.51
Ba 389.178	127.207b	ppb	0.2606	0.2	2886.47
Be 313.042	48.4315b	ppb	0.0161	0.0	93578.2
Ca 370.602	1393666xb	ppb	2935	0.2	4686915
Cd 226.502	46.5817b	ppb	0.2578	0.6	2255.25
Co 228.615	52.7262b	ppb	0.1382	0.3	588.738
Cr 267.716	152.015b	ppb	0.0703	0.0	8248.24
Cu 324.754	129.288b	ppb	0.2100	0.2	10649.0
Fe 271.441	24957.8b	ppb	29.2628	0.1	39445.3
K 766.491	13159.2b	ppb	41.6312	0.3	621561
Mg 279.078	7399.96b	ppb	13.2834	0.2	21488.0
Mn 257.610	1017.28b	ppb	1.1138	0.1	230192
Mo 202.032	96.7569b	ppb	0.1195	0.1	625.150
Na 330.237	6489.50b	ppb	129.636	2.0	353.129
Ni 231.604	123.211b	ppb	0.5608	0.5	383.812
Pb 220.353	449.161b	ppb	1.1988	0.3	719.708
Sb 206.834	48.4039b	ppb	1.2835	2.7	72.9204
Se 196.026	206.839b	ppb	5.0663	2.4	90.6568
Sn 189.925	184.552b	ppb	1.0229	0.6	129.797
Sr 216.596	874.188b	ppb	1.4034	0.2	10981.3
Ti 334.941	224.843b	ppb	0.4223	0.2	66072.2
Tl 190.794	32.2194b	ppb	1.2298	3.8	23.1797
V 292.401	134.948b	ppb	0.4199	0.3	3769.89
Zn 206.200	147.553b	ppb	2.2789	1.5	157.280

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110799-a-2-a (Samp) 3/20/2015, 8:44:46 PM Rack 3, Tube 10

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2161u	-0.0699u	-0.3426u
Al 308.215	11424.1	11392.9	11445.4
As 188.980	59.0360	53.1003	53.4473
B 249.678	113.876	113.477	113.944
Ba 389.178	104.389	105.879	103.278
Be 313.042	1.4957	1.5092	1.4890
Ca 370.602	1423595x	1447431x	1413579x
Cd 226.502	2.3375	2.0675	2.1957
Co 228.615	15.4593	14.4480	15.2521
Cr 267.716	69.9990	70.4441	70.1414
Cu 324.754	38.5415	38.7980	39.4247
Fe 271.441	27538.0	27641.5	27455.5
K 766.491	7100.59	7060.72	7094.67
Mg 279.078	8436.07	8445.70	8439.61
Mn 257.610	1557.10	1562.05	1555.96
Mo 202.032	22.6949	22.8960	22.8635
Na 330.237	932.052	786.826	896.666
Ni 231.604	53.4145	55.6208	52.5567
Pb 220.353	8.2331	9.4767	10.4553
Sb 206.834	3.7610	0.3352	5.2646
Se 196.026	130.706	124.907	125.921
Sn 189.925	10.9635	10.1884	8.6718
Sr 216.596	832.144	838.230	829.086
Ti 334.941	248.060	246.644	246.363
Tl 190.794	8.0268	-3.1894u	0.6837u
V 292.401	60.5819	60.2009	59.9802
Zn 206.200	85.8951	84.6383	82.3848

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2095b	ppb	0.1365	65.1	-66.8147
Al 308.215	11420.8b	ppb	26.3937	0.2	83258.5
As 188.980	55.1945b	ppb	3.3313	6.0	33.9856
B 249.678	113.766b	ppb	0.2521	0.2	2057.78
Ba 389.178	104.515b	ppb	1.3049	1.2	2373.86
Be 313.042	1.4980b	ppb	0.0103	0.7	2965.46
Ca 370.602	1428202xb	ppb	17390	1.2	4803060
Cd 226.502	2.2002b	ppb	0.1351	6.1	280.757
Co 228.615	15.0532b	ppb	0.5342	3.5	167.800
Cr 267.716	70.1948b	ppb	0.2274	0.3	3839.86
Cu 324.754	38.9214b	ppb	0.4543	1.2	3531.36
Fe 271.441	27545.0b	ppb	93.1998	0.3	43528.3
K 766.491	7085.32b	ppb	21.5162	0.3	334803
Mg 279.078	8440.46b	ppb	4.8736	0.1	24498.5
Mn 257.610	1558.37b	ppb	3.2396	0.2	352532
Mo 202.032	22.8181b	ppb	0.1080	0.5	150.314
Na 330.237	871.848b	ppb	75.7273	8.7	66.5632
Ni 231.604	53.8640b	ppb	1.5807	2.9	167.007
Pb 220.353	9.3884b	ppb	1.1137	11.9	26.8960
Sb 206.834	3.1203b	ppb	2.5264	81.0	8.1067
Se 196.026	127.178b	ppb	3.0969	2.4	55.4911
Sn 189.925	9.9412b	ppb	1.1657	11.7	1.0548
Sr 216.596	833.154b	ppb	4.6549	0.6	10510.4

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	247.022b	ppb	0.9096	0.4	72591.1
Tl 190.794	1.8403b	ppb	5.6968	309.6	-10.3819
V 292.401	60.2543b	ppb	0.3044	0.5	1674.30
Zn 206.200	84.3061b	ppb	1.7786	2.1	90.5770

680-110799-a-1-a (Samp) 3/20/2015, 8:49:31 PM Rack 3, Tube 11

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0057u	-0.3527u	-0.0883u
Al 308.215	5061.37	5072.32	5066.04
As 188.980	31.6381	31.9954	25.5890
B 249.678	101.908	102.033	102.198
Ba 389.178	19.1281	19.7111	19.0880
Be 313.042	0.5174	0.5038	0.5066
Ca 370.602	1347643x	1342485x	1349791x
Cd 226.502	1.2016	1.1984	1.2566
Co 228.615	4.8071	4.9649	5.1251
Cr 267.716	47.2500	47.4664	47.6441
Cu 324.754	9.0079	9.1093	8.2386
Fe 271.441	19922.0	19853.4	19910.9
K 766.491	5057.88	5112.86	5084.85
Mg 279.078	5022.98	5012.89	5022.88
Mn 257.610	412.109	411.319	411.398
Mo 202.032	2.3922	2.7361	3.1814
Na 330.237	609.461	881.163	736.245
Ni 231.604	26.8885	28.3131	25.5112
Pb 220.353	3.5390	2.7084	4.2167
Sb 206.834	1.1962	3.6754	0.5310
Se 196.026	13.9337	26.0445	30.4951
Sn 189.925	12.5676	6.8956	9.2231
Sr 216.596	779.988	771.330	774.022
Ti 334.941	76.0841	75.9101	75.6492
Tl 190.794	-3.4830u	-1.1793u	-2.9348u
V 292.401	28.7147	29.4928	28.5519
Zn 206.200	59.2910	56.5437	59.4497

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1451b	ppb	0.1858	128.0	-63.6033
Al 308.215	5066.58b	ppb	5.4972	0.1	37201.9
As 188.980	29.7409b	ppb	3.6001	12.1	15.2286
B 249.678	102.046b	ppb	0.1455	0.1	1866.41
Ba 389.178	19.3091b	ppb	0.3487	1.8	421.737
Be 313.042	0.5093b	ppb	0.0072	1.4	1028.31
Ca 370.602	1346640xb	ppb	3754	0.3	4528726
Cd 226.502	1.2189b	ppb	0.0327	2.7	193.412
Co 228.615	4.9657b	ppb	0.1590	3.2	50.8248
Cr 267.716	47.4535b	ppb	0.1973	0.4	2603.88
Cu 324.754	8.7853b	ppb	0.4761	5.4	1154.04
Fe 271.441	19895.4b	ppb	36.8064	0.2	31439.7
K 766.491	5085.20b	ppb	27.4892	0.5	240374
Mg 279.078	5019.58b	ppb	5.7944	0.1	14591.0
Mn 257.610	411.608b	ppb	0.4353	0.1	93234.4
Mo 202.032	2.7699b	ppb	0.3957	14.3	21.9460

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	742.289b	ppb	135.952	18.3	62.1897
Ni 231.604	26.9043b	ppb	1.4011	5.2	81.9588
Pb 220.353	3.4880b	ppb	0.7555	21.7	17.0407
Sb 206.834	1.8009b	ppb	1.6571	92.0	6.1308
Se 196.026	23.4911b	ppb	8.5709	36.5	9.2136
Sn 189.925	9.5621b	ppb	2.8511	29.8	0.7753
Sr 216.596	775.113b	ppb	4.4310	0.6	9778.09
Ti 334.941	75.8811b	ppb	0.2189	0.3	22301.3
Tl 190.794	-2.5324b	ppb	1.2034	47.5	-14.5921
V 292.401	28.9198b	ppb	0.5029	1.7	794.300
Zn 206.200	58.4281b	ppb	1.6339	2.8	62.9642

660-65935-c-1-d (Samp)

3/20/2015, 8:54:16 PM

Rack 3, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.2284	3.4062	3.2170
Al 308.215	8387.70	8380.36	8383.80
As 188.980	6.1879	2.7793	5.0091
B 249.678	103.310	103.037	103.533
Ba 389.178	557.107	558.318	558.549
Be 313.042	0.1308	0.1284	0.1268
Ca 370.602	52095	52169	52204
Cd 226.502	2.5268	2.5556	2.3905
Co 228.615	1.6159	1.5012	1.4713
Cr 267.716	55.9813	55.9856	55.9872
Cu 324.754	499.582	504.416	500.267
Fe 271.441	12915.8	12906.4	12919.3
K 766.491	5075.61	5068.24	5066.78
Mg 279.078	5301.85	5292.87	5304.96
Mn 257.610	370.488	366.892	371.149
Mo 202.032	68.0899	67.5564	69.2364
Na 330.237	2243.56	2193.65	1893.04
Ni 231.604	26.5463	27.1815	26.6840
Pb 220.353	39.7181	39.6510	37.5559
Sb 206.834	2.4661	0.9891	1.8958
Se 196.026	6.5032	18.4901	10.9514
Sn 189.925	84.8818	86.1395	84.0073
Sr 216.596	185.672	185.884	186.224
Ti 334.941	54.9855	54.7472	54.4625
Tl 190.794	-1.9897u	-0.8267u	-1.1819u
V 292.401	6.5129	6.4571	6.5107
Zn 206.200	1963.59	1966.95	1960.84

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.2839	ppb	0.1061	3.2	270.905
Al 308.215	8383.96	ppb	3.6679	0.0	61241.3
As 188.980	4.6587	ppb	1.7311	37.2	-3.2860
B 249.678	103.294	ppb	0.2483	0.2	1906.17
Ba 389.178	557.992	ppb	0.7744	0.1	12673.9
Be 313.042	0.1287	ppb	0.0020	1.6	-183.183
Ca 370.602	52156	ppb	55.87	0.1	175303
Cd 226.502	2.4910	ppb	0.0882	3.5	210.780
Co 228.615	1.5295	ppb	0.0764	5.0	9.4782

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	55.9847	ppb	0.0030	0.0	3060.74
Cu 324.754	501.422	ppb	2.6154	0.5	39951.8
Fe 271.441	12913.8	ppb	6.6766	0.1	20407.5
K 766.491	5070.21	ppb	4.7324	0.1	239667
Mg 279.078	5299.89	ppb	6.2739	0.1	15404.7
Mn 257.610	369.509	ppb	2.2910	0.6	83680.8
Mo 202.032	68.2942	ppb	0.8584	1.3	443.042
Na 330.237	2110.08	ppb	189.612	9.0	110.719
Ni 231.604	26.8039	ppb	0.3341	1.2	81.0558
Pb 220.353	38.9750	ppb	1.2294	3.2	72.3735
Sb 206.834	1.7837	ppb	0.7448	41.8	4.9386
Se 196.026	11.9815	ppb	6.0595	50.6	4.0420
Sn 189.925	85.0095	ppb	1.0718	1.3	56.4030
Sr 216.596	185.927	ppb	0.2785	0.1	2255.91
Ti 334.941	54.7318	ppb	0.2619	0.5	16087.3
Tl 190.794	-1.3327	ppb	0.5960	44.7	-12.4727
V 292.401	6.4936	ppb	0.0316	0.5	147.779
Zn 206.200	1963.79	ppb	3.0608	0.2	2079.73

Cont Calib Verif (CCV) 3/20/2015, 8:59:02 PM Rack 3, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	494.641	494.606	493.435
Al 308.215	4859.92	4878.46	4875.54
As 188.980	498.829	491.827	486.795
B 249.678	487.614	490.688	492.915
Ba 389.178	4859.78	4884.87	4880.04
Be 313.042	489.030	493.228	490.997
Ca 370.602	4936	4956	4954
Cd 226.502	492.768	494.384	493.166
Co 228.615	496.131	496.586	496.042
Cr 267.716	4983.05	5002.59	5004.38
Cu 324.754	5154.32	5171.20	5139.51
Fe 271.441	4898.75	4908.38	4904.06
K 766.491	10623.2	10660.8	10666.2
Mg 279.078	4910.58	4928.40	4933.31
Mn 257.610	4994.70	5018.87	5013.34
Mo 202.032	485.786	489.103	489.003
Na 330.237	7472.82	7677.88	7215.35
Ni 231.604	2497.25	2495.49	2499.59
Pb 220.353	492.639	491.654	493.479
Sb 206.834	988.305	990.757	993.393
Se 196.026	4976.16	5013.70	5006.33
Sn 189.925	4910.29	4908.49	4840.85
Sr 216.596	2414.98	2422.96	2422.53
Ti 334.941	485.377	486.509	487.141
Tl 190.794	5007.54	5001.25	5019.83
V 292.401	4905.20	4919.84	4922.73
Zn 206.200	2434.02	2441.22	2433.63

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	494.227	ppb	0.6868	0.1	44363.7	98.84546
Al 308.215	4871.31	ppb	9.9673	0.2	36494.5	97.42612

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	492.484	ppb	6.0439	1.2	357.311	98.49675
B 249.678	490.405	ppb	2.6618	0.5	8892.96	98.08107
Ba 389.178	4874.90	ppb	13.3143	0.3	110903	97.49793
Be 313.042	491.085	ppb	2.1002	0.4	948100	98.21699
Ca 370.602	4949	ppb	10.99	0.2	17052	98.98042
Cd 226.502	493.439	ppb	0.8418	0.2	22170.3	98.68787
Co 228.615	496.253	ppb	0.2921	0.1	5575.91	99.25063
Cr 267.716	4996.67	ppb	11.8291	0.2	269526	99.93349
Cu 324.754	5155.01	ppb	15.8564	0.3	406384	103.10017
Fe 271.441	4903.73	ppb	4.8256	0.1	7849.43	98.07455
K 766.491	10650.1	ppb	23.4258	0.2	503099	106.50053
Mg 279.078	4924.10	ppb	11.9578	0.2	14212.5	98.48198
Mn 257.610	5008.97	ppb	12.6644	0.3	1132485	100.17944
Mo 202.032	487.964	ppb	1.8868	0.4	3133.25	97.59283
Na 330.237	7455.35	ppb	231.761	3.1	379.943	99.40466
Ni 231.604	2497.44	ppb	2.0545	0.1	7814.64	99.89774
Pb 220.353	492.591	ppb	0.9133	0.2	790.845	98.51816
Sb 206.834	990.819	ppb	2.5447	0.3	1483.12	99.08186
Se 196.026	4998.73	ppb	19.8925	0.4	2215.28	99.97458
Sn 189.925	4886.54	ppb	39.5814	0.8	3596.57	97.73080
Sr 216.596	2420.16	ppb	4.4877	0.2	28837.6	96.80630
Ti 334.941	486.343	ppb	0.8937	0.2	142895	97.26852
Tl 190.794	5009.54	ppb	9.4513	0.2	5518.06	100.19080
V 292.401	4915.93	ppb	9.4001	0.2	138799	98.31851
Zn 206.200	2436.29	ppb	4.2749	0.2	2569.93	97.45157

Cont Calib Blank (CCB)

3/20/2015, 9:03:47 PM

Rack 3, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0402u	0.1483	0.2689
Al 308.215	-2.8093u	-2.0659u	-3.5183u
As 188.980	1.6462	-1.5888u	0.9787
B 249.678	4.8957	3.8390	3.7408
Ba 389.178	0.3214	-0.0710u	0.3387
Be 313.042	0.0117	0.0160	0.0081
Ca 370.602	4.679	2.566	4.991
Cd 226.502	0.0454	-0.0413u	0.1339
Co 228.615	-0.1810u	0.8695	0.2826
Cr 267.716	0.1935	0.1898	0.0959
Cu 324.754	-0.0234u	-0.1354u	-0.2176u
Fe 271.441	4.0155	4.4079	3.5545
K 766.491	-0.8692u	-0.2895u	-0.5199u
Mg 279.078	0.4159	-0.0214u	-1.2565u
Mn 257.610	0.1173	0.1018	0.0919
Mo 202.032	0.2442	0.3296	0.6888
Na 330.237	13.5336	62.9677	26.8360
Ni 231.604	0.4948	-0.3820u	-0.5953u
Pb 220.353	0.5500	-0.2150u	-0.8837u
Sb 206.834	-0.7287u	3.3052	2.5325
Se 196.026	-5.9082u	-0.0216u	-4.7496u
Sn 189.925	3.4897	0.1682	1.7689
Sr 216.596	0.2279	-0.0679u	0.3826
Ti 334.941	0.1369	0.0744	0.1369

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-1.9120u	1.3190	-1.0481u
V 292.401	0.1472	0.3972	-0.0080u
Zn 206.200	0.0937	-1.6140u	0.7408

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1257	ppb	0.1558	124.0	-5.7967	0.12567
Al 308.215	-2.7978	ppb	0.7263	26.0	456.565	-2.79782
As 188.980	0.3454	ppb	1.7080	494.6	-6.3594	0.34536
B 249.678	4.1585	ppb	0.6403	15.4	158.275	4.15849
Ba 389.178	0.1964	ppb	0.2317	118.0	-39.4465	0.19638
Be 313.042	0.0119	ppb	0.0039	32.9	-416.518	0.01193
Ca 370.602	4.079	ppb	1.319	32.4	29.32	4.07858
Cd 226.502	0.0460	ppb	0.0876	190.4	27.6631	0.04600
Co 228.615	0.3237	ppb	0.5264	162.6	-4.3083	0.32371
Cr 267.716	0.1597	ppb	0.0553	34.6	41.4424	0.15974
Cu 324.754	-0.1255	ppb	0.0975	77.7	443.386	-0.12548
Fe 271.441	3.9926	ppb	0.4271	10.7	8.2614	3.99264
K 766.491	-0.5595	ppb	0.2919	52.2	268.355	-0.55954
Mg 279.078	-0.2873	ppb	0.8673	301.9	22.8140	-0.28733
Mn 257.610	0.1036	ppb	0.0128	12.3	86.7613	0.10363
Mo 202.032	0.4208	ppb	0.2359	56.1	7.7719	0.42084
Na 330.237	34.4457	ppb	25.5806	74.3	31.7818	34.44573
Ni 231.604	-0.1608	ppb	0.5777	359.2	-4.4879	-0.16082
Pb 220.353	-0.1829	ppb	0.7174	392.3	9.9182	-0.18287
Sb 206.834	1.7030	ppb	2.1411	125.7	5.0478	1.70300
Se 196.026	-3.5598	ppb	3.1185	87.6	-3.0408	-3.55980
Sn 189.925	1.8089	ppb	1.6611	91.8	-4.9413	1.80891
Sr 216.596	0.1809	ppb	0.2289	126.5	3.2642	0.18088
Ti 334.941	0.1161	ppb	0.0361	31.1	29.5412	0.11607
Tl 190.794	-0.5470	ppb	1.6728	305.8	-9.5435	-0.54703
V 292.401	0.1788	ppb	0.2044	114.3	-9.4161	0.17884
Zn 206.200	-0.2598	ppb	1.2166	468.2	0.2461	-0.25983

mb 680-375384/9-a (Samp)

3/20/2015, 9:08:32 PM

Rack 3, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2103	0.2469	0.1472
Al 308.215	8.3174	6.6086	6.1659
As 188.980	-0.2415u	-0.2844u	-2.3449u
B 249.678	0.9045	1.3619	1.1101
Ba 389.178	-0.3871u	-0.2589u	0.1381
Be 313.042	0.0139	0.0182	0.0183
Ca 370.602	333.3	328.0	327.0
Cd 226.502	0.0891	-0.0767u	0.1989
Co 228.615	-0.0602u	0.6116	0.0453
Cr 267.716	1.1170	0.9035	0.8376
Cu 324.754	-0.0335u	-0.2852u	0.0176
Fe 271.441	25.5280	24.2012	27.7255
K 766.491	17.9372	18.4140	18.3355
Mg 279.078	5.9103	9.4090	8.8085
Mn 257.610	0.5758	0.5991	0.6004
Mo 202.032	0.7337	0.6114	0.1102
Na 330.237	214.846	137.749	350.872

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	-0.1000u	0.9413	0.2780
Pb 220.353	0.0430	-0.5561u	-1.5757u
Sb 206.834	-1.1301u	-0.4965u	3.0757
Se 196.026	-4.0423u	-8.7373u	-0.1490u
Sn 189.925	22.9165	22.2390	21.8861
Sr 216.596	0.4589	0.5507	0.5353
Ti 334.941	0.4630	0.4399	0.5541
Tl 190.794	2.8104	-0.5645u	0.8594
V 292.401	0.1791	-0.1111u	0.2134
Zn 206.200	20.6869	20.6068	18.6854

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2015	ppb	0.0505	25.0	1.0053
Al 308.215	7.0306	ppb	1.1361	16.2	527.772
As 188.980	-0.9569	ppb	1.2022	125.6	-7.3224
B 249.678	1.1255	ppb	0.2291	20.4	103.756
Ba 389.178	-0.1693	ppb	0.2738	161.7	-47.7342
Be 313.042	0.0168	ppb	0.0025	15.0	-407.015
Ca 370.602	329.4	ppb	3.418	1.0	1123
Cd 226.502	0.0704	ppb	0.1388	197.0	28.8799
Co 228.615	0.1989	ppb	0.3613	181.6	-5.7148
Cr 267.716	0.9527	ppb	0.1461	15.3	84.2341
Cu 324.754	-0.1004	ppb	0.1621	161.5	445.379
Fe 271.441	25.8182	ppb	1.7800	6.9	42.7422
K 766.491	18.2289	ppb	0.2556	1.4	1155.38
Mg 279.078	8.0426	ppb	1.8709	23.3	46.9921
Mn 257.610	0.5918	ppb	0.0138	2.3	197.251
Mo 202.032	0.4851	ppb	0.3304	68.1	8.1838
Na 330.237	234.489	ppb	107.911	46.0	41.7488
Ni 231.604	0.3731	ppb	0.5271	141.3	-2.8142
Pb 220.353	-0.6963	ppb	0.8184	117.5	9.1108
Sb 206.834	0.4830	ppb	2.2675	469.4	3.3116
Se 196.026	-4.3095	ppb	4.3004	99.8	-3.3729
Sn 189.925	22.3472	ppb	0.5237	2.3	10.2016
Sr 216.596	0.5150	ppb	0.0492	9.5	7.3839
Ti 334.941	0.4856	ppb	0.0604	12.4	138.126
Tl 190.794	1.0351	ppb	1.6943	163.7	-7.8049
V 292.401	0.0938	ppb	0.1783	190.1	-11.8810
Zn 206.200	19.9930	ppb	1.1332	5.7	21.6850

680-110762-b-1-b (Samp)

3/20/2015, 9:13:18 PM

Rack 3, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.5286	1.4327	1.7533
Al 308.215	2337.80	2326.45	2320.40
As 188.980	6.4148	9.0236	5.0248
B 249.678	140.156	141.082	139.894
Ba 389.178	634.977	634.407	633.881
Be 313.042	0.2325	0.2385	0.2368
Ca 370.602	5328	5310	5306
Cd 226.502	484.791	484.121	482.986
Co 228.615	12.4782	13.4576	13.0975
Cr 267.716	111.035	110.628	111.112

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	5377.16	5375.58	5365.43
Fe 271.441	14943.1	14884.1	14893.1
K 766.491	270524x	270290x	269713x
Mg 279.078	841.061	838.111	837.568
Mn 257.610	2655.94	2648.53	2649.69
Mo 202.032	79.2757	79.0008	78.4518
Na 330.237	15443.9	15179.8	15429.3
Ni 231.604	89.8630	91.1627	91.4994
Pb 220.353	290.284	287.339	288.513
Sb 206.834	89.6654	88.9383	92.2568
Se 196.026	-1.2926	4.2968	-8.2291u
Sn 189.925	335.633	331.358	329.749
Sr 216.596	28.6000	28.8875	29.3070
Ti 334.941	111.592	111.654	111.308
Tl 190.794	-0.7821u	-0.9971u	-2.3644u
V 292.401	9.1496	9.0056	8.7964
Zn 206.200	5045.42	5036.46	5045.63

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.5715b	ppb	0.1646	10.5	134.949
Al 308.215	2328.22b	ppb	8.8322	0.4	17354.8
As 188.980	6.8211b	ppb	2.0302	29.8	-1.7049
B 249.678	140.377b	ppb	0.6239	0.4	2569.36
Ba 389.178	634.422b	ppb	0.5483	0.1	14405.1
Be 313.042	0.2359b	ppb	0.0031	1.3	-9.8110
Ca 370.602	5314b	ppb	11.70	0.2	17844
Cd 226.502	483.966b	ppb	0.9125	0.2	21802.7
Co 228.615	13.0111b	ppb	0.4954	3.8	139.718
Cr 267.716	110.925b	ppb	0.2603	0.2	6031.30
Cu 324.754	5372.72b	ppb	6.3653	0.1	423594
Fe 271.441	14906.8b	ppb	31.7898	0.2	23558.1
K 766.491	270176xb	ppb	417.491	0.2	12755676
Mg 279.078	838.913b	ppb	1.8800	0.2	2400.79
Mn 257.610	2651.39b	ppb	3.9883	0.2	599509
Mo 202.032	78.9094b	ppb	0.4195	0.5	511.118
Na 330.237	15351.0b	ppb	148.436	1.0	748.818
Ni 231.604	90.8417b	ppb	0.8641	1.0	281.698
Pb 220.353	288.712b	ppb	1.4822	0.5	466.683
Sb 206.834	90.2868b	ppb	1.7443	1.9	132.648
Se 196.026	-1.7416b	ppb	6.2750	360.3	-1.5189
Sn 189.925	332.246b	ppb	3.0410	0.9	238.695
Sr 216.596	28.9315b	ppb	0.3555	1.2	364.426
Ti 334.941	111.518b	ppb	0.1847	0.2	32762.3
Tl 190.794	-1.3812b	ppb	0.8583	62.1	-11.6668
V 292.401	8.9839b	ppb	0.1776	2.0	213.089
Zn 206.200	5042.50b	ppb	5.2378	0.1	5338.82

680-110777-a-1-a (Samp)

3/20/2015, 9:18:03 PM

Rack 3, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.0283	0.8304	0.7363
Al 308.215	205.825	203.217	204.716
As 188.980	1.8148	6.0810	4.3382

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	26.9031	27.1071	26.9057
Ba 389.178	25.9669	25.7693	25.6434
Be 313.042	0.0160	0.0173	0.0145
Ca 370.602	8454	8437	8477
Cd 226.502	-0.4828	-0.2175	-0.3660
Co 228.615	0.1695	-0.0016	0.5112
Cr 267.716	18.6931	18.7493	18.7191
Cu 324.754	8.6565	8.5886	8.9996
Fe 271.441	47242.3	47153.7	47279.1
K 766.491	6691.29	6693.75	6678.41
Mg 279.078	2091.35	2090.03	2097.74
Mn 257.610	525.472	524.720	526.222
Mo 202.032	1.9404	1.0953	1.4117
Na 330.237	38081.6	37994.8	38281.0
Ni 231.604	7.5349	7.9605	10.2006
Pb 220.353	1.4472	-2.3750u	1.1476
Sb 206.834	-1.7640u	1.6007	1.7969
Se 196.026	-2.0749u	5.0814	0.2374
Sn 189.925	24.3779	26.1718	29.8523
Sr 216.596	35.2568	35.1055	35.0491
Ti 334.941	12.4548	12.2749	12.2831
Tl 190.794	0.3855u	2.1433u	1.2634u
V 292.401	1.6812	1.8914	1.8652
Zn 206.200	27.2525	27.3549	27.7625

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8650	ppb	0.1490	17.2	53.6177
Al 308.215	204.586	ppb	1.3089	0.6	1965.12
As 188.980	4.0780	ppb	2.1450	52.6	-3.9439
B 249.678	26.9720	ppb	0.1170	0.4	450.162
Ba 389.178	25.7932	ppb	0.1631	0.6	584.456
Be 313.042	0.0159	ppb	0.0014	8.8	-412.208
Ca 370.602	8456	ppb	20.16	0.2	27898
Cd 226.502	-0.3555	ppb	0.1330	37.4	278.423
Co 228.615	0.2264	ppb	0.2611	115.4	-2.0001
Cr 267.716	18.7205	ppb	0.0281	0.2	1068.43
Cu 324.754	8.7482	ppb	0.2204	2.5	1164.23
Fe 271.441	47225.0	ppb	64.4525	0.1	74622.7
K 766.491	6687.82	ppb	8.2363	0.1	316036
Mg 279.078	2093.04	ppb	4.1253	0.2	6090.83
Mn 257.610	525.471	ppb	0.7511	0.1	119019
Mo 202.032	1.4825	ppb	0.4270	28.8	12.4968
Na 330.237	38119.1	ppb	146.769	0.4	1963.00
Ni 231.604	8.5653	ppb	1.4321	16.7	26.9110
Pb 220.353	0.0733	ppb	2.1256	2901.2	13.5877
Sb 206.834	0.5445	ppb	2.0017	367.6	4.4930
Se 196.026	1.0813	ppb	3.6521	337.8	-0.4550
Sn 189.925	26.8007	ppb	2.7909	10.4	13.4963
Sr 216.596	35.1371	ppb	0.1074	0.3	484.720
Ti 334.941	12.3376	ppb	0.1016	0.8	3626.77
Tl 190.794	1.2641	ppb	0.8789	69.5	-14.7079
V 292.401	1.8126	ppb	0.1146	6.3	17.1879
Zn 206.200	27.4567	ppb	0.2698	1.0	31.1745

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110777-a-2-a (Samp) 3/20/2015, 9:22:48 PM Rack 3, Tube 18

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8350	0.8386	0.7256
Al 308.215	264.352	262.418	263.916
As 188.980	7.2318	6.2751	9.4905
B 249.678	53.3593	52.5805	53.3760
Ba 389.178	117.429	117.450	117.614
Be 313.042	0.0153	0.0223	0.0182
Ca 370.602	61416	61409	61458
Cd 226.502	0.2056	0.1683	0.2895
Co 228.615	-0.0095	-0.1046	-0.0051
Cr 267.716	16.9404	16.7065	16.7010
Cu 324.754	18.5581	18.5844	18.4115
Fe 271.441	47814.7	47866.3	47864.7
K 766.491	11856.8	11869.5	11885.1
Mg 279.078	6287.94	6280.00	6278.43
Mn 257.610	834.718	835.437	835.297
Mo 202.032	1.4649	0.7707	1.1457
Na 330.237	44485.4	44384.3	44496.1
Ni 231.604	7.6747	6.9971	7.5874
Pb 220.353	-0.1443	3.1888	-1.6186
Sb 206.834	1.4584	-1.1706u	0.6851
Se 196.026	8.7251	1.2873	9.7850
Sn 189.925	25.0141	26.5087	25.3225
Sr 216.596	66.6797	66.2132	65.7633
Ti 334.941	14.3470	14.3994	14.3736
Tl 190.794	0.6496u	1.2639u	3.5480u
V 292.401	2.4449	1.9439	1.8015
Zn 206.200	52.8395	53.3911	50.9912

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7997	ppb	0.0642	8.0	47.9745
Al 308.215	263.562	ppb	1.0144	0.4	2392.64
As 188.980	7.6658	ppb	1.6511	21.5	-1.2952
B 249.678	53.1053	ppb	0.4545	0.9	918.016
Ba 389.178	117.498	ppb	0.1011	0.1	2680.33
Be 313.042	0.0186	ppb	0.0035	18.8	-389.271
Ca 370.602	61428	ppb	26.57	0.0	206053
Cd 226.502	0.2211	ppb	0.0621	28.1	307.505
Co 228.615	-0.0397	ppb	0.0562	141.6	-4.8980
Cr 267.716	16.7826	ppb	0.1367	0.8	965.787
Cu 324.754	18.5180	ppb	0.0932	0.5	1933.89
Fe 271.441	47848.6	ppb	29.3826	0.1	75607.9
K 766.491	11870.5	ppb	14.1601	0.1	560718
Mg 279.078	6282.12	ppb	5.0968	0.1	18250.4
Mn 257.610	835.151	ppb	0.3812	0.0	189064
Mo 202.032	1.1271	ppb	0.3475	30.8	10.1892
Na 330.237	44455.2	ppb	61.7078	0.1	2285.88
Ni 231.604	7.4197	ppb	0.3686	5.0	23.3734
Pb 220.353	0.4753	ppb	2.4628	518.2	14.3195
Sb 206.834	0.3243	ppb	1.3511	416.6	4.1685
Se 196.026	6.5992	ppb	4.6306	70.2	2.0640
Sn 189.925	25.6151	ppb	0.7891	3.1	12.6242
Sr 216.596	66.2187	ppb	0.4582	0.7	876.188

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	14.3733	ppb	0.0262	0.2	4231.89
Tl 190.794	1.8205	ppb	1.5273	83.9	-14.0239
V 292.401	2.0634	ppb	0.3380	16.4	24.2540
Zn 206.200	52.4073	ppb	1.2570	2.4	57.6105

CRI (Samp)

3/20/2015, 9:27:34 PM

Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.9233	10.5878	10.2250
Al 308.215	201.390	214.431	213.368
As 188.980	22.7244	20.4136	21.2197
B 249.678	97.7373	101.254	101.853
Ba 389.178	9.4069	9.5220	10.6721
Be 313.042	4.2350	4.3636	4.3616
Ca 370.602	522.0	545.6	547.3
Cd 226.502	5.1524	5.1654	5.1442
Co 228.615	10.5220	10.7342	10.6535
Cr 267.716	10.4085	10.5756	10.7610
Cu 324.754	21.6920	22.5487	22.2447
Fe 271.441	57.0111	55.4764	60.2082
K 766.491	1120.86	1163.70	1161.23
Mg 279.078	513.737	533.243	532.879
Mn 257.610	10.7498	11.1615	11.1147
Mo 202.032	9.4890	10.3745	10.7219
Na 330.237	1164.14	1166.68	1109.56
Ni 231.604	42.9877	44.7549	44.0548
Pb 220.353	9.8393	9.3450	9.5810
Sb 206.834	18.5885	25.0278	23.1089
Se 196.026	24.6212	18.9877	18.2355
Sn 189.925	49.4550	52.1553	52.2689
Sr 216.596	9.3817	9.6536	9.7209
Ti 334.941	10.0111	10.4039	10.2687
Tl 190.794	22.9346	25.2589	27.7095
V 292.401	10.1954	10.5783	10.6542
Zn 206.200	21.0137	22.2188	19.6374

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2454	ppb	0.3327	3.2	903.647
Al 308.215	209.730	ppb	7.2416	3.5	1998.44
As 188.980	21.4526	ppb	1.1729	5.5	9.2427
B 249.678	100.281	ppb	2.2236	2.2	1884.47
Ba 389.178	9.8670	ppb	0.6996	7.1	181.822
Be 313.042	4.3200	ppb	0.0737	1.7	7901.91
Ca 370.602	538.3	ppb	14.17	2.6	1831
Cd 226.502	5.1540	ppb	0.0107	0.2	256.897
Co 228.615	10.6366	ppb	0.1071	1.0	111.563
Cr 267.716	10.5817	ppb	0.1763	1.7	603.569
Cu 324.754	22.1618	ppb	0.4343	2.0	2198.92
Fe 271.441	57.5653	ppb	2.4141	4.2	94.1725
K 766.491	1148.60	ppb	24.0530	2.1	54521.8
Mg 279.078	526.620	ppb	11.1581	2.1	1552.79
Mn 257.610	11.0087	ppb	0.2254	2.0	2556.44
Mo 202.032	10.1951	ppb	0.6357	6.2	70.5245

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	1146.79	ppb	32.2678	2.8	88.2768
Ni 231.604	43.9325	ppb	0.8899	2.0	133.546
Pb 220.353	9.5884	ppb	0.2473	2.6	25.3074
Sb 206.834	22.2417	ppb	3.3060	14.9	34.5163
Se 196.026	20.6148	ppb	3.4900	16.9	7.6769
Sn 189.925	51.2930	ppb	1.5928	3.1	31.5437
Sr 216.596	9.5854	ppb	0.1796	1.9	114.534
Ti 334.941	10.2279	ppb	0.1995	2.0	3001.33
Tl 190.794	25.3010	ppb	2.3877	9.4	18.9335
V 292.401	10.4760	ppb	0.2459	2.3	279.550
Zn 206.200	20.9567	ppb	1.2917	6.2	22.6873

mb 680-375330/1-b (Samp) 3/20/2015, 9:32:19 PM Rack 3, Tube 20
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0173u	-0.1891u	0.0866
Al 308.215	-3.1089u	-0.8702u	-3.2826u
As 188.980	-0.3255u	3.0716	-2.4328u
B 249.678	-0.3692u	-0.2506u	-0.4581u
Ba 389.178	-0.0797u	-0.2281u	0.0852
Be 313.042	0.0054	0.0020	0.0124
Ca 370.602	8.765	7.424	8.400
Cd 226.502	0.0654	-0.0490u	0.0900
Co 228.615	0.1809	-0.0484u	0.4016
Cr 267.716	0.1287	0.0385	0.1730
Cu 324.754	-0.4353u	-0.1881u	-0.1321u
Fe 271.441	6.4280	-3.3669u	1.7586
K 766.491	4.1429	4.2918	4.1354
Mg 279.078	0.9197	2.6120	-1.4130u
Mn 257.610	0.0685	0.1201	0.1131
Mo 202.032	-0.2495u	0.2438	0.1217
Na 330.237	119.441	110.991	202.548
Ni 231.604	-0.1309u	0.8731	0.3222
Pb 220.353	-1.0208u	0.6963	-2.8507u
Sb 206.834	-0.5334u	0.8744	-0.7183u
Se 196.026	-7.6884u	-4.8367u	-5.2493u
Sn 189.925	2.0674	1.2645	0.0100
Sr 216.596	0.3068	-0.3114u	-0.0294u
Ti 334.941	0.0343	-0.0069u	0.0210
Tl 190.794	-1.0424u	-1.1417u	1.5376
V 292.401	0.1263	-0.0651u	0.0971
Zn 206.200	4.9842	4.3662	3.8454

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0399	ppb	0.1392	348.9	-20.6736
Al 308.215	-2.4206	ppb	1.3454	55.6	459.267
As 188.980	0.1044	ppb	2.7772	2659.0	-6.5375
B 249.678	-0.3593	ppb	0.1041	29.0	77.1300
Ba 389.178	-0.0742	ppb	0.1567	211.2	-45.6019
Be 313.042	0.0066	ppb	0.0053	80.0	-426.726
Ca 370.602	8.196	ppb	0.6934	8.5	43.15
Cd 226.502	0.0355	ppb	0.0742	209.1	27.1735
Co 228.615	0.1780	ppb	0.2250	126.4	-5.9417

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1134	ppb	0.0685	60.5	38.9430
Cu 324.754	-0.2518	ppb	0.1613	64.1	433.427
Fe 271.441	1.6066	ppb	4.8992	304.9	4.4682
K 766.491	4.1901	ppb	0.0882	2.1	492.591
Mg 279.078	0.7063	ppb	2.0210	286.2	25.7000
Mn 257.610	0.1006	ppb	0.0280	27.8	86.0811
Mo 202.032	0.0387	ppb	0.2569	664.1	5.3182
Na 330.237	144.327	ppb	50.5980	35.1	37.3348
Ni 231.604	0.3548	ppb	0.5028	141.7	-2.8732
Pb 220.353	-1.0584	ppb	1.7738	167.6	8.5384
Sb 206.834	-0.1258	ppb	0.8711	692.5	2.4249
Se 196.026	-5.9248	ppb	1.5412	26.0	-4.0891
Sn 189.925	1.1140	ppb	1.0369	93.1	-5.4537
Sr 216.596	-0.0113	ppb	0.3095	2727.1	0.9629
Ti 334.941	0.0161	ppb	0.0210	130.7	0.1704
Tl 190.794	-0.2155	ppb	1.5190	704.9	-9.1780
V 292.401	0.0528	ppb	0.1031	195.4	-12.9334
Zn 206.200	4.3986	ppb	0.5701	13.0	5.1775

ics 680-375330/2-b (Samp)

3/20/2015, 9:37:05 PM

Rack 3, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.5103	53.2347	54.5271
Al 308.215	5205.72	5085.79	5181.90
As 188.980	109.792	102.418	100.972
B 249.678	205.226	201.012	206.055
Ba 389.178	101.674	98.1826	100.454
Be 313.042	52.9542	51.7386	52.6597
Ca 370.602	5332	5228	5317
Cd 226.502	52.4430	51.3938	52.2332
Co 228.615	53.2367	51.8226	52.1529
Cr 267.716	107.390	105.069	106.849
Cu 324.754	109.250	107.516	108.262
Fe 271.441	5184.58	5064.88	5162.44
K 766.491	5765.94	5605.13	5725.82
Mg 279.078	5195.32	5083.15	5173.92
Mn 257.610	545.392	533.012	542.750
Mo 202.032	102.589	99.0855	100.837
Na 330.237	5327.24	5250.62	5512.55
Ni 231.604	104.863	103.863	105.712
Pb 220.353	527.147	508.193	519.300
Sb 206.834	52.7789	54.1688	51.4402
Se 196.026	112.475	96.3944	99.7202
Sn 189.925	209.151	200.153	206.185
Sr 216.596	100.356	98.4436	100.650
Ti 334.941	104.822	102.233	104.096
Tl 190.794	43.5155	41.6361	41.7444
V 292.401	106.542	103.499	105.009
Zn 206.200	107.564	104.569	104.144

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.7574	ppb	0.6807	1.3	4814.09
Al 308.215	5157.80	ppb	63.4924	1.2	37874.4

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	104.394	ppb	4.7301	4.5	70.4995
B 249.678	204.097	ppb	2.7040	1.3	3736.40
Ba 389.178	100.104	ppb	1.7721	1.8	2249.43
Be 313.042	52.4508	ppb	0.6342	1.2	100839
Ca 370.602	5292	ppb	56.18	1.1	17822
Cd 226.502	52.0233	ppb	0.5552	1.1	2386.56
Co 228.615	52.4041	ppb	0.7398	1.4	581.042
Cr 267.716	106.436	ppb	1.2146	1.1	5777.82
Cu 324.754	108.343	ppb	0.8694	0.8	8990.94
Fe 271.441	5137.30	ppb	63.6853	1.2	8126.38
K 766.491	5698.96	ppb	83.7018	1.5	269351
Mg 279.078	5150.80	ppb	59.5541	1.2	14969.2
Mn 257.610	540.385	ppb	6.5205	1.2	122284
Mo 202.032	100.837	ppb	1.7518	1.7	652.260
Na 330.237	5363.47	ppb	134.668	2.5	301.150
Ni 231.604	104.813	ppb	0.9254	0.9	324.498
Pb 220.353	518.213	ppb	9.5234	1.8	827.251
Sb 206.834	52.7960	ppb	1.3644	2.6	78.2080
Se 196.026	102.863	ppb	8.4887	8.3	44.2935
Sn 189.925	205.163	ppb	4.5850	2.2	144.993
Sr 216.596	99.8166	ppb	1.1981	1.2	1197.68
Ti 334.941	103.717	ppb	1.3357	1.3	30477.8
Tl 190.794	42.2987	ppb	1.0552	2.5	37.0846
V 292.401	105.017	ppb	1.5216	1.4	2930.77
Zn 206.200	105.426	ppb	1.8639	1.8	112.093

680-110705-d-1-d (Samp)

3/20/2015, 9:41:50 PM

Rack 3, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0319	0.0601	-0.0071
Al 308.215	2.2186	4.1280	0.7150
As 188.980	2.9598	5.9101	-2.6600u
B 249.678	2.9848	2.5317	2.8702
Ba 389.178	22.2660	22.1915	22.5806
Be 313.042	-0.0100u	-0.0091u	-0.0101u
Ca 370.602	27128	27034	27060
Cd 226.502	-0.2444	-0.3048	-0.4465
Co 228.615	2.1016	2.3574	1.6454
Cr 267.716	-0.1930	0.1869	0.0113
Cu 324.754	-0.1261u	-0.1812u	0.1280
Fe 271.441	7096.72	7078.82	7089.50
K 766.491	1565.47	1561.59	1565.00
Mg 279.078	14562.2	14540.1	14552.7
Mn 257.610	2852.54	2842.83	2847.98
Mo 202.032	-0.0190u	0.3203	-0.3482u
Na 330.237	15826.7	15703.8	15863.0
Ni 231.604	2.5837	1.7658	2.8909
Pb 220.353	0.5978	-1.4654u	0.6884
Sb 206.834	-0.0844	0.7960	-0.8112u
Se 196.026	-4.7469u	5.8198	4.4154
Sn 189.925	2.5614	-0.5116u	-2.8239u
Sr 216.596	138.103	137.302	137.419
Ti 334.941	-0.0548	-0.0341	-0.0643

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-0.9567u	1.0725	0.7051
V 292.401	-0.1329u	0.0569u	0.0283u
Zn 206.200	2.8750	3.5929	4.9005

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0070	ppb	0.0476	679.5	-7.4625
Al 308.215	2.3539	ppb	1.7105	72.7	494.657
As 188.980	2.0700	ppb	4.3538	210.3	-5.1358
B 249.678	2.7956	ppb	0.2356	8.4	116.111
Ba 389.178	22.3460	ppb	0.2065	0.9	500.844
Be 313.042	-0.0097	ppb	0.0005	5.4	-451.999
Ca 370.602	27074	ppb	48.77	0.2	91067
Cd 226.502	-0.3319	ppb	0.1037	31.3	51.2112
Co 228.615	2.0348	ppb	0.3607	17.7	15.4125
Cr 267.716	0.0017	ppb	0.1902	11001.2	50.4073
Cu 324.754	-0.0598	ppb	0.1649	276.0	451.845
Fe 271.441	7088.35	ppb	9.0072	0.1	11202.5
K 766.491	1564.02	ppb	2.1198	0.1	74134.5
Mg 279.078	14551.6	ppb	11.0705	0.1	42223.5
Mn 257.610	2847.79	ppb	4.8577	0.2	643994
Mo 202.032	-0.0156	ppb	0.3343	2139.2	4.6555
Na 330.237	15797.8	ppb	83.4645	0.5	834.350
Ni 231.604	2.4135	ppb	0.5815	24.1	4.1796
Pb 220.353	-0.0597	ppb	1.2182	2038.9	11.1682
Sb 206.834	-0.0332	ppb	0.8048	2425.1	2.6942
Se 196.026	1.8294	ppb	5.7384	313.7	0.0398
Sn 189.925	-0.2580	ppb	2.7016	1047.0	-6.4606
Sr 216.596	137.608	ppb	0.4329	0.3	1663.56
Ti 334.941	-0.0511	ppb	0.0155	30.3	5.9575
Tl 190.794	0.2736	ppb	1.0812	395.1	-8.2891
V 292.401	-0.0159	ppb	0.1023	642.6	-17.5427
Zn 206.200	3.7895	ppb	1.0269	27.1	4.7764

680-110705-d-1-dSD^5 (Samp) 3/20/2015, 9:46:36 PM Rack 3, Tube 23

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1027u	0.2429	-0.0878u
Al 308.215	-4.1687u	-2.9166u	-3.3858u
As 188.980	1.3757	-1.1941u	-1.7573u
B 249.678	-1.1790u	-1.5175u	-0.9358u
Ba 389.178	4.5054	4.4742	4.2993
Be 313.042	0.0103	0.0022	0.0005
Ca 370.602	5308	5301	5425
Cd 226.502	-0.0110	-0.0278	0.0230
Co 228.615	0.1096	0.6262	0.8244
Cr 267.716	0.2255	0.1317	-0.0978u
Cu 324.754	-0.3414u	-0.3735u	-0.1868u
Fe 271.441	1400.51	1395.73	1427.49
K 766.491	296.461	296.272	303.573
Mg 279.078	2828.53	2822.15	2884.06
Mn 257.610	568.349	568.757	580.685
Mo 202.032	0.1164	0.0318	0.3410
Na 330.237	3029.39	3015.55	3141.02

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	1.0922	1.5351	1.5787
Pb 220.353	-1.1568u	0.5793	1.8559
Sb 206.834	-1.7917u	-2.1410u	-0.5284u
Se 196.026	4.0936	-7.7498u	3.1849
Sn 189.925	0.0938	0.9699	-0.2674u
Sr 216.596	27.2073	26.8055	27.3007
Ti 334.941	0.0892	-0.0778u	-0.0619u
Tl 190.794	-1.3052u	-0.1500u	-2.3458u
V 292.401	0.0102u	-0.0294u	0.3194
Zn 206.200	1.4594	0.6493	2.1306

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0175	ppb	0.1954	1117.5	-13.6786
Al 308.215	-3.4904	ppb	0.6326	18.1	451.679
As 188.980	-0.5252	ppb	1.6702	318.0	-7.0132
B 249.678	-1.2108	ppb	0.2921	24.1	58.3345
Ba 389.178	4.4263	ppb	0.1111	2.5	63.9041
Be 313.042	0.0043	ppb	0.0053	120.9	-429.876
Ca 370.602	5344	ppb	69.47	1.3	17990
Cd 226.502	-0.0053	ppb	0.0259	491.2	33.3601
Co 228.615	0.5201	ppb	0.3690	71.0	-2.0015
Cr 267.716	0.0865	ppb	0.1663	192.3	40.9880
Cu 324.754	-0.3006	ppb	0.0999	33.2	430.241
Fe 271.441	1407.91	ppb	17.1225	1.2	2226.62
K 766.491	298.769	ppb	4.1616	1.4	14400.1
Mg 279.078	2844.91	ppb	34.0542	1.2	8273.57
Mn 257.610	572.597	ppb	7.0076	1.2	129536
Mo 202.032	0.1631	ppb	0.1598	98.0	6.0547
Na 330.237	3061.99	ppb	68.7907	2.2	185.906
Ni 231.604	1.4020	ppb	0.2691	19.2	0.5256
Pb 220.353	0.4262	ppb	1.5122	354.8	11.0889
Sb 206.834	-1.4870	ppb	0.8484	57.1	0.4971
Se 196.026	-0.1571	ppb	6.5911	4195.8	-1.3939
Sn 189.925	0.2654	ppb	0.6363	239.7	-6.0785
Sr 216.596	27.1045	ppb	0.2631	1.0	328.525
Ti 334.941	-0.0168	ppb	0.0921	547.0	-4.5086
Tl 190.794	-1.2670	ppb	1.0984	86.7	-10.2624
V 292.401	0.1001	ppb	0.1910	190.9	-12.1261
Zn 206.200	1.4131	ppb	0.7417	52.5	2.0653

680-110705-d-1-dPDS (Samp) 3/20/2015, 9:51:21 PM

Rack 3, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	89.1843	89.7245	88.3029
Al 308.215	989.557	990.019	989.424
As 188.980	103.890	102.851	103.703
B 249.678	193.150	195.343	195.249
Ba 389.178	109.117	108.428	108.848
Be 313.042	98.2585	98.2795	98.1034
Ca 370.602	36491	36435	36384
Cd 226.502	95.8173	95.6140	95.7877
Co 228.615	97.8703	98.8625	98.1504
Cr 267.716	99.9770	100.137	99.9395

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	102.201	102.390	102.260
Fe 271.441	16733.0	16696.5	16703.9
K 766.491	12291.7	12277.4	12277.4
Mg 279.078	24020.7	24049.9	24058.4
Mn 257.610	3741.96	3738.74	3739.74
Mo 202.032	95.3785	96.3135	95.4186
Na 330.237	24925.1	25119.7	24956.0
Ni 231.604	99.5831	99.5470	99.7723
Pb 220.353	94.8260	95.3995	98.3610
Sb 206.834	99.5024	98.0244	101.720
Se 196.026	99.1111	99.0895	91.1863
Sn 189.925	100.750	100.022	99.0543
Sr 216.596	227.043	227.596	226.815
Ti 334.941	98.3488	98.3602	98.1911
Tl 190.794	19.6137	14.3139	19.2421
V 292.401	101.547	101.262	101.353
Zn 206.200	102.581	107.451	104.064

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	89.0705	ppb	0.7176	0.8	7998.91
Al 308.215	989.667	ppb	0.3125	0.0	7667.29
As 188.980	103.481	ppb	0.5534	0.5	69.7418
B 249.678	194.580	ppb	1.2397	0.6	3537.35
Ba 389.178	108.797	ppb	0.3473	0.3	2496.24
Be 313.042	98.2138	ppb	0.0962	0.1	189219
Ca 370.602	36436	ppb	53.68	0.1	122514
Cd 226.502	95.7397	ppb	0.1098	0.1	4412.26
Co 228.615	98.2944	ppb	0.5115	0.5	1097.79
Cr 267.716	100.018	ppb	0.1047	0.1	5452.55
Cu 324.754	102.284	ppb	0.0963	0.1	8518.98
Fe 271.441	16711.1	ppb	19.3081	0.1	26419.5
K 766.491	12282.1	ppb	8.2616	0.1	580152
Mg 279.078	24043.0	ppb	19.7825	0.1	69769.3
Mn 257.610	3740.15	ppb	1.6458	0.0	845834
Mo 202.032	95.7035	ppb	0.5287	0.6	618.783
Na 330.237	25000.2	ppb	104.600	0.4	1300.30
Ni 231.604	99.6341	ppb	0.1210	0.1	309.168
Pb 220.353	96.1955	ppb	1.8972	2.0	163.552
Sb 206.834	99.7490	ppb	1.8603	1.9	145.882
Se 196.026	96.4623	ppb	4.5692	4.7	42.2657
Sn 189.925	99.9424	ppb	0.8509	0.9	67.4201
Sr 216.596	227.151	ppb	0.4018	0.2	2745.08
Ti 334.941	98.3000	ppb	0.0945	0.1	28919.5
Tl 190.794	17.7233	ppb	2.9584	16.7	9.9737
V 292.401	101.388	ppb	0.1456	0.1	2824.98
Zn 206.200	104.699	ppb	2.4964	2.4	111.734

Cont Calib Verif (CCV)

3/20/2015, 9:56:06 PM

Rack 3, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	490.580	502.124	495.428
Al 308.215	4888.12	4971.83	4875.33
As 188.980	492.220	508.721	490.434

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	492.349	501.516	494.012
Ba 389.178	4884.17	4961.22	4868.72
Be 313.042	492.031	497.527	489.802
Ca 370.602	4949	5029	4933
Cd 226.502	495.420	502.968	492.357
Co 228.615	497.625	507.562	498.061
Cr 267.716	5008.08	5088.06	4994.92
Cu 324.754	5090.79	5271.54	5156.83
Fe 271.441	4915.36	5002.80	4904.92
K 766.491	10718.1	10888.6	10719.6
Mg 279.078	4931.20	5011.91	4921.22
Mn 257.610	5024.38	5099.50	4979.20
Mo 202.032	490.168	500.764	486.683
Na 330.237	7308.11	7766.03	7574.36
Ni 231.604	2507.87	2545.38	2485.92
Pb 220.353	490.339	501.583	491.815
Sb 206.834	993.827	1017.75	997.201
Se 196.026	5057.14	5098.57	5016.71
Sn 189.925	4849.11	4987.54	4877.92
Sr 216.596	2414.20	2455.90	2406.19
Ti 334.941	487.344	495.688	486.557
Tl 190.794	5036.00	5107.50	5013.42
V 292.401	4924.24	5008.37	4915.25
Zn 206.200	2426.00	2491.72	2431.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.044	ppb	5.7965	1.2	44527.2	99.20885
Al 308.215	4911.76	ppb	52.4108	1.1	36792.2	98.23524
As 188.980	497.125	ppb	10.0821	2.0	360.741	99.42491
B 249.678	495.959	ppb	4.8836	1.0	8992.81	99.19175
Ba 389.178	4904.70	ppb	49.5464	1.0	111582	98.09409
Be 313.042	493.120	ppb	3.9757	0.8	952031	98.62397
Ca 370.602	4970	ppb	51.48	1.0	17126	99.40865
Cd 226.502	496.915	ppb	5.4613	1.1	22326.2	99.38301
Co 228.615	501.083	ppb	5.6157	1.1	5630.23	100.21654
Cr 267.716	5030.35	ppb	50.4070	1.0	271343	100.60699
Cu 324.754	5173.05	ppb	91.4601	1.8	407805	103.46103
Fe 271.441	4941.03	ppb	53.7522	1.1	7909.17	98.82052
K 766.491	10775.5	ppb	98.0115	0.9	509019	107.75456
Mg 279.078	4954.77	ppb	49.7293	1.0	14301.0	99.09546
Mn 257.610	5034.36	ppb	60.7691	1.2	1138225	100.68725
Mo 202.032	492.538	ppb	7.3334	1.5	3162.59	98.50765
Na 330.237	7549.50	ppb	229.970	3.0	384.577	100.66004
Ni 231.604	2513.06	ppb	30.0661	1.2	7863.52	100.52229
Pb 220.353	494.579	ppb	6.1104	1.2	793.998	98.91581
Sb 206.834	1002.93	ppb	12.9490	1.3	1500.79	100.29263
Se 196.026	5057.47	ppb	40.9336	0.8	2241.32	101.14944
Sn 189.925	4904.86	ppb	73.0432	1.5	3610.08	98.09714
Sr 216.596	2425.43	ppb	26.6885	1.1	28900.1	97.01716
Ti 334.941	489.863	ppb	5.0599	1.0	143929	97.97263
Tl 190.794	5052.31	ppb	49.1162	1.0	5565.22	101.04610
V 292.401	4949.29	ppb	51.3660	1.0	139741	98.98571
Zn 206.200	2449.88	ppb	36.3537	1.5	2584.27	97.99533

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Cont Calib Blank (CCB) 3/20/2015, 10:00:51 PM Rack 3, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1909	-0.0161u	-0.1559u
Al 308.215	-3.2772u	-4.3899u	-4.3020u
As 188.980	0.5429	-0.6430u	2.8844
B 249.678	5.5100	4.2756	3.7498
Ba 389.178	0.4424	0.4029	-0.3807u
Be 313.042	0.0075	0.0088	0.0179
Ca 370.602	2.030	3.285	-0.9458u
Cd 226.502	0.1719	0.0372	0.1083
Co 228.615	0.4971	0.0451	-0.1376u
Cr 267.716	0.1871	0.1303	0.0715
Cu 324.754	0.3516	-0.1490u	-0.0548u
Fe 271.441	6.0634	3.0887	4.2486
K 766.491	1.7080	1.3080	1.3290
Mg 279.078	-0.0127u	0.2982	-1.2132u
Mn 257.610	0.1658	0.1065	0.1519
Mo 202.032	0.8487	0.2075	0.5883
Na 330.237	87.3974	16.0397	37.8378
Ni 231.604	1.0729	0.4545	0.6127
Pb 220.353	-1.2171u	0.2504	-2.5927u
Sb 206.834	0.6810	2.8771	2.1601
Se 196.026	-2.0505u	-0.1539u	-0.2623u
Sn 189.925	2.4898	0.4775	2.9022
Sr 216.596	-0.2243u	-0.1766u	0.1571
Ti 334.941	0.1129	0.1044	0.1039
Tl 190.794	-0.5739u	-0.0365u	-1.4101u
V 292.401	0.3974	0.2038	0.0536
Zn 206.200	0.9365	0.4826	1.3499

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0063	ppb	0.1745	2766.0	-16.5193	0.00631
Al 308.215	-3.9897	ppb	0.6186	15.5	447.929	-3.98968
As 188.980	0.9281	ppb	1.7950	193.4	-5.9286	0.92809
B 249.678	4.5118	ppb	0.9036	20.0	164.634	4.51178
Ba 389.178	0.1549	ppb	0.4642	299.7	-40.3938	0.15488
Be 313.042	0.0114	ppb	0.0056	49.7	-417.613	0.01138
Ca 370.602	1.456	ppb	2.173	149.2	20.54	1.45630
Cd 226.502	0.1058	ppb	0.0674	63.7	30.3252	0.10581
Co 228.615	0.1349	ppb	0.3267	242.2	-6.4351	0.13487
Cr 267.716	0.1296	ppb	0.0578	44.6	39.8164	0.12962
Cu 324.754	0.0492	ppb	0.2660	540.3	457.151	0.04924
Fe 271.441	4.4669	ppb	1.4993	33.6	8.9934	4.46692
K 766.491	1.4483	ppb	0.2251	15.5	363.150	1.44834
Mg 279.078	-0.3093	ppb	0.7981	258.1	22.7495	-0.30926
Mn 257.610	0.1414	ppb	0.0310	21.9	95.2916	0.14143
Mo 202.032	0.5481	ppb	0.3224	58.8	8.5895	0.54815
Na 330.237	47.0916	ppb	36.5678	77.7	32.4147	47.09164
Ni 231.604	0.7134	ppb	0.3212	45.0	-1.7507	0.71339
Pb 220.353	-1.1865	ppb	1.4218	119.8	8.3360	-1.18646
Sb 206.834	1.9061	ppb	1.1199	58.8	5.3372	1.90608
Se 196.026	-0.8222	ppb	1.0651	129.5	-1.8275	-0.82224
Sn 189.925	1.9565	ppb	1.2973	66.3	-4.8325	1.95652
Sr 216.596	-0.0813	ppb	0.2078	255.6	0.1112	-0.08130

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.1071	ppb	0.0051	4.7	26.8905	0.10705
Tl 190.794	-0.6735	ppb	0.6922	102.8	-9.6832	-0.67350
V 292.401	0.2183	ppb	0.1724	79.0	-8.3284	0.21830
Zn 206.200	0.9230	ppb	0.4338	47.0	1.4981	0.92299

680-110705-d-1-e ms (Samp) 3/20/2015, 10:05:37 PM Rack 3, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.7574	53.0240	53.5045
Al 308.215	5188.15	5192.99	5186.82
As 188.980	109.601	103.387	105.884
B 249.678	206.495	206.617	207.237
Ba 389.178	121.556	120.077	119.673
Be 313.042	52.0960	52.1326	52.2502
Ca 370.602	31333	31297	31346
Cd 226.502	51.1262	51.0515	51.2120
Co 228.615	53.9758	52.1570	52.8939
Cr 267.716	105.016	105.002	104.762
Cu 324.754	107.533	107.779	108.747
Fe 271.441	11895.8	11884.8	11913.4
K 766.491	7329.16	7350.77	7359.02
Mg 279.078	19179.5	19158.6	19178.9
Mn 257.610	3251.37	3246.14	3255.34
Mo 202.032	99.5413	100.597	100.714
Na 330.237	20820.5	20863.8	20663.2
Ni 231.604	104.430	103.649	103.321
Pb 220.353	509.931	503.449	507.365
Sb 206.834	52.7357	54.2654	52.5346
Se 196.026	101.373	106.602	94.7501
Sn 189.925	203.661	204.626	200.985
Sr 216.596	228.406	227.307	228.436
Ti 334.941	102.404	102.318	102.622
Tl 190.794	43.7315	40.4482	37.3574
V 292.401	104.183	104.069	104.902
Zn 206.200	100.082	102.141	102.208

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.4286	ppb	0.3725	0.7	4793.18
Al 308.215	5189.32	ppb	3.2481	0.1	38103.4
As 188.980	106.291	ppb	3.1271	2.9	71.8527
B 249.678	206.783	ppb	0.3977	0.2	3767.79
Ba 389.178	120.435	ppb	0.9910	0.8	2746.95
Be 313.042	52.1596	ppb	0.0806	0.2	100283
Ca 370.602	31325	ppb	25.10	0.1	105372
Cd 226.502	51.1299	ppb	0.0803	0.2	2385.11
Co 228.615	53.0089	ppb	0.9148	1.7	588.282
Cr 267.716	104.927	ppb	0.1428	0.1	5713.09
Cu 324.754	108.020	ppb	0.6421	0.6	8968.63
Fe 271.441	11898.0	ppb	14.3830	0.1	18809.1
K 766.491	7346.31	ppb	15.4208	0.2	347125
Mg 279.078	19172.3	ppb	11.9348	0.1	55632.5
Mn 257.610	3250.95	ppb	4.6154	0.1	735188
Mo 202.032	100.284	ppb	0.6459	0.6	648.409

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	20782.5	ppb	105.554	0.5	1086.33
Ni 231.604	103.800	ppb	0.5698	0.5	321.909
Pb 220.353	506.915	ppb	3.2640	0.6	810.448
Sb 206.834	53.1786	ppb	0.9466	1.8	78.8740
Se 196.026	100.909	ppb	5.9398	5.9	44.0854
Sn 189.925	203.091	ppb	1.8866	0.9	143.470
Sr 216.596	228.050	ppb	0.6432	0.3	2747.43
Ti 334.941	102.448	ppb	0.1568	0.2	30129.6
Tl 190.794	40.5124	ppb	3.1875	7.9	35.4450
V 292.401	104.384	ppb	0.4518	0.4	2910.46
Zn 206.200	101.477	ppb	1.2086	1.2	108.148

680-110705-d-1-f msd (Samp) 3/20/2015, 10:10:23 PM Rack 3, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.7484	53.9758	52.7033
Al 308.215	5130.05	5245.55	5120.27
As 188.980	104.359	104.318	103.252
B 249.678	206.178	211.888	206.532
Ba 389.178	118.648	120.841	118.547
Be 313.042	51.6477	52.8605	51.4949
Ca 370.602	31017	31806	31044
Cd 226.502	50.6255	51.6999	50.4284
Co 228.615	51.4794	54.0753	52.3917
Cr 267.716	103.867	106.718	103.514
Cu 324.754	107.213	110.075	106.514
Fe 271.441	11825.3	12097.8	11785.6
K 766.491	7265.14	7438.87	7256.29
Mg 279.078	19046.9	19456.9	19000.3
Mn 257.610	3224.73	3300.82	3223.27
Mo 202.032	99.3871	101.512	98.9951
Na 330.237	20408.9	20976.1	20414.6
Ni 231.604	105.769	105.364	104.791
Pb 220.353	502.109	512.731	496.879
Sb 206.834	51.2040	54.5877	53.1568
Se 196.026	97.4336	103.800	103.872
Sn 189.925	202.068	203.748	194.761
Sr 216.596	227.894	232.118	226.981
Ti 334.941	101.384	103.674	100.900
Tl 190.794	37.9057	40.1920	39.2413
V 292.401	103.365	105.606	102.956
Zn 206.200	101.368	103.377	103.997

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.1425	ppb	0.7220	1.4	4767.42
Al 308.215	5165.29	ppb	69.6798	1.3	37929.2
As 188.980	103.976	ppb	0.6276	0.6	70.1417
B 249.678	208.199	ppb	3.1997	1.5	3793.21
Ba 389.178	119.345	ppb	1.2965	1.1	2722.14
Be 313.042	52.0010	ppb	0.7482	1.4	99976.8
Ca 370.602	31289	ppb	447.8	1.4	105250
Cd 226.502	50.9179	ppb	0.6844	1.3	2375.64
Co 228.615	52.6488	ppb	1.3170	2.5	584.235

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	104.700	ppb	1.7572	1.7	5700.82
Cu 324.754	107.934	ppb	1.8871	1.7	8961.88
Fe 271.441	11902.9	ppb	169.914	1.4	18816.8
K 766.491	7320.10	ppb	102.955	1.4	345887
Mg 279.078	19168.0	ppb	251.224	1.3	55620.0
Mn 257.610	3249.61	ppb	44.3602	1.4	734885
Mo 202.032	99.9649	ppb	1.3545	1.4	646.359
Na 330.237	20599.9	ppb	325.820	1.6	1076.99
Ni 231.604	105.308	ppb	0.4914	0.5	326.632
Pb 220.353	503.906	ppb	8.0777	1.6	805.707
Sb 206.834	52.9828	ppb	1.6986	3.2	78.5982
Se 196.026	101.702	ppb	3.6966	3.6	44.4368
Sn 189.925	200.192	ppb	4.7785	2.4	141.333
Sr 216.596	228.998	ppb	2.7408	1.2	2758.74
Ti 334.941	101.986	ppb	1.4818	1.5	29993.8
Tl 190.794	39.1130	ppb	1.1485	2.9	33.9019
V 292.401	103.976	ppb	1.4267	1.4	2898.96
Zn 206.200	102.914	ppb	1.3746	1.3	109.670

680-110738-c-1-b (Samp) 3/20/2015, 10:15:08 PM Rack 3, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1694	-0.1414u	0.0581
Al 308.215	2.0131	-2.1121u	-0.0448
As 188.980	1.4871	-2.1803u	-1.8935u
B 249.678	4.7277	3.5447	3.7356
Ba 389.178	34.5705	34.5419	34.7774
Be 313.042	0.0010	0.0007	-0.0043u
Ca 370.602	19624	19138	19462
Cd 226.502	-0.6824	-0.7541	-0.4572
Co 228.615	5.5882	4.8176	5.7784
Cr 267.716	-0.1960	-0.2671	-0.3187
Cu 324.754	-0.5122u	-0.1640u	-0.0034
Fe 271.441	19300.1	18805.3	19191.6
K 766.491	1213.51	1182.14	1211.88
Mg 279.078	8633.65	8413.57	8586.54
Mn 257.610	2665.73	2598.16	2644.26
Mo 202.032	0.3397	0.6832	1.5149
Na 330.237	7991.28	7796.94	8183.48
Ni 231.604	1.9109	1.4933	1.1260
Pb 220.353	-0.8925	-2.4335u	-0.2933
Sb 206.834	0.5298	2.9064	-1.6337u
Se 196.026	-7.9851u	-0.2198	-4.3313u
Sn 189.925	2.3058	-0.5611u	-1.1734u
Sr 216.596	105.193	102.328	104.709
Ti 334.941	0.0035	-0.0568	-0.0527
Tl 190.794	-0.2134u	-0.0917u	-0.3752u
V 292.401	0.3097	0.3794	-0.0009u
Zn 206.200	3.8228	3.4901	3.5807

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0287	ppb	0.1575	548.8	-7.5200
Al 308.215	-0.0480	ppb	2.0626	4300.9	478.631

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.8622	ppb	2.0396	236.5	-7.3913
B 249.678	4.0026	ppb	0.6351	15.9	107.891
Ba 389.178	34.6299	ppb	0.1286	0.4	777.040
Be 313.042	-0.0009	ppb	0.0030	343.4	-437.016
Ca 370.602	19408	ppb	247.1	1.3	65132
Cd 226.502	-0.6312	ppb	0.1550	24.5	106.062
Co 228.615	5.3947	ppb	0.5088	9.4	53.9560
Cr 267.716	-0.2606	ppb	0.0616	23.6	40.7936
Cu 324.754	-0.2266	ppb	0.2601	114.8	444.324
Fe 271.441	19099.0	ppb	260.079	1.4	30181.0
K 766.491	1202.51	ppb	17.6596	1.5	57067.1
Mg 279.078	8544.59	ppb	115.881	1.4	24781.8
Mn 257.610	2636.05	ppb	34.5248	1.3	596117
Mo 202.032	0.8459	ppb	0.6043	71.4	9.6568
Na 330.237	7990.57	ppb	193.267	2.4	432.927
Ni 231.604	1.5101	ppb	0.3927	26.0	2.3781
Pb 220.353	-1.2064	ppb	1.1041	91.5	10.1154
Sb 206.834	0.6008	ppb	2.2709	378.0	3.8082
Se 196.026	-4.1787	ppb	3.8849	93.0	-2.5657
Sn 189.925	0.1904	ppb	1.8574	975.3	-6.1323
Sr 216.596	104.077	ppb	1.5339	1.5	1275.83
Ti 334.941	-0.0353	ppb	0.0337	95.4	1.9230
Tl 190.794	-0.2268	ppb	0.1422	62.7	-10.8292
V 292.401	0.2294	ppb	0.2025	88.3	-15.4615
Zn 206.200	3.6312	ppb	0.1720	4.7	5.0218

680-110738-c-2-b (Samp)

3/20/2015, 10:19:53 PM

Rack 3, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2594u	0.0632	-0.0576u
Al 308.215	-1.0997u	-0.9099u	-1.2033u
As 188.980	-0.4998u	2.8765	-2.9618u
B 249.678	10.3041	10.3210	10.1042
Ba 389.178	23.2955	23.6515	22.1219
Be 313.042	0.0042	0.0010	-0.0027u
Ca 370.602	22379	22970	22405
Cd 226.502	-1.0858	-1.1459	-1.1732
Co 228.615	14.2050	14.2728	13.8166
Cr 267.716	-0.2550	-0.2453	-0.3027
Cu 324.754	-0.5069u	-0.3140u	-0.0886
Fe 271.441	35050.3	35900.7	35072.9
K 766.491	1976.82	2025.04	1977.80
Mg 279.078	10152.1	10399.6	10158.6
Mn 257.610	2228.83	2283.84	2231.91
Mo 202.032	0.5064	0.4590	0.5133
Na 330.237	11240.0	11171.7	10942.7
Ni 231.604	3.4630	3.0630	2.9837
Pb 220.353	-0.1241	-1.1197	-2.0201u
Sb 206.834	-0.5475u	2.0489	-0.0468
Se 196.026	-0.5045	-0.7324	-4.5460u
Sn 189.925	0.8361	4.0946	-0.8173u
Sr 216.596	95.4054	97.3205	94.9127
Ti 334.941	-0.0898u	-0.0380	-0.0947u

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-0.1888u	1.0371u	0.3478u
V 292.401	0.5116	0.6061	0.6797
Zn 206.200	3.6118	4.2636	2.7976

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0846	ppb	0.1630	192.6	-22.5352
Al 308.215	-1.0710	ppb	0.1488	13.9	473.030
As 188.980	-0.1950	ppb	2.9310	1502.8	-7.0161
B 249.678	10.2431	ppb	0.1206	1.2	179.453
Ba 389.178	23.0229	ppb	0.8004	3.5	529.269
Be 313.042	0.0008	ppb	0.0035	420.9	-433.420
Ca 370.602	22585	ppb	334.1	1.5	75606
Cd 226.502	-1.1350	ppb	0.0447	3.9	175.970
Co 228.615	14.0981	ppb	0.2462	1.7	152.888
Cr 267.716	-0.2677	ppb	0.0307	11.5	46.3397
Cu 324.754	-0.3032	ppb	0.2094	69.1	445.825
Fe 271.441	35341.3	ppb	484.622	1.4	55846.6
K 766.491	1993.22	ppb	27.5584	1.4	94397.5
Mg 279.078	10236.7	ppb	141.044	1.4	29704.8
Mn 257.610	2248.19	ppb	30.9090	1.4	508498
Mo 202.032	0.4929	ppb	0.0296	6.0	6.6707
Na 330.237	11118.1	ppb	155.708	1.4	588.444
Ni 231.604	3.1699	ppb	0.2569	8.1	8.9552
Pb 220.353	-1.0880	ppb	0.9484	87.2	11.3049
Sb 206.834	0.4848	ppb	1.3774	284.1	3.9499
Se 196.026	-1.9276	ppb	2.2704	117.8	-1.5119
Sn 189.925	1.3712	ppb	2.4993	182.3	-5.2608
Sr 216.596	95.8795	ppb	1.2720	1.3	1200.10
Ti 334.941	-0.0742	ppb	0.0314	42.3	-4.7777
Tl 190.794	0.3987	ppb	0.6145	154.1	-12.8666
V 292.401	0.5991	ppb	0.0842	14.1	-11.2428
Zn 206.200	3.5576	ppb	0.7345	20.6	5.5026

680-110779-c-2-b (Samp)

3/20/2015, 10:24:39 PM

Rack 3, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0757	0.1481	0.1730
Al 308.215	-1.3831u	-2.8298u	-2.5643u
As 188.980	-0.3350u	0.7265	-0.0585u
B 249.678	1.8515u	0.6859u	0.9175u
Ba 389.178	29.1771	30.3117	29.5477
Be 313.042	0.0046	-0.0025u	-0.0004
Ca 370.602	21149	20990	20927
Cd 226.502	-1.0416	-1.1734	-1.0631
Co 228.615	2.5206	2.3985	2.3424
Cr 267.716	-0.4747	-0.3790	-0.1811
Cu 324.754	-0.4798u	-0.4357u	-0.2309u
Fe 271.441	35687.9	35602.9	35613.4
K 766.491	1567.30	1569.00	1570.76
Mg 279.078	11835.2	11803.3	11823.3
Mn 257.610	2174.68	2167.74	2173.25
Mo 202.032	0.0699u	0.9156	-0.2715u
Na 330.237	13052.5	13192.3	13002.1

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	0.1962	-0.4537	-0.6953
Pb 220.353	-2.1067u	0.4901	-2.0430u
Sb 206.834	4.0304	-1.5498u	-0.0093
Se 196.026	-8.1101u	-6.8028u	1.4895
Sn 189.925	4.4314	1.8708	0.3711
Sr 216.596	95.3150	96.6067	96.1699
Ti 334.941	-0.0954u	-0.1275u	-0.1184u
Tl 190.794	1.7507u	2.7573u	1.2283u
V 292.401	0.5362	0.7021	0.4053u
Zn 206.200	2.5738	2.2873	2.1040

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1323	ppb	0.0506	38.2	-3.5416
Al 308.215	-2.2591	ppb	0.7702	34.1	464.535
As 188.980	0.1110	ppb	0.5507	496.2	-6.7920
B 249.678	1.1516	ppb	0.6170	53.6	15.4646
Ba 389.178	29.6788	ppb	0.5786	1.9	684.301
Be 313.042	0.0006	ppb	0.0036	618.8	-434.630
Ca 370.602	21022	ppb	114.5	0.5	70345
Cd 226.502	-1.0927	ppb	0.0707	6.5	179.572
Co 228.615	2.4205	ppb	0.0911	3.8	21.6382
Cr 267.716	-0.3449	ppb	0.1497	43.4	41.9836
Cu 324.754	-0.3821	ppb	0.1328	34.8	439.734
Fe 271.441	35634.7	ppb	46.3219	0.1	56308.9
K 766.491	1569.02	ppb	1.7263	0.1	74370.4
Mg 279.078	11820.6	ppb	16.0962	0.1	34306.6
Mn 257.610	2171.89	ppb	3.6672	0.2	491263
Mo 202.032	0.2380	ppb	0.6111	256.8	5.0206
Na 330.237	13082.3	ppb	98.5114	0.8	688.616
Ni 231.604	-0.3176	ppb	0.4611	145.2	-1.9094
Pb 220.353	-1.2199	ppb	1.4812	121.4	11.1054
Sb 206.834	0.8238	ppb	2.8819	349.8	4.4464
Se 196.026	-4.4745	ppb	5.2062	116.4	-2.6549
Sn 189.925	2.2244	ppb	2.0531	92.3	-4.6312
Sr 216.596	96.0305	ppb	0.6570	0.7	1201.82
Ti 334.941	-0.1138	ppb	0.0166	14.6	-13.6986
Tl 190.794	1.9121	ppb	0.7772	40.6	-11.3168
V 292.401	0.5478	ppb	0.1487	27.1	-12.7473
Zn 206.200	2.3217	ppb	0.2368	10.2	4.2045

680-110779-c-3-b (Samp)

3/20/2015, 10:29:24 PM

Rack 3, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0845u	0.1075	-0.1203u
Al 308.215	-4.4917u	-1.6279u	-2.8283u
As 188.980	5.2663	0.5823	0.8087
B 249.678	1.3572u	1.7613u	1.5200u
Ba 389.178	19.8397	20.3224	20.1877
Be 313.042	0.0021	-0.0000	-0.0092u
Ca 370.602	17248	17586	17695
Cd 226.502	-1.6663	-1.5499	-1.5078
Co 228.615	3.6013	2.6894	3.1947
Cr 267.716	-0.3079	-0.3791	-0.5412

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	-0.4137u	-0.1675	-0.3914u
Fe 271.441	48480.4	49499.0	49836.8
K 766.491	1124.34	1148.03	1159.40
Mg 279.078	7531.54	7683.06	7728.84
Mn 257.610	2469.19	2520.59	2535.10
Mo 202.032	0.5518	0.3030u	0.6803
Na 330.237	7499.45	7584.32	7622.14
Ni 231.604	-0.7397	-0.0783	0.6618
Pb 220.353	-3.0712u	-2.4186u	-1.1174
Sb 206.834	-1.3409u	-0.5876	-1.9675u
Se 196.026	-1.9655	4.8691	2.7893
Sn 189.925	1.3635	1.4335	-1.7935u
Sr 216.596	90.2910	92.5062	92.2507
Ti 334.941	-0.0765u	-0.0240	-0.0667u
Tl 190.794	1.7570u	-0.2022u	-2.3648u
V 292.401	0.6210u	0.6971	0.8358
Zn 206.200	0.1252	1.4240	0.3136

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0324	ppb	0.1225	378.0	-18.7389
Al 308.215	-2.9826	ppb	1.4381	48.2	460.851
As 188.980	2.2191	ppb	2.6414	119.0	-5.3328
B 249.678	1.5462	ppb	0.2033	13.1	-11.5103
Ba 389.178	20.1166	ppb	0.2490	1.2	468.628
Be 313.042	-0.0024	ppb	0.0060	253.0	-441.420
Ca 370.602	17510	ppb	233.1	1.3	58376
Cd 226.502	-1.5747	ppb	0.0821	5.2	235.647
Co 228.615	3.1618	ppb	0.4569	14.4	30.8746
Cr 267.716	-0.4094	ppb	0.1196	29.2	46.5379
Cu 324.754	-0.3242	ppb	0.1361	42.0	450.652
Fe 271.441	49272.0	ppb	706.107	1.4	77857.5
K 766.491	1143.93	ppb	17.8857	1.6	54301.1
Mg 279.078	7647.81	ppb	103.264	1.4	22180.1
Mn 257.610	2508.29	ppb	34.6304	1.4	567323
Mo 202.032	0.5117	ppb	0.1918	37.5	6.1741
Na 330.237	7568.64	ppb	62.8322	0.8	403.833
Ni 231.604	-0.0521	ppb	0.7011	1346.3	0.0976
Pb 220.353	-2.2024	ppb	0.9947	45.2	10.5356
Sb 206.834	-1.2986	ppb	0.6909	53.2	1.6471
Se 196.026	1.8977	ppb	3.5035	184.6	0.3628
Sn 189.925	0.3345	ppb	1.8432	551.1	-6.0262
Sr 216.596	91.6826	ppb	1.2120	1.3	1166.25
Ti 334.941	-0.0557	ppb	0.0279	50.1	-1.9977
Tl 190.794	-0.2700	ppb	2.0617	763.5	-15.6922
V 292.401	0.7180	ppb	0.1089	15.2	-13.3038
Zn 206.200	0.6209	ppb	0.7018	113.0	2.8735

680-110779-c-4-b (Samp)

3/20/2015, 10:34:09 PM

Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2169	0.2421	-0.0833u
Al 308.215	-0.6727	-2.5933u	-1.8426u
As 188.980	2.3079	-1.9787u	0.7547

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	4.5274u	4.9270u	4.8055u
Ba 389.178	33.7645	32.6766	33.3710
Be 313.042	-0.0024u	-0.0090u	-0.0022
Ca 370.602	27742	27748	27798
Cd 226.502	-2.1148	-1.8591	-1.9107
Co 228.615	22.7974	23.1630	22.2951
Cr 267.716	-0.9205	-0.9409	-0.6681
Cu 324.754	-0.6334u	-0.6472u	-0.8508u
Fe 271.441	72721.3	72774.9	72881.5
K 766.491	1978.01	1974.94	1969.47
Mg 279.078	14783.9	14805.7	14817.9
Mn 257.610	3798.93	3809.80	3818.48
Mo 202.032	0.3648u	0.7057	1.1591
Na 330.237	10733.3	10710.2	10590.1
Ni 231.604	1.7357	1.6978	1.8052
Pb 220.353	-5.6996u	-4.4544u	-6.4092u
Sb 206.834	-2.4832u	-0.0011	1.8683
Se 196.026	-6.0668u	0.0736	5.9675
Sn 189.925	3.8181	0.1350	2.1952
Sr 216.596	119.620	120.340	121.160
Ti 334.941	-0.0736	-0.1248u	-0.1225u
Tl 190.794	5.7401u	1.0141u	-0.9871u
V 292.401	0.9048u	1.2387	1.1123
Zn 206.200	2.4818	1.9984	0.5104

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1252	ppb	0.1810	144.6	-2.9594
Al 308.215	-1.7029	ppb	0.9679	56.8	472.734
As 188.980	0.3613	ppb	2.1702	600.7	-6.8784
B 249.678	4.7533	ppb	0.2048	4.3	-12.8093
Ba 389.178	33.2707	ppb	0.5508	1.7	801.569
Be 313.042	-0.0045	ppb	0.0039	86.0	-443.727
Ca 370.602	27762	ppb	30.60	0.1	92607
Cd 226.502	-1.9615	ppb	0.1352	6.9	352.955
Co 228.615	22.7518	ppb	0.4358	1.9	252.666
Cr 267.716	-0.8432	ppb	0.1519	18.0	40.7783
Cu 324.754	-0.7104	ppb	0.1217	17.1	431.225
Fe 271.441	72792.5	ppb	81.5300	0.1	115025
K 766.491	1974.14	ppb	4.3274	0.2	93496.8
Mg 279.078	14802.5	ppb	17.2073	0.1	42930.9
Mn 257.610	3809.07	ppb	9.7941	0.3	861517
Mo 202.032	0.7432	ppb	0.3985	53.6	6.6140
Na 330.237	10677.9	ppb	76.8936	0.7	556.538
Ni 231.604	1.7463	ppb	0.0545	3.1	7.7187
Pb 220.353	-5.5211	ppb	0.9895	17.9	7.1421
Sb 206.834	-0.2053	ppb	2.1829	1063.2	3.6496
Se 196.026	-0.0086	ppb	6.0176	70304.0	0.0123
Sn 189.925	2.0494	ppb	1.8459	90.1	-4.7610
Sr 216.596	120.373	ppb	0.7702	0.6	1543.21
Ti 334.941	-0.1070	ppb	0.0289	27.1	-1.7559
Tl 190.794	1.9224	ppb	3.4543	179.7	-16.2710
V 292.401	1.0852	ppb	0.1686	15.5	-12.0659
Zn 206.200	1.6635	ppb	1.0275	61.8	4.7904

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

CRI (Samp) 3/20/2015, 10:38:55 PM **Rack 3, Tube 34**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.1900	10.3572	10.2308
Al 308.215	202.997	209.565	202.776
As 188.980	19.0467	23.3384	17.6846
B 249.678	97.9982	100.283	97.7966
Ba 389.178	10.3102	9.7113	9.7756
Be 313.042	4.2254	4.3142	4.2233
Ca 370.602	523.2	535.5	522.6
Cd 226.502	5.1683	5.2154	5.0404
Co 228.615	10.4264	10.6632	10.1873
Cr 267.716	10.2019	10.4480	10.3443
Cu 324.754	21.7688	22.4800	21.6998
Fe 271.441	62.0648	58.7859	60.4417
K 766.491	1124.62	1155.78	1128.72
Mg 279.078	513.333	528.077	511.984
Mn 257.610	10.8424	11.1363	10.8670
Mo 202.032	9.8091	9.8689	9.6825
Na 330.237	1040.44	1013.30	931.401
Ni 231.604	42.4126	43.0790	41.3228
Pb 220.353	8.8927	10.9544	8.6293
Sb 206.834	24.0278	24.0469	20.9939
Se 196.026	15.5303	22.5978	15.5116
Sn 189.925	49.3749	51.3701	52.8202
Sr 216.596	9.8078	10.0365	9.3310
Ti 334.941	10.0195	10.3379	10.0158
Tl 190.794	24.8760	24.2562	28.1053
V 292.401	10.3187	10.7602	10.5416
Zn 206.200	21.1428	21.8542	20.5812

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2593	ppb	0.0872	0.8	904.899
Al 308.215	205.113	ppb	3.8572	1.9	1964.98
As 188.980	20.0232	ppb	2.9507	14.7	8.1860
B 249.678	98.6926	ppb	1.3809	1.4	1855.95
Ba 389.178	9.9323	ppb	0.3288	3.3	183.291
Be 313.042	4.2543	ppb	0.0519	1.2	7775.08
Ca 370.602	527.1	ppb	7.263	1.4	1793
Cd 226.502	5.1413	ppb	0.0906	1.8	256.340
Co 228.615	10.4256	ppb	0.2380	2.3	109.198
Cr 267.716	10.3314	ppb	0.1236	1.2	590.063
Cu 324.754	21.9829	ppb	0.4319	2.0	2184.81
Fe 271.441	60.4308	ppb	1.6395	2.7	98.6789
K 766.491	1136.37	ppb	16.9321	1.5	53944.6
Mg 279.078	517.798	ppb	8.9274	1.7	1527.17
Mn 257.610	10.9486	ppb	0.1631	1.5	2542.79
Mo 202.032	9.7868	ppb	0.0952	1.0	67.9025
Na 330.237	995.046	ppb	56.7630	5.7	80.5298
Ni 231.604	42.2715	ppb	0.8865	2.1	128.346
Pb 220.353	9.4921	ppb	1.2732	13.4	25.1562
Sb 206.834	23.0229	ppb	1.7571	7.6	35.6407
Se 196.026	17.8799	ppb	4.0858	22.9	6.4648
Sn 189.925	51.1884	ppb	1.7298	3.4	31.4664
Sr 216.596	9.7251	ppb	0.3599	3.7	116.246

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	10.1244	ppb	0.1849	1.8	2970.92
Tl 190.794	25.7458	ppb	2.0667	8.0	19.4238
V 292.401	10.5402	ppb	0.2208	2.1	281.446
Zn 206.200	21.1927	ppb	0.6379	3.0	22.9377

mb 680-375405/1-a (Samp) 3/20/2015, 10:43:41 PM Rack 3, Tube 35
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0013	0.0393	0.2482
Al 308.215	-2.9506u	-2.8272u	-1.6522u
As 188.980	-3.3119u	-2.2731u	1.0799
B 249.678	-0.1806u	-0.7650u	-0.8914u
Ba 389.178	-0.1229u	0.0403	-0.0547u
Be 313.042	0.0023	0.0078	0.0058
Ca 370.602	2.234	4.117	5.854
Cd 226.502	0.0384	0.1228	0.0229
Co 228.615	0.3706	0.3517	-0.0874u
Cr 267.716	0.1082	0.0134	0.0062
Cu 324.754	0.3225	-0.2976u	-0.0375u
Fe 271.441	6.4551	2.5155	7.6487
K 766.491	0.3976	-0.0195u	-0.4813u
Mg 279.078	-2.1826u	1.4367	-0.9810u
Mn 257.610	0.0432	0.0165	0.0542
Mo 202.032	0.4187	-0.0847u	0.3285
Na 330.237	77.1610	152.146	36.5834
Ni 231.604	0.4744	0.2182	0.8414
Pb 220.353	-0.7283u	-1.3292u	-0.1473u
Sb 206.834	-1.9427u	1.5008	-1.4484u
Se 196.026	-5.6428u	1.1973	0.1905
Sn 189.925	-0.7255u	2.5136	2.4284
Sr 216.596	0.0921	0.4808	0.1269
Ti 334.941	-0.0585u	0.0045	-0.0371u
Tl 190.794	0.8118	-1.2421u	-0.8707u
V 292.401	0.2665	0.2870	-0.2185u
Zn 206.200	0.4849	1.4519	0.2576

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0963	ppb	0.1330	138.1	-8.4366
Al 308.215	-2.4767	ppb	0.7166	28.9	458.870
As 188.980	-1.5017	ppb	2.2953	152.8	-7.7250
B 249.678	-0.6124	ppb	0.3792	61.9	72.5706
Ba 389.178	-0.0458	ppb	0.0820	179.0	-44.9561
Be 313.042	0.0053	ppb	0.0028	52.2	-429.286
Ca 370.602	4.068	ppb	1.810	44.5	29.21
Cd 226.502	0.0614	ppb	0.0537	87.6	28.3561
Co 228.615	0.2116	ppb	0.2591	122.4	-5.5660
Cr 267.716	0.0426	ppb	0.0569	133.7	35.1238
Cu 324.754	-0.0042	ppb	0.3114	7397.1	452.932
Fe 271.441	5.5398	ppb	2.6862	48.5	10.6851
K 766.491	-0.0344	ppb	0.4396	1276.9	293.147
Mg 279.078	-0.5756	ppb	1.8434	320.2	21.9775
Mn 257.610	0.0380	ppb	0.0194	51.1	71.9240
Mo 202.032	0.2208	ppb	0.2684	121.5	6.4876

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	88.6301	ppb	58.6288	66.1	34.5397
Ni 231.604	0.5114	ppb	0.3133	61.3	-2.3828
Pb 220.353	-0.7350	ppb	0.5910	80.4	9.0483
Sb 206.834	-0.6301	ppb	1.8619	295.5	1.6992
Se 196.026	-1.4183	ppb	3.6930	260.4	-2.0917
Sn 189.925	1.4055	ppb	1.8460	131.3	-5.2388
Sr 216.596	0.2333	ppb	0.2151	92.2	3.8770
Ti 334.941	-0.0304	ppb	0.0320	105.5	-13.4757
Tl 190.794	-0.4337	ppb	1.0945	252.4	-9.4189
V 292.401	0.1117	ppb	0.2861	256.2	-11.2793
Zn 206.200	0.7315	ppb	0.6342	86.7	1.2958

ics 680-375405/2-a (Samp) 3/20/2015, 10:48:26 PM Rack 3, Tube 36
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	54.8814	52.6679	52.4585
Al 308.215	5223.20	5071.46	5067.38
As 188.980	108.668	104.623	97.6455
B 249.678	205.933	200.726	201.399
Ba 389.178	101.428	99.1872	98.3735
Be 313.042	53.2818	51.8812	51.7876
Ca 370.602	5353	5190	5174
Cd 226.502	52.8436	51.3707	51.0781
Co 228.615	53.4780	52.1909	50.0410
Cr 267.716	108.064	104.909	104.438
Cu 324.754	109.247	105.800	105.654
Fe 271.441	5196.57	5057.01	5046.74
K 766.491	5748.61	5594.87	5586.99
Mg 279.078	5222.75	5059.80	5047.94
Mn 257.610	546.042	531.462	529.410
Mo 202.032	102.657	100.566	99.3633
Na 330.237	5507.87	5435.99	5279.81
Ni 231.604	104.702	103.144	101.356
Pb 220.353	520.529	511.007	503.732
Sb 206.834	50.6363	53.0829	54.8846
Se 196.026	107.074	100.436	101.668
Sn 189.925	206.549	197.710	198.597
Sr 216.596	100.586	98.0335	97.6895
Ti 334.941	105.011	102.239	102.141
Tl 190.794	42.1910	42.8008	38.9373
V 292.401	106.395	103.709	103.085
Zn 206.200	105.032	101.712	100.133

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.3359	ppb	1.3425	2.5	4776.20
Al 308.215	5120.68	ppb	88.8085	1.7	37605.2
As 188.980	103.645	ppb	5.5758	5.4	69.9462
B 249.678	202.686	ppb	2.8319	1.4	3711.16
Ba 389.178	99.6629	ppb	1.5819	1.6	2239.28
Be 313.042	52.3169	ppb	0.8370	1.6	100581
Ca 370.602	5239	ppb	98.96	1.9	17643
Cd 226.502	51.7641	ppb	0.9462	1.8	2374.75
Co 228.615	51.9033	ppb	1.7365	3.3	575.397

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	105.803	ppb	1.9718	1.9	5743.67
Cu 324.754	106.900	ppb	2.0333	1.9	8877.35
Fe 271.441	5100.10	ppb	83.6961	1.6	8067.55
K 766.491	5643.49	ppb	91.1240	1.6	266732
Mg 279.078	5110.17	ppb	97.6832	1.9	14851.3
Mn 257.610	535.638	ppb	9.0682	1.7	121211
Mo 202.032	100.862	ppb	1.6668	1.7	652.421
Na 330.237	5407.89	ppb	116.595	2.2	303.469
Ni 231.604	103.068	ppb	1.6744	1.6	319.032
Pb 220.353	511.756	ppb	8.4233	1.6	817.070
Sb 206.834	52.8679	ppb	2.1323	4.0	78.3004
Se 196.026	103.059	ppb	3.5308	3.4	44.3790
Sn 189.925	200.952	ppb	4.8675	2.4	141.889
Sr 216.596	98.7695	ppb	1.5822	1.6	1185.16
Ti 334.941	103.131	ppb	1.6297	1.6	30305.4
Tl 190.794	41.3097	ppb	2.0771	5.0	35.9953
V 292.401	104.396	ppb	1.7590	1.7	2913.20
Zn 206.200	102.292	ppb	2.5002	2.4	108.776

Cont Calib Verif (CCV) 3/20/2015, 10:53:12 PM Rack 3, Tube 37
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.245	496.715	491.153
Al 308.215	4992.52	4904.61	4878.77
As 188.980	500.127	491.373	487.775
B 249.678	501.383	495.090	494.058
Ba 389.178	4980.95	4890.48	4863.10
Be 313.042	501.996	493.791	489.325
Ca 370.602	5052	4966	4939
Cd 226.502	505.676	496.228	493.614
Co 228.615	509.071	499.192	497.329
Cr 267.716	5114.07	5023.48	4991.68
Cu 324.754	5313.69	5181.46	5182.70
Fe 271.441	5008.44	4936.83	4896.67
K 766.491	10946.3	10719.8	10698.0
Mg 279.078	5040.49	4944.65	4916.75
Mn 257.610	5107.94	5022.77	4993.76
Mo 202.032	500.314	491.759	489.323
Na 330.237	7787.27	7557.82	7537.05
Ni 231.604	2568.10	2514.58	2497.53
Pb 220.353	499.629	492.928	490.193
Sb 206.834	1017.99	995.979	991.226
Se 196.026	5117.10	5037.64	5010.53
Sn 189.925	4988.10	4922.09	4898.69
Sr 216.596	2474.02	2428.24	2412.00
Ti 334.941	497.574	488.208	486.061
Tl 190.794	5123.37	5040.69	5016.60
V 292.401	5033.40	4937.37	4915.66
Zn 206.200	2501.93	2450.94	2413.18

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	498.371	ppb	8.1728	1.6	44735.9	99.67417
Al 308.215	4925.30	ppb	59.6296	1.2	36892.3	98.50597

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	493.092	ppb	6.3530	1.3	357.759	98.61833
B 249.678	496.844	ppb	3.9651	0.8	9008.65	99.36873
Ba 389.178	4911.51	ppb	61.6755	1.3	111737	98.23022
Be 313.042	495.037	ppb	6.4267	1.3	955734	99.00739
Ca 370.602	4986	ppb	58.95	1.2	17179	99.71739
Cd 226.502	498.506	ppb	6.3456	1.3	22397.6	99.70118
Co 228.615	501.864	ppb	6.3105	1.3	5639.02	100.37285
Cr 267.716	5043.07	ppb	63.5036	1.3	272029	100.86150
Cu 324.754	5225.95	ppb	75.9871	1.5	411971	104.51902
Fe 271.441	4947.31	ppb	56.6198	1.1	7919.30	98.94625
K 766.491	10788.1	ppb	137.504	1.3	509615	107.88064
Mg 279.078	4967.30	ppb	64.9044	1.3	14337.2	99.34595
Mn 257.610	5041.49	ppb	59.3457	1.2	1139836	100.82979
Mo 202.032	493.798	ppb	5.7723	1.2	3170.67	98.75970
Na 330.237	7627.38	ppb	138.855	1.8	388.453	101.69839
Ni 231.604	2526.74	ppb	36.8219	1.5	7906.35	101.06950
Pb 220.353	494.250	ppb	4.8548	1.0	793.492	98.84999
Sb 206.834	1001.73	ppb	14.2782	1.4	1499.27	100.17311
Se 196.026	5055.09	ppb	55.3823	1.1	2240.26	101.10178
Sn 189.925	4936.29	ppb	46.3633	0.9	3633.26	98.72587
Sr 216.596	2438.09	ppb	32.1577	1.3	29051.0	97.52357
Ti 334.941	490.614	ppb	6.1219	1.2	144150	98.12283
Tl 190.794	5060.22	ppb	56.0026	1.1	5573.96	101.20444
V 292.401	4962.14	ppb	62.6558	1.3	140104	99.24287
Zn 206.200	2455.35	ppb	44.5396	1.8	2590.02	98.21404

Cont Calib Blank (CCB)

3/20/2015, 10:57:58 PM

Rack 3, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1084u	0.1877	0.0475
Al 308.215	-2.3090u	-2.1746u	-1.6430u
As 188.980	0.1960	2.3766	3.4102
B 249.678	5.1447	4.7906	4.1613
Ba 389.178	0.4782	-0.0410u	-0.0568u
Be 313.042	0.0194	0.0126	0.0166
Ca 370.602	3.394	6.609	3.197
Cd 226.502	0.0486	0.0038	0.0314
Co 228.615	0.0338	0.5579	0.3596
Cr 267.716	0.1855	0.2171	0.1236
Cu 324.754	0.0763	-0.4073u	0.1351
Fe 271.441	5.4913	6.9326	5.7551
K 766.491	-0.3160u	0.0398	0.6053
Mg 279.078	1.7843	-1.0163u	0.8041
Mn 257.610	0.1550	0.1336	0.1607
Mo 202.032	0.7588	0.6686	0.1514
Na 330.237	55.2998	129.270	-30.1258u
Ni 231.604	-0.3475u	-0.3816u	-0.6823u
Pb 220.353	-0.1330u	-0.0219u	-1.3155u
Sb 206.834	0.0822	1.1830	1.0688
Se 196.026	5.7344	-3.9590u	-6.9436u
Sn 189.925	0.2466	-0.8468u	-0.7312u
Sr 216.596	0.1972	0.2235	0.2584
Ti 334.941	0.1104	0.1017	0.1008

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	3.8111	2.1399	1.6293
V 292.401	0.3979	0.1921	0.0881
Zn 206.200	0.3599	1.2149	1.1369

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0423	ppb	0.1481	350.4	-13.2934	0.04227
Al 308.215	-2.0422	ppb	0.3522	17.2	462.050	-2.04219
As 188.980	1.9943	ppb	1.6408	82.3	-5.1404	1.99428
B 249.678	4.6989	ppb	0.4981	10.6	167.964	4.69888
Ba 389.178	0.1268	ppb	0.3045	240.1	-41.0238	0.12681
Be 313.042	0.0162	ppb	0.0034	21.0	-408.306	0.01620
Ca 370.602	4.400	ppb	1.915	43.5	30.39	4.39985
Cd 226.502	0.0279	ppb	0.0226	81.0	26.8591	0.02792
Co 228.615	0.3171	ppb	0.2646	83.5	-4.3860	0.31710
Cr 267.716	0.1754	ppb	0.0476	27.1	42.2903	0.17542
Cu 324.754	-0.0653	ppb	0.2976	455.8	448.134	-0.06530
Fe 271.441	6.0597	ppb	0.7674	12.7	11.5314	6.05966
K 766.491	0.1097	ppb	0.4646	423.5	299.952	0.10971
Mg 279.078	0.5240	ppb	1.4211	271.2	25.1687	0.52403
Mn 257.610	0.1498	ppb	0.0143	9.5	97.2084	0.14977
Mo 202.032	0.5263	ppb	0.3278	62.3	8.4489	0.52628
Na 330.237	51.4814	ppb	79.7666	154.9	32.6427	51.48141
Ni 231.604	-0.4705	ppb	0.1842	39.2	-5.4574	-0.47049
Pb 220.353	-0.4901	ppb	0.7169	146.3	9.4337	-0.49014
Sb 206.834	0.7780	ppb	0.6053	77.8	3.7160	0.77798
Se 196.026	-1.7227	ppb	6.6282	384.8	-2.2266	-1.72271
Sn 189.925	-0.4438	ppb	0.6007	135.3	-6.6023	-0.44383
Sr 216.596	0.2264	ppb	0.0307	13.6	3.8115	0.22638
Ti 334.941	0.1043	ppb	0.0053	5.1	26.0921	0.10433
Tl 190.794	2.5267	ppb	1.1412	45.2	-6.1588	2.52674
V 292.401	0.2260	ppb	0.1577	69.8	-8.1211	0.22602
Zn 206.200	0.9039	ppb	0.4728	52.3	1.4780	0.90389

680-110776-b-2-a (Samp)

3/20/2015, 11:02:44 PM

Rack 3, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1728	0.0639	-0.1797u
Al 308.215	-0.2750u	-1.4233u	-2.6486u
As 188.980	4.9326	1.9023	0.4167
B 249.678	90.8033	91.2922	90.2427
Ba 389.178	45.3437	45.1427	44.7566
Be 313.042	0.0124	0.0104	0.0118
Ca 370.602	18441	18462	18400
Cd 226.502	0.1607	0.1457	0.2458
Co 228.615	0.9706	1.1192	0.8411
Cr 267.716	0.0994	0.1569	0.1663
Cu 324.754	0.3080	0.1774	0.2155
Fe 271.441	15.6938	8.7198	5.2101
K 766.491	293.198	292.725	292.799
Mg 279.078	3889.88	3906.44	3887.59
Mn 257.610	391.721	391.791	390.851
Mo 202.032	-0.0118u	0.1131	0.7172
Na 330.237	7085.71	7313.43	7069.45

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	1.6525	1.1864	2.1981
Pb 220.353	0.7112	-2.5435u	-0.9097u
Sb 206.834	0.8508	0.2414	-0.5766u
Se 196.026	-6.1695u	0.1378	3.1232
Sn 189.925	2.1155	0.3319	0.8478
Sr 216.596	66.3546	66.2567	66.6998
Ti 334.941	0.0656	0.0796	0.0600
Tl 190.794	-2.2443u	-1.9136u	-1.8535u
V 292.401	0.4825	0.1817	0.0555
Zn 206.200	4.8570	3.8722	4.2277

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0190	ppb	0.1805	948.9	-15.7520
Al 308.215	-1.4490	ppb	1.1870	81.9	466.345
As 188.980	2.4172	ppb	2.3016	95.2	-4.8276
B 249.678	90.7794	ppb	0.5252	0.6	1713.63
Ba 389.178	45.0810	ppb	0.2984	0.7	990.060
Be 313.042	0.0115	ppb	0.0010	9.1	-411.702
Ca 370.602	18434	ppb	31.30	0.2	62024
Cd 226.502	0.1841	ppb	0.0540	29.3	33.8757
Co 228.615	0.9770	ppb	0.1391	14.2	3.0385
Cr 267.716	0.1409	ppb	0.0362	25.7	42.4515
Cu 324.754	0.2336	ppb	0.0671	28.7	471.666
Fe 271.441	9.8746	ppb	5.3364	54.0	17.6387
K 766.491	292.908	ppb	0.2545	0.1	14123.4
Mg 279.078	3894.64	ppb	10.2861	0.3	11326.3
Mn 257.610	391.454	ppb	0.5232	0.1	88589.8
Mo 202.032	0.2729	ppb	0.3899	142.9	6.8214
Na 330.237	7156.20	ppb	136.410	1.9	395.146
Ni 231.604	1.6790	ppb	0.5064	30.2	1.2709
Pb 220.353	-0.9140	ppb	1.6273	178.0	8.8457
Sb 206.834	0.1719	ppb	0.7163	416.8	2.8505
Se 196.026	-0.9695	ppb	4.7443	489.3	-1.8062
Sn 189.925	1.0984	ppb	0.9178	83.6	-5.4631
Sr 216.596	66.4370	ppb	0.2328	0.4	801.248
Ti 334.941	0.0684	ppb	0.0101	14.7	21.9308
Tl 190.794	-2.0038	ppb	0.2104	10.5	-10.9455
V 292.401	0.2399	ppb	0.2193	91.4	-7.6825
Zn 206.200	4.3190	ppb	0.4987	11.5	5.0933

680-110776-b-2-aSD^5 (Samp) 3/20/2015, 11:07:30 PM

Rack 3, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1380	-0.0918u	-0.0808u
Al 308.215	-0.4288u	-4.0368u	-2.0351u
As 188.980	-0.4773u	-1.4019u	-3.4235u
B 249.678	19.3920	18.9628	18.4865
Ba 389.178	9.7783	10.1132	9.1320
Be 313.042	0.0026	0.0063	0.0037
Ca 370.602	4020	3891	3800
Cd 226.502	0.0365	0.0296	-0.0160u
Co 228.615	0.4356	0.8140	0.2108
Cr 267.716	0.2089	0.0607	0.2067

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	-0.1702u	0.0042	-0.5845u
Fe 271.441	10.4155	2.3617	5.7838
K 766.491	62.9935	61.5461	58.8582
Mg 279.078	858.460	830.503	817.402
Mn 257.610	86.7027	84.3739	82.1749
Mo 202.032	0.6045	0.2386	-0.2137u
Na 330.237	1639.82	1557.43	1578.81
Ni 231.604	2.4524	1.2333	1.4889
Pb 220.353	1.4083	-4.1454u	-2.5454u
Sb 206.834	0.0399	2.6358	-1.6085u
Se 196.026	-0.8427u	-5.0472u	-2.7100u
Sn 189.925	2.4268	0.0154	2.1292
Sr 216.596	14.8263	14.3334	14.3798
Ti 334.941	-0.0248u	-0.0082u	-0.0189u
Tl 190.794	-1.1808u	0.4245	0.5316
V 292.401	0.3069	0.0638	0.0904
Zn 206.200	0.5577	0.0756	1.2798

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0115	ppb	0.1296	1123.1	-18.2100
Al 308.215	-2.1669	ppb	1.8076	83.4	461.117
As 188.980	-1.7676	ppb	1.5068	85.2	-7.9216
B 249.678	18.9471	ppb	0.4530	2.4	423.800
Ba 389.178	9.6745	ppb	0.4988	5.2	177.980
Be 313.042	0.0042	ppb	0.0019	44.9	-430.273
Ca 370.602	3904	ppb	111.0	2.8	13147
Cd 226.502	0.0167	ppb	0.0285	170.7	26.3560
Co 228.615	0.4868	ppb	0.3049	62.6	-2.4723
Cr 267.716	0.1588	ppb	0.0849	53.5	41.8299
Cu 324.754	-0.2502	ppb	0.3024	120.9	433.562
Fe 271.441	6.1870	ppb	4.0420	65.3	11.7361
K 766.491	61.1326	ppb	2.0984	3.4	3180.93
Mg 279.078	835.455	ppb	20.9722	2.5	2448.21
Mn 257.610	84.4171	ppb	2.2642	2.7	19154.0
Mo 202.032	0.2098	ppb	0.4099	195.4	6.4168
Na 330.237	1592.02	ppb	42.7527	2.7	111.257
Ni 231.604	1.7249	ppb	0.6429	37.3	1.4160
Pb 220.353	-1.7609	ppb	2.8588	162.4	7.4485
Sb 206.834	0.3557	ppb	2.1397	601.5	3.1158
Se 196.026	-2.8666	ppb	2.1066	73.5	-2.7149
Sn 189.925	1.5238	ppb	1.3148	86.3	-5.1511
Sr 216.596	14.5131	ppb	0.2722	1.9	175.809
Ti 334.941	-0.0173	ppb	0.0084	48.8	-8.2699
Tl 190.794	-0.0749	ppb	0.9592	1280.5	-8.9800
V 292.401	0.1537	ppb	0.1333	86.8	-10.1032
Zn 206.200	0.6377	ppb	0.6061	95.0	1.1962

680-110776-b-2-aPDS (Samp) 3/20/2015, 11:12:16 PM Rack 3, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	89.2522	89.0221	89.9006
Al 308.215	980.357	981.553	984.398
As 188.980	96.3985	102.710	99.3724

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	282.633	283.811	285.794
Ba 389.178	131.208	130.910	131.311
Be 313.042	98.5131	98.4275	98.6104
Ca 370.602	28344	28303	28339
Cd 226.502	96.5234	96.8494	96.7497
Co 228.615	98.2808	96.2922	96.8111
Cr 267.716	100.296	100.219	100.370
Cu 324.754	102.629	103.892	103.623
Fe 271.441	9785.88	9774.97	9801.07
K 766.491	11224.6	11248.4	11226.5
Mg 279.078	13636.3	13621.8	13640.4
Mn 257.610	1415.90	1414.67	1416.02
Mo 202.032	95.7211	95.2872	95.8967
Na 330.237	16632.2	16548.8	16477.4
Ni 231.604	99.3000	99.9651	100.371
Pb 220.353	97.1763	96.7670	97.0099
Sb 206.834	96.0545	98.2442	98.7765
Se 196.026	107.953	98.4946	97.7536
Sn 189.925	94.1327	98.9042	93.2258
Sr 216.596	160.268	160.092	161.187
Ti 334.941	98.1435	98.1132	98.2257
Tl 190.794	15.2289	17.5348	21.9654
V 292.401	101.545	101.438	100.958
Zn 206.200	99.7380	98.6298	99.9412

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	89.3916	ppb	0.4556	0.5	8018.93
Al 308.215	982.102	ppb	2.0756	0.2	7611.65
As 188.980	99.4937	ppb	3.1576	3.2	66.8442
B 249.678	284.079	ppb	1.5976	0.6	5161.69
Ba 389.178	131.143	ppb	0.2081	0.2	2977.23
Be 313.042	98.5170	ppb	0.0915	0.1	189804
Ca 370.602	28329	ppb	22.63	0.1	95262
Cd 226.502	96.7075	ppb	0.1670	0.2	4415.97
Co 228.615	97.1280	ppb	1.0315	1.1	1084.21
Cr 267.716	100.295	ppb	0.0755	0.1	5452.74
Cu 324.754	103.381	ppb	0.6651	0.6	8602.21
Fe 271.441	9787.31	ppb	13.1046	0.1	15478.9
K 766.491	11233.2	ppb	13.2116	0.1	530628
Mg 279.078	13632.8	ppb	9.7948	0.1	39586.1
Mn 257.610	1415.53	ppb	0.7439	0.1	320208
Mo 202.032	95.6350	ppb	0.3137	0.3	618.651
Na 330.237	16552.8	ppb	77.5073	0.5	871.044
Ni 231.604	99.8786	ppb	0.5405	0.5	309.337
Pb 220.353	96.9844	ppb	0.2059	0.2	163.857
Sb 206.834	97.6918	ppb	1.4427	1.5	142.796
Se 196.026	101.400	ppb	5.6869	5.6	43.8793
Sn 189.925	95.4209	ppb	3.0505	3.2	64.0839
Sr 216.596	160.516	ppb	0.5879	0.4	1937.27
Ti 334.941	98.1608	ppb	0.0582	0.1	28859.9
Tl 190.794	18.2431	ppb	3.4236	18.8	10.4427
V 292.401	101.314	ppb	0.3129	0.3	2825.50
Zn 206.200	99.4363	ppb	0.7058	0.7	105.925

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110776-b-2-b ms (Samp) **3/20/2015, 11:17:02 PM** **Rack 3, Tube 42****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.8628	52.8312	53.3055
Al 308.215	5118.27	5120.16	5114.50
As 188.980	102.831	101.556	100.957
B 249.678	290.146	292.893	292.919
Ba 389.178	140.730	140.504	140.931
Be 313.042	51.9479	52.0104	51.9318
Ca 370.602	22614	22632	22710
Cd 226.502	51.1349	51.1114	51.1513
Co 228.615	51.2224	51.1616	51.8453
Cr 267.716	104.803	104.574	104.891
Cu 324.754	107.428	107.257	107.211
Fe 271.441	5062.58	5075.61	5063.43
K 766.491	5991.58	6000.22	5978.71
Mg 279.078	8844.14	8848.54	8853.93
Mn 257.610	907.200	909.209	909.113
Mo 202.032	99.8790	99.7268	100.297
Na 330.237	12194.9	12347.1	12059.8
Ni 231.604	104.649	102.755	105.637
Pb 220.353	504.397	504.275	507.199
Sb 206.834	53.5357	53.8790	55.4208
Se 196.026	101.043	102.788	110.057
Sn 189.925	197.272	203.234	203.752
Sr 216.596	161.743	162.511	161.567
Ti 334.941	102.241	102.060	101.948
Tl 190.794	39.3242	38.8256	39.5334
V 292.401	103.354	103.744	103.876
Zn 206.200	102.564	103.093	103.424

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.9998	ppb	0.2652	0.5	4745.65
Al 308.215	5117.64	ppb	2.8797	0.1	37583.1
As 188.980	101.781	ppb	0.9567	0.9	68.5686
B 249.678	291.986	ppb	1.5936	0.5	5314.74
Ba 389.178	140.722	ppb	0.2136	0.2	3181.38
Be 313.042	51.9634	ppb	0.0415	0.1	99903.3
Ca 370.602	22652	ppb	50.81	0.2	76217
Cd 226.502	51.1325	ppb	0.0201	0.0	2346.26
Co 228.615	51.4098	ppb	0.3784	0.7	569.852
Cr 267.716	104.756	ppb	0.1640	0.2	5689.10
Cu 324.754	107.299	ppb	0.1140	0.1	8908.67
Fe 271.441	5067.21	ppb	7.2885	0.1	8015.50
K 766.491	5990.17	ppb	10.8237	0.2	283099
Mg 279.078	8848.87	ppb	4.9038	0.1	25701.5
Mn 257.610	908.507	ppb	1.1331	0.1	205534
Mo 202.032	99.9676	ppb	0.2953	0.3	646.680
Na 330.237	12200.6	ppb	143.773	1.2	650.097
Ni 231.604	104.347	ppb	1.4643	1.4	323.036
Pb 220.353	505.290	ppb	1.6542	0.3	806.955
Sb 206.834	54.2785	ppb	1.0041	1.8	80.3279
Se 196.026	104.630	ppb	4.7810	4.6	45.1572
Sn 189.925	201.419	ppb	3.6015	1.8	142.235
Sr 216.596	161.940	ppb	0.5017	0.3	1945.94

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	102.083	ppb	0.1477	0.1	30003.7
Tl 190.794	39.2277	ppb	0.3636	0.9	33.8999
V 292.401	103.658	ppb	0.2717	0.3	2892.58
Zn 206.200	103.027	ppb	0.4334	0.4	109.555

680-110776-b-2-c msd (Samp) **3/20/2015, 11:21:48 PM** **Rack 3, Tube 43**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	54.0473	53.4884	54.5777
Al 308.215	5186.45	5183.52	5317.53
As 188.980	105.690	105.729	101.315
B 249.678	296.166	296.412	305.350
Ba 389.178	142.184	142.807	145.135
Be 313.042	52.5749	52.6176	53.9663
Ca 370.602	22708	22758	23303
Cd 226.502	51.6524	51.8391	52.9972
Co 228.615	52.7494	52.1266	53.2258
Cr 267.716	106.327	106.242	108.692
Cu 324.754	110.253	109.896	112.424
Fe 271.441	5135.13	5141.06	5259.06
K 766.491	6066.55	6070.36	6244.47
Mg 279.078	8903.97	8905.27	9127.34
Mn 257.610	912.232	913.335	934.663
Mo 202.032	101.770	101.037	103.564
Na 330.237	12623.3	12376.6	12620.8
Ni 231.604	106.174	106.550	108.471
Pb 220.353	510.555	509.894	526.573
Sb 206.834	53.8674	52.3987	55.5307
Se 196.026	102.827	94.6124	106.012
Sn 189.925	203.550	202.897	210.302
Sr 216.596	162.416	162.055	166.876
Ti 334.941	103.262	103.319	105.966
Tl 190.794	39.2904	36.8808	40.3057
V 292.401	104.380	104.711	106.981
Zn 206.200	107.309	109.777	109.099

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.0378	ppb	0.5447	1.0	4838.94
Al 308.215	5229.17	ppb	76.5369	1.5	38391.6
As 188.980	104.245	ppb	2.5376	2.4	70.3884
B 249.678	299.310	ppb	5.2330	1.7	5445.99
Ba 389.178	143.376	ppb	1.5551	1.1	3242.11
Be 313.042	53.0529	ppb	0.7913	1.5	102007
Ca 370.602	22923	ppb	330.0	1.4	77128
Cd 226.502	52.1629	ppb	0.7285	1.4	2393.03
Co 228.615	52.7006	ppb	0.5512	1.0	584.360
Cr 267.716	107.087	ppb	1.3906	1.3	5814.92
Cu 324.754	110.858	ppb	1.3684	1.2	9189.06
Fe 271.441	5178.42	ppb	69.9056	1.3	8191.40
K 766.491	6127.13	ppb	101.640	1.7	289565
Mg 279.078	8978.86	ppb	128.587	1.4	26078.7
Mn 257.610	920.077	ppb	12.6439	1.4	208151
Mo 202.032	102.123	ppb	1.3001	1.3	660.516

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	12540.2	ppb	141.721	1.1	667.326
Ni 231.604	107.065	ppb	1.2320	1.2	331.551
Pb 220.353	515.674	ppb	9.4445	1.8	823.326
Sb 206.834	53.9323	ppb	1.5670	2.9	79.8280
Se 196.026	101.150	ppb	5.8816	5.8	43.6184
Sn 189.925	205.583	ppb	4.0997	2.0	145.305
Sr 216.596	163.782	ppb	2.6852	1.6	1968.03
Ti 334.941	104.182	ppb	1.5454	1.5	30620.7
Tl 190.794	38.8257	ppb	1.7591	4.5	33.4462
V 292.401	105.357	ppb	1.4153	1.3	2940.15
Zn 206.200	108.728	ppb	1.2755	1.2	115.589

680-110776-b-1-a (Samp) 3/20/2015, 11:26:34 PM Rack 3, Tube 44
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1127	0.1938	-0.1021u
Al 308.215	-0.2598u	2.5460	1.2705
As 188.980	-1.0730u	0.7607	-0.5443u
B 249.678	81.1804	81.1428	81.2680
Ba 389.178	55.3615	55.0518	55.6892
Be 313.042	0.0012	-0.0012	0.0038
Ca 370.602	36609	36711	36780
Cd 226.502	0.0827	-0.0401u	-0.0461u
Co 228.615	1.6071	1.1701	1.3743
Cr 267.716	0.2243	0.2379	0.3486
Cu 324.754	1.2798	1.1220	1.3829
Fe 271.441	11.7467	17.0332	17.7857
K 766.491	326.068	325.551	323.933
Mg 279.078	7862.88	7854.67	7868.11
Mn 257.610	537.167	536.858	537.451
Mo 202.032	0.3414	-0.0069u	0.2633
Na 330.237	11675.0	11692.4	11625.2
Ni 231.604	1.2106	2.7214	1.1911
Pb 220.353	-3.6466u	1.8848	1.0984
Sb 206.834	-0.4793u	-0.8670u	-0.4404u
Se 196.026	0.0197	-1.7807u	-0.4950u
Sn 189.925	0.6797	-2.1159u	-1.3515u
Sr 216.596	121.008	119.760	120.514
Ti 334.941	0.0552	0.0552	0.0165
Tl 190.794	-1.8729u	-3.7486u	-4.4321u
V 292.401	-0.1099u	-0.1053u	-0.1484u
Zn 206.200	5.7714	4.8874	5.4155

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0681	ppb	0.1529	224.4	-12.6070
Al 308.215	1.1856	ppb	1.4048	118.5	485.389
As 188.980	-0.2856	ppb	0.9438	330.5	-6.8259
B 249.678	81.1971	ppb	0.0642	0.1	1541.55
Ba 389.178	55.3675	ppb	0.3188	0.6	1232.51
Be 313.042	0.0013	ppb	0.0025	194.0	-425.675
Ca 370.602	36700	ppb	85.60	0.2	123458
Cd 226.502	-0.0011	ppb	0.0727	6324.7	25.6361
Co 228.615	1.3838	ppb	0.2187	15.8	7.6156

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2703	ppb	0.0682	25.2	50.2351
Cu 324.754	1.2615	ppb	0.1314	10.4	552.624
Fe 271.441	15.5218	ppb	3.2910	21.2	26.5920
K 766.491	325.184	ppb	1.1138	0.3	15647.2
Mg 279.078	7861.89	ppb	6.7739	0.1	22845.2
Mn 257.610	537.159	ppb	0.2969	0.1	121561
Mo 202.032	0.1993	ppb	0.1828	91.7	6.3490
Na 330.237	11664.2	ppb	34.8782	0.3	625.174
Ni 231.604	1.7077	ppb	0.8779	51.4	1.3605
Pb 220.353	-0.2211	ppb	2.9925	1353.3	9.9681
Sb 206.834	-0.5956	ppb	0.2359	39.6	1.7509
Se 196.026	-0.7520	ppb	0.9273	123.3	-1.6775
Sn 189.925	-0.9292	ppb	1.4448	155.5	-6.9567
Sr 216.596	120.427	ppb	0.6286	0.5	1452.76
Ti 334.941	0.0423	ppb	0.0224	52.9	20.9663
Tl 190.794	-3.3512	ppb	1.3251	39.5	-12.3552
V 292.401	-0.1212	ppb	0.0237	19.5	-17.8870
Zn 206.200	5.3581	ppb	0.4447	8.3	6.1932

680-110776-b-4-a (Samp)

3/20/2015, 11:31:20 PM

Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0271u	-0.0933u	0.0720
Al 308.215	15.1287	11.3140	11.5214
As 188.980	-0.1843u	-3.5493u	4.0184
B 249.678	153.055	149.460	149.188
Ba 389.178	62.7632	61.9457	62.7390
Be 313.042	-0.0095u	0.0006	-0.0055
Ca 370.602	50215	49050	49066
Cd 226.502	-0.0317u	-0.0522u	0.2082
Co 228.615	0.3570	0.9002	0.7139
Cr 267.716	2.7785	2.8135	2.8500
Cu 324.754	3.8684	3.9598	3.7330
Fe 271.441	27.7516	23.9756	27.9997
K 766.491	4077.98	3997.40	3990.41
Mg 279.078	7801.19	7624.09	7616.97
Mn 257.610	66.5550	64.9898	64.7825
Mo 202.032	0.8995	-0.0495u	0.1041
Na 330.237	7310.65	6949.19	6735.56
Ni 231.604	2.5698	2.4112	2.3179
Pb 220.353	-0.5993u	0.2000	-1.2706u
Sb 206.834	-0.6019u	-0.5910u	4.1419
Se 196.026	-7.3503u	2.0997	7.8187
Sn 189.925	-1.9136u	3.4734	1.2037
Sr 216.596	151.887	148.656	148.303
Ti 334.941	0.5180	0.5388	0.4858
Tl 190.794	-1.9479u	-2.1760u	0.3030
V 292.401	0.2212	0.3544	0.2141
Zn 206.200	4.4852	4.1694	5.3905

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0161	ppb	0.0832	515.8	-23.8435
Al 308.215	12.6547	ppb	2.1451	17.0	568.563

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.0949	ppb	3.7916	3993.8	-6.5447
B 249.678	150.568	ppb	2.1585	1.4	2787.17
Ba 389.178	62.4826	ppb	0.4652	0.7	1394.03
Be 313.042	-0.0048	ppb	0.0051	106.9	-432.344
Ca 370.602	49444	ppb	667.8	1.4	166303
Cd 226.502	0.0414	ppb	0.1448	349.3	27.6291
Co 228.615	0.6570	ppb	0.2760	42.0	-0.5390
Cr 267.716	2.8140	ppb	0.0358	1.3	185.074
Cu 324.754	3.8537	ppb	0.1141	3.0	756.774
Fe 271.441	26.5757	ppb	2.2551	8.5	43.9892
K 766.491	4021.93	ppb	48.6639	1.2	190176
Mg 279.078	7680.75	ppb	104.365	1.4	22329.5
Mn 257.610	65.4424	ppb	0.9691	1.5	14919.8
Mo 202.032	0.3180	ppb	0.5094	160.2	7.1108
Na 330.237	6998.47	ppb	290.694	4.2	387.092
Ni 231.604	2.4329	ppb	0.1273	5.2	3.6337
Pb 220.353	-0.5567	ppb	0.7362	132.3	9.3453
Sb 206.834	0.9830	ppb	2.7357	278.3	4.0494
Se 196.026	0.8560	ppb	7.6606	894.9	-1.0690
Sn 189.925	0.9212	ppb	2.7046	293.6	-5.5938
Sr 216.596	149.615	ppb	1.9754	1.3	1806.02
Ti 334.941	0.5142	ppb	0.0267	5.2	159.648
Tl 190.794	-1.2736	ppb	1.3702	107.6	-10.3117
V 292.401	0.2632	ppb	0.0791	30.0	-7.1015
Zn 206.200	4.6817	ppb	0.6338	13.5	5.4726

680-110776-b-5-a (Samp)

3/20/2015, 11:36:06 PM

Rack 3, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	0.2416	0.3282	-0.2077u
Al 308.215	2.1382	2.5702	3.1377
As 188.980	0.6435	-2.4467u	0.7248
B 249.678	77.7445	77.6389	77.3666
Ba 389.178	87.4758	87.6512	88.1565
Be 313.042	-0.0035	-0.0038	0.0005
Ca 370.602	49700	49750	49657
Cd 226.502	0.4299	0.3881	0.5001
Co 228.615	3.9216	3.5980	3.1824
Cr 267.716	-0.0527	0.1213	0.1103
Cu 324.754	10.4393	10.5390	10.5563
Fe 271.441	16.9690	9.5678	12.5251
K 766.491	676.942	675.217	678.093
Mg 279.078	9658.69	9655.30	9653.93
Mn 257.610	1966.36	1966.06	1965.02
Mo 202.032	0.4747	-0.0010u	0.1284
Na 330.237	11333.7	11319.9	11208.7
Ni 231.604	3.4537	4.7394	2.5613
Pb 220.353	0.9571	-1.7493u	0.5210
Sb 206.834	1.0951	-1.1581u	0.9979
Se 196.026	0.0775	-2.5212u	0.4210
Sn 189.925	-1.4874u	2.1490	1.1989
Sr 216.596	160.489	162.304	160.794
Ti 334.941	0.0094	0.0387	0.0036

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-2.2764u	-3.2255u	-4.0709u
V 292.401	0.6734	0.4654	0.5139
Zn 206.200	7.0525	7.4615	7.6192

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1207	ppb	0.2877	238.4	-1.5979
Al 308.215	2.6154	ppb	0.5013	19.2	495.824
As 188.980	-0.3595	ppb	1.8080	503.0	-6.8805
B 249.678	77.5833	ppb	0.1950	0.3	1476.67
Ba 389.178	87.7612	ppb	0.3534	0.4	1973.35
Be 313.042	-0.0023	ppb	0.0024	106.3	-428.250
Ca 370.602	49702	ppb	46.60	0.1	167229
Cd 226.502	0.4394	ppb	0.0566	12.9	45.4192
Co 228.615	3.5674	ppb	0.3705	10.4	32.1624
Cr 267.716	0.0596	ppb	0.0974	163.3	45.7743
Cu 324.754	10.5116	ppb	0.0631	0.6	1281.10
Fe 271.441	13.0206	ppb	3.7254	28.6	22.8970
K 766.491	676.751	ppb	1.4479	0.2	32245.1
Mg 279.078	9655.97	ppb	2.4511	0.0	28024.3
Mn 257.610	1965.81	ppb	0.7046	0.0	444548
Mo 202.032	0.2007	ppb	0.2460	122.6	6.3574
Na 330.237	11287.4	ppb	68.5703	0.6	605.927
Ni 231.604	3.5848	ppb	1.0949	30.5	7.2322
Pb 220.353	-0.0904	ppb	1.4531	1607.5	10.4657
Sb 206.834	0.3117	ppb	1.2737	408.7	3.0539
Se 196.026	-0.6742	ppb	1.6087	238.6	-1.3271
Sn 189.925	0.6202	ppb	1.8860	304.1	-5.8144
Sr 216.596	161.196	ppb	0.9721	0.6	1944.37
Ti 334.941	0.0172	ppb	0.0188	109.2	16.8106
Tl 190.794	-3.1910	ppb	0.8977	28.1	-11.4398
V 292.401	0.5509	ppb	0.1088	19.8	1.1827
Zn 206.200	7.3778	ppb	0.2925	4.0	8.3315

680-110800-f-1-a (Samp)

3/20/2015, 11:40:52 PM

Rack 3, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0129u	0.1879	0.0937
Al 308.215	117.288	114.077	114.988
As 188.980	2.0038	-2.7256u	3.3311
B 249.678	27.8213	27.1362	27.5361
Ba 389.178	13.3393	13.1649	13.4217
Be 313.042	0.0289	0.0303	0.0321
Ca 370.602	9451	9456	9435
Cd 226.502	-0.0871	-0.0869	-0.1193
Co 228.615	-0.0370u	-0.1337u	1.0074
Cr 267.716	0.1687	0.2574	0.2202
Cu 324.754	-0.2356u	-0.2054u	-0.5926u
Fe 271.441	1062.16	1054.18	1058.30
K 766.491	676.954	675.960	676.783
Mg 279.078	1853.28	1861.59	1860.91
Mn 257.610	10.8556	10.8890	10.8927
Mo 202.032	-0.1102u	0.4264	-0.0644u
Na 330.237	9811.20	9986.41	9708.21

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	0.2060	1.4456	0.8697
Pb 220.353	-1.2677u	-1.1312u	-1.8483u
Sb 206.834	-0.7250u	1.4046	-0.4436u
Se 196.026	4.1128	0.3315	1.0088
Sn 189.925	1.8306	0.9614	-0.4197u
Sr 216.596	30.6350	30.7370	31.3039
Ti 334.941	0.0135	0.0226	0.0151
Tl 190.794	-0.5518u	-3.3592u	-0.4542u
V 292.401	2.1988	1.8778	1.8684
Zn 206.200	0.7686	1.9212	0.6969

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0896	ppb	0.1005	112.2	-10.3409
Al 308.215	115.451	ppb	1.6546	1.4	1313.90
As 188.980	0.8698	ppb	3.1837	366.0	-5.9792
B 249.678	27.4979	ppb	0.3442	1.3	574.721
Ba 389.178	13.3087	ppb	0.1311	1.0	263.664
Be 313.042	0.0304	ppb	0.0016	5.2	-378.461
Ca 370.602	9447	ppb	10.87	0.1	31775
Cd 226.502	-0.0978	ppb	0.0187	19.1	27.1751
Co 228.615	0.2789	ppb	0.6327	226.9	-4.7323
Cr 267.716	0.2154	ppb	0.0446	20.7	45.1700
Cu 324.754	-0.3445	ppb	0.2154	62.5	426.582
Fe 271.441	1058.21	ppb	3.9879	0.4	1674.06
K 766.491	676.566	ppb	0.5315	0.1	32236.4
Mg 279.078	1858.60	ppb	4.6146	0.2	5421.31
Mn 257.610	10.8791	ppb	0.0205	0.2	2540.98
Mo 202.032	0.0839	ppb	0.2975	354.4	5.5601
Na 330.237	9835.27	ppb	140.656	1.4	531.631
Ni 231.604	0.8404	ppb	0.6203	73.8	-1.2621
Pb 220.353	-1.4158	ppb	0.3808	26.9	8.0464
Sb 206.834	0.0787	ppb	1.1569	1470.8	2.7422
Se 196.026	1.8177	ppb	2.0163	110.9	-0.6458
Sn 189.925	0.7908	ppb	1.1348	143.5	-5.6891
Sr 216.596	30.8920	ppb	0.3603	1.2	374.854
Ti 334.941	0.0170	ppb	0.0049	28.6	3.1282
Tl 190.794	-1.4551	ppb	1.6497	113.4	-10.6994
V 292.401	1.9816	ppb	0.1881	9.5	41.2182
Zn 206.200	1.1289	ppb	0.6871	60.9	1.7523

680-110800-f-2-a (Samp)

3/20/2015, 11:45:39 PM

Rack 3, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0511	-0.0984u	-0.0918u
Al 308.215	114.851	116.579	116.543
As 188.980	2.3945	-2.4235u	-0.8116u
B 249.678	27.5609	27.3274	27.8181
Ba 389.178	13.0919	13.2301	12.8915
Be 313.042	0.0741	0.0678	0.0720
Ca 370.602	46848	46922	46906
Cd 226.502	-0.1171u	0.0563	-0.0548u
Co 228.615	0.0335	0.1031	0.2085
Cr 267.716	0.7702	0.7240	0.8588

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	-0.2546u	0.0970	-0.2709u
Fe 271.441	230.836	229.026	228.330
K 766.491	450.461	451.060	449.927
Mg 279.078	2554.24	2553.11	2552.03
Mn 257.610	0.6889	0.7373	0.6839
Mo 202.032	0.4185	0.4711	-0.4672u
Na 330.237	7431.57	7613.20	7452.17
Ni 231.604	0.9719	0.3029	-0.1071u
Pb 220.353	-0.2609u	0.8335	0.2595
Sb 206.834	0.0389	0.3768	0.3002
Se 196.026	4.5143	3.5774	-2.3168u
Sn 189.925	1.3608	-0.3032u	1.8644
Sr 216.596	48.5033	48.8433	48.6924
Ti 334.941	0.1447	0.1622	0.0820
Tl 190.794	-3.1844u	-3.8640u	-1.0057u
V 292.401	0.9302	1.0271	0.9668
Zn 206.200	2.7535	1.3812	2.1302

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0464	ppb	0.0845	182.1	-23.2276
Al 308.215	115.991	ppb	0.9874	0.9	1317.59
As 188.980	-0.2802	ppb	2.4526	875.3	-6.8235
B 249.678	27.5688	ppb	0.2454	0.9	578.069
Ba 389.178	13.0711	ppb	0.1702	1.3	259.074
Be 313.042	0.0713	ppb	0.0032	4.5	-285.880
Ca 370.602	46892	ppb	39.01	0.1	157716
Cd 226.502	-0.0385	ppb	0.0878	228.0	25.1215
Co 228.615	0.1151	ppb	0.0881	76.6	-6.6284
Cr 267.716	0.7843	ppb	0.0685	8.7	75.3790
Cu 324.754	-0.1428	ppb	0.2079	145.6	442.100
Fe 271.441	229.397	ppb	1.2939	0.6	364.416
K 766.491	450.483	ppb	0.5664	0.1	21562.7
Mg 279.078	2553.12	ppb	1.1074	0.0	7438.67
Mn 257.610	0.7034	ppb	0.0295	4.2	244.034
Mo 202.032	0.1408	ppb	0.5272	374.4	5.9631
Na 330.237	7498.98	ppb	99.4509	1.3	412.613
Ni 231.604	0.3893	ppb	0.5447	139.9	-2.7462
Pb 220.353	0.2774	ppb	0.5474	197.4	10.6577
Sb 206.834	0.2386	ppb	0.1772	74.2	2.9616
Se 196.026	1.9250	ppb	3.7033	192.4	-0.6078
Sn 189.925	0.9740	ppb	1.1344	116.5	-5.5547
Sr 216.596	48.6797	ppb	0.1704	0.3	599.970
Ti 334.941	0.1296	ppb	0.0422	32.5	37.5193
Tl 190.794	-2.6847	ppb	1.4932	55.6	-11.9305
V 292.401	0.9747	ppb	0.0490	5.0	13.0185
Zn 206.200	2.0883	ppb	0.6871	32.9	2.7382

Cont Calib Verif (CCV)

3/20/2015, 11:50:25 PM

Rack 3, Tube 49

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	493.328	509.823	495.883
Al 308.215	4887.07	5019.92	4884.94
As 188.980	491.966	502.305	490.675

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	488.176	502.912	492.708
Ba 389.178	4880.93	5013.81	4881.79
Be 313.042	491.805	504.096	491.546
Ca 370.602	4937	5061	4949
Cd 226.502	493.235	506.163	495.227
Co 228.615	497.116	511.296	499.403
Cr 267.716	5006.30	5129.28	5005.78
Cu 324.754	5203.26	5349.44	5137.99
Fe 271.441	4888.70	5040.77	4904.10
K 766.491	10728.0	11031.1	10688.7
Mg 279.078	4924.75	5058.31	4926.30
Mn 257.610	4996.81	5144.42	5012.50
Mo 202.032	487.114	503.625	488.615
Na 330.237	7589.63	7783.35	7564.83
Ni 231.604	2492.80	2561.39	2501.57
Pb 220.353	491.547	500.383	493.828
Sb 206.834	989.014	1018.67	989.193
Se 196.026	5002.98	5101.55	4999.72
Sn 189.925	4860.66	5049.10	4853.10
Sr 216.596	2416.14	2481.26	2423.14
Ti 334.941	488.590	501.644	487.313
Tl 190.794	5005.92	5136.57	5027.38
V 292.401	4922.95	5056.07	4924.75
Zn 206.200	2425.35	2498.06	2438.57

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.678	ppb	8.8781	1.8	44853.3	99.93554
Al 308.215	4930.64	ppb	77.3236	1.6	36932.5	98.61280
As 188.980	494.982	ppb	6.3747	1.3	359.156	98.99641
B 249.678	494.599	ppb	7.5478	1.5	8968.30	98.91971
Ba 389.178	4925.51	ppb	76.4719	1.6	112055	98.51025
Be 313.042	495.816	ppb	7.1723	1.4	957238	99.16316
Ca 370.602	4982	ppb	68.12	1.4	17168	99.64599
Cd 226.502	498.208	ppb	6.9609	1.4	22384.3	99.64169
Co 228.615	502.605	ppb	7.6130	1.5	5647.40	100.52097
Cr 267.716	5047.12	ppb	71.1530	1.4	272247	100.94238
Cu 324.754	5230.23	ppb	108.274	2.1	412307	104.60462
Fe 271.441	4944.52	ppb	83.7096	1.7	7915.04	98.89050
K 766.491	10815.9	ppb	187.399	1.7	510931	108.15949
Mg 279.078	4969.79	ppb	76.6659	1.5	14344.1	99.39571
Mn 257.610	5051.24	ppb	81.0711	1.6	1142042	101.02486
Mo 202.032	493.118	ppb	9.1304	1.9	3166.29	98.62356
Na 330.237	7645.93	ppb	119.649	1.6	389.397	101.94579
Ni 231.604	2518.58	ppb	37.3260	1.5	7880.82	100.74335
Pb 220.353	495.253	ppb	4.5867	0.9	795.082	99.05052
Sb 206.834	998.961	ppb	17.0728	1.7	1495.42	99.89606
Se 196.026	5034.75	ppb	57.8741	1.1	2231.25	100.69508
Sn 189.925	4920.95	ppb	111.042	2.3	3621.95	98.41908
Sr 216.596	2440.18	ppb	35.7476	1.5	29076.2	97.60731
Ti 334.941	492.515	ppb	7.9312	1.6	144709	98.50307
Tl 190.794	5056.62	ppb	70.0614	1.4	5570.02	101.13242
V 292.401	4967.92	ppb	76.3461	1.5	140267	99.35846
Zn 206.200	2453.99	ppb	38.7272	1.6	2588.57	98.15976

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Cont Calib Blank (CCB) 3/20/2015, 11:55:11 PM Rack 3, Tube 50

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0021u	0.2209	-0.0990u
Al 308.215	-2.1693u	-4.6661u	-4.1354u
As 188.980	-2.3350u	-2.2076u	-2.4207u
B 249.678	4.9380	3.9293	2.6739
Ba 389.178	-0.0672u	-0.0177u	0.0384
Be 313.042	0.0087	0.0184	0.0149
Ca 370.602	2.800	0.5970	1.903
Cd 226.502	0.0326	0.1171	-0.0662u
Co 228.615	0.2804	0.0145	0.6219
Cr 267.716	0.0167	0.1758	0.1052
Cu 324.754	-0.0577u	-0.2193u	0.0416
Fe 271.441	5.9661	-0.1060u	1.7157
K 766.491	-0.0070u	-0.1877u	-0.2366u
Mg 279.078	1.1721	-1.7310u	-0.8520u
Mn 257.610	0.1337	0.1406	0.1791
Mo 202.032	0.5771	-0.0399u	0.2202
Na 330.237	188.461	41.8437	65.8795
Ni 231.604	0.4152	-0.2198u	1.0194
Pb 220.353	0.7084	0.6922	-0.5959u
Sb 206.834	1.1963	1.8466	3.7310
Se 196.026	-0.2532u	3.1908	-7.4312u
Sn 189.925	3.3355	0.5242	2.2892
Sr 216.596	0.0125	0.1734	0.2752
Ti 334.941	0.1089	0.0665	0.0142
Tl 190.794	-0.0075u	0.6237	0.3610
V 292.401	0.0897	0.1646	0.1343
Zn 206.200	0.3266	0.1096	-0.2492u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0399	ppb	0.1640	410.6	-13.5045	0.03994
Al 308.215	-3.6569	ppb	1.3154	36.0	450.319	-3.65695
As 188.980	-2.3211	ppb	0.1072	4.6	-8.3308	-2.32110
B 249.678	3.8471	ppb	1.1343	29.5	152.706	3.84708
Ba 389.178	-0.0155	ppb	0.0529	341.2	-44.2711	-0.01550
Be 313.042	0.0140	ppb	0.0049	34.9	-412.506	0.01401
Ca 370.602	1.767	ppb	1.108	62.7	21.55	1.76682
Cd 226.502	0.0278	ppb	0.0917	329.8	26.8384	0.02782
Co 228.615	0.3056	ppb	0.3045	99.6	-4.5095	0.30562
Cr 267.716	0.0992	ppb	0.0797	80.3	38.1805	0.09922
Cu 324.754	-0.0784	ppb	0.1317	167.9	447.089	-0.07843
Fe 271.441	2.5253	ppb	3.1160	123.4	5.9350	2.52527
K 766.491	-0.1438	ppb	0.1209	84.1	287.984	-0.14377
Mg 279.078	-0.4703	ppb	1.4887	316.5	22.2818	-0.47030
Mn 257.610	0.1511	ppb	0.0245	16.2	97.4855	0.15112
Mo 202.032	0.2525	ppb	0.3098	122.7	6.6908	0.25246
Na 330.237	98.7281	ppb	78.6350	79.6	35.0640	98.72815
Ni 231.604	0.4049	ppb	0.6197	153.0	-2.7166	0.40492
Pb 220.353	0.2682	ppb	0.7484	279.0	10.6292	0.26821
Sb 206.834	2.2580	ppb	1.3165	58.3	5.8452	2.25796
Se 196.026	-1.4979	ppb	5.4193	361.8	-2.1269	-1.49787
Sn 189.925	2.0496	ppb	1.4209	69.3	-4.7638	2.04962
Sr 216.596	0.1537	ppb	0.1324	86.2	2.9339	0.15372

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0632	ppb	0.0475	75.1	14.0012	0.06320
Tl 190.794	0.3257	ppb	0.3171	97.3	-8.5821	0.32572
V 292.401	0.1295	ppb	0.0377	29.1	-10.7899	0.12953
Zn 206.200	0.0623	ppb	0.2908	466.6	0.5872	0.06232

680-110800-f-3-a (Samp) **3/20/2015, 11:59:57 PM** **Rack 3, Tube 51**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0050u	0.0936	0.0576
Al 308.215	88.4180	88.7610	92.2911
As 188.980	-1.4053u	0.2724	1.2054
B 249.678	25.8730	25.5964	26.3652
Ba 389.178	14.0010	14.8172	14.6958
Be 313.042	0.0341	0.0255	0.0261
Ca 370.602	10531	10573	10783
Cd 226.502	0.0944	0.1270	-0.1484u
Co 228.615	-0.4224u	0.0356	0.0199
Cr 267.716	0.8956	0.7379	0.8366
Cu 324.754	-0.3525u	-0.1743u	-0.1078u
Fe 271.441	843.647	847.346	867.574
K 766.491	585.427	585.760	597.679
Mg 279.078	2355.78	2357.12	2406.43
Mn 257.610	31.7204	31.7831	32.3965
Mo 202.032	-0.0512u	0.4866	-0.0895u
Na 330.237	10218.0	10404.4	10760.4
Ni 231.604	0.7431	0.3100	2.1529
Pb 220.353	-1.3800u	-0.0511u	-2.2407u
Sb 206.834	-0.4502u	-0.9946u	1.2454
Se 196.026	-11.7399u	7.2999	-5.6799u
Sn 189.925	-0.0276u	1.0222	2.8961
Sr 216.596	21.5566	21.5910	22.3385
Ti 334.941	0.4961	0.4836	0.4802
Tl 190.794	-1.4379u	-1.6013u	1.8317
V 292.401	6.9725	6.6828	6.8439
Zn 206.200	3.1434	1.6916	3.4850

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0487	ppb	0.0499	102.4	-13.5339
Al 308.215	89.8234	ppb	2.1440	2.4	1128.85
As 188.980	0.0241	ppb	1.3229	5481.2	-6.6030
B 249.678	25.9449	ppb	0.3894	1.5	547.356
Ba 389.178	14.5046	ppb	0.4404	3.0	291.813
Be 313.042	0.0286	ppb	0.0048	16.9	-381.490
Ca 370.602	10629	ppb	135.3	1.3	35753
Cd 226.502	0.0243	ppb	0.1505	618.4	31.4611
Co 228.615	-0.1223	ppb	0.2601	212.6	-9.2489
Cr 267.716	0.8233	ppb	0.0797	9.7	77.9232
Cu 324.754	-0.2115	ppb	0.1265	59.8	436.886
Fe 271.441	852.856	ppb	12.8797	1.5	1349.56
K 766.491	589.622	ppb	6.9794	1.2	28131.7
Mg 279.078	2373.11	ppb	28.8621	1.2	6915.16
Mn 257.610	31.9667	ppb	0.3736	1.2	7311.67
Mo 202.032	0.1153	ppb	0.3221	279.4	5.7658

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	10460.9	ppb	275.589	2.6	563.596
Ni 231.604	1.0687	ppb	0.9637	90.2	-0.5646
Pb 220.353	-1.2239	ppb	1.1032	90.1	8.3397
Sb 206.834	-0.0664	ppb	1.1683	1758.6	2.5359
Se 196.026	-3.3733	ppb	9.7272	288.4	-2.9437
Sn 189.925	1.2969	ppb	1.4811	114.2	-5.3157
Sr 216.596	21.8287	ppb	0.4418	2.0	266.777
Ti 334.941	0.4867	ppb	0.0084	1.7	141.954
Tl 190.794	-0.4025	ppb	1.9366	481.1	-9.4899
V 292.401	6.8330	ppb	0.1451	2.1	178.573
Zn 206.200	2.7733	ppb	0.9523	34.3	3.4847

680-110800-f-4-a (Samp) 3/21/2015, 12:04:43 AM Rack 3, Tube 52

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0245u	-0.1119u	-0.1207u
Al 308.215	900.645	900.162	897.405
As 188.980	-2.0353u	1.4871	0.9609
B 249.678	20.5920	20.3927	19.9024
Ba 389.178	147.709	148.553	148.079
Be 313.042	0.4432	0.4388	0.4460
Ca 370.602	41848	41852	41876
Cd 226.502	-0.3902	-0.2683	-0.2964
Co 228.615	0.5328	0.3040	0.6194
Cr 267.716	5.6681	5.6806	5.6880
Cu 324.754	0.2275	0.3434	-0.1727u
Fe 271.441	4802.60	4806.66	4803.68
K 766.491	3743.68	3761.83	3740.31
Mg 279.078	4417.45	4419.16	4405.46
Mn 257.610	72.6615	72.6483	72.4222
Mo 202.032	-0.2071u	0.3608	-0.0813u
Na 330.237	13466.6	13182.4	13223.8
Ni 231.604	4.6590	4.6103	3.9596
Pb 220.353	-0.0913	-0.6990u	0.0977
Sb 206.834	-0.6451u	-1.4570u	-1.1273u
Se 196.026	7.6050	-0.9528u	6.4931
Sn 189.925	0.9952	-0.0085u	3.6130
Sr 216.596	152.445	152.412	152.351
Ti 334.941	3.3838	3.7314	3.4603
Tl 190.794	1.9872	-2.6032u	-4.9878u
V 292.401	2.9698	3.3962	2.9403
Zn 206.200	5.7331	3.7001	3.6479

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0857	ppb	0.0532	62.0	-30.9417
Al 308.215	899.404	ppb	1.7481	0.2	6995.98
As 188.980	0.1376	ppb	1.9000	1381.3	-6.5479
B 249.678	20.2957	ppb	0.3549	1.7	436.067
Ba 389.178	148.113	ppb	0.4230	0.3	3339.26
Be 313.042	0.4427	ppb	0.0036	0.8	428.595
Ca 370.602	41859	ppb	15.45	0.0	140736
Cd 226.502	-0.3183	ppb	0.0638	20.0	38.6086
Co 228.615	0.4854	ppb	0.1630	33.6	-2.0760

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	5.6789	ppb	0.0101	0.2	342.027
Cu 324.754	0.1327	ppb	0.2708	204.0	465.893
Fe 271.441	4804.31	ppb	2.1041	0.0	7593.34
K 766.491	3748.61	ppb	11.5788	0.3	177272
Mg 279.078	4414.02	ppb	7.4648	0.2	12841.4
Mn 257.610	72.5773	ppb	0.1345	0.2	16521.4
Mo 202.032	0.0241	ppb	0.2982	1237.0	5.0091
Na 330.237	13290.9	ppb	153.553	1.2	706.992
Ni 231.604	4.4097	ppb	0.3905	8.9	10.2358
Pb 220.353	-0.2309	ppb	0.4163	180.3	10.1681
Sb 206.834	-1.0765	ppb	0.4083	37.9	1.2235
Se 196.026	4.3818	ppb	4.6532	106.2	0.5370
Sn 189.925	1.5332	ppb	1.8698	121.9	-5.1407
Sr 216.596	152.403	ppb	0.0479	0.0	1842.68
Ti 334.941	3.5252	ppb	0.1827	5.2	1038.63
Tl 190.794	-1.8679	ppb	3.5451	189.8	-11.7085
V 292.401	3.1021	ppb	0.2551	8.2	71.2419
Zn 206.200	4.3604	ppb	1.1892	27.3	5.2910

680-110800-f-5-a (Samp)

3/21/2015, 12:09:30 AM

Rack 3, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0887	-0.1449u	-0.1982u
Al 308.215	99.7707	107.091	99.5018
As 188.980	4.3667	-0.5541u	5.3637
B 249.678	5.8299	6.0680	5.6676
Ba 389.178	4.5274	5.3117	4.1866
Be 313.042	0.0026	0.0019	0.0061
Ca 370.602	11296	11683	11354
Cd 226.502	-0.1122	-0.1457	-0.0629
Co 228.615	0.1579	0.4824	0.5564
Cr 267.716	0.5937	0.8870	0.9350
Cu 324.754	-0.3294u	-0.0077	-0.0128
Fe 271.441	2306.97	2382.30	2308.32
K 766.491	688.354	710.240	689.262
Mg 279.078	4033.06	4165.74	4030.49
Mn 257.610	8.9871	9.3390	9.0712
Mo 202.032	0.0544	0.7287	-0.1419u
Na 330.237	1578.27	1641.26	1462.80
Ni 231.604	0.3740	1.8776	-0.3035u
Pb 220.353	-2.0792u	-0.5856u	-0.8460u
Sb 206.834	1.0728	-2.0801u	-0.5328u
Se 196.026	-2.4295u	-4.1702u	5.4552
Sn 189.925	-3.5641u	1.6938	-2.5008u
Sr 216.596	20.4963	20.9698	19.9655
Ti 334.941	3.5100	3.4984	3.3498
Tl 190.794	2.1545	1.4806	2.1264
V 292.401	0.7717	1.2591	1.1951
Zn 206.200	4.3824	1.2177	2.8317

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0848	ppb	0.1526	180.0	-25.9279
Al 308.215	102.121	ppb	4.3064	4.2	1217.32

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.0588	ppb	3.1683	103.6	-4.3702
B 249.678	5.8552	ppb	0.2014	3.4	182.901
Ba 389.178	4.6752	ppb	0.5769	12.3	72.9190
Be 313.042	0.0036	ppb	0.0023	63.6	-428.918
Ca 370.602	11444	ppb	208.6	1.8	38478
Cd 226.502	-0.1069	ppb	0.0416	38.9	34.1319
Co 228.615	0.3989	ppb	0.2120	53.1	-3.2289
Cr 267.716	0.8052	ppb	0.1848	22.9	77.4472
Cu 324.754	-0.1166	ppb	0.1843	158.0	445.148
Fe 271.441	2332.53	ppb	43.1067	1.8	3687.62
K 766.491	695.952	ppb	12.3818	1.8	33151.7
Mg 279.078	4076.43	ppb	77.3528	1.9	11862.6
Mn 257.610	9.1324	ppb	0.1838	2.0	2167.90
Mo 202.032	0.2137	ppb	0.4567	213.7	6.3378
Na 330.237	1560.78	ppb	90.5086	5.8	109.053
Ni 231.604	0.6494	ppb	1.1163	171.9	-1.7500
Pb 220.353	-1.1703	ppb	0.7979	68.2	8.5170
Sb 206.834	-0.5134	ppb	1.5766	307.1	1.9191
Se 196.026	-0.3815	ppb	5.1291	1344.5	-1.6097
Sn 189.925	-1.4570	ppb	2.7801	190.8	-7.3489
Sr 216.596	20.4772	ppb	0.5024	2.5	252.884
Ti 334.941	3.4527	ppb	0.0893	2.6	1017.31
Tl 190.794	1.9205	ppb	0.3812	19.8	-7.1858
V 292.401	1.0753	ppb	0.2649	24.6	15.1158
Zn 206.200	2.8106	ppb	1.5824	56.3	3.5754

680-110800-f-6-a (Samp)

3/21/2015, 12:14:16 AM

Rack 3, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0312u	-0.0013u	0.0801
Al 308.215	729.228	726.882	729.017
As 188.980	1.9335	1.4263	-3.7105u
B 249.678	39.2037	39.7439	39.4147
Ba 389.178	14.8259	14.9147	14.1661
Be 313.042	0.0297	0.0280	0.0263
Ca 370.602	59049	58944	58719
Cd 226.502	-0.0250	0.0509	-0.1442
Co 228.615	-0.4801u	-0.1615u	-0.4345u
Cr 267.716	3.9187	3.7534	4.0340
Cu 324.754	-0.2394u	-0.2292u	-0.1823u
Fe 271.441	1569.41	1571.13	1559.95
K 766.491	1784.56	1786.92	1790.18
Mg 279.078	3088.75	3087.44	3081.44
Mn 257.610	119.522	119.664	119.365
Mo 202.032	0.5353	0.2560	0.4832
Na 330.237	5496.58	5477.17	5353.46
Ni 231.604	1.2401	0.0057	1.1675
Pb 220.353	-1.5691u	-0.5303u	0.5190
Sb 206.834	0.4367	-2.1869u	2.6352
Se 196.026	-0.2153u	-1.7451u	-0.3401u
Sn 189.925	1.1796	3.6002	0.0894
Sr 216.596	65.5673	65.7868	66.9718
Ti 334.941	0.5002	0.4593	0.4512

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	0.0140u	0.2943	-3.0902u
V 292.401	6.9519	6.7913	6.7300
Zn 206.200	3.6549	3.0111	5.3227

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0158	ppb	0.0576	363.6	-17.8859
Al 308.215	728.376	ppb	1.2981	0.2	5756.68
As 188.980	-0.1169	ppb	3.1225	2671.1	-6.7125
B 249.678	39.4541	ppb	0.2722	0.7	788.166
Ba 389.178	14.6356	ppb	0.4090	2.8	296.855
Be 313.042	0.0280	ppb	0.0017	6.1	-364.676
Ca 370.602	58904	ppb	168.8	0.3	198101
Cd 226.502	-0.0394	ppb	0.0984	249.4	32.6979
Co 228.615	-0.3587	ppb	0.1723	48.0	-11.8574
Cr 267.716	3.9020	ppb	0.1410	3.6	244.665
Cu 324.754	-0.2170	ppb	0.0305	14.1	436.801
Fe 271.441	1566.83	ppb	6.0206	0.4	2477.70
K 766.491	1787.22	ppb	2.8213	0.2	84672.0
Mg 279.078	3085.88	ppb	3.8973	0.1	8983.09
Mn 257.610	119.517	ppb	0.1500	0.1	27112.5
Mo 202.032	0.4248	ppb	0.1485	35.0	7.7216
Na 330.237	5442.40	ppb	77.6346	1.4	307.310
Ni 231.604	0.8044	ppb	0.6927	86.1	-1.3299
Pb 220.353	-0.5268	ppb	1.0440	198.2	9.4973
Sb 206.834	0.2950	ppb	2.4141	818.4	3.1033
Se 196.026	-0.7668	ppb	0.8495	110.8	-1.7629
Sn 189.925	1.6231	ppb	1.7969	110.7	-5.0767
Sr 216.596	66.1086	ppb	0.7555	1.1	814.326
Ti 334.941	0.4702	ppb	0.0263	5.6	138.894
Tl 190.794	-0.9273	ppb	1.8784	202.6	-10.1361
V 292.401	6.8244	ppb	0.1146	1.7	177.901
Zn 206.200	3.9962	ppb	1.1930	29.9	4.7977

680-110800-f-7-a (Samp)

3/21/2015, 12:19:02 AM

Rack 3, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3019u	0.0244u	0.0789
Al 308.215	1023.51	1028.30	1023.85
As 188.980	0.6405	4.8457	11.3863
B 249.678	83.3345	83.5999	83.7776
Ba 389.178	22.5641	22.3359	22.8771
Be 313.042	0.0920	0.0831	0.0898
Ca 370.602	60138	60107	60033
Cd 226.502	0.1348	-0.0753	0.0669
Co 228.615	-0.1680u	0.0689	0.4993
Cr 267.716	11.1754	11.2461	11.1977
Cu 324.754	-0.0494u	0.5042	0.1379
Fe 271.441	1878.50	1877.13	1872.70
K 766.491	1487.05	1490.10	1490.84
Mg 279.078	10416.2	10415.5	10405.1
Mn 257.610	48.5305	48.6010	48.4125
Mo 202.032	-0.0820u	-0.0203u	0.1713
Na 330.237	18691.1	18806.2	18670.0

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	4.7902	3.3222	4.8486
Pb 220.353	1.0697	-1.3276u	-2.3621u
Sb 206.834	-0.3391u	0.8551	-1.5255u
Se 196.026	-0.5788u	6.3547	2.7383
Sn 189.925	-0.0081u	1.4370	1.4297
Sr 216.596	157.811	157.281	157.352
Ti 334.941	3.1945	3.4672	3.3419
Tl 190.794	-2.8503u	-2.2626u	-2.4478u
V 292.401	25.1502	24.6849	25.3419
Zn 206.200	2.4935	2.2116	1.8721

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0662	ppb	0.2059	311.2	-29.0689
Al 308.215	1025.22	ppb	2.6731	0.3	7910.62
As 188.980	5.6242	ppb	5.4150	96.3	-2.4700
B 249.678	83.5707	ppb	0.2230	0.3	1579.54
Ba 389.178	22.5924	ppb	0.2717	1.2	493.681
Be 313.042	0.0883	ppb	0.0047	5.3	-248.467
Ca 370.602	60093	ppb	54.30	0.1	202095
Cd 226.502	0.0421	ppb	0.1073	254.5	38.1328
Co 228.615	0.1334	ppb	0.3383	253.7	-6.2177
Cr 267.716	11.2064	ppb	0.0361	0.3	638.535
Cu 324.754	0.1975	ppb	0.2816	142.5	469.286
Fe 271.441	1876.11	ppb	3.0319	0.2	2966.58
K 766.491	1489.33	ppb	2.0073	0.1	70608.1
Mg 279.078	10412.3	ppb	6.2247	0.1	30262.7
Mn 257.610	48.5147	ppb	0.0952	0.2	11120.7
Mo 202.032	0.0230	ppb	0.1320	574.2	5.1091
Na 330.237	18722.4	ppb	73.3232	0.4	984.924
Ni 231.604	4.3204	ppb	0.8649	20.0	9.7041
Pb 220.353	-0.8733	ppb	1.7604	201.6	8.9580
Sb 206.834	-0.3365	ppb	1.1903	353.7	2.3020
Se 196.026	2.8381	ppb	3.4678	122.2	-0.1781
Sn 189.925	0.9529	ppb	0.8322	87.3	-5.5669
Sr 216.596	157.481	ppb	0.2876	0.2	1906.20
Ti 334.941	3.3345	ppb	0.1365	4.1	992.523
Tl 190.794	-2.5202	ppb	0.3004	11.9	-11.9428
V 292.401	25.0590	ppb	0.3379	1.3	693.664
Zn 206.200	2.1924	ppb	0.3112	14.2	2.8845

680-110800-f-8-a (Samp)

3/21/2015, 12:23:48 AM

Rack 3, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1834	0.1424	-0.4293u
Al 308.215	119.261	120.354	120.519
As 188.980	10.8868	9.9694	7.6607
B 249.678	21.4423	22.1680	22.7238
Ba 389.178	26.3166	25.8462	25.7388
Be 313.042	0.0352	0.0303	0.0300
Ca 370.602	10832	10782	10798
Cd 226.502	0.0280	-0.1122	-0.1900
Co 228.615	0.3046	0.3501	0.0809
Cr 267.716	0.6908	0.8212	0.9075

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	-0.0187u	-0.0459u	-0.2603u
Fe 271.441	1548.47	1553.36	1552.30
K 766.491	1330.66	1332.24	1329.16
Mg 279.078	4121.15	4111.00	4131.31
Mn 257.610	25.3373	25.2606	25.2785
Mo 202.032	0.4775	0.2739	-0.0744u
Na 330.237	13241.0	13063.6	13225.9
Ni 231.604	1.2511	2.7824	1.6966
Pb 220.353	-0.0120	1.1787	-0.6461u
Sb 206.834	-1.6772u	0.9669	0.2511
Se 196.026	0.4411	1.1109	-2.5310u
Sn 189.925	1.3303	2.8390	1.2279
Sr 216.596	49.4311	49.5985	49.8045
Ti 334.941	0.3817	0.2997	0.3627
Tl 190.794	-1.7179u	-1.1860u	-0.2676u
V 292.401	0.8060	0.8336	0.9264
Zn 206.200	3.4227	2.4767	4.0455

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0345	ppb	0.3425	994.0	-22.2220
Al 308.215	120.044	ppb	0.6837	0.6	1347.09
As 188.980	9.5056	ppb	1.6623	17.5	0.4020
B 249.678	22.1114	ppb	0.6426	2.9	476.772
Ba 389.178	25.9672	ppb	0.3073	1.2	556.857
Be 313.042	0.0318	ppb	0.0029	9.2	-375.892
Ca 370.602	10804	ppb	25.25	0.2	36332
Cd 226.502	-0.0914	ppb	0.1105	120.9	30.2655
Co 228.615	0.2452	ppb	0.1441	58.8	-5.0765
Cr 267.716	0.8065	ppb	0.1091	13.5	77.4312
Cu 324.754	-0.1083	ppb	0.1323	122.2	445.443
Fe 271.441	1551.38	ppb	2.5697	0.2	2453.27
K 766.491	1330.69	ppb	1.5409	0.1	63118.5
Mg 279.078	4121.15	ppb	10.1506	0.2	11992.2
Mn 257.610	25.2921	ppb	0.0401	0.2	5818.92
Mo 202.032	0.2257	ppb	0.2791	123.7	6.4497
Na 330.237	13176.8	ppb	98.3509	0.7	701.999
Ni 231.604	1.9100	ppb	0.7876	41.2	2.1296
Pb 220.353	0.1735	ppb	0.9265	533.9	10.5871
Sb 206.834	-0.1531	ppb	1.3676	893.5	2.4225
Se 196.026	-0.3263	ppb	1.9384	594.0	-1.5886
Sn 189.925	1.7991	ppb	0.9021	50.1	-4.9447
Sr 216.596	49.6114	ppb	0.1870	0.4	599.516
Ti 334.941	0.3480	ppb	0.0429	12.3	104.208
Tl 190.794	-1.0572	ppb	0.7337	69.4	-10.3342
V 292.401	0.8553	ppb	0.0631	7.4	9.0782
Zn 206.200	3.3150	ppb	0.7899	23.8	4.0821

680-110800-f-9-a (Samp)

3/21/2015, 12:28:34 AM

Rack 3, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0075u	-0.2431u	-0.1679u
Al 308.215	74.0511	71.4220	71.9722
As 188.980	3.6574	6.2415	5.7757

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	12.2022	11.7201	12.0407
Ba 389.178	24.2745	24.8087	23.2065
Be 313.042	-0.0128u	-0.0036	-0.0036
Ca 370.602	61509	60210	59995
Cd 226.502	0.0366	-0.1681u	-0.1896u
Co 228.615	-0.3393u	0.1978	0.0460
Cr 267.716	0.4758	0.6961	0.5212
Cu 324.754	0.9917	0.2768	0.4816
Fe 271.441	784.731	770.389	764.232
K 766.491	2542.20	2478.51	2493.04
Mg 279.078	5122.62	5016.96	5007.95
Mn 257.610	37.5100	36.7296	36.7058
Mo 202.032	-0.1806u	0.6475	0.3923
Na 330.237	3705.59	3586.74	3465.57
Ni 231.604	2.4976	2.3110	1.9862
Pb 220.353	0.1998	-0.1562u	-0.7218u
Sb 206.834	1.5404	2.3560	-1.2001u
Se 196.026	-2.3654u	-2.2651u	-0.8614u
Sn 189.925	1.3332	2.3579	1.2911
Sr 216.596	147.559	145.082	145.183
Ti 334.941	0.9110	0.9764	0.9691
Tl 190.794	-4.0316u	-2.1538u	-0.6012u
V 292.401	0.7064	0.4841	0.4952
Zn 206.200	2.9446	1.0963	0.9998

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1345	ppb	0.1286	95.6	-34.6347
Al 308.215	72.4818	ppb	1.3866	1.9	1002.28
As 188.980	5.2248	ppb	1.3773	26.4	-2.7573
B 249.678	11.9877	ppb	0.2454	2.0	296.961
Ba 389.178	24.0966	ppb	0.8158	3.4	515.643
Be 313.042	-0.0066	ppb	0.0053	79.6	-431.279
Ca 370.602	60571	ppb	818.8	1.4	203716
Cd 226.502	-0.1070	ppb	0.1248	116.6	25.1980
Co 228.615	-0.0318	ppb	0.2769	869.7	-8.2298
Cr 267.716	0.5643	ppb	0.1163	20.6	63.8757
Cu 324.754	0.5834	ppb	0.3681	63.1	499.556
Fe 271.441	773.117	ppb	10.5179	1.4	1223.55
K 766.491	2504.58	ppb	33.3766	1.3	118540
Mg 279.078	5049.18	ppb	63.7652	1.3	14687.2
Mn 257.610	36.9818	ppb	0.4576	1.2	8467.25
Mo 202.032	0.2864	ppb	0.4241	148.1	6.8745
Na 330.237	3585.97	ppb	120.013	3.3	212.803
Ni 231.604	2.2649	ppb	0.2588	11.4	3.1733
Pb 220.353	-0.2261	ppb	0.4647	205.6	9.9076
Sb 206.834	0.8988	ppb	1.8628	207.3	3.9145
Se 196.026	-1.8306	ppb	0.8409	45.9	-2.2596
Sn 189.925	1.6607	ppb	0.6041	36.4	-5.0496
Sr 216.596	145.941	ppb	1.4018	1.0	1767.23
Ti 334.941	0.9521	ppb	0.0359	3.8	284.011
Tl 190.794	-2.2622	ppb	1.7178	75.9	-11.5329
V 292.401	0.5619	ppb	0.1253	22.3	1.1710
Zn 206.200	1.6802	ppb	1.0960	65.2	2.3252

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110800-f-10-a (Samp) 3/21/2015, 12:33:20 AM Rack 3, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0248u	0.0808	-0.2010u
Al 308.215	715.799	716.963	716.799
As 188.980	-2.8578u	-1.5916u	3.1536
B 249.678	38.6617	39.0956	38.8768
Ba 389.178	13.6559	14.6703	13.8760
Be 313.042	0.0220	0.0207	0.0203
Ca 370.602	59455	59439	59476
Cd 226.502	0.0099	0.0533	0.1058
Co 228.615	-0.5441u	-0.2324u	-0.1274u
Cr 267.716	3.7502	3.8959	4.0500
Cu 324.754	0.0300	-0.2346u	-0.0587u
Fe 271.441	1564.21	1565.65	1560.10
K 766.491	1774.62	1771.00	1770.81
Mg 279.078	3077.49	3073.79	3073.95
Mn 257.610	120.885	120.978	120.743
Mo 202.032	0.0864	0.2619	0.2426
Na 330.237	5394.60	5389.20	5500.56
Ni 231.604	1.3445	1.5877	1.4184
Pb 220.353	-1.6213u	1.1939	-1.7529u
Sb 206.834	2.4288	0.5080	0.3296
Se 196.026	0.0363	0.3964	3.7605
Sn 189.925	-1.1263u	-3.9209u	-0.2399u
Sr 216.596	66.5236	66.9021	67.0073
Ti 334.941	0.4538	0.4566	0.4423
Tl 190.794	-2.7376u	-1.4204u	1.8357
V 292.401	6.6088	6.6530	6.6331
Zn 206.200	2.8778	2.1954	2.2604

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0318	ppb	0.1492	469.1	-22.1896
Al 308.215	716.521	ppb	0.6299	0.1	5670.73
As 188.980	-0.4319	ppb	3.1690	733.7	-6.9454
B 249.678	38.8780	ppb	0.2170	0.6	777.824
Ba 389.178	14.0674	ppb	0.5336	3.8	283.903
Be 313.042	0.0210	ppb	0.0009	4.3	-377.940
Ca 370.602	59457	ppb	18.90	0.0	199960
Cd 226.502	0.0563	ppb	0.0480	85.2	36.9977
Co 228.615	-0.3013	ppb	0.2167	71.9	-11.2052
Cr 267.716	3.8987	ppb	0.1499	3.8	244.493
Cu 324.754	-0.0878	ppb	0.1347	153.4	446.968
Fe 271.441	1563.32	ppb	2.8816	0.2	2472.18
K 766.491	1772.14	ppb	2.1451	0.1	83960.3
Mg 279.078	3075.08	ppb	2.0939	0.1	8951.69
Mn 257.610	120.869	ppb	0.1180	0.1	27418.0
Mo 202.032	0.1970	ppb	0.0962	48.8	6.2588
Na 330.237	5428.12	ppb	62.7929	1.2	306.603
Ni 231.604	1.4502	ppb	0.1247	8.6	0.6916
Pb 220.353	-0.7268	ppb	1.6646	229.0	9.1828
Sb 206.834	1.0888	ppb	1.1639	106.9	4.2453
Se 196.026	1.3977	ppb	2.0541	147.0	-0.8032
Sn 189.925	-1.7624	ppb	1.9212	109.0	-7.5728
Sr 216.596	66.8110	ppb	0.2544	0.4	822.946

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.4509	ppb	0.0076	1.7	133.208
Tl 190.794	-0.7741	ppb	2.3541	304.1	-9.9660
V 292.401	6.6316	ppb	0.0221	0.3	172.482
Zn 206.200	2.4445	ppb	0.3766	15.4	3.1551

680-110800-f-11-a (Samp) 3/21/2015, 12:38:06 AM Rack 3, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0688u	-0.0694u	0.1220
Al 308.215	-2.4287u	-0.1328u	-1.9635u
As 188.980	-4.5959u	4.8497	-0.5824u
B 249.678	19.1643	19.9268	19.2273
Ba 389.178	8.5938	9.4721	9.3193
Be 313.042	-0.0015	-0.0081u	0.0036
Ca 370.602	22834	23261	22752
Cd 226.502	-0.0743u	-0.1473u	-0.2297u
Co 228.615	-0.1399u	0.2479	-0.2240u
Cr 267.716	0.0797	-0.0154u	0.0623
Cu 324.754	0.4382	0.9714	1.0000
Fe 271.441	8.5034	8.5982	9.0670
K 766.491	2850.88	2921.71	2860.30
Mg 279.078	7714.47	7885.58	7729.21
Mn 257.610	-0.0781	-0.1154	-0.0844
Mo 202.032	1.1679	0.4105	0.1794
Na 330.237	13314.2	13723.2	13320.8
Ni 231.604	0.5583	0.5317	1.4388
Pb 220.353	-1.1396u	-3.5398u	-1.7483u
Sb 206.834	0.0959	-0.4732u	2.4880
Se 196.026	5.4775	0.0130	4.5456
Sn 189.925	-0.8358u	-1.2005u	-1.0805u
Sr 216.596	296.339	301.671	294.533
Ti 334.941	-0.0147	-0.0459u	-0.0583u
Tl 190.794	-3.2245u	-1.0589u	-2.7963u
V 292.401	0.0648	0.2915	0.0882
Zn 206.200	75.8345	76.7275	73.3420

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0054	ppb	0.1103	2045.5	-28.4914
Al 308.215	-1.5084	ppb	1.2137	80.5	465.913
As 188.980	-0.1095	ppb	4.7405	4328.1	-6.6958
B 249.678	19.4395	ppb	0.4232	2.2	432.666
Ba 389.178	9.1284	ppb	0.4692	5.1	180.247
Be 313.042	-0.0020	ppb	0.0059	297.2	-437.106
Ca 370.602	22949	ppb	273.1	1.2	77195
Cd 226.502	-0.1504	ppb	0.0778	51.7	18.8954
Co 228.615	-0.0387	ppb	0.2517	651.0	-8.3867
Cr 267.716	0.0422	ppb	0.0506	120.0	35.3572
Cu 324.754	0.8032	ppb	0.3164	39.4	516.537
Fe 271.441	8.7229	ppb	0.3018	3.5	15.6924
K 766.491	2877.63	ppb	38.4630	1.3	136152
Mg 279.078	7776.42	ppb	94.8275	1.2	22608.8
Mn 257.610	-0.0926	ppb	0.0200	21.6	104.844
Mo 202.032	0.5859	ppb	0.5171	88.3	8.8319

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	13452.7	ppb	234.244	1.7	715.597
Ni 231.604	0.8429	ppb	0.5162	61.2	-1.3441
Pb 220.353	-2.1426	ppb	1.2477	58.2	6.8291
Sb 206.834	0.7036	ppb	1.5714	223.3	3.6064
Se 196.026	3.3453	ppb	2.9233	87.4	0.0197
Sn 189.925	-1.0390	ppb	0.1859	17.9	-7.0371
Sr 216.596	297.514	ppb	3.7116	1.2	3562.52
Ti 334.941	-0.0396	ppb	0.0225	56.7	-3.3756
Tl 190.794	-2.3599	ppb	1.1469	48.6	-11.5422
V 292.401	0.1482	ppb	0.1247	84.2	-10.3390
Zn 206.200	75.3013	ppb	1.7546	2.3	80.2355

680-110823-c-1-a (Samp) 3/21/2015, 12:42:52 AM Rack 3, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1492	0.2169	-0.0505u
Al 308.215	1.1320	1.7491	2.4800
As 188.980	-1.4254u	-2.9424u	-4.8863u
B 249.678	348.125	350.559	350.049
Ba 389.178	48.0415	47.3083	47.0554
Be 313.042	0.0050	0.0216	0.0183
Ca 370.602	23012	23032	23101
Cd 226.502	0.1682	0.0956	0.1456
Co 228.615	0.5248	0.0201	0.6742
Cr 267.716	1359.22	1358.22	1359.05
Cu 324.754	1.3060	1.0274	1.1495
Fe 271.441	16.1331	14.1156	19.2365
K 766.491	730.198	731.695	729.044
Mg 279.078	4618.21	4622.69	4620.50
Mn 257.610	314.662	314.381	314.430
Mo 202.032	0.2477	0.2230	0.0837
Na 330.237	10992.4	11091.8	11135.4
Ni 231.604	9.0911	9.5590	10.1688
Pb 220.353	1.0366	-3.4832u	-4.9444u
Sb 206.834	-3.8946	-2.2841	-4.1748
Se 196.026	-2.8750u	-3.4422u	-1.0987u
Sn 189.925	-3.5718u	1.1559	0.9347
Sr 216.596	88.6945	89.3866	88.1642
Ti 334.941	0.1703	0.1050	0.1256
Tl 190.794	-3.4203u	0.5923	-1.7015u
V 292.401	0.3483u	0.6895u	0.3984u
Zn 206.200	7.3499	6.6701	8.0605

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1052	ppb	0.1390	132.1	-9.2622
Al 308.215	1.7870	ppb	0.6748	37.8	489.518
As 188.980	-3.0847	ppb	1.7349	56.2	-8.8954
B 249.678	349.578	ppb	1.2832	0.4	6360.74
Ba 389.178	47.4684	ppb	0.5122	1.1	1045.92
Be 313.042	0.0149	ppb	0.0088	58.6	-404.030
Ca 370.602	23048	ppb	46.70	0.2	77538
Cd 226.502	0.1365	ppb	0.0371	27.2	31.7614
Co 228.615	0.4064	ppb	0.3428	84.3	-0.3123

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	1358.83	ppb	0.5333	0.0	73330.9
Cu 324.754	1.1610	ppb	0.1396	12.0	544.726
Fe 271.441	16.4951	ppb	2.5796	15.6	30.5409
K 766.491	730.312	ppb	1.3291	0.2	34773.9
Mg 279.078	4620.46	ppb	2.2411	0.0	13436.0
Mn 257.610	314.491	ppb	0.1498	0.0	71196.8
Mo 202.032	0.1848	ppb	0.0884	47.8	6.2576
Na 330.237	11073.2	ppb	73.2768	0.7	595.020
Ni 231.604	9.6063	ppb	0.5404	5.6	26.0935
Pb 220.353	-2.4637	ppb	3.1181	126.6	7.5012
Sb 206.834	-3.4512	ppb	1.0204	29.6	15.2001
Se 196.026	-2.4720	ppb	1.2226	49.5	-2.4890
Sn 189.925	-0.4937	ppb	2.6680	540.4	-6.6358
Sr 216.596	88.7484	ppb	0.6130	0.7	1069.21
Ti 334.941	0.1336	ppb	0.0334	25.0	42.0805
Tl 190.794	-1.5098	ppb	2.0132	133.3	-10.4452
V 292.401	0.4787	ppb	0.1843	38.5	-63.9573
Zn 206.200	7.3601	ppb	0.6953	9.4	5.6388

Cont Calib Verif (CCV) 3/21/2015, 12:47:39 AM Rack 4, Tube 1
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	494.726	497.374	494.943
Al 308.215	4884.25	4875.88	4877.59
As 188.980	496.705	499.186	491.017
B 249.678	490.437	493.764	494.488
Ba 389.178	4873.26	4874.38	4875.41
Be 313.042	490.322	488.121	491.594
Ca 370.602	4941	4934	4932
Cd 226.502	493.621	491.829	492.456
Co 228.615	496.660	495.861	496.302
Cr 267.716	4996.61	4988.40	4998.27
Cu 324.754	5186.06	5201.59	5194.40
Fe 271.441	4910.89	4903.34	4904.69
K 766.491	10714.0	10707.7	10729.0
Mg 279.078	4917.35	4915.49	4912.68
Mn 257.610	4982.32	4986.28	4984.96
Mo 202.032	490.306	487.349	487.164
Na 330.237	7452.04	7414.03	7532.21
Ni 231.604	2498.76	2493.29	2492.95
Pb 220.353	490.281	485.134	494.772
Sb 206.834	992.789	988.011	994.168
Se 196.026	5011.70	4986.46	4971.75
Sn 189.925	4863.08	4813.44	4836.11
Sr 216.596	2413.70	2410.06	2412.41
Ti 334.941	486.802	486.872	488.273
Tl 190.794	4992.13	4996.56	5014.11
V 292.401	4916.12	4915.95	4920.37
Zn 206.200	2420.98	2412.81	2416.89

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.681	ppb	1.4699	0.3	44494.5	99.13620
Al 308.215	4879.24	ppb	4.4203	0.1	36552.4	97.58481

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	495.636	ppb	4.1880	0.8	359.642	99.12718
B 249.678	492.897	ppb	2.1604	0.4	8937.74	98.57932
Ba 389.178	4874.35	ppb	1.0777	0.0	110891	97.48699
Be 313.042	490.012	ppb	1.7574	0.4	946029	98.00248
Ca 370.602	4936	ppb	4.401	0.1	17007	98.71421
Cd 226.502	492.635	ppb	0.9096	0.2	22134.2	98.52707
Co 228.615	496.274	ppb	0.4003	0.1	5576.20	99.25487
Cr 267.716	4994.43	ppb	5.2868	0.1	269405	99.88853
Cu 324.754	5194.02	ppb	7.7725	0.1	409456	103.88036
Fe 271.441	4906.31	ppb	4.0279	0.1	7853.49	98.12613
K 766.491	10716.9	ppb	10.9224	0.1	506256	107.16913
Mg 279.078	4915.18	ppb	2.3510	0.0	14187.0	98.30350
Mn 257.610	4984.52	ppb	2.0189	0.0	1126958	99.69046
Mo 202.032	488.273	ppb	1.7631	0.4	3135.24	97.65459
Na 330.237	7466.09	ppb	60.3300	0.8	380.698	99.54790
Ni 231.604	2495.00	ppb	3.2620	0.1	7807.00	99.80003
Pb 220.353	490.062	ppb	4.8228	1.0	786.853	98.01245
Sb 206.834	991.656	ppb	3.2312	0.3	1484.29	99.16558
Se 196.026	4989.97	ppb	20.2011	0.4	2211.39	99.79936
Sn 189.925	4837.54	ppb	24.8479	0.5	3560.45	96.75085
Sr 216.596	2412.06	ppb	1.8444	0.1	28740.9	96.48224
Ti 334.941	487.316	ppb	0.8298	0.2	143181	97.46317
Tl 190.794	5000.94	ppb	11.6259	0.2	5508.57	100.01873
V 292.401	4917.48	ppb	2.5028	0.1	138843	98.34963
Zn 206.200	2416.89	ppb	4.0889	0.2	2549.40	96.67572

Cont Calib Blank (CCB)

3/21/2015, 12:52:26 AM

Rack 4, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1007	-0.0101u	-0.0795u
Al 308.215	-4.4011u	-4.6827u	-2.8657u
As 188.980	-1.8674u	-1.8824u	-1.1158u
B 249.678	5.9246	4.8275	4.2259
Ba 389.178	0.0159	-0.1142u	0.5900
Be 313.042	0.0130	0.0134	0.0233
Ca 370.602	1.363	2.753	2.644
Cd 226.502	0.0965	-0.0128u	0.0786
Co 228.615	0.3569	0.0823	0.3196
Cr 267.716	0.1547	0.1903	0.3370
Cu 324.754	-0.0568u	-0.3079u	-0.3223u
Fe 271.441	3.8121	6.1657	5.8041
K 766.491	-0.3431u	-0.2916u	-0.4453u
Mg 279.078	1.5241	-0.6265u	-0.1245u
Mn 257.610	0.1640	0.1449	0.1582
Mo 202.032	-0.1907u	0.2154	0.5999
Na 330.237	179.383	-26.7161u	107.429
Ni 231.604	1.2443	-1.2749u	1.1027
Pb 220.353	-2.1967u	0.0559	-1.8831u
Sb 206.834	3.1371	0.9397	1.2631
Se 196.026	-3.0102u	1.1880	-3.4164u
Sn 189.925	1.0514	0.9993	1.0657
Sr 216.596	-0.2473u	0.2346	-0.0847u
Ti 334.941	0.1171	0.0503	0.0282

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	1.0221	1.6351	-1.2526u
V 292.401	0.1625	0.1003	0.2446
Zn 206.200	0.2085	0.2556	-0.0620u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0037	ppb	0.0909	2447.6	-16.7484	0.00371
Al 308.215	-3.9832	ppb	0.9780	24.6	447.960	-3.98318
As 188.980	-1.6219	ppb	0.4383	27.0	-7.8138	-1.62186
B 249.678	4.9927	ppb	0.8613	17.3	173.267	4.99267
Ba 389.178	0.1639	ppb	0.3747	228.6	-40.1864	0.16388
Be 313.042	0.0166	ppb	0.0059	35.3	-407.547	0.01657
Ca 370.602	2.253	ppb	0.7730	34.3	23.20	2.25324
Cd 226.502	0.0541	ppb	0.0587	108.4	28.0120	0.05409
Co 228.615	0.2530	ppb	0.1490	58.9	-5.0992	0.25295
Cr 267.716	0.2273	ppb	0.0966	42.5	45.0893	0.22733
Cu 324.754	-0.2290	ppb	0.1493	65.2	435.229	-0.22897
Fe 271.441	5.2607	ppb	1.2674	24.1	10.2664	5.26065
K 766.491	-0.3600	ppb	0.0782	21.7	277.775	-0.36003
Mg 279.078	0.2577	ppb	1.1251	436.5	24.3960	0.25773
Mn 257.610	0.1557	ppb	0.0098	6.3	98.5375	0.15572
Mo 202.032	0.2082	ppb	0.3953	189.9	6.4064	0.20817
Na 330.237	86.6988	ppb	104.602	120.6	34.4482	86.69876
Ni 231.604	0.3574	ppb	1.4154	396.0	-2.8656	0.35739
Pb 220.353	-1.3413	ppb	1.2201	91.0	8.0925	-1.34130
Sb 206.834	1.7800	ppb	1.1864	66.7	5.1623	1.77998
Se 196.026	-1.7462	ppb	2.5492	146.0	-2.2370	-1.74620
Sn 189.925	1.0388	ppb	0.0350	3.4	-5.5091	1.03879
Sr 216.596	-0.0325	ppb	0.2452	754.1	0.7009	-0.03251
Ti 334.941	0.0652	ppb	0.0463	71.0	14.5920	0.06520
Tl 190.794	0.4682	ppb	1.5214	325.0	-8.4245	0.46820
V 292.401	0.1691	ppb	0.0724	42.8	-9.6621	0.16913
Zn 206.200	0.1340	ppb	0.1714	127.9	0.6628	0.13403

680-110823-c-2-a (Samp)

3/21/2015, 12:57:13 AM

Rack 4, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1555	0.1131	0.2168
Al 308.215	-0.5334u	-1.7851u	-1.1224u
As 188.980	1.7591	-2.2207u	2.4465
B 249.678	15.0746	15.3537	15.4190
Ba 389.178	71.9969	71.9795	72.3240
Be 313.042	-0.0140	-0.0148u	-0.0163u
Ca 370.602	82438	82300	82120
Cd 226.502	-0.0979u	0.0725	-0.0530u
Co 228.615	0.0309	-0.6357u	-0.5516u
Cr 267.716	0.6034	0.5698	0.4498
Cu 324.754	0.0720	-0.0286u	-0.2154u
Fe 271.441	19.8216	15.5248	17.3800
K 766.491	867.909	870.236	868.732
Mg 279.078	41640.2	41673.0	41642.0
Mn 257.610	-0.5905	-0.5932	-0.6006
Mo 202.032	-0.1217u	0.2936	-0.3377u
Na 330.237	3937.48	4037.32	3953.22

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	2.3801	2.2714	2.2695
Pb 220.353	-2.2240u	-1.0529u	-0.9009u
Sb 206.834	5.0787	0.7605	0.1937
Se 196.026	6.1687	-1.9059u	1.3909
Sn 189.925	3.2514	1.8170	3.0612
Sr 216.596	80.9780	80.3652	80.1788
Ti 334.941	-0.1726	-0.2130	-0.1885
Tl 190.794	-2.8365u	-2.3045u	-1.8897u
V 292.401	0.3900	0.4408	0.3569
Zn 206.200	1.6936	3.5069	2.9904

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1618	ppb	0.0521	32.2	-6.4629
Al 308.215	-1.1470	ppb	0.6262	54.6	468.581
As 188.980	0.6616	ppb	2.5197	380.8	-6.1256
B 249.678	15.2824	ppb	0.1830	1.2	358.000
Ba 389.178	72.1001	ppb	0.1941	0.3	1684.76
Be 313.042	-0.0150	ppb	0.0012	7.8	-440.937
Ca 370.602	82286	ppb	159.2	0.2	276753
Cd 226.502	-0.0261	ppb	0.0883	337.9	25.1135
Co 228.615	-0.3855	ppb	0.3630	94.2	-12.2661
Cr 267.716	0.5410	ppb	0.0807	14.9	62.0882
Cu 324.754	-0.0573	ppb	0.1458	254.4	448.734
Fe 271.441	17.5755	ppb	2.1551	12.3	29.6512
K 766.491	868.959	ppb	1.1802	0.1	41319.6
Mg 279.078	41651.7	ppb	18.4540	0.0	120993
Mn 257.610	-0.5948	ppb	0.0052	0.9	263.152
Mo 202.032	-0.0553	ppb	0.3209	580.6	4.7136
Na 330.237	3976.00	ppb	53.6792	1.4	232.886
Ni 231.604	2.3070	ppb	0.0633	2.7	3.2417
Pb 220.353	-1.3926	ppb	0.7240	52.0	8.0137
Sb 206.834	2.0110	ppb	2.6718	132.9	5.5034
Se 196.026	1.8846	ppb	4.0599	215.4	-0.6274
Sn 189.925	2.7099	ppb	0.7791	28.7	-4.2759
Sr 216.596	80.5073	ppb	0.4181	0.5	992.863
Ti 334.941	-0.1914	ppb	0.0203	10.6	13.1431
Tl 190.794	-2.3436	ppb	0.4746	20.3	-11.5236
V 292.401	0.3959	ppb	0.0422	10.7	-2.7110
Zn 206.200	2.7303	ppb	0.9342	34.2	3.4112

680-110823-c-3-a (Samp)

3/21/2015, 1:02:00 AM

Rack 4, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0031u	0.0124u	-0.2332u
Al 308.215	2.5493	1.2887	-0.2448u
As 188.980	5.9168	2.6058	-2.6033u
B 249.678	15.0479	14.6701	14.9194
Ba 389.178	73.5248	73.1010	73.1696
Be 313.042	-0.0113	-0.0149u	-0.0111
Ca 370.602	83696	83580	83481
Cd 226.502	-0.0527u	-0.0054	-0.0498u
Co 228.615	0.1423	-0.5265u	0.2584
Cr 267.716	0.4728	0.3789	0.3350

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	0.3967	0.2822	0.7630
Fe 271.441	11.1827	6.5809	7.7338
K 766.491	893.269	892.729	891.218
Mg 279.078	42384.7	42343.3	42301.2
Mn 257.610	-0.5571	-0.5574	-0.5157
Mo 202.032	-0.3176u	1.0511	0.3930
Na 330.237	4041.85	4042.82	4006.20
Ni 231.604	2.8406	2.5349	2.0433
Pb 220.353	-0.3723u	0.4792	-0.0651u
Sb 206.834	-1.5623u	-0.4429u	1.4200
Se 196.026	-11.2410u	1.3867	-6.6276u
Sn 189.925	-1.5989u	-1.8373u	-1.2142u
Sr 216.596	81.9448	81.9203	81.2650
Ti 334.941	-0.1647	-0.1439	-0.1018
Tl 190.794	-0.4488u	-1.7740u	-1.0477u
V 292.401	0.4296	0.5319	0.5054
Zn 206.200	3.8628	3.9289	4.6732

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0725	ppb	0.1392	191.9	-27.5812
Al 308.215	1.1977	ppb	1.3993	116.8	485.586
As 188.980	1.9731	ppb	4.2951	217.7	-5.1560
B 249.678	14.8791	ppb	0.1921	1.3	350.742
Ba 389.178	73.2651	ppb	0.2275	0.3	1712.70
Be 313.042	-0.0124	ppb	0.0021	17.2	-435.601
Ca 370.602	83586	ppb	107.6	0.1	281124
Cd 226.502	-0.0359	ppb	0.0265	73.7	24.6410
Co 228.615	-0.0419	ppb	0.4236	1010.4	-8.4148
Cr 267.716	0.3955	ppb	0.0704	17.8	54.2394
Cu 324.754	0.4807	ppb	0.2511	52.2	491.120
Fe 271.441	8.4991	ppb	2.3945	28.2	15.3576
K 766.491	892.405	ppb	1.0633	0.1	42426.5
Mg 279.078	42343.0	ppb	41.7546	0.1	123001
Mn 257.610	-0.5434	ppb	0.0240	4.4	280.187
Mo 202.032	0.3755	ppb	0.6845	182.3	7.4798
Na 330.237	4030.29	ppb	20.8699	0.5	235.634
Ni 231.604	2.4729	ppb	0.4023	16.3	3.7594
Pb 220.353	0.0139	ppb	0.4312	3092.3	10.2291
Sb 206.834	-0.1951	ppb	1.5065	772.4	2.3246
Se 196.026	-5.4940	ppb	6.3897	116.3	-3.8979
Sn 189.925	-1.5502	ppb	0.3144	20.3	-7.4168
Sr 216.596	81.7100	ppb	0.3856	0.5	1007.60
Ti 334.941	-0.1368	ppb	0.0320	23.4	30.3885
Tl 190.794	-1.0902	ppb	0.6636	60.9	-10.1423
V 292.401	0.4890	ppb	0.0531	10.9	-0.1564
Zn 206.200	4.1549	ppb	0.4500	10.8	4.9193

680-110706-n-1-b (Samp)

3/21/2015, 1:06:47 AM

Rack 4, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1728u	0.2262u	-0.0420u
Al 308.215	204.121	203.088	206.697
As 188.980	23.5922	23.6957	21.4508

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	65.9845	66.5097	66.7111
Ba 389.178	235.023	236.298	235.984
Be 313.042	-0.0403u	-0.0391u	-0.0413u
Ca 370.602	216310	215957	216622
Cd 226.502	-1.1617	-1.3529	-1.2838
Co 228.615	0.0095	-0.0653	-0.3467
Cr 267.716	-0.2852	-0.2858	-0.3346
Cu 324.754	0.1264	-0.1083	-0.3747u
Fe 271.441	59030.1	59182.5	59097.7
K 766.491	8327.26	8345.52	8315.48
Mg 279.078	47233.4	47319.8	47364.1
Mn 257.610	1984.70	1992.19	1991.82
Mo 202.032	0.2547u	0.7426	1.5158
Na 330.237	62411.3	62479.1	62718.4
Ni 231.604	1.2097	0.3680	2.1955
Pb 220.353	-1.7633	-3.2730u	-1.5227
Sb 206.834	-1.9059u	-1.5781u	-0.5812
Se 196.026	-0.3818	-4.3174u	-6.7398u
Sn 189.925	0.6911	2.6368	1.7888
Sr 216.596	2644.57	2651.24	2652.80
Ti 334.941	5.4644	4.8739	4.8488
Tl 190.794	4.1112u	0.2717u	-3.5751u
V 292.401	2.2676	1.9674	2.3283
Zn 206.200	4.2658	3.7706	3.6190

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1190	ppb	0.1420	119.3	-103.342
Al 308.215	204.635	ppb	1.8584	0.9	1966.90
As 188.980	22.9129	ppb	1.2673	5.5	9.8948
B 249.678	66.4018	ppb	0.3751	0.6	1128.32
Ba 389.178	235.769	ppb	0.6642	0.3	5467.16
Be 313.042	-0.0402	ppb	0.0011	2.8	-451.110
Ca 370.602	216296	ppb	332.7	0.2	726784
Cd 226.502	-1.2661	ppb	0.0968	7.6	306.280
Co 228.615	-0.1342	ppb	0.1878	140.0	-5.4080
Cr 267.716	-0.3019	ppb	0.0284	9.4	55.6215
Cu 324.754	-0.1189	ppb	0.2507	210.9	471.432
Fe 271.441	59103.4	ppb	76.3635	0.1	93391.8
K 766.491	8329.42	ppb	15.1355	0.2	393539
Mg 279.078	47305.8	ppb	66.4640	0.1	137371
Mn 257.610	1989.57	ppb	4.2229	0.2	450406
Mo 202.032	0.8377	ppb	0.6359	75.9	7.8261
Na 330.237	62536.3	ppb	161.349	0.3	3206.26
Ni 231.604	1.2577	ppb	0.9147	72.7	5.0644
Pb 220.353	-2.1863	ppb	0.9487	43.4	11.1139
Sb 206.834	-1.3551	ppb	0.6900	50.9	1.7470
Se 196.026	-3.8130	ppb	3.2088	84.2	-2.1954
Sn 189.925	1.7056	ppb	0.9755	57.2	-4.9989
Sr 216.596	2649.54	ppb	4.3684	0.2	31798.7
Ti 334.941	5.0624	ppb	0.3484	6.9	1569.35
Tl 190.794	0.2693	ppb	3.8432	1427.3	-16.9312
V 292.401	2.1878	ppb	0.1933	8.8	24.4665
Zn 206.200	3.8851	ppb	0.3383	8.7	6.6703

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110753-a-1-a (Samp) 3/21/2015, 1:11:34 AM Rack 4, Tube 6

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0047u	0.0046u	0.0821u
Al 308.215	14.7928	14.3789	14.7901
As 188.980	0.0189u	0.6399	-2.2109u
B 249.678	49.2318	49.3924	49.0256
Ba 389.178	59.5693	59.7875	59.6590
Be 313.042	-0.0267u	-0.0240u	-0.0227u
Ca 370.602	128647	128621	128626
Cd 226.502	-0.2642	-0.2100	-0.1170
Co 228.615	-0.7910u	0.0281	-0.1848u
Cr 267.716	0.1176	0.1860	0.1852
Cu 324.754	-0.3190u	-0.1047u	-0.5420u
Fe 271.441	2223.41	2225.42	2223.73
K 766.491	5096.67	5093.39	5100.96
Mg 279.078	6545.56	6537.55	6533.80
Mn 257.610	65.1678	65.0639	65.1109
Mo 202.032	-0.3708u	-0.0085u	0.3912
Na 330.237	43953.2	43838.8	43927.1
Ni 231.604	0.7840	0.0330	1.3937
Pb 220.353	-0.9558u	-2.4078u	-1.6945u
Sb 206.834	-1.3536u	-0.5630u	1.3445
Se 196.026	2.9439	2.2752	-2.0762u
Sn 189.925	3.4101	-1.1264u	0.7007
Sr 216.596	651.110	650.521	649.842
Ti 334.941	0.0987	0.1566	0.0812
Tl 190.794	1.1473	-2.1320u	-3.9646u
V 292.401	0.7320	0.7221	0.5018
Zn 206.200	2.9549	1.2904	3.3639

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0305	ppb	0.0447	146.6	-38.3201
Al 308.215	14.6539	ppb	0.2382	1.6	583.374
As 188.980	-0.5174	ppb	1.4991	289.8	-7.0133
B 249.678	49.2166	ppb	0.1839	0.4	961.816
Ba 389.178	59.6720	ppb	0.1097	0.2	1329.39
Be 313.042	-0.0245	ppb	0.0020	8.3	-445.971
Ca 370.602	128631	ppb	14.06	0.0	432592
Cd 226.502	-0.1970	ppb	0.0744	37.8	29.2052
Co 228.615	-0.3159	ppb	0.4250	134.6	-11.3355
Cr 267.716	0.1630	ppb	0.0393	24.1	43.8157
Cu 324.754	-0.3219	ppb	0.2187	67.9	428.923
Fe 271.441	2224.18	ppb	1.0792	0.0	3516.35
K 766.491	5097.01	ppb	3.7992	0.1	240932
Mg 279.078	6538.97	ppb	6.0060	0.1	19013.4
Mn 257.610	65.1142	ppb	0.0520	0.1	14844.2
Mo 202.032	0.0040	ppb	0.3811	9577.1	4.9963
Na 330.237	43906.3	ppb	59.9741	0.1	2269.95
Ni 231.604	0.7369	ppb	0.6816	92.5	-1.4845
Pb 220.353	-1.6860	ppb	0.7260	43.1	7.7106
Sb 206.834	-0.1907	ppb	1.3871	727.2	2.3762
Se 196.026	1.0476	ppb	2.7259	260.2	-0.9649
Sn 189.925	0.9948	ppb	2.2825	229.4	-5.5285
Sr 216.596	650.491	ppb	0.6345	0.1	7819.64

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	1090.91	ppb	131.070	12.0	85.4254
Ni 231.604	42.6326	ppb	0.2600	0.6	129.477
Pb 220.353	9.4448	ppb	0.9394	9.9	25.0814
Sb 206.834	22.3066	ppb	1.5249	6.8	34.6151
Se 196.026	16.4230	ppb	1.8496	11.3	5.8189
Sn 189.925	52.0499	ppb	1.9018	3.7	32.1016
Sr 216.596	9.8999	ppb	0.1672	1.7	118.313
Ti 334.941	10.1802	ppb	0.1689	1.7	2987.33
Tl 190.794	25.7026	ppb	1.4301	5.6	19.3767
V 292.401	10.4833	ppb	0.1487	1.4	279.842
Zn 206.200	21.5066	ppb	1.2796	5.9	23.2694

mb 680-375318/1-a (Samp) 3/21/2015, 1:21:08 AM Rack 4, Tube 8
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3295	0.1127	0.0085
Al 308.215	-1.2399u	-2.6702u	-1.8384u
As 188.980	2.2447	0.8376	-2.1524u
B 249.678	-0.0711u	-0.8915u	-0.4778u
Ba 389.178	0.1586	0.6711	-0.0873u
Be 313.042	0.0023	0.0102	-0.0013u
Ca 370.602	6.680	13.93	7.718
Cd 226.502	-0.0481u	0.0003	-0.0059u
Co 228.615	0.1176	-0.0553u	0.2782
Cr 267.716	0.1097	0.0360	0.0081
Cu 324.754	-0.0141u	-0.3030u	-0.0887u
Fe 271.441	6.0214	3.8100	4.5803
K 766.491	-0.3519u	-0.1661u	-0.1265u
Mg 279.078	2.8096	-0.4233u	4.7636
Mn 257.610	0.0909	0.1115	0.1275
Mo 202.032	-0.0200u	0.1555	0.1887
Na 330.237	124.607	54.7363	97.7929
Ni 231.604	-0.1418u	1.1215	0.3915
Pb 220.353	1.2756	-1.3518u	0.3803
Sb 206.834	-3.3450u	1.2522	-1.9766u
Se 196.026	-5.1420u	-0.9166u	-1.5337u
Sn 189.925	1.6536	-2.2772u	-0.7356u
Sr 216.596	0.4198	0.0673	0.4579
Ti 334.941	-0.0632u	-0.0476u	-0.0395u
Tl 190.794	1.3648	0.4731	0.3605
V 292.401	0.2901	-0.0920u	0.0956
Zn 206.200	0.9346	1.0147	2.2321

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1502	ppb	0.1638	109.0	-3.5883
Al 308.215	-1.9161	ppb	0.7183	37.5	462.934
As 188.980	0.3100	ppb	2.2455	724.4	-6.3855
B 249.678	-0.4801	ppb	0.4102	85.4	74.9479
Ba 389.178	0.2475	ppb	0.3870	156.4	-38.2833
Be 313.042	0.0038	ppb	0.0059	157.0	-432.264
Ca 370.602	9.442	ppb	3.920	41.5	47.31
Cd 226.502	-0.0179	ppb	0.0264	147.3	24.7828
Co 228.615	0.1135	ppb	0.1668	147.0	-6.6665

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0513	ppb	0.0525	102.3	35.5934
Cu 324.754	-0.1353	ppb	0.1500	110.9	442.605
Fe 271.441	4.8039	ppb	1.1225	23.4	9.5214
K 766.491	-0.2148	ppb	0.1203	56.0	284.630
Mg 279.078	2.3833	ppb	2.6196	109.9	30.5699
Mn 257.610	0.1100	ppb	0.0183	16.7	88.2066
Mo 202.032	0.1080	ppb	0.1122	103.8	5.7635
Na 330.237	92.3786	ppb	35.2485	38.2	34.7174
Ni 231.604	0.4571	ppb	0.6342	138.8	-2.5531
Pb 220.353	0.1013	ppb	1.3357	1318.1	10.3664
Sb 206.834	-1.3565	ppb	2.3605	174.0	0.6576
Se 196.026	-2.5308	ppb	2.2824	90.2	-2.5848
Sn 189.925	-0.4531	ppb	1.9806	437.2	-6.6091
Sr 216.596	0.3150	ppb	0.2154	68.4	4.8628
Ti 334.941	-0.0501	ppb	0.0120	24.0	-19.2843
Tl 190.794	0.7328	ppb	0.5502	75.1	-8.1333
V 292.401	0.0979	ppb	0.1911	195.2	-11.6455
Zn 206.200	1.3938	ppb	0.7271	52.2	1.9968

lles 680-375318/2-a (Samp) 3/21/2015, 1:25:55 AM Rack 4, Tube 9
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.6594	10.4150	11.0285
Al 308.215	220.888	212.073	217.556
As 188.980	22.8411	17.9382	16.0227
B 249.678	103.701	101.605	103.736
Ba 389.178	10.6454	10.9517	10.4163
Be 313.042	4.3771	4.2654	4.3299
Ca 370.602	560.1	549.2	557.3
Cd 226.502	5.3327	5.0467	5.1888
Co 228.615	10.5166	10.1656	11.0730
Cr 267.716	11.0130	10.6642	11.0142
Cu 324.754	22.6824	21.9158	22.9625
Fe 271.441	60.9839	50.7746	59.9631
K 766.491	1236.04	1199.18	1223.78
Mg 279.078	545.575	530.252	543.834
Mn 257.610	11.3440	11.0519	11.2910
Mo 202.032	10.6452	10.1196	9.9460
Na 330.237	1060.41	1081.49	1031.45
Ni 231.604	44.7639	44.4894	45.2937
Pb 220.353	9.7320	10.4739	9.1036
Sb 206.834	24.2468	18.6360	23.5381
Se 196.026	23.0043	26.1633	20.7328
Sn 189.925	55.7418	52.9454	53.5332
Sr 216.596	10.1743	10.3736	10.5145
Ti 334.941	10.7451	10.4086	10.5651
Tl 190.794	23.6619	25.1950	25.5884
V 292.401	10.9779	10.6068	10.9121
Zn 206.200	24.8128	22.4365	25.9666

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.7010	ppb	0.3089	2.9	944.580
Al 308.215	216.839	ppb	4.4511	2.1	2050.02

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	18.9340	ppb	3.5166	18.6	7.3806
B 249.678	103.014	ppb	1.2206	1.2	1933.54
Ba 389.178	10.6711	ppb	0.2686	2.5	200.144
Be 313.042	4.3242	ppb	0.0561	1.3	7909.87
Ca 370.602	555.5	ppb	5.652	1.0	1889
Cd 226.502	5.1894	ppb	0.1430	2.8	258.488
Co 228.615	10.5851	ppb	0.4575	4.3	110.989
Cr 267.716	10.8971	ppb	0.2017	1.9	620.581
Cu 324.754	22.5202	ppb	0.5419	2.4	2227.14
Fe 271.441	57.2406	ppb	5.6229	9.8	93.6594
K 766.491	1219.66	ppb	18.7710	1.5	57876.8
Mg 279.078	539.887	ppb	8.3893	1.6	1591.32
Mn 257.610	11.2289	ppb	0.1556	1.4	2606.32
Mo 202.032	10.2369	ppb	0.3641	3.6	70.7925
Na 330.237	1057.78	ppb	25.1224	2.4	83.6951
Ni 231.604	44.8490	ppb	0.4088	0.9	136.416
Pb 220.353	9.7698	ppb	0.6859	7.0	25.5934
Sb 206.834	22.1403	ppb	3.0554	13.8	34.3751
Se 196.026	23.3001	ppb	2.7273	11.7	8.8672
Sn 189.925	54.0735	ppb	1.4744	2.7	33.5936
Sr 216.596	10.3541	ppb	0.1709	1.7	123.698
Ti 334.941	10.5729	ppb	0.1684	1.6	3102.73
Tl 190.794	24.8151	ppb	1.0179	4.1	18.3988
V 292.401	10.8323	ppb	0.1980	1.8	289.611
Zn 206.200	24.4053	ppb	1.8000	7.4	26.3374

ics 680-375318/4-a (Samp)

3/21/2015, 1:30:42 AM

Rack 4, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.9406	23.0444	21.8503
Al 308.215	2115.86	2119.33	2058.51
As 188.980	47.1443	41.8643	41.5662
B 249.678	83.4343	84.1057	81.8248
Ba 389.178	42.2488	42.0865	40.6210
Be 313.042	21.2337	21.2356	20.6926
Ca 370.602	2181	2185	2122
Cd 226.502	21.5049	21.7815	20.8019
Co 228.615	21.7390	21.8158	20.8688
Cr 267.716	43.8028	43.8597	43.1314
Cu 324.754	44.6620	44.8939	43.1555
Fe 271.441	2145.14	2142.23	2090.83
K 766.491	2437.07	2439.66	2380.93
Mg 279.078	2139.98	2129.14	2087.68
Mn 257.610	224.326	224.123	218.616
Mo 202.032	41.8291	42.1093	40.9485
Na 330.237	2230.33	2274.99	1959.26
Ni 231.604	43.6881	44.0702	42.8239
Pb 220.353	210.366	214.538	210.027
Sb 206.834	21.8950	25.6065	22.4387
Se 196.026	37.3869	34.2603	37.8363
Sn 189.925	83.6228	85.6481	82.1856
Sr 216.596	40.8503	41.7762	40.5685
Ti 334.941	42.8787	42.9055	41.8838

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	17.1631	15.1603	15.9960
V 292.401	43.5940	43.8030	42.6238
Zn 206.200	46.5211	43.1759	44.6236

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.6118	ppb	0.6615	2.9	2015.03
Al 308.215	2097.90	ppb	34.1576	1.6	15688.1
As 188.980	43.5249	ppb	3.1380	7.2	25.5368
B 249.678	83.1216	ppb	1.1721	1.4	1571.20
Ba 389.178	41.6521	ppb	0.8966	2.2	910.257
Be 313.042	21.0540	ppb	0.3130	1.5	40214.1
Ca 370.602	2162	ppb	35.28	1.6	7291
Cd 226.502	21.3628	ppb	0.5051	2.4	995.169
Co 228.615	21.4745	ppb	0.5260	2.4	233.414
Cr 267.716	43.5980	ppb	0.4051	0.9	2386.08
Cu 324.754	44.2371	ppb	0.9439	2.1	3939.28
Fe 271.441	2126.06	ppb	30.5519	1.4	3364.17
K 766.491	2419.22	ppb	33.1875	1.4	114510
Mg 279.078	2118.93	ppb	27.6084	1.3	6171.96
Mn 257.610	222.355	ppb	3.2395	1.5	50354.2
Mo 202.032	41.6290	ppb	0.6057	1.5	272.251
Na 330.237	2154.86	ppb	170.860	7.9	138.908
Ni 231.604	43.5274	ppb	0.6385	1.5	132.430
Pb 220.353	211.643	ppb	2.5123	1.2	343.897
Sb 206.834	23.3134	ppb	2.0044	8.6	35.9919
Se 196.026	36.4945	ppb	1.9478	5.3	14.7802
Sn 189.925	83.8188	ppb	1.7396	2.1	55.5252
Sr 216.596	41.0650	ppb	0.6318	1.5	493.398
Ti 334.941	42.5560	ppb	0.5823	1.4	12502.6
Tl 190.794	16.1065	ppb	1.0060	6.2	8.5653
V 292.401	43.3403	ppb	0.6292	1.5	1201.08
Zn 206.200	44.7736	ppb	1.6776	3.7	47.9061

680-110765-a-1-a (Samp)

3/21/2015, 1:35:29 AM

Rack 4, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0963	-0.0542u	0.1483
Al 308.215	4.2543	3.3595	2.7598
As 188.980	-0.2336u	1.9667	1.1206
B 249.678	126.909	126.907	126.898
Ba 389.178	101.379	101.425	101.016
Be 313.042	0.0139	0.0125	0.0109
Ca 370.602	7670	7658	7689
Cd 226.502	0.0337	-0.1103u	-0.0794u
Co 228.615	-0.2884u	0.4292	0.0082
Cr 267.716	0.0921	0.1896	0.0433
Cu 324.754	1.9072	1.8038	1.8836
Fe 271.441	55.5591	49.7840	51.2379
K 766.491	2350.68	2358.19	2365.89
Mg 279.078	1472.74	1474.54	1476.54
Mn 257.610	4.5576	4.6067	4.6379
Mo 202.032	1.3726	1.2843	1.3700
Na 330.237	159010x	159138x	159343x

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	-0.1936u	0.5326	0.1706
Pb 220.353	-0.3643u	1.0345	-1.9202u
Sb 206.834	0.8928	2.2863	0.7849
Se 196.026	1.4522	-9.2511u	8.2057
Sn 189.925	0.9600	2.5615	-1.8159u
Sr 216.596	183.882	183.621	184.965
Ti 334.941	0.0420	0.0213u	0.0137u
Tl 190.794	-4.3388u	-1.2122u	-4.6307u
V 292.401	0.2224	0.0444u	0.2204
Zn 206.200	5.9023	6.6967	4.8801

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0635b	ppb	0.1052	165.8	-18.0219
Al 308.215	3.4578b	ppb	0.7521	21.8	501.924
As 188.980	0.9512b	ppb	1.1099	116.7	-5.9121
B 249.678	126.905b	ppb	0.0057	0.0	2362.22
Ba 389.178	101.273b	ppb	0.2238	0.2	2263.55
Be 313.042	0.0124b	ppb	0.0015	11.9	-431.013
Ca 370.602	7672b	ppb	15.69	0.2	25818
Cd 226.502	-0.0520b	ppb	0.0758	145.8	22.5421
Co 228.615	0.0496b	ppb	0.3606	726.4	-7.4112
Cr 267.716	0.1083b	ppb	0.0745	68.8	41.7268
Cu 324.754	1.8648b	ppb	0.0542	2.9	600.199
Fe 271.441	52.1937b	ppb	3.0038	5.8	84.3822
K 766.491	2358.25b	ppb	7.6047	0.3	111631
Mg 279.078	1474.60b	ppb	1.9008	0.1	4306.26
Mn 257.610	4.6007b	ppb	0.0405	0.9	1114.65
Mo 202.032	1.3423b	ppb	0.0503	3.7	13.6870
Na 330.237	159164xb	ppb	167.918	0.1	8151.98
Ni 231.604	0.1698b	ppb	0.3631	213.8	-3.4477
Pb 220.353	-0.4167b	ppb	1.4780	354.7	9.5523
Sb 206.834	1.3213b	ppb	0.8374	63.4	4.4834
Se 196.026	0.1356b	ppb	8.8026	6491.1	-1.4015
Sn 189.925	0.5685b	ppb	2.2148	389.6	-5.8084
Sr 216.596	184.156b	ppb	0.7123	0.4	2203.19
Ti 334.941	0.0257b	ppb	0.0147	57.2	-6.6897
Tl 190.794	-3.3939b	ppb	1.8951	55.8	-12.6883
V 292.401	0.1624b	ppb	0.1022	62.9	-11.3097
Zn 206.200	5.8264b	ppb	0.9107	15.6	6.6905

680-110765-a-1-aSD^5 (Samp) 3/21/2015, 1:40:15 AM

Rack 4, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1377	-0.1472u	0.4172
Al 308.215	-1.1893u	-2.6714u	-2.1685u
As 188.980	1.2232	2.3293	1.1336
B 249.678	25.8027	24.3381	25.3882
Ba 389.178	20.8339	20.7591	21.3865
Be 313.042	0.0051	0.0077	-0.0052u
Ca 370.602	1574	1527	1557
Cd 226.502	-0.1037u	0.0213	-0.0187u
Co 228.615	0.2877	-0.1852u	-0.1555u
Cr 267.716	0.0701	-0.1546u	0.0942

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	0.1634	0.2320	0.1818
Fe 271.441	15.7872	13.2299	17.7874
K 766.491	431.121	417.798	426.910
Mg 279.078	305.177	298.673	309.728
Mn 257.610	1.0493	1.0488	1.0400
Mo 202.032	0.6148	0.1556	0.7311
Na 330.237	30420.4	29415.0	30213.5
Ni 231.604	1.0996	1.9400	1.5897
Pb 220.353	-0.4653u	0.6777	-2.2109u
Sb 206.834	0.9956	-0.5853u	1.4930
Se 196.026	-2.5034u	-1.8297u	-2.9160u
Sn 189.925	3.6095	2.4090	-0.2569u
Sr 216.596	37.7458	36.8413	37.8365
Ti 334.941	-0.0188u	0.0344	-0.0326u
Tl 190.794	-2.2334u	-1.4916u	-2.2085u
V 292.401	0.0357	0.2441	-0.1012u
Zn 206.200	0.6279	1.1456	2.1108

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1359	ppb	0.2822	207.7	-6.2254
Al 308.215	-2.0097	ppb	0.7537	37.5	462.254
As 188.980	1.5620	ppb	0.6660	42.6	-5.4600
B 249.678	25.1763	ppb	0.7549	3.0	535.644
Ba 389.178	20.9932	ppb	0.3427	1.6	434.402
Be 313.042	0.0025	ppb	0.0068	269.2	-437.537
Ca 370.602	1553	ppb	23.33	1.5	5237
Cd 226.502	-0.0337	ppb	0.0638	189.5	23.9526
Co 228.615	-0.0177	ppb	0.2648	1497.4	-8.1504
Cr 267.716	0.0032	ppb	0.1372	4231.8	33.5813
Cu 324.754	0.1924	ppb	0.0355	18.5	468.431
Fe 271.441	15.6015	ppb	2.2844	14.6	26.5816
K 766.491	425.276	ppb	6.8100	1.6	20372.7
Mg 279.078	304.526	ppb	5.5563	1.8	908.067
Mn 257.610	1.0460	ppb	0.0052	0.5	302.146
Mo 202.032	0.5005	ppb	0.3043	60.8	8.2832
Na 330.237	30016.3	ppb	530.906	1.8	1561.72
Ni 231.604	1.5431	ppb	0.4222	27.4	0.8482
Pb 220.353	-0.6662	ppb	1.4547	218.4	9.1570
Sb 206.834	0.6344	ppb	1.0852	171.1	3.5100
Se 196.026	-2.4164	ppb	0.5483	22.7	-2.5338
Sn 189.925	1.9205	ppb	1.9789	103.0	-4.8501
Sr 216.596	37.4745	ppb	0.5502	1.5	449.172
Ti 334.941	-0.0056	ppb	0.0354	626.7	-7.9973
Tl 190.794	-1.9778	ppb	0.4213	21.3	-11.1213
V 292.401	0.0595	ppb	0.1739	292.2	-13.0361
Zn 206.200	1.2948	ppb	0.7526	58.1	1.8924

Cont Calib Verif (CCV) 3/21/2015, 1:45:02 AM Rack 4, Tube 13

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	496.167	495.076	506.826
Al 308.215	4885.45	4893.66	5010.42
As 188.980	488.998	491.117	506.887

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	488.861	490.311	505.192
Ba 389.178	4881.22	4897.34	5006.60
Be 313.042	490.872	490.650	502.189
Ca 370.602	4942	4955	5066
Cd 226.502	494.392	494.324	504.975
Co 228.615	496.562	498.735	510.396
Cr 267.716	5011.11	5011.49	5126.75
Cu 324.754	5192.55	5213.45	5347.36
Fe 271.441	4910.55	4913.50	5020.25
K 766.491	10702.8	10747.5	11015.7
Mg 279.078	4934.51	4932.07	5047.30
Mn 257.610	5006.37	5003.44	5124.71
Mo 202.032	488.834	487.455	500.769
Na 330.237	7596.85	7614.10	7709.71
Ni 231.604	2501.69	2502.41	2555.80
Pb 220.353	491.276	492.569	502.751
Sb 206.834	993.592	989.988	1019.84
Se 196.026	5004.22	5027.23	5133.77
Sn 189.925	4909.24	4891.09	5004.23
Sr 216.596	2398.59	2417.61	2471.96
Ti 334.941	486.900	488.204	499.706
Tl 190.794	5004.36	5021.85	5139.18
V 292.401	4916.97	4932.38	5046.36
Zn 206.200	2432.90	2430.24	2492.44

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.356	ppb	6.4918	1.3	44824.9	99.87125
Al 308.215	4929.84	ppb	69.9048	1.4	36925.5	98.59688
As 188.980	495.667	ppb	9.7746	2.0	359.664	99.13343
B 249.678	494.788	ppb	9.0396	1.8	8971.73	98.95757
Ba 389.178	4928.39	ppb	68.2103	1.4	112120	98.56774
Be 313.042	494.570	ppb	6.5989	1.3	954832	98.91401
Ca 370.602	4988	ppb	68.25	1.4	17187	99.75990
Cd 226.502	497.897	ppb	6.1298	1.2	22370.3	99.57939
Co 228.615	501.898	ppb	7.4395	1.5	5639.46	100.37950
Cr 267.716	5049.78	ppb	66.6558	1.3	272391	100.99564
Cu 324.754	5251.12	ppb	83.9985	1.6	413953	105.02239
Fe 271.441	4948.10	ppb	62.5024	1.3	7920.56	98.96196
K 766.491	10822.0	ppb	169.213	1.6	511217	108.22009
Mg 279.078	4971.29	ppb	65.8348	1.3	14348.7	99.42587
Mn 257.610	5044.84	ppb	69.1857	1.4	1140593	100.89674
Mo 202.032	492.353	ppb	7.3212	1.5	3161.39	98.47060
Na 330.237	7640.22	ppb	60.7908	0.8	389.139	101.86961
Ni 231.604	2519.97	ppb	31.0349	1.2	7885.15	100.79863
Pb 220.353	495.532	ppb	6.2851	1.3	795.518	99.10637
Sb 206.834	1001.14	ppb	16.2940	1.6	1498.50	100.11397
Se 196.026	5055.07	ppb	69.1190	1.4	2240.26	101.10146
Sn 189.925	4934.85	ppb	60.7596	1.2	3632.20	98.69708
Sr 216.596	2429.39	ppb	38.0791	1.6	28947.2	97.17544
Ti 334.941	491.603	ppb	7.0475	1.4	144441	98.32064
Tl 190.794	5055.13	ppb	73.3154	1.5	5568.36	101.10258
V 292.401	4965.24	ppb	70.6794	1.4	140192	99.30473
Zn 206.200	2451.86	ppb	35.1687	1.4	2586.32	98.07433

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Cont Calib Blank (CCB) 3/21/2015, 1:49:49 AM Rack 4, Tube 14

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4143	0.1603	0.0465
Al 308.215	-4.9551u	-3.4507u	-2.8882u
As 188.980	1.8148	1.0633	-0.6595u
B 249.678	4.7228	4.1491	3.1600
Ba 389.178	0.0469	0.5891	0.2077
Be 313.042	0.0151	0.0198	0.0143
Ca 370.602	3.439	4.585	2.812
Cd 226.502	0.1743	0.0756	-0.0326u
Co 228.615	0.2752	0.0294	0.1282
Cr 267.716	0.2851	0.3589	0.2006
Cu 324.754	-0.2402u	-0.0385u	-0.0642u
Fe 271.441	3.5567	4.3071	4.1915
K 766.491	-0.7462u	-0.6389u	-0.6195u
Mg 279.078	2.5523	-1.1993u	-0.0313u
Mn 257.610	0.1531	0.1312	0.1104
Mo 202.032	0.1651	-0.0374u	0.9002
Na 330.237	184.778	124.414	-107.744u
Ni 231.604	1.3823	0.2466	1.2616
Pb 220.353	1.4947	-0.6023u	-0.2743u
Sb 206.834	1.5565	0.5756	-0.1458u
Se 196.026	-4.2463u	1.3836	5.5134
Sn 189.925	1.7628	0.7841	5.2255
Sr 216.596	0.4198	-0.1946u	0.0174
Ti 334.941	0.1369	0.1308	0.0976
Tl 190.794	0.5787	0.5107	0.8878
V 292.401	0.2766	0.3458	0.1957
Zn 206.200	-0.7033u	0.6931	1.3129

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2070	ppb	0.1883	91.0	1.5215	0.20703
Al 308.215	-3.7647	ppb	1.0686	28.4	449.564	-3.76467
As 188.980	0.7396	ppb	1.2685	171.5	-6.0679	0.73956
B 249.678	4.0106	ppb	0.7906	19.7	155.611	4.01062
Ba 389.178	0.2813	ppb	0.2785	99.0	-37.5145	0.28127
Be 313.042	0.0164	ppb	0.0030	18.2	-407.860	0.01641
Ca 370.602	3.612	ppb	0.8987	24.9	27.78	3.61201
Cd 226.502	0.0724	ppb	0.1035	142.9	28.8359	0.07243
Co 228.615	0.1443	ppb	0.1237	85.8	-6.3248	0.14426
Cr 267.716	0.2815	ppb	0.0792	28.1	48.0084	0.28151
Cu 324.754	-0.1143	ppb	0.1098	96.1	444.264	-0.11429
Fe 271.441	4.0184	ppb	0.4041	10.1	8.2816	4.01842
K 766.491	-0.6682	ppb	0.0682	10.2	263.225	-0.66821
Mg 279.078	0.4406	ppb	1.9198	435.8	24.9280	0.44056
Mn 257.610	0.1316	ppb	0.0213	16.2	93.0778	0.13156
Mo 202.032	0.3426	ppb	0.4934	144.0	7.2697	0.34263
Na 330.237	67.1495	ppb	154.440	230.0	33.4500	67.14951
Ni 231.604	0.9635	ppb	0.6238	64.7	-0.9674	0.96350
Pb 220.353	0.2060	ppb	1.1280	547.5	10.5313	0.20604
Sb 206.834	0.6621	ppb	0.8545	129.1	3.5559	0.66209
Se 196.026	0.8836	ppb	4.8990	554.5	-1.0714	0.88357
Sn 189.925	2.5908	ppb	2.3336	90.1	-4.3648	2.59084
Sr 216.596	0.0809	ppb	0.3120	385.8	2.0459	0.08088

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.1217	ppb	0.0212	17.4	31.2125	0.12174
Tl 190.794	0.6591	ppb	0.2010	30.5	-8.2151	0.65908
V 292.401	0.2727	ppb	0.0751	27.5	-6.7551	0.27272
Zn 206.200	0.4342	ppb	1.0328	237.8	0.9805	0.43424

680-110765-a-1-aPDS (Samp) 3/21/2015, 1:54:36 AM

Rack 4, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	90.9256	90.6048	90.8450
Al 308.215	1013.54	1011.89	1012.36
As 188.980	103.078	100.254	103.128
B 249.678	320.798	320.359	322.771
Ba 389.178	188.576	187.257	187.040
Be 313.042	96.8461	96.6765	96.7016
Ca 370.602	17822	17776	17752
Cd 226.502	97.5637	97.0372	96.8294
Co 228.615	96.6989	96.6291	96.4055
Cr 267.716	101.042	100.509	100.652
Cu 324.754	105.605	105.319	105.443
Fe 271.441	9868.42	9858.39	9830.11
K 766.491	14776.2	14724.2	14775.3
Mg 279.078	11130.7	11082.1	11091.4
Mn 257.610	1028.23	1025.60	1025.80
Mo 202.032	98.3358	97.4814	97.5785
Na 330.237	170097x	169609x	169987x
Ni 231.604	98.5875	100.315	98.1764
Pb 220.353	94.0007	96.2188	97.2883
Sb 206.834	88.9243	92.0416	97.0462
Se 196.026	101.185	92.5236	101.599
Sn 189.925	93.8723	100.679	96.1126
Sr 216.596	276.163	274.323	274.544
Ti 334.941	98.6823	98.5306	98.5969
Tl 190.794	20.2503	18.6936	21.1546
V 292.401	101.766	101.759	101.878
Zn 206.200	103.905	100.371	100.784

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	90.7918b	ppb	0.1669	0.2	8138.64
Al 308.215	1012.59b	ppb	0.8525	0.1	7832.75
As 188.980	102.154b	ppb	1.6449	1.6	68.8097
B 249.678	321.309b	ppb	1.2851	0.4	5829.97
Ba 389.178	187.624b	ppb	0.8313	0.4	4257.08
Be 313.042	96.7414b	ppb	0.0915	0.1	186354
Ca 370.602	17784b	ppb	35.52	0.2	59786
Cd 226.502	97.1434b	ppb	0.3785	0.4	4434.87
Co 228.615	96.5778b	ppb	0.1532	0.2	1077.98
Cr 267.716	100.734b	ppb	0.2761	0.3	5477.51
Cu 324.754	105.456b	ppb	0.1432	0.1	8765.68
Fe 271.441	9852.31b	ppb	19.8641	0.2	15581.6
K 766.491	14758.6b	ppb	29.7953	0.2	697069
Mg 279.078	11101.4b	ppb	25.7901	0.2	32242.7
Mn 257.610	1026.55b	ppb	1.4661	0.1	232251
Mo 202.032	97.7986b	ppb	0.4678	0.5	632.541

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	169897xb	ppb	255.678	0.2	8696.08
Ni 231.604	99.0262b	ppb	1.1346	1.1	306.675
Pb 220.353	95.8359b	ppb	1.6769	1.7	161.968
Sb 206.834	92.6707b	ppb	4.0973	4.4	135.554
Se 196.026	98.4360b	ppb	5.1245	5.2	42.4799
Sn 189.925	96.8879b	ppb	3.4689	3.6	65.2113
Sr 216.596	275.010b	ppb	1.0046	0.4	3300.77
Ti 334.941	98.6033b	ppb	0.0760	0.1	28973.5
Tl 190.794	20.0328b	ppb	1.2448	6.2	12.1963
V 292.401	101.801b	ppb	0.0668	0.1	2837.57
Zn 206.200	101.687b	ppb	1.9324	1.9	108.308

680-110765-a-1-b ms (Samp) 3/21/2015, 1:59:23 AM Rack 4, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.5632	22.1836	22.3977
Al 308.215	2138.94	2144.42	2140.98
As 188.980	44.1804	42.1333	41.9619
B 249.678	208.194	208.578	208.452
Ba 389.178	138.707	138.725	138.736
Be 313.042	20.9395	20.9815	20.9279
Ca 370.602	9541	9568	9562
Cd 226.502	21.0905	21.0233	20.9567
Co 228.615	20.3661	20.6017	20.8458
Cr 267.716	43.1112	43.2032	43.0382
Cu 324.754	46.3684	46.6550	46.4317
Fe 271.441	2138.32	2137.06	2130.66
K 766.491	5058.23	5078.99	5060.59
Mg 279.078	3469.37	3467.93	3468.97
Mn 257.610	223.247	224.003	223.301
Mo 202.032	42.4591	41.5668	41.8008
Na 330.237	156540x	155202x	156103x
Ni 231.604	42.4944	42.3193	44.0530
Pb 220.353	203.064	203.192	206.812
Sb 206.834	20.1952	21.8782	23.1802
Se 196.026	41.0016	47.2138	41.4318
Sn 189.925	84.1848	84.6496	83.5915
Sr 216.596	219.358	218.926	217.099
Ti 334.941	41.9097	41.8639	41.7715
Tl 190.794	17.8695	11.9556	13.8265
V 292.401	42.7953	42.8169	42.6015
Zn 206.200	47.3960	46.8129	48.7211

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.3815b	ppb	0.1903	0.9	1987.92
Al 308.215	2141.45b	ppb	2.7691	0.1	16003.6
As 188.980	42.7585b	ppb	1.2343	2.9	24.9699
B 249.678	208.408b	ppb	0.1954	0.1	3820.83
Ba 389.178	138.722b	ppb	0.0145	0.0	3121.78
Be 313.042	20.9496b	ppb	0.0282	0.1	39997.6
Ca 370.602	9557b	ppb	13.99	0.1	32159
Cd 226.502	21.0235b	ppb	0.0669	0.3	979.053
Co 228.615	20.6045b	ppb	0.2399	1.2	223.608

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	43.1175b	ppb	0.0826	0.2	2363.11
Cu 324.754	46.4850b	ppb	0.1505	0.3	4116.34
Fe 271.441	2135.35b	ppb	4.1079	0.2	3378.78
K 766.491	5065.94b	ppb	11.3665	0.2	239465
Mg 279.078	3468.76b	ppb	0.7426	0.0	10092.2
Mn 257.610	223.517b	ppb	0.4220	0.2	50627.0
Mo 202.032	41.9422b	ppb	0.4627	1.1	274.263
Na 330.237	155948xb	ppb	682.468	0.4	7986.87
Ni 231.604	42.9556b	ppb	0.9544	2.2	130.642
Pb 220.353	204.356b	ppb	2.1276	1.0	332.411
Sb 206.834	21.7512b	ppb	1.4966	6.9	33.7350
Se 196.026	43.2158b	ppb	3.4691	8.0	17.7595
Sn 189.925	84.1420b	ppb	0.5303	0.6	55.8095
Sr 216.596	218.461b	ppb	1.1993	0.5	2614.62
Ti 334.941	41.8484b	ppb	0.0704	0.2	12285.2
Tl 190.794	14.5505b	ppb	3.0227	20.8	6.8470
V 292.401	42.7379b	ppb	0.1186	0.3	1182.79
Zn 206.200	47.6433b	ppb	0.9778	2.1	50.9454

680-110765-a-1-c msd (Samp) 3/21/2015, 2:04:10 AM Rack 4, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.5899	22.6384	22.7306
Al 308.215	2142.22	2148.50	2141.37
As 188.980	46.0266	43.2695	42.0259
B 249.678	205.724	206.844	207.515
Ba 389.178	137.419	137.703	137.478
Be 313.042	20.9942	21.0011	20.9532
Ca 370.602	9447	9446	9409
Cd 226.502	21.0485	21.1223	20.8851
Co 228.615	20.7402	21.2506	20.5726
Cr 267.716	43.1097	43.5944	43.0149
Cu 324.754	46.5148	46.7173	46.6689
Fe 271.441	2138.92	2147.07	2134.60
K 766.491	5065.92	5081.48	5079.98
Mg 279.078	3466.73	3465.30	3454.58
Mn 257.610	223.560	223.492	222.760
Mo 202.032	42.6360	41.7224	42.2903
Na 330.237	154918x	154672x	155746x
Ni 231.604	42.9812	43.6476	43.5369
Pb 220.353	208.413	204.758	206.099
Sb 206.834	25.1117	20.0461	19.6909
Se 196.026	43.6704	47.0886	47.6465
Sn 189.925	80.9903	85.0842	82.3690
Sr 216.596	215.378	215.913	217.338
Ti 334.941	41.9963	42.0283	41.9148
Tl 190.794	16.6211	15.0043	14.5990
V 292.401	42.8314	42.9329	42.9493
Zn 206.200	42.5973	45.1858	43.5304

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.6530b	ppb	0.0715	0.3	2012.40
Al 308.215	2144.03b	ppb	3.8931	0.2	16022.4

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	43.7740b	ppb	2.0475	4.7	25.7207
B 249.678	206.695b	ppb	0.9044	0.4	3790.04
Ba 389.178	137.533b	ppb	0.1501	0.1	3094.72
Be 313.042	20.9828b	ppb	0.0259	0.1	40061.9
Ca 370.602	9434b	ppb	21.59	0.2	31745
Cd 226.502	21.0187b	ppb	0.1214	0.6	978.883
Co 228.615	20.8544b	ppb	0.3532	1.7	226.419
Cr 267.716	43.2397b	ppb	0.3108	0.7	2369.67
Cu 324.754	46.6337b	ppb	0.1058	0.2	4128.05
Fe 271.441	2140.20b	ppb	6.3355	0.3	3386.45
K 766.491	5075.79b	ppb	8.5857	0.2	239930
Mg 279.078	3462.20b	ppb	6.6407	0.2	10073.2
Mn 257.610	223.271b	ppb	0.4432	0.2	50571.3
Mo 202.032	42.2162b	ppb	0.4612	1.1	276.022
Na 330.237	155112xb	ppb	562.607	0.4	7944.23
Ni 231.604	43.3886b	ppb	0.3571	0.8	131.998
Pb 220.353	206.423b	ppb	1.8492	0.9	335.669
Sb 206.834	21.6162b	ppb	3.0324	14.0	33.5415
Se 196.026	46.1351b	ppb	2.1527	4.7	19.0535
Sn 189.925	82.8145b	ppb	2.0830	2.5	54.8304
Sr 216.596	216.209b	ppb	1.0135	0.5	2587.68
Ti 334.941	41.9798b	ppb	0.0585	0.1	12323.9
Tl 190.794	15.4081b	ppb	1.0698	6.9	7.7906
V 292.401	42.9045b	ppb	0.0639	0.1	1187.48
Zn 206.200	43.7712b	ppb	1.3110	3.0	46.8461

680-110765-a-2-a (Samp)

3/21/2015, 2:08:57 AM

Rack 4, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1271u	0.0564u	0.1257
Al 308.215	3.5938	3.8136	2.6161
As 188.980	3.6150	-0.1061u	1.0848
B 249.678	140.620	140.786	140.061
Ba 389.178	106.591	107.124	106.296
Be 313.042	0.0173	0.0189	0.0151
Ca 370.602	8725	8742	8716
Cd 226.502	0.0648	-0.0659u	0.0476
Co 228.615	0.5583	0.6062	0.3010
Cr 267.716	-0.0322	0.0444	0.1243
Cu 324.754	2.2867	2.2993	2.3917
Fe 271.441	43.2058	42.6122	45.5482
K 766.491	2666.68	2677.65	2670.08
Mg 279.078	1761.15	1759.43	1760.46
Mn 257.610	5.0832	5.1360	5.1504
Mo 202.032	1.3708	1.6198	0.9243
Na 330.237	154336x	155634x	156032x
Ni 231.604	0.5865	0.5439	-0.0966u
Pb 220.353	-1.6104u	-1.6309u	-0.0023u
Sb 206.834	1.6250	3.8176	-0.9992u
Se 196.026	-5.7285u	-1.6699u	-1.6398u
Sn 189.925	4.2627	2.7850	2.8721
Sr 216.596	204.736	204.748	204.857
Ti 334.941	0.0359	0.0315	0.0241u

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-2.1872u	-1.3488u	0.6897
V 292.401	0.3257	0.2958	0.1318
Zn 206.200	3.4399	4.5656	3.5220

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0184b	ppb	0.1306	711.8	-22.8319
Al 308.215	3.3412b	ppb	0.6374	19.1	501.073
As 188.980	1.5312b	ppb	1.9003	124.1	-5.4832
B 249.678	140.489b	ppb	0.3797	0.3	2606.15
Ba 389.178	106.670b	ppb	0.4198	0.4	2386.94
Be 313.042	0.0171b	ppb	0.0019	11.3	-421.296
Ca 370.602	8728b	ppb	12.91	0.1	29367
Cd 226.502	0.0155b	ppb	0.0710	458.1	25.5371
Co 228.615	0.4885b	ppb	0.1642	33.6	-2.4779
Cr 267.716	0.0455b	ppb	0.0782	171.9	38.2759
Cu 324.754	2.3259b	ppb	0.0573	2.5	636.503
Fe 271.441	43.7887b	ppb	1.5523	3.5	71.1477
K 766.491	2671.47b	ppb	5.6169	0.2	126419
Mg 279.078	1760.35b	ppb	0.8664	0.0	5136.13
Mn 257.610	5.1232b	ppb	0.0354	0.7	1235.04
Mo 202.032	1.3050b	ppb	0.3524	27.0	13.4477
Na 330.237	155334xb	ppb	886.880	0.6	7956.58
Ni 231.604	0.3446b	ppb	0.3827	111.0	-2.9024
Pb 220.353	-1.0812b	ppb	0.9344	86.4	8.5043
Sb 206.834	1.4812b	ppb	2.4116	162.8	4.7138
Se 196.026	-3.0127b	ppb	2.3520	78.1	-2.7969
Sn 189.925	3.3066b	ppb	0.8292	25.1	-3.7906
Sr 216.596	204.780b	ppb	0.0667	0.0	2449.85
Ti 334.941	0.0305b	ppb	0.0059	19.4	-4.5268
Tl 190.794	-0.9488b	ppb	1.4796	155.9	-9.9921
V 292.401	0.2511b	ppb	0.1044	41.6	-8.7502
Zn 206.200	3.8425b	ppb	0.6276	16.3	4.5902

680-110765-a-3-a (Samp) 3/21/2015, 2:13:44 AM Rack 4, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1918u	0.0840u	-0.0280u
Al 308.215	2.0421	0.7921	2.1499
As 188.980	1.4597	1.0155	4.0194
B 249.678	162.092	161.674	162.799
Ba 389.178	115.001	115.999	114.978
Be 313.042	0.0121	0.0060u	0.0124
Ca 370.602	10523	10482	10495
Cd 226.502	-0.0586u	0.0322	-0.0610u
Co 228.615	-0.1817u	0.2559	0.4058
Cr 267.716	0.1006	0.1007	0.1500
Cu 324.754	1.8140	1.9695	2.0124
Fe 271.441	43.1697	44.8082	43.2551
K 766.491	3408.46	3405.85	3404.73
Mg 279.078	1899.88	1890.95	1896.57
Mn 257.610	8.2833	8.2302	8.2357
Mo 202.032	2.8992	2.1415	2.3476
Na 330.237	154986x	155035x	155319x

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	0.7724	0.5138	0.3042
Pb 220.353	4.1937	-5.1029u	0.5128
Sb 206.834	2.3522	-0.2507u	-0.7180u
Se 196.026	-2.3735u	-2.2828u	0.0586
Sn 189.925	-0.8700u	0.9304	-2.6950u
Sr 216.596	237.500	238.218	237.156
Ti 334.941	-0.0016u	-0.0545u	0.0360
Tl 190.794	-2.5777u	-1.4894u	-0.2149u
V 292.401	0.1159	0.1623	0.0557u
Zn 206.200	7.3071	6.5828	7.3344

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0453b	ppb	0.1387	306.5	-29.7246
Al 308.215	1.6614b	ppb	0.7547	45.4	488.924
As 188.980	2.1649b	ppb	1.6214	74.9	-5.0151
B 249.678	162.188b	ppb	0.5689	0.4	2995.79
Ba 389.178	115.326b	ppb	0.5830	0.5	2584.19
Be 313.042	0.0102b	ppb	0.0036	35.8	-434.237
Ca 370.602	10500b	ppb	20.82	0.2	35328
Cd 226.502	-0.0291b	ppb	0.0531	182.6	23.5497
Co 228.615	0.1600b	ppb	0.3053	190.8	-6.2014
Cr 267.716	0.1171b	ppb	0.0285	24.3	42.1467
Cu 324.754	1.9320b	ppb	0.1044	5.4	605.530
Fe 271.441	43.7443b	ppb	0.9223	2.1	71.0449
K 766.491	3406.35b	ppb	1.9128	0.1	161113
Mg 279.078	1895.80b	ppb	4.5142	0.2	5529.47
Mn 257.610	8.2497b	ppb	0.0292	0.4	1942.98
Mo 202.032	2.4628b	ppb	0.3917	15.9	20.8825
Na 330.237	155113xb	ppb	180.107	0.1	7945.28
Ni 231.604	0.5301b	ppb	0.2346	44.2	-2.3206
Pb 220.353	-0.1321b	ppb	4.6817	3543.4	9.9993
Sb 206.834	0.4612b	ppb	1.6543	358.7	3.2281
Se 196.026	-1.5326b	ppb	1.3787	90.0	-2.1402
Sn 189.925	-0.8782b	ppb	1.8127	206.4	-6.8762
Sr 216.596	237.624b	ppb	0.5419	0.2	2842.73
Ti 334.941	-0.0067b	ppb	0.0455	681.3	-15.1626
Tl 190.794	-1.4273b	ppb	1.1826	82.9	-10.5229
V 292.401	0.1113b	ppb	0.0534	48.0	-12.9587
Zn 206.200	7.0748b	ppb	0.4263	6.0	8.0118

680-110765-a-4-a (Samp)

3/21/2015, 2:18:31 AM

Rack 4, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0479u	0.0318u	0.1473
Al 308.215	3.8969	4.0924	3.9286
As 188.980	0.7139	5.3981	-1.2664u
B 249.678	251.565	252.925	251.575
Ba 389.178	92.5776	92.6126	91.9898
Be 313.042	0.0142	0.0116	0.0134
Ca 370.602	7366	7375	7323
Cd 226.502	-0.1331u	-0.0225u	0.0169u
Co 228.615	0.5558	0.5088	0.2326
Cr 267.716	0.0603	0.1191	0.0353

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	3.3650	3.4466	3.3134
Fe 271.441	44.3774	47.6296	41.6478
K 766.491	2965.60	2968.26	2960.68
Mg 279.078	1341.87	1341.85	1338.02
Mn 257.610	3.4082	3.4068	3.4335
Mo 202.032	2.4502	2.8264	2.4506
Na 330.237	199250x	198170x	197414x
Ni 231.604	1.6020	0.0408	0.5346
Pb 220.353	-0.6809u	-0.4620u	0.3683
Sb 206.834	1.9776	-1.2625u	0.5973
Se 196.026	-1.6044u	-6.8277u	-4.9477u
Sn 189.925	0.2170	1.1635	2.1172
Sr 216.596	176.255	175.736	176.038
Ti 334.941	0.0525	-0.0240u	0.0521
Tl 190.794	-1.4905u	-1.9251u	-2.3317u
V 292.401	0.2452	0.1457	-0.0276u
Zn 206.200	9.5230	9.0892	9.1867

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0756b	ppb	0.0625	82.7	-16.6333
Al 308.215	3.9726b	ppb	0.1049	2.6	505.672
As 188.980	1.6152b	ppb	3.4224	211.9	-5.4215
B 249.678	252.022b	ppb	0.7819	0.3	4608.85
Ba 389.178	92.3933b	ppb	0.3499	0.4	2061.21
Be 313.042	0.0131b	ppb	0.0013	10.2	-434.589
Ca 370.602	7355b	ppb	27.75	0.4	24750
Cd 226.502	-0.0462b	ppb	0.0777	168.3	22.5010
Co 228.615	0.4324b	ppb	0.1747	40.4	-3.1408
Cr 267.716	0.0715b	ppb	0.0430	60.1	40.4836
Cu 324.754	3.3750b	ppb	0.0672	2.0	719.176
Fe 271.441	44.5516b	ppb	2.9947	6.7	72.3544
K 766.491	2964.84b	ppb	3.8436	0.1	140269
Mg 279.078	1340.58b	ppb	2.2184	0.2	3917.04
Mn 257.610	3.4161b	ppb	0.0150	0.4	845.545
Mo 202.032	2.5757b	ppb	0.2171	8.4	21.6077
Na 330.237	198278xb	ppb	923.083	0.5	10147.9
Ni 231.604	0.7258b	ppb	0.7980	109.9	-1.7088
Pb 220.353	-0.2582b	ppb	0.5535	214.3	9.7994
Sb 206.834	0.4374b	ppb	1.6259	371.7	3.1935
Se 196.026	-4.4599b	ppb	2.6456	59.3	-3.4388
Sn 189.925	1.1659b	ppb	0.9501	81.5	-5.3562
Sr 216.596	176.010b	ppb	0.2606	0.1	2105.74
Ti 334.941	0.0269b	ppb	0.0441	164.1	-9.6495
Tl 190.794	-1.9158b	ppb	0.4207	22.0	-11.0626
V 292.401	0.1211b	ppb	0.1381	114.0	-13.0253
Zn 206.200	9.2663b	ppb	0.2276	2.5	10.3318

680-110765-a-5-a (Samp)

3/21/2015, 2:23:18 AM

Rack 4, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0009u	-0.0412u	-0.1312u
Al 308.215	1.5139	2.2680	3.2661
As 188.980	-0.8387u	-1.8429u	2.2729

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	105.657	105.053	104.971
Ba 389.178	135.131	134.881	134.263
Be 313.042	0.0108	0.0095	0.0094
Ca 370.602	13381	13387	13400
Cd 226.502	-0.1198u	-0.0624u	-0.1571u
Co 228.615	0.2670	0.1773	-0.2099u
Cr 267.716	-0.0132	0.0301	0.0118
Cu 324.754	2.5604	2.5186	2.4323
Fe 271.441	45.6656	46.8557	45.7435
K 766.491	3107.25	3095.83	3085.80
Mg 279.078	2806.59	2805.97	2804.24
Mn 257.610	7.9833	8.0679	8.0566
Mo 202.032	0.2107	0.9920	0.2962
Na 330.237	137820x	138281x	137523x
Ni 231.604	0.2577	0.6947	0.0263
Pb 220.353	0.7455	-2.4655u	-1.5122u
Sb 206.834	-0.4479u	-0.5708u	1.1307
Se 196.026	8.8403	-3.5194u	-0.0158u
Sn 189.925	0.6728	0.2484	1.4146
Sr 216.596	306.996	306.681	307.355
Ti 334.941	0.0194u	0.0269	-0.0143u
Tl 190.794	-0.7217u	-4.3037u	0.3530
V 292.401	-0.1277u	0.3311	0.0772
Zn 206.200	5.5066	4.7110	6.5987

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0571b	ppb	0.0675	118.1	-33.3004
Al 308.215	2.3493b	ppb	0.8789	37.4	493.857
As 188.980	-0.1362b	ppb	2.1459	1575.2	-6.7158
B 249.678	105.227b	ppb	0.3745	0.4	1972.97
Ba 389.178	134.758b	ppb	0.4469	0.3	3028.25
Be 313.042	0.0099b	ppb	0.0008	7.9	-431.498
Ca 370.602	13389b	ppb	9.407	0.1	45045
Cd 226.502	-0.1131b	ppb	0.0477	42.2	19.9152
Co 228.615	0.0782b	ppb	0.2534	324.3	-7.0695
Cr 267.716	0.0096b	ppb	0.0217	227.3	36.0217
Cu 324.754	2.5037b	ppb	0.0654	2.6	650.478
Fe 271.441	46.0882b	ppb	0.6658	1.4	74.7667
K 766.491	3096.30b	ppb	10.7328	0.3	146475
Mg 279.078	2805.60b	ppb	1.2198	0.0	8171.82
Mn 257.610	8.0360b	ppb	0.0460	0.6	1902.05
Mo 202.032	0.4996b	ppb	0.4286	85.8	8.2762
Na 330.237	137875xb	ppb	381.732	0.3	7065.61
Ni 231.604	0.3262b	ppb	0.3394	104.0	-2.9594
Pb 220.353	-1.0774b	ppb	1.6491	153.1	8.5123
Sb 206.834	0.0373b	ppb	0.9489	2540.9	2.6535
Se 196.026	1.7684b	ppb	6.3700	360.2	-0.6771
Sn 189.925	0.7786b	ppb	0.5903	75.8	-5.6597
Sr 216.596	307.011b	ppb	0.3371	0.1	3672.45
Ti 334.941	0.0107b	ppb	0.0219	205.7	-7.1252
Tl 190.794	-1.5574b	ppb	2.4382	156.6	-10.6593
V 292.401	0.0935b	ppb	0.2298	245.8	-12.9053
Zn 206.200	5.6054b	ppb	0.9477	16.9	6.4566

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110765-a-6-a (Samp) 3/21/2015, 2:28:05 AM Rack 4, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0264u	-0.0234u	-0.0333u
Al 308.215	5.6306	2.5912	4.6485
As 188.980	1.8459	2.1111	-0.7531u
B 249.678	254.591	255.852	256.164
Ba 389.178	91.8753	92.2777	91.5868
Be 313.042	0.0191	0.0170	0.0180
Ca 370.602	7244	7242	7230
Cd 226.502	-0.0417u	-0.1656u	-0.0788u
Co 228.615	-0.4152u	0.1127	-0.0804u
Cr 267.716	0.1039	0.0234	0.1732
Cu 324.754	4.1250	4.2248	4.3649
Fe 271.441	34.9869	29.1496	28.0769
K 766.491	2941.13	2946.13	2951.10
Mg 279.078	1288.38	1287.79	1287.01
Mn 257.610	1.9716	1.9685	1.9796
Mo 202.032	1.9083	2.5381	2.3019
Na 330.237	198216x	199225x	199623x
Ni 231.604	0.7961	1.2262	1.1391
Pb 220.353	-3.0598u	-1.1895u	-1.0366u
Sb 206.834	0.7121	2.6374	-0.3072u
Se 196.026	-4.8646u	-8.0003u	-4.3943u
Sn 189.925	-1.1112u	1.6066	0.3013
Sr 216.596	173.524	173.602	172.182
Ti 334.941	0.0375u	-0.0266u	0.0212u
Tl 190.794	-3.4857u	-2.9374u	-2.2853u
V 292.401	0.4411	0.2162	-0.0799u
Zn 206.200	5.9592	6.3153	6.6991

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0101b	ppb	0.0320	318.1	-24.2490
Al 308.215	4.2901b	ppb	1.5511	36.2	507.973
As 188.980	1.0680b	ppb	1.5827	148.2	-5.8259
B 249.678	255.536b	ppb	0.8325	0.3	4671.98
Ba 389.178	91.9133b	ppb	0.3470	0.4	2050.17
Be 313.042	0.0180b	ppb	0.0010	5.7	-425.069
Ca 370.602	7239b	ppb	7.576	0.1	24359
Cd 226.502	-0.0954b	ppb	0.0636	66.7	20.2138
Co 228.615	-0.1276b	ppb	0.2671	209.3	-9.4304
Cr 267.716	0.1002b	ppb	0.0749	74.8	42.0355
Cu 324.754	4.2382b	ppb	0.1205	2.8	787.144
Fe 271.441	30.7378b	ppb	3.7187	12.1	50.4752
K 766.491	2946.12b	ppb	4.9836	0.2	139385
Mg 279.078	1287.73b	ppb	0.6855	0.1	3763.57
Mn 257.610	1.9732b	ppb	0.0057	0.3	518.885
Mo 202.032	2.2495b	ppb	0.3181	14.1	19.5133
Na 330.237	199022xb	ppb	725.291	0.4	10185.9
Ni 231.604	1.0538b	ppb	0.2274	21.6	-0.6819
Pb 220.353	-1.7620b	ppb	1.1266	63.9	7.4285
Sb 206.834	1.0141b	ppb	1.4953	147.5	4.0258
Se 196.026	-5.7531b	ppb	1.9603	34.1	-4.0123
Sn 189.925	0.2655b	ppb	1.3593	511.9	-6.0197
Sr 216.596	173.103b	ppb	0.7985	0.5	2070.97

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0107b	ppb	0.0333	311.6	-14.5746
Tl 190.794	-2.9028b	ppb	0.6009	20.7	-12.1487
V 292.401	0.1925b	ppb	0.2613	135.8	-10.9607
Zn 206.200	6.3245b	ppb	0.3700	5.9	7.2171

680-110765-a-7-a (Samp) 3/21/2015, 2:32:52 AM Rack 4, Tube 23

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1249	-0.0162u	0.0946u
Al 308.215	2.9714	2.7233	3.9759
As 188.980	0.3154	-0.4041u	1.2162
B 249.678	165.403	166.307	166.205
Ba 389.178	115.103	115.301	115.775
Be 313.042	0.0069u	0.0087	0.0052u
Ca 370.602	10741	10746	10750
Cd 226.502	-0.1288u	0.0987	-0.0370u
Co 228.615	0.1728	0.2221	0.1015
Cr 267.716	0.1626	0.0688	0.2095
Cu 324.754	3.1249	3.0831	3.0064
Fe 271.441	36.9632	42.9481	36.2237
K 766.491	3466.54	3480.34	3472.92
Mg 279.078	1879.02	1879.17	1876.68
Mn 257.610	6.4715	6.5018	6.4716
Mo 202.032	2.3201	2.1820	1.7987
Na 330.237	158429x	159401x	157377x
Ni 231.604	0.2515	0.7911	0.2010
Pb 220.353	-0.6150u	-2.8557u	0.3505
Sb 206.834	1.0640	0.2254	-1.0735u
Se 196.026	-1.0302u	-4.4508u	-1.0349u
Sn 189.925	-0.5874u	-1.8893u	1.7750
Sr 216.596	241.200	239.604	240.263
Ti 334.941	0.0135u	0.0137u	0.0448
Tl 190.794	-1.1659u	-0.2080u	-1.9801u
V 292.401	0.1301	0.1975	0.0175u
Zn 206.200	4.1739	4.0981	7.6676

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0678b	ppb	0.0743	109.6	-19.6433
Al 308.215	3.2236b	ppb	0.6633	20.6	500.237
As 188.980	0.3758b	ppb	0.8118	216.0	-6.3377
B 249.678	165.972b	ppb	0.4954	0.3	3063.72
Ba 389.178	115.393b	ppb	0.3453	0.3	2585.67
Be 313.042	0.0069b	ppb	0.0018	25.8	-440.751
Ca 370.602	10746b	ppb	4.464	0.0	36154
Cd 226.502	-0.0224b	ppb	0.1145	511.5	23.7937
Co 228.615	0.1655b	ppb	0.0606	36.6	-6.1281
Cr 267.716	0.1470b	ppb	0.0717	48.8	43.8158
Cu 324.754	3.0715b	ppb	0.0601	2.0	695.251
Fe 271.441	38.7117b	ppb	3.6874	9.5	63.1024
K 766.491	3473.27b	ppb	6.9063	0.2	164273
Mg 279.078	1878.29b	ppb	1.3973	0.1	5478.65
Mn 257.610	6.4816b	ppb	0.0175	0.3	1543.09
Mo 202.032	2.1003b	ppb	0.2702	12.9	18.5551

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	158402xb	ppb	1012.24	0.6	8113.12
Ni 231.604	0.4145b	ppb	0.3271	78.9	-2.6834
Pb 220.353	-1.0401b	ppb	1.6448	158.1	8.5680
Sb 206.834	0.0720b	ppb	1.0769	1496.3	2.6771
Se 196.026	-2.1720b	ppb	1.9735	90.9	-2.4240
Sn 189.925	-0.2339b	ppb	1.8576	794.2	-6.4000
Sr 216.596	240.356b	ppb	0.8021	0.3	2875.42
Ti 334.941	0.0240b	ppb	0.0180	75.2	-6.4766
Tl 190.794	-1.1180b	ppb	0.8870	79.3	-10.1804
V 292.401	0.1150b	ppb	0.0909	79.0	-12.7923
Zn 206.200	5.3132b	ppb	2.0393	38.4	6.1467

680-110765-a-8-a (Samp) 3/21/2015, 2:37:39 AM Rack 4, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0934	0.0175u	0.1001
Al 308.215	5.7292	5.3798	2.8350
As 188.980	1.6346	0.6950	2.7981
B 249.678	246.960	246.225	248.742
Ba 389.178	90.0967	89.3920	90.2516
Be 313.042	0.0137	0.0108	0.0112
Ca 370.602	7142	7126	7116
Cd 226.502	-0.0619u	-0.0720u	0.0081u
Co 228.615	0.7289	0.2615	-0.0111u
Cr 267.716	0.1186	0.0510	0.1899
Cu 324.754	6.4908	6.4425	6.3926
Fe 271.441	31.7654	29.2502	32.0225
K 766.491	2862.13	2857.81	2858.14
Mg 279.078	1271.53	1271.45	1276.70
Mn 257.610	2.1488	2.1278	2.1461
Mo 202.032	2.6187	2.4528	1.9157
Na 330.237	192343x	193308x	192428x
Ni 231.604	0.2236	-0.2697u	0.3706
Pb 220.353	-2.8397u	-0.6685u	-0.0129u
Sb 206.834	0.6538	0.5613	-0.2556u
Se 196.026	-0.9223u	2.1429	6.5478
Sn 189.925	-0.7728u	2.6161	-1.8242u
Sr 216.596	169.309	169.245	169.509
Ti 334.941	0.0197u	0.0333u	0.0138u
Tl 190.794	1.6681	-1.2460u	1.5086
V 292.401	0.0863	0.0517u	0.3252
Zn 206.200	10.3467	7.1388	8.5978

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0703b	ppb	0.0459	65.3	-16.8845
Al 308.215	4.6480b	ppb	1.5798	34.0	510.567
As 188.980	1.7092b	ppb	1.0535	61.6	-5.3519
B 249.678	247.309b	ppb	1.2940	0.5	4524.25
Ba 389.178	89.9134b	ppb	0.4582	0.5	2004.63
Be 313.042	0.0119b	ppb	0.0016	13.2	-436.250
Ca 370.602	7128b	ppb	13.20	0.2	23986
Cd 226.502	-0.0419b	ppb	0.0436	103.9	22.6529
Co 228.615	0.3264b	ppb	0.3742	114.7	-4.3310

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1198b	ppb	0.0694	57.9	42.9778
Cu 324.754	6.4420b	ppb	0.0491	0.8	960.708
Fe 271.441	31.0127b	ppb	1.5318	4.9	50.9583
K 766.491	2859.36b	ppb	2.4063	0.1	135289
Mg 279.078	1273.23b	ppb	3.0072	0.2	3721.45
Mn 257.610	2.1409b	ppb	0.0115	0.5	556.703
Mo 202.032	2.3291b	ppb	0.3675	15.8	20.0246
Na 330.237	192693xb	ppb	533.907	0.3	9862.94
Ni 231.604	0.1082b	ppb	0.3354	310.0	-3.6435
Pb 220.353	-1.1737b	ppb	1.4796	126.1	8.3555
Sb 206.834	0.3198b	ppb	0.5005	156.5	3.0267
Se 196.026	2.5894b	ppb	3.7550	145.0	-0.3146
Sn 189.925	0.0064b	ppb	2.3204	36488.0	-6.2127
Sr 216.596	169.355b	ppb	0.1378	0.1	2026.19
Ti 334.941	0.0222b	ppb	0.0100	45.0	-10.7227
Tl 190.794	0.6436b	ppb	1.6384	254.6	-8.2422
V 292.401	0.1544b	ppb	0.1490	96.5	-12.0229
Zn 206.200	8.6944b	ppb	1.6061	18.5	9.7259

Cont Calib Verif (CCV) 3/21/2015, 2:42:26 AM Rack 4, Tube 25
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	495.670	495.049	493.650
Al 308.215	4872.15	4869.40	4883.61
As 188.980	495.090	486.142	493.960
B 249.678	491.287	492.337	494.628
Ba 389.178	4873.16	4867.18	4878.63
Be 313.042	488.969	489.199	489.904
Ca 370.602	4943	4934	4952
Cd 226.502	493.233	493.087	493.800
Co 228.615	498.757	495.328	495.756
Cr 267.716	4998.24	4987.78	5001.03
Cu 324.754	5130.73	5153.50	5190.40
Fe 271.441	4900.60	4896.05	4890.10
K 766.491	10655.0	10707.7	10692.4
Mg 279.078	4918.94	4905.09	4926.47
Mn 257.610	5002.91	4989.65	5002.57
Mo 202.032	488.891	487.257	488.951
Na 330.237	7543.33	7672.25	7292.58
Ni 231.604	2503.55	2492.94	2498.78
Pb 220.353	492.566	487.871	492.526
Sb 206.834	991.552	989.411	985.606
Se 196.026	5002.37	5010.18	5018.55
Sn 189.925	4903.53	4859.28	4835.91
Sr 216.596	2417.66	2406.46	2410.92
Ti 334.941	485.541	485.095	485.465
Tl 190.794	5020.74	4991.10	5010.75
V 292.401	4908.47	4913.56	4916.25
Zn 206.200	2440.14	2420.80	2433.07

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	494.790	ppb	1.0350	0.2	44414.7	98.95792
Al 308.215	4875.05	ppb	7.5394	0.2	36520.9	97.50109

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	491.730	ppb	4.8729	1.0	356.755	98.34610
B 249.678	492.751	ppb	1.7086	0.3	8935.07	98.55010
Ba 389.178	4872.99	ppb	5.7226	0.1	110860	97.45979
Be 313.042	489.357	ppb	0.4875	0.1	944764	97.87149
Ca 370.602	4943	ppb	9.220	0.2	17030	98.85764
Cd 226.502	493.373	ppb	0.3768	0.1	22167.2	98.67464
Co 228.615	496.614	ppb	1.8688	0.4	5579.95	99.32274
Cr 267.716	4995.68	ppb	6.9844	0.1	269473	99.91362
Cu 324.754	5158.21	ppb	30.1143	0.6	406636	103.16418
Fe 271.441	4895.58	ppb	5.2638	0.1	7836.53	97.91166
K 766.491	10685.1	ppb	27.0913	0.3	504752	106.85059
Mg 279.078	4916.83	ppb	10.8427	0.2	14191.6	98.33666
Mn 257.610	4998.38	ppb	7.5589	0.2	1130090	99.96757
Mo 202.032	488.367	ppb	0.9617	0.2	3135.84	97.67330
Na 330.237	7502.72	ppb	193.069	2.6	382.413	100.03628
Ni 231.604	2498.42	ppb	5.3114	0.2	7817.71	99.93687
Pb 220.353	490.988	ppb	2.6988	0.5	788.307	98.19752
Sb 206.834	988.856	ppb	3.0116	0.3	1480.17	98.88564
Se 196.026	5010.37	ppb	8.0932	0.2	2220.43	100.20731
Sn 189.925	4866.24	ppb	34.3442	0.7	3581.61	97.32484
Sr 216.596	2411.68	ppb	5.6421	0.2	28736.4	96.46719
Ti 334.941	485.367	ppb	0.2384	0.0	142608	97.07338
Tl 190.794	5007.53	ppb	15.0781	0.3	5515.83	100.15061
V 292.401	4912.76	ppb	3.9515	0.1	138710	98.25523
Zn 206.200	2431.33	ppb	9.7881	0.4	2564.70	97.25336

Cont Calib Blank (CCB)

3/21/2015, 2:47:14 AM

Rack 4, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0853	-0.1405u	0.3586
Al 308.215	-2.2705u	-4.7104u	-4.3356u
As 188.980	-2.5825u	0.6353	1.5120
B 249.678	5.6012	4.8067	3.9225
Ba 389.178	-0.1957u	0.3506	0.2984
Be 313.042	0.0111	0.0180	0.0190
Ca 370.602	7.220	2.957	3.669
Cd 226.502	0.2135	-0.0601u	0.0748
Co 228.615	0.1340	0.0787	0.0295
Cr 267.716	0.1724	0.0236	0.0211
Cu 324.754	-0.0591u	-0.2354u	-0.1131u
Fe 271.441	4.8677	7.8491	6.4793
K 766.491	-0.1734u	-0.2420u	-0.4184u
Mg 279.078	-0.4730u	0.1211	-1.3057u
Mn 257.610	0.1242	0.1368	0.0775
Mo 202.032	0.1795	0.4427	0.4986
Na 330.237	175.794	47.4186	83.6265
Ni 231.604	0.3001	-0.1188u	0.5632
Pb 220.353	-1.5186u	-1.0051u	-1.5007u
Sb 206.834	0.5906	-0.5934u	-0.8831u
Se 196.026	0.8166	-3.0606u	5.9829
Sn 189.925	1.4144	0.6619	1.0365
Sr 216.596	0.3739	0.4075	0.4591
Ti 334.941	0.0628	0.0561	0.0754

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	-0.2847u	1.7438	-3.3355u
V 292.401	0.3325	0.2144	0.2784
Zn 206.200	-0.9460u	1.7471	0.9241

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1011	ppb	0.2499	247.1	-8.0071	0.10111
Al 308.215	-3.7722	ppb	1.3139	34.8	449.512	-3.77219
As 188.980	-0.1451	ppb	2.1559	1486.0	-6.7220	-0.14508
B 249.678	4.7768	ppb	0.8398	17.6	169.352	4.77677
Ba 389.178	0.1511	ppb	0.3015	199.5	-40.4767	0.15112
Be 313.042	0.0160	ppb	0.0043	27.0	-408.606	0.01603
Ca 370.602	4.615	ppb	2.283	49.5	31.14	4.61516
Cd 226.502	0.0761	ppb	0.1368	179.9	28.9974	0.07605
Co 228.615	0.0807	ppb	0.0523	64.8	-7.0410	0.08074
Cr 267.716	0.0724	ppb	0.0866	119.7	36.7296	0.07239
Cu 324.754	-0.1359	ppb	0.0904	66.5	442.566	-0.13589
Fe 271.441	6.3987	ppb	1.4923	23.3	12.0395	6.39867
K 766.491	-0.2779	ppb	0.1264	45.5	281.651	-0.27793
Mg 279.078	-0.5525	ppb	0.7167	129.7	22.0439	-0.55254
Mn 257.610	0.1128	ppb	0.0313	27.7	88.8376	0.11283
Mo 202.032	0.3736	ppb	0.1704	45.6	7.4685	0.37358
Na 330.237	102.280	ppb	66.1890	64.7	35.2364	102.27951
Ni 231.604	0.2482	ppb	0.3440	138.6	-3.2070	0.24818
Pb 220.353	-1.3415	ppb	0.2914	21.7	8.0919	-1.34146
Sb 206.834	-0.2953	ppb	0.7808	264.4	2.1766	-0.29531
Se 196.026	1.2463	ppb	4.5371	364.0	-0.9106	1.24631
Sn 189.925	1.0376	ppb	0.3763	36.3	-5.5100	1.03759
Sr 216.596	0.4135	ppb	0.0430	10.4	6.0377	0.41351
Ti 334.941	0.0648	ppb	0.0098	15.1	14.4700	0.06478
Tl 190.794	-0.6255	ppb	2.5567	408.8	-9.6302	-0.62547
V 292.401	0.2751	ppb	0.0591	21.5	-6.6970	0.27509
Zn 206.200	0.5751	ppb	1.3800	240.0	1.1300	0.57507

680-110765-a-9-a (Samp)

3/21/2015, 2:52:01 AM

Rack 4, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0245u	0.0012u	0.0850u
Al 308.215	3.3999	3.2406	1.6285
As 188.980	-0.0576u	-2.3359u	1.3485
B 249.678	107.739	108.465	108.555
Ba 389.178	107.643	108.071	107.948
Be 313.042	0.0127	0.0158	0.0181
Ca 370.602	9842	9839	9797
Cd 226.502	0.0789	-0.0179u	0.0198
Co 228.615	0.2613	0.0321	-0.6172u
Cr 267.716	0.1005	0.0888	0.1565
Cu 324.754	13.3776	13.4583	13.4161
Fe 271.441	32.5743	32.1370	34.8940
K 766.491	4023.02	4025.07	4037.72
Mg 279.078	1235.77	1238.78	1235.64
Mn 257.610	3.1926	3.1900	3.2061
Mo 202.032	2.0444	1.7036	1.3628
Na 330.237	154320x	154353x	153669x

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	0.0603	0.6526	0.3351
Pb 220.353	0.4502	-0.3470u	-0.2623u
Sb 206.834	1.2998	-0.0356u	0.4511
Se 196.026	7.9261	5.7640	-3.8536u
Sn 189.925	-1.2859u	0.4852	1.4539
Sr 216.596	216.066	214.273	214.694
Ti 334.941	0.0554	0.0191u	0.0577
Tl 190.794	-0.2961u	-3.1677u	-1.0021u
V 292.401	0.0626	0.0560	0.3643
Zn 206.200	3.3451	4.3069	4.1711

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0205b	ppb	0.0573	278.8	-22.9801
Al 308.215	2.7563b	ppb	0.9799	35.6	496.839
As 188.980	-0.3483b	ppb	1.8593	533.8	-6.8729
B 249.678	108.253b	ppb	0.4472	0.4	2027.35
Ba 389.178	107.887b	ppb	0.2202	0.2	2413.52
Be 313.042	0.0156b	ppb	0.0027	17.4	-423.888
Ca 370.602	9826b	ppb	25.10	0.3	33060
Cd 226.502	0.0269b	ppb	0.0488	181.1	25.9861
Co 228.615	-0.1079b	ppb	0.4557	422.2	-9.1910
Cr 267.716	0.1153b	ppb	0.0362	31.4	42.0072
Cu 324.754	13.4173b	ppb	0.0404	0.3	1510.02
Fe 271.441	33.2017b	ppb	1.4817	4.5	54.3686
K 766.491	4028.60b	ppb	7.9639	0.2	190491
Mg 279.078	1236.73b	ppb	1.7772	0.1	3615.43
Mn 257.610	3.1963b	ppb	0.0087	0.3	795.220
Mo 202.032	1.7036b	ppb	0.3408	20.0	16.0081
Na 330.237	154114xb	ppb	386.118	0.3	7894.31
Ni 231.604	0.3493b	ppb	0.2964	84.9	-2.8874
Pb 220.353	-0.0531b	ppb	0.4379	825.2	10.1233
Sb 206.834	0.5718b	ppb	0.6758	118.2	3.4013
Se 196.026	3.2788b	ppb	6.2707	191.2	-0.0089
Sn 189.925	0.2177b	ppb	1.3893	638.1	-6.0683
Sr 216.596	215.011b	ppb	0.9375	0.4	2572.40
Ti 334.941	0.0441b	ppb	0.0217	49.2	-1.3951
Tl 190.794	-1.4887b	ppb	1.4964	100.5	-10.5887
V 292.401	0.1609b	ppb	0.1761	109.4	-11.3794
Zn 206.200	3.9410b	ppb	0.5206	13.2	4.6940

680-110765-a-10-a (Samp)

3/21/2015, 2:56:48 AM

Rack 4, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0274u	0.1528	-0.1409u
Al 308.215	3.0669	2.5044	4.0630
As 188.980	-1.8621u	1.4710	1.1794
B 249.678	95.5447	95.8484	95.7705
Ba 389.178	68.4898	68.6692	68.0677
Be 313.042	0.0106	0.0126	0.0229
Ca 370.602	6238	6226	6254
Cd 226.502	0.0397	0.0288	-0.1618u
Co 228.615	0.0699	-0.2067u	0.1083
Cr 267.716	0.2193	0.2700	0.2333

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	14.5399	14.5497	14.6179
Fe 271.441	17.9850	9.7162	12.1458
K 766.491	2570.78	2554.83	2551.04
Mg 279.078	729.049	725.315	729.786
Mn 257.610	0.6747	0.6654	0.6813
Mo 202.032	0.8559	0.8540	0.9929
Na 330.237	155474x	154315x	153690x
Ni 231.604	0.8908	1.8208	1.8551
Pb 220.353	-1.5762u	-0.2107u	-0.6338u
Sb 206.834	-0.0524u	1.0920	1.1440
Se 196.026	2.1502	4.2316	-10.0502u
Sn 189.925	0.8398	1.7455	2.1446
Sr 216.596	140.160	139.361	139.613
Ti 334.941	0.0389	0.0155u	-0.0311u
Tl 190.794	-2.3818u	4.1278	-1.8076u
V 292.401	0.0723	-0.0360u	0.4662
Zn 206.200	3.3123	4.6830	3.2001

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0052b	ppb	0.1481	2871.4	-22.5901
Al 308.215	3.2114b	ppb	0.7893	24.6	500.115
As 188.980	0.2628b	ppb	1.8459	702.5	-6.4207
B 249.678	95.7212b	ppb	0.1577	0.2	1802.37
Ba 389.178	68.4089b	ppb	0.3088	0.5	1514.16
Be 313.042	0.0154b	ppb	0.0066	43.0	-425.326
Ca 370.602	6239b	ppb	14.37	0.2	20999
Cd 226.502	-0.0311b	ppb	0.1133	364.3	23.2654
Co 228.615	-0.0095b	ppb	0.1718	1809.4	-8.0710
Cr 267.716	0.2408b	ppb	0.0262	10.9	48.7555
Cu 324.754	14.5692b	ppb	0.0425	0.3	1600.70
Fe 271.441	13.2823b	ppb	4.2499	32.0	22.9188
K 766.491	2558.88b	ppb	10.4766	0.4	121103
Mg 279.078	728.050b	ppb	2.3970	0.3	2138.12
Mn 257.610	0.6738b	ppb	0.0080	1.2	220.798
Mo 202.032	0.9009b	ppb	0.0796	8.8	10.8548
Na 330.237	154493xb	ppb	905.105	0.6	7913.66
Ni 231.604	1.5222b	ppb	0.5471	35.9	0.7826
Pb 220.353	-0.8069b	ppb	0.6990	86.6	8.9343
Sb 206.834	0.7279b	ppb	0.6762	92.9	3.6379
Se 196.026	-1.2228b	ppb	7.7153	631.0	-2.0048
Sn 189.925	1.5766b	ppb	0.6686	42.4	-5.0664
Sr 216.596	139.711b	ppb	0.4088	0.3	1671.82
Ti 334.941	0.0078b	ppb	0.0356	458.4	-12.9516
Tl 190.794	-0.0205b	ppb	3.6040	17574.7	-8.9671
V 292.401	0.1675b	ppb	0.2643	157.8	-11.0647
Zn 206.200	3.7318b	ppb	0.8257	22.1	4.4716

680-110765-a-11-a (Samp) 3/21/2015, 3:01:35 AM Rack 4, Tube 29

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0826u	0.0536	0.1127
Al 308.215	3.6776	3.2693	4.8514
As 188.980	-0.7659u	0.1938	-2.1723u

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	93.7045	94.3024	94.1141
Ba 389.178	59.0190	58.5494	58.7773
Be 313.042	0.0177	0.0079u	0.0105
Ca 370.602	6082	6102	6068
Cd 226.502	-0.1145u	0.0651	0.0351
Co 228.615	0.0836	0.0440	0.3645
Cr 267.716	0.2891	-0.2093u	0.0990
Cu 324.754	25.2698	25.2344	25.4368
Fe 271.441	14.5623	9.5205	14.3324
K 766.491	2494.19	2501.47	2510.88
Mg 279.078	578.232	588.274	588.184
Mn 257.610	0.9106	0.9180	0.9524
Mo 202.032	1.1182	1.3212	0.8675
Na 330.237	154170x	154737x	154569x
Ni 231.604	1.3003	0.5551	0.8976
Pb 220.353	0.5063	-0.1105u	3.5565
Sb 206.834	-0.0038u	1.9138	-1.7157u
Se 196.026	6.6908	-0.8214u	0.9188
Sn 189.925	1.3098	-0.7245u	2.0064
Sr 216.596	125.995	127.425	126.628
Ti 334.941	0.0300u	0.0642	0.0248u
Tl 190.794	-0.0224u	-4.3491u	0.6767
V 292.401	-0.0992u	0.2736	0.1280
Zn 206.200	10.5880	11.7163	8.5879

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0279b	ppb	0.1002	358.9	-19.1509
Al 308.215	3.9328b	ppb	0.8213	20.9	505.341
As 188.980	-0.9148b	ppb	1.1901	130.1	-7.2914
B 249.678	94.0403b	ppb	0.3057	0.3	1772.17
Ba 389.178	58.7819b	ppb	0.2348	0.4	1294.81
Be 313.042	0.0120b	ppb	0.0051	42.4	-431.794
Ca 370.602	6084b	ppb	17.11	0.3	20477
Cd 226.502	-0.0047b	ppb	0.0962	2026.1	24.4482
Co 228.615	0.1640b	ppb	0.1747	106.5	-6.1219
Cr 267.716	0.0596b	ppb	0.2515	422.1	38.9759
Cu 324.754	25.3137b	ppb	0.1080	0.4	2446.89
Fe 271.441	12.8051b	ppb	2.8468	22.2	22.1615
K 766.491	2502.18b	ppb	8.3683	0.3	118426
Mg 279.078	584.896b	ppb	5.7721	1.0	1722.35
Mn 257.610	0.9270b	ppb	0.0223	2.4	276.889
Mo 202.032	1.1023b	ppb	0.2272	20.6	12.1476
Na 330.237	154492xb	ppb	290.980	0.2	7913.54
Ni 231.604	0.9177b	ppb	0.3730	40.6	-1.1100
Pb 220.353	1.3175b	ppb	1.9635	149.0	12.2825
Sb 206.834	0.0648b	ppb	1.8158	2803.1	2.6823
Se 196.026	2.2627b	ppb	3.9323	173.8	-0.4599
Sn 189.925	0.8639b	ppb	1.4190	164.3	-5.5920
Sr 216.596	126.683b	ppb	0.7166	0.6	1516.19
Ti 334.941	0.0396b	ppb	0.0214	54.0	-3.8303
Tl 190.794	-1.2316b	ppb	2.7224	221.0	-10.3013
V 292.401	0.1008b	ppb	0.1879	186.4	-12.9607
Zn 206.200	10.2974b	ppb	1.5843	15.4	11.4223

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

680-110765-a-12-a (Samp) 3/21/2015, 3:06:22 AM Rack 4, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1369	0.2372	0.1718
Al 308.215	4.4129	5.5563	6.1610
As 188.980	3.4274	2.4019	3.5996
B 249.678	101.257	101.758	101.289
Ba 389.178	130.060	128.792	129.269
Be 313.042	0.0071	0.0087	0.0099
Ca 370.602	13236	13268	13263
Cd 226.502	0.0138	-0.0751u	-0.0465u
Co 228.615	-0.1530u	0.6199	0.0906
Cr 267.716	0.1161	0.0038	0.0323
Cu 324.754	10.7871	10.7619	10.8581
Fe 271.441	37.2734	37.6177	35.0748
K 766.491	3019.03	3003.29	3000.83
Mg 279.078	2664.35	2674.31	2668.39
Mn 257.610	5.2712	5.2577	5.2742
Mo 202.032	0.8952	0.8799	0.2487
Na 330.237	135843x	134718x	133841x
Ni 231.604	2.3671	1.8620	0.9129
Pb 220.353	1.3776	1.0112	0.6720
Sb 206.834	0.8609	1.4965	0.1416
Se 196.026	4.0732	6.1510	-3.0093u
Sn 189.925	1.7827	-2.5226u	1.5535
Sr 216.596	298.720	298.148	298.624
Ti 334.941	0.0264	-0.0137u	-0.0272u
Tl 190.794	-2.0079u	0.9631	-2.8100u
V 292.401	-0.2769u	0.1765	0.1221
Zn 206.200	16.5240	15.6126	17.9831

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1819b	ppb	0.0510	28.0	-11.4985
Al 308.215	5.3767b	ppb	0.8878	16.5	515.781
As 188.980	3.1430b	ppb	0.6475	20.6	-4.2913
B 249.678	101.434b	ppb	0.2805	0.3	1904.90
Ba 389.178	129.374b	ppb	0.6405	0.5	2905.44
Be 313.042	0.0086b	ppb	0.0014	16.1	-433.800
Ca 370.602	13255b	ppb	17.10	0.1	44594
Cd 226.502	-0.0360b	ppb	0.0454	126.2	23.3434
Co 228.615	0.1858b	ppb	0.3952	212.7	-5.8655
Cr 267.716	0.0508b	ppb	0.0584	115.1	38.1632
Cu 324.754	10.8024b	ppb	0.0499	0.5	1304.04
Fe 271.441	36.6553b	ppb	1.3796	3.8	59.8610
K 766.491	3007.71b	ppb	9.8746	0.3	142293
Mg 279.078	2669.02b	ppb	5.0082	0.2	7775.20
Mn 257.610	5.2677b	ppb	0.0088	0.2	1275.15
Mo 202.032	0.6746b	ppb	0.3689	54.7	9.4004
Na 330.237	134801xb	ppb	1003.30	0.7	6908.60
Ni 231.604	1.7140b	ppb	0.7383	43.1	1.3850
Pb 220.353	1.0203b	ppb	0.3529	34.6	11.8171
Sb 206.834	0.8330b	ppb	0.6779	81.4	3.7924
Se 196.026	2.4050b	ppb	4.8026	199.7	-0.3957
Sn 189.925	0.2712b	ppb	2.4222	893.1	-6.0348
Sr 216.596	298.497b	ppb	0.3066	0.1	3570.67

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.0048b	ppb	0.0279	580.1	-11.6500
Tl 190.794	-1.2849b	ppb	1.9877	154.7	-10.3601
V 292.401	0.0072b	ppb	0.2476	3422.3	-15.3613
Zn 206.200	16.7066b	ppb	1.1957	7.2	18.2079

680-110765-a-13-a (Samp) 3/21/2015, 3:11:09 AM Rack 4, Tube 31
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0554u	0.1204	0.2080
Al 308.215	2.4366	2.4233	2.3019
As 188.980	1.8775	3.0615	0.4564
B 249.678	125.209	126.737	126.499
Ba 389.178	98.8439	98.5537	99.1402
Be 313.042	0.0119	0.0112	0.0093
Ca 370.602	9237	9219	9180
Cd 226.502	-0.0187u	0.0056u	-0.0383u
Co 228.615	0.0679	0.1200	0.2386
Cr 267.716	-0.0454	-0.0863u	0.1205
Cu 324.754	13.4507	13.6957	13.6231
Fe 271.441	37.9477	39.2434	40.9024
K 766.491	2445.89	2451.45	2450.50
Mg 279.078	1464.45	1464.83	1458.71
Mn 257.610	3.3521	3.3891	3.3345
Mo 202.032	1.4736	0.6957	0.9219
Na 330.237	154710x	153447x	153383x
Ni 231.604	0.1850	2.4146	0.7310
Pb 220.353	0.0167	-0.5610u	-0.5929u
Sb 206.834	-1.8927u	-1.9785u	2.5733
Se 196.026	7.9824	9.7817	4.5599
Sn 189.925	-1.3206u	0.8118	0.6452
Sr 216.596	204.625	203.251	205.770
Ti 334.941	0.0053u	-0.0000u	-0.0327u
Tl 190.794	-1.1443u	-0.4042u	1.8568
V 292.401	0.1502	0.1403	0.1439
Zn 206.200	3.1839	6.1147	4.7815

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0910b	ppb	0.1341	147.4	-16.2918
Al 308.215	2.3873b	ppb	0.0742	3.1	494.156
As 188.980	1.7985b	ppb	1.3043	72.5	-5.2855
B 249.678	126.148b	ppb	0.8224	0.7	2348.65
Ba 389.178	98.8459b	ppb	0.2933	0.3	2208.28
Be 313.042	0.0108b	ppb	0.0013	12.3	-433.013
Ca 370.602	9212b	ppb	29.13	0.3	30997
Cd 226.502	-0.0172b	ppb	0.0220	128.1	24.0488
Co 228.615	0.1421b	ppb	0.0875	61.6	-6.3671
Cr 267.716	-0.0037b	ppb	0.1095	2934.4	35.5790
Cu 324.754	13.5898b	ppb	0.1258	0.9	1523.58
Fe 271.441	39.3645b	ppb	1.4810	3.8	64.1183
K 766.491	2449.28b	ppb	2.9754	0.1	115929
Mg 279.078	1462.67b	ppb	3.4313	0.2	4271.61
Mn 257.610	3.3586b	ppb	0.0279	0.8	833.747
Mo 202.032	1.0304b	ppb	0.4002	38.8	11.6848

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	153847xb	ppb	748.237	0.5	7880.66
Ni 231.604	1.1102b	ppb	1.1622	104.7	-0.5049
Pb 220.353	-0.3791b	ppb	0.3431	90.5	9.6106
Sb 206.834	-0.4326b	ppb	2.6035	601.8	1.9678
Se 196.026	7.4413b	ppb	2.6526	35.6	1.8362
Sn 189.925	0.0455b	ppb	1.1860	2608.2	-6.1955
Sr 216.596	204.549b	ppb	1.2615	0.6	2447.25
Ti 334.941	-0.0092b	ppb	0.0206	224.3	-16.5816
Tl 190.794	0.1028b	ppb	1.5635	1520.8	-8.8343
V 292.401	0.1448b	ppb	0.0050	3.5	-11.7077
Zn 206.200	4.6934b	ppb	1.4674	31.3	5.4909

680-110765-a-14-a (Samp) 3/21/2015, 3:15:57 AM Rack 4, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0547u	0.0800	-0.0725u
Al 308.215	3.2678	4.1715	2.3002
As 188.980	3.5971	0.1818	1.2583
B 249.678	123.981	123.879	124.725
Ba 389.178	87.2846	86.5901	86.9781
Be 313.042	0.0096	0.0095	0.0037u
Ca 370.602	9133	9109	9116
Cd 226.502	-0.0933u	-0.0671u	-0.1020u
Co 228.615	0.2355	0.1787	-0.0548u
Cr 267.716	0.1029	0.1050	0.2669
Cu 324.754	4.9094	4.8536	4.8863
Fe 271.441	38.9897	38.5399	34.8257
K 766.491	2358.70	2362.44	2363.73
Mg 279.078	1353.28	1353.14	1358.11
Mn 257.610	3.2784	3.2802	3.2856
Mo 202.032	1.3015	1.7776	1.6527
Na 330.237	150371x	149591x	149760x
Ni 231.604	0.3419	0.2107	1.2424
Pb 220.353	-3.1220u	3.0726	-2.4949u
Sb 206.834	0.9841	2.2159	0.6179
Se 196.026	3.7614	-1.3922u	-0.0340u
Sn 189.925	0.5342	0.6831	-1.0425u
Sr 216.596	197.250	196.200	197.142
Ti 334.941	0.0265u	0.0208u	0.0143u
Tl 190.794	0.0378	1.2603	-3.2339u
V 292.401	0.0859	0.3781	0.3455
Zn 206.200	64.9001	61.8462	64.5701

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0207b	ppb	0.0817	394.2	-22.3232
Al 308.215	3.2465b	ppb	0.9358	28.8	500.405
As 188.980	1.6791b	ppb	1.7461	104.0	-5.3739
B 249.678	124.195b	ppb	0.4623	0.4	2313.59
Ba 389.178	86.9509b	ppb	0.3480	0.4	1937.40
Be 313.042	0.0076b	ppb	0.0034	44.2	-438.939
Ca 370.602	9120b	ppb	12.41	0.1	30685
Cd 226.502	-0.0875b	ppb	0.0182	20.8	20.9143
Co 228.615	0.1198b	ppb	0.1539	128.4	-6.6312

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1583b	ppb	0.0941	59.4	44.2452
Cu 324.754	4.8831b	ppb	0.0280	0.6	837.905
Fe 271.441	37.4518b	ppb	2.2853	6.1	61.1106
K 766.491	2361.62b	ppb	2.6087	0.1	111790
Mg 279.078	1354.84b	ppb	2.8308	0.2	3958.47
Mn 257.610	3.2814b	ppb	0.0037	0.1	815.450
Mo 202.032	1.5773b	ppb	0.2469	15.7	15.1965
Na 330.237	149907xb	ppb	410.394	0.3	7678.93
Ni 231.604	0.5984b	ppb	0.5616	93.9	-2.1078
Pb 220.353	-0.8481b	ppb	3.4099	402.1	8.8706
Sb 206.834	1.2726b	ppb	0.8371	65.8	4.4089
Se 196.026	0.7784b	ppb	2.6711	343.2	-1.1171
Sn 189.925	0.0582b	ppb	0.9562	1641.6	-6.1872
Sr 216.596	196.864b	ppb	0.5777	0.3	2355.45
Ti 334.941	0.0206b	ppb	0.0061	29.6	-7.7509
Tl 190.794	-0.6452b	ppb	2.3237	360.1	-9.6594
V 292.401	0.2698b	ppb	0.1601	59.3	-8.2555
Zn 206.200	63.7721b	ppb	1.6760	2.6	68.0314

680-110765-a-15-a (Samp) 3/21/2015, 3:20:44 AM Rack 4, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1440	0.0545u	-0.0630u
Al 308.215	3.4757	1.6000	1.9036
As 188.980	-3.0038u	0.2385	2.1199
B 249.678	99.3905	99.0964	99.9659
Ba 389.178	68.2923	68.1822	68.3257
Be 313.042	0.0134	0.0143	0.0141
Ca 370.602	6550	6526	6556
Cd 226.502	-0.0552u	-0.0589u	-0.0570u
Co 228.615	0.2471	0.2922	0.1278
Cr 267.716	0.3751	0.0596	0.0101
Cu 324.754	13.4546	13.5659	13.5755
Fe 271.441	12.3921	13.4421	9.6916
K 766.491	2537.19	2529.08	2533.12
Mg 279.078	785.991	783.785	785.190
Mn 257.610	0.9235	0.9135	0.9204
Mo 202.032	0.9210	0.8582	1.3553
Na 330.237	153178x	152332x	153432x
Ni 231.604	0.0682	0.0047	0.7543
Pb 220.353	-0.5197u	-0.1553u	-1.7008u
Sb 206.834	1.6423	-1.1955u	3.2885
Se 196.026	6.9383	-4.1339u	-8.6160u
Sn 189.925	-2.1505u	-0.4235u	-0.0441
Sr 216.596	141.465	143.086	143.621
Ti 334.941	-0.0023u	-0.0121u	0.0310u
Tl 190.794	1.5942	1.8590	-2.7708u
V 292.401	0.0305u	0.0604	0.2133
Zn 206.200	10.4748	10.0504	11.5364

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0452b	ppb	0.1038	229.9	-18.1767
Al 308.215	2.3264b	ppb	1.0068	43.3	493.696

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.2151b	ppb	2.5918	1204.7	-6.7741
B 249.678	99.4843b	ppb	0.4423	0.4	1869.95
Ba 389.178	68.2667b	ppb	0.0751	0.1	1511.05
Be 313.042	0.0139b	ppb	0.0005	3.5	-427.817
Ca 370.602	6544b	ppb	15.75	0.2	22024
Cd 226.502	-0.0570b	ppb	0.0019	3.3	22.1191
Co 228.615	0.2224b	ppb	0.0849	38.2	-5.4626
Cr 267.716	0.1483b	ppb	0.1980	133.6	43.7383
Cu 324.754	13.5320b	ppb	0.0672	0.5	1519.02
Fe 271.441	11.8419b	ppb	1.9348	16.3	20.6507
K 766.491	2533.13b	ppb	4.0560	0.2	119888
Mg 279.078	784.989b	ppb	1.1168	0.1	2303.48
Mn 257.610	0.9191b	ppb	0.0051	0.6	276.745
Mo 202.032	1.0448b	ppb	0.2707	25.9	11.7788
Na 330.237	152981xb	ppb	575.888	0.4	7836.41
Ni 231.604	0.2757b	ppb	0.4156	150.7	-3.1202
Pb 220.353	-0.7919b	ppb	0.8079	102.0	8.9580
Sb 206.834	1.2451b	ppb	2.2682	182.2	4.3793
Se 196.026	-1.9372b	ppb	8.0065	413.3	-2.3214
Sn 189.925	-0.8727b	ppb	1.1227	128.7	-6.8727
Sr 216.596	142.724b	ppb	1.1222	0.8	1707.95
Ti 334.941	0.0055b	ppb	0.0226	411.1	-13.4134
Tl 190.794	0.2275b	ppb	2.5999	1142.9	-8.6938
V 292.401	0.1014b	ppb	0.0981	96.8	-12.9150
Zn 206.200	10.6872b	ppb	0.7654	7.2	11.8348

680-110765-a-16-a (Samp)

3/21/2015, 3:25:32 AM

Rack 4, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0420u	0.1290	-0.1232u
Al 308.215	4.2088	5.8946	5.1589
As 188.980	3.6894	1.4184	3.0960
B 249.678	135.082	136.588	136.828
Ba 389.178	94.8774	95.0814	94.6491
Be 313.042	0.0106	0.0135	0.0131
Ca 370.602	9389	9395	9403
Cd 226.502	-0.0675u	-0.0306u	0.1034
Co 228.615	-0.1244u	-0.3016u	0.0359
Cr 267.716	0.0138	-0.1633u	0.1916
Cu 324.754	6.3214	6.1873	6.3212
Fe 271.441	30.8451	23.7940	28.3695
K 766.491	2707.43	2710.80	2718.83
Mg 279.078	1391.60	1394.52	1390.32
Mn 257.610	3.1326	3.0601	3.0973
Mo 202.032	1.4145	1.1203	1.1682
Na 330.237	159548x	158662x	159660x
Ni 231.604	1.0396	1.6946	-0.0658u
Pb 220.353	-1.0702u	-1.3487u	1.8220
Sb 206.834	1.6493	-2.6603u	2.1355
Se 196.026	-5.2902u	-0.0822u	9.3257
Sn 189.925	-3.8749u	-0.7079u	-0.6520u
Sr 216.596	197.395	196.595	197.050
Ti 334.941	0.0088u	-0.0379u	-0.0118u

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	3.0147	-1.7244u	0.7877
V 292.401	-0.0063u	0.4917	0.1961
Zn 206.200	12.2821	12.7066	13.5442

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0159b	ppb	0.1281	804.2	-22.7507
Al 308.215	5.0874b	ppb	0.8452	16.6	513.739
As 188.980	2.7346b	ppb	1.1779	43.1	-4.5934
B 249.678	136.166b	ppb	0.9464	0.7	2528.58
Ba 389.178	94.8693b	ppb	0.2163	0.2	2117.64
Be 313.042	0.0124b	ppb	0.0016	12.6	-430.572
Ca 370.602	9396b	ppb	6.815	0.1	31614
Cd 226.502	0.0018b	ppb	0.0899	5009.2	24.8048
Co 228.615	-0.1300b	ppb	0.1688	129.8	-9.4320
Cr 267.716	0.0140b	ppb	0.1775	1263.1	36.6386
Cu 324.754	6.2766b	ppb	0.0774	1.2	947.637
Fe 271.441	27.6695b	ppb	3.5773	12.9	45.6215
K 766.491	2712.35b	ppb	5.8532	0.2	128349
Mg 279.078	1392.15b	ppb	2.1532	0.2	4066.82
Mn 257.610	3.0967b	ppb	0.0363	1.2	773.920
Mo 202.032	1.2343b	ppb	0.1579	12.8	12.9949
Na 330.237	159290xb	ppb	546.897	0.3	8158.33
Ni 231.604	0.8895b	ppb	0.8897	100.0	-1.1965
Pb 220.353	-0.1990b	ppb	1.7557	882.3	9.8935
Sb 206.834	0.3748b	ppb	2.6397	704.3	3.1231
Se 196.026	1.3178b	ppb	7.4078	562.1	-0.8781
Sn 189.925	-1.7449b	ppb	1.8448	105.7	-7.5138
Sr 216.596	197.013b	ppb	0.4010	0.2	2357.31
Ti 334.941	-0.0136b	ppb	0.0234	171.6	-18.4598
Tl 190.794	0.6927b	ppb	2.3710	342.3	-8.1843
V 292.401	0.2272b	ppb	0.2505	110.3	-9.4648
Zn 206.200	12.8443b	ppb	0.6423	5.0	14.1190

680-110765-a-17-a (Samp)

3/21/2015, 3:30:18 AM

Rack 4, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1254	0.0967	0.0605
Al 308.215	0.7657	2.3511	1.1632
As 188.980	-1.6039u	-2.4514u	3.5114
B 249.678	206.207	205.624	206.698
Ba 389.178	0.8883	0.4267	0.9006
Be 313.042	0.0107u	0.0086u	0.0136
Ca 370.602	205.1	200.9	202.9
Cd 226.502	-0.0506u	0.0011u	-0.0897u
Co 228.615	0.0996	0.2040	0.0937
Cr 267.716	0.0586	0.0991	-0.0690
Cu 324.754	16.4887	16.3868	16.1434
Fe 271.441	29.7931	23.3210	20.7841
K 766.491	1853.21	1845.32	1844.31
Mg 279.078	10.1082	5.2921	8.1383
Mn 257.610	2.3287	2.3240	2.3147
Mo 202.032	2.9521	1.9696	2.5774
Na 330.237	204807x	203321x	203694x

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	0.5776	0.1439	0.6863
Pb 220.353	-1.7082u	-0.9971u	0.2846
Sb 206.834	0.4311	1.6400	2.6880
Se 196.026	0.2823	3.2590	2.9910
Sn 189.925	0.4254	-0.2547u	1.9419
Sr 216.596	0.9971	0.7491	0.9024
Ti 334.941	0.0362u	0.0224u	-0.0197u
Tl 190.794	1.1189	-0.2358u	1.1340
V 292.401	0.3286	0.3213	0.2944
Zn 206.200	5.9974	7.2703	5.5205

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0942b	ppb	0.0325	34.5	-8.6360
Al 308.215	1.4267b	ppb	0.8249	57.8	487.241
As 188.980	-0.1813b	ppb	3.2259	1779.2	-6.7496
B 249.678	206.176b	ppb	0.5376	0.3	3785.70
Ba 389.178	0.7385b	ppb	0.2701	36.6	-27.0676
Be 313.042	0.0110b	ppb	0.0025	22.7	-441.663
Ca 370.602	203.0b	ppb	2.133	1.1	698.0
Cd 226.502	-0.0464b	ppb	0.0456	98.3	22.3171
Co 228.615	0.1324b	ppb	0.0620	46.9	-6.5155
Cr 267.716	0.0296b	ppb	0.0878	296.9	38.3071
Cu 324.754	16.3396b	ppb	0.1774	1.1	1740.20
Fe 271.441	24.6327b	ppb	4.6455	18.9	40.8347
K 766.491	1847.61b	ppb	4.8736	0.3	87523.2
Mg 279.078	7.8462b	ppb	2.4213	30.9	46.3853
Mn 257.610	2.3225b	ppb	0.0071	0.3	587.468
Mo 202.032	2.4997b	ppb	0.4958	19.8	21.1207
Na 330.237	203941xb	ppb	773.193	0.4	10436.9
Ni 231.604	0.4693b	ppb	0.2870	61.2	-2.5127
Pb 220.353	-0.8069b	ppb	1.0099	125.2	8.9331
Sb 206.834	1.5864b	ppb	1.1294	71.2	4.8423
Se 196.026	2.1774b	ppb	1.6467	75.6	-0.4973
Sn 189.925	0.7042b	ppb	1.1245	159.7	-5.6949
Sr 216.596	0.8829b	ppb	0.1252	14.2	11.7189
Ti 334.941	0.0130b	ppb	0.0291	224.0	-16.5295
Tl 190.794	0.6724b	ppb	0.7866	117.0	-8.2101
V 292.401	0.3147b	ppb	0.0180	5.7	-7.5889
Zn 206.200	6.2627b	ppb	0.9046	14.4	7.1516

680-110739-p-3-a (Samp)

3/21/2015, 3:35:06 AM

Rack 4, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1409	0.1530	0.1794
Al 308.215	17.2627	16.5455	17.1507
As 188.980	-4.3050u	1.2022	-0.5705u
B 249.678	196.490	197.478	196.957
Ba 389.178	47.8457	48.5755	48.9954
Be 313.042	0.0112u	0.0123	0.0140
Ca 370.602	3216	3197	3191
Cd 226.502	-0.1219u	0.0095u	-0.1007u
Co 228.615	0.0183	-0.0144u	0.3857
Cr 267.716	0.0287	0.0857	0.1349

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	0.6104	0.5899	0.5928
Fe 271.441	26.9019	27.6314	21.4177
K 766.491	1079.08	1081.16	1081.21
Mg 279.078	1140.43	1140.51	1130.68
Mn 257.610	1.2036	1.2083	1.2067
Mo 202.032	0.7266	0.8833	0.8024
Na 330.237	208482x	208717x	206789x
Ni 231.604	-0.3643u	0.3243	0.4866
Pb 220.353	-1.4337u	0.4391	-1.2578u
Sb 206.834	0.1837	-0.0106u	0.4053
Se 196.026	7.5441	-4.3067u	-0.1640u
Sn 189.925	-0.9119u	-0.4858u	1.4490
Sr 216.596	129.522	128.412	128.113
Ti 334.941	0.1732	0.1500	0.0730
Tl 190.794	-1.8052u	-2.3039u	-0.0984u
V 292.401	0.3377	0.5108	0.4008
Zn 206.200	4.5394	4.1323	3.6342

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1578b	ppb	0.0197	12.5	-7.5488
Al 308.215	16.9863b	ppb	0.3858	2.3	599.976
As 188.980	-1.2244b	ppb	2.8112	229.6	-7.5203
B 249.678	196.975b	ppb	0.4944	0.3	3620.46
Ba 389.178	48.4722b	ppb	0.5818	1.2	1061.41
Be 313.042	0.0125b	ppb	0.0014	11.0	-437.858
Ca 370.602	3202b	ppb	13.14	0.4	10782
Cd 226.502	-0.0710b	ppb	0.0706	99.3	21.1994
Co 228.615	0.1298b	ppb	0.2222	171.1	-6.4960
Cr 267.716	0.0831b	ppb	0.0531	63.9	41.2689
Cu 324.754	0.5977b	ppb	0.0111	1.9	500.361
Fe 271.441	25.3170b	ppb	3.3965	13.4	41.9357
K 766.491	1080.48b	ppb	1.2138	0.1	51305.8
Mg 279.078	1137.21b	ppb	5.6520	0.5	3326.43
Mn 257.610	1.2062b	ppb	0.0024	0.2	344.168
Mo 202.032	0.8041b	ppb	0.0784	9.7	10.2322
Na 330.237	207996xb	ppb	1052.13	0.5	10643.9
Ni 231.604	0.1489b	ppb	0.4518	303.5	-3.5164
Pb 220.353	-0.7508b	ppb	1.0343	137.8	9.0236
Sb 206.834	0.1928b	ppb	0.2081	107.9	2.8727
Se 196.026	1.0245b	ppb	6.0142	587.1	-1.0086
Sn 189.925	0.0171b	ppb	1.2582	7364.6	-6.2003
Sr 216.596	128.682b	ppb	0.7422	0.6	1539.02
Ti 334.941	0.1321b	ppb	0.0525	39.7	20.1440
Tl 190.794	-1.4025b	ppb	1.1566	82.5	-10.4893
V 292.401	0.4164b	ppb	0.0876	21.0	-4.3747
Zn 206.200	4.1020b	ppb	0.4534	11.1	4.8640

Cont Calib Verif (CCV) 3/21/2015, 3:39:53 AM Rack 4, Tube 37

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	493.463	495.231	490.806
Al 308.215	4880.55	4880.66	4873.70
As 188.980	493.048	493.369	494.914

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
B 249.678	490.660	492.640	493.792
Ba 389.178	4888.37	4888.33	4878.11
Be 313.042	490.619	488.798	488.098
Ca 370.602	4937	4927	4927
Cd 226.502	495.772	495.688	493.934
Co 228.615	498.369	499.058	497.847
Cr 267.716	5008.69	5007.53	4998.57
Cu 324.754	5149.55	5193.07	5141.76
Fe 271.441	4906.88	4907.46	4894.16
K 766.491	10646.6	10645.9	10643.5
Mg 279.078	4929.14	4926.81	4922.92
Mn 257.610	5006.63	5016.35	4995.88
Mo 202.032	489.129	490.642	489.177
Na 330.237	7517.12	7615.05	7643.52
Ni 231.604	2512.99	2512.06	2510.09
Pb 220.353	493.857	494.803	494.626
Sb 206.834	998.736	994.192	991.191
Se 196.026	4992.08	5015.17	4983.22
Sn 189.925	4920.18	4893.45	4886.28
Sr 216.596	2429.18	2426.41	2420.43
Ti 334.941	485.786	486.281	484.960
Tl 190.794	5033.11	5021.08	5026.50
V 292.401	4924.79	4923.92	4918.36
Zn 206.200	2433.55	2443.06	2440.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.167	ppb	2.2275	0.5	44268.3	98.63333
Al 308.215	4878.30	ppb	3.9850	0.1	36546.2	97.56607
As 188.980	493.777	ppb	0.9975	0.2	358.267	98.75538
B 249.678	492.364	ppb	1.5841	0.3	8928.19	98.47276
Ba 389.178	4884.93	ppb	5.9131	0.1	111132	97.69868
Be 313.042	489.171	ppb	1.3014	0.3	944405	97.83427
Ca 370.602	4930	ppb	5.600	0.1	16988	98.60181
Cd 226.502	495.131	ppb	1.0378	0.2	22246.1	99.02620
Co 228.615	498.425	ppb	0.6075	0.1	5600.27	99.68494
Cr 267.716	5004.93	ppb	5.5399	0.1	269972	100.09860
Cu 324.754	5161.46	ppb	27.6517	0.5	406892	103.22921
Fe 271.441	4902.83	ppb	7.5168	0.2	7848.34	98.05663
K 766.491	10645.4	ppb	1.6138	0.0	502877	106.45351
Mg 279.078	4926.29	ppb	3.1430	0.1	14218.9	98.52580
Mn 257.610	5006.29	ppb	10.2404	0.2	1131878	100.12576
Mo 202.032	489.649	ppb	0.8601	0.2	3144.07	97.92987
Na 330.237	7591.90	ppb	66.3060	0.9	386.895	101.22529
Ni 231.604	2511.71	ppb	1.4837	0.1	7859.32	100.46858
Pb 220.353	494.429	ppb	0.5030	0.1	793.741	98.88577
Sb 206.834	994.706	ppb	3.7988	0.4	1488.73	99.47062
Se 196.026	4996.82	ppb	16.4925	0.3	2214.43	99.93649
Sn 189.925	4899.97	ppb	17.8636	0.4	3606.48	97.99940
Sr 216.596	2425.34	ppb	4.4720	0.2	28899.1	97.01369
Ti 334.941	485.676	ppb	0.6671	0.1	142699	97.13515
Tl 190.794	5026.90	ppb	6.0278	0.1	5537.19	100.53795
V 292.401	4922.36	ppb	3.4874	0.1	138981	98.44719
Zn 206.200	2439.09	ppb	4.9447	0.2	2572.88	97.56351

E03202015B.vvq. All Data Report 3/23/2015, 9:01:10 AM

Cont Calib Blank (CCB) 3/21/2015, 3:44:41 AM Rack 4, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0026	-0.1268u	-0.0348u
Al 308.215	-3.7056u	-3.7576u	-4.3583u
As 188.980	-1.2364u	-0.8442u	0.1216
B 249.678	5.6149	4.6735	4.1867
Ba 389.178	0.6194	-0.5649u	0.7255
Be 313.042	0.0129	0.0103	0.0147
Ca 370.602	-1.357u	2.965	1.315
Cd 226.502	0.0784	0.2079	0.1495
Co 228.615	0.0737	0.1738	0.3094
Cr 267.716	0.2000	0.2476	0.3251
Cu 324.754	-0.3069u	0.2645	-0.1453u
Fe 271.441	0.0251	3.0918	1.1975
K 766.491	-0.5318u	-0.3792u	-0.1316u
Mg 279.078	0.9609	-0.9259u	-2.3423u
Mn 257.610	0.1699	0.1446	0.1085
Mo 202.032	0.3741	0.4298	1.0211
Na 330.237	111.083	61.4579	146.938
Ni 231.604	0.6438	0.9706	1.4064
Pb 220.353	-0.7031u	0.0909	-0.8079u
Sb 206.834	2.7422	2.2413	1.7505
Se 196.026	2.1357	2.5512	0.7508
Sn 189.925	0.7471	-0.8750u	-1.9319u
Sr 216.596	-0.0503u	0.3400	0.4486
Ti 334.941	0.1591	0.1210	0.0365
Tl 190.794	-0.1962u	-0.9639u	-3.1022u
V 292.401	0.3096	-0.1088u	0.1671
Zn 206.200	-0.4129u	1.8767	-0.2027u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0530	ppb	0.0666	125.6	-21.8595	-0.05301
Al 308.215	-3.9405	ppb	0.3628	9.2	448.274	-3.94049
As 188.980	-0.6530	ppb	0.6989	107.0	-7.0976	-0.65298
B 249.678	4.8250	ppb	0.7260	15.0	170.268	4.82500
Ba 389.178	0.2600	ppb	0.7164	275.5	-38.0007	0.25998
Be 313.042	0.0127	ppb	0.0022	17.4	-415.164	0.01266
Ca 370.602	0.9743	ppb	2.181	223.9	18.93	0.97432
Cd 226.502	0.1453	ppb	0.0649	44.6	32.0916	0.14529
Co 228.615	0.1856	ppb	0.1183	63.7	-5.8655	0.18562
Cr 267.716	0.2576	ppb	0.0632	24.5	46.7196	0.25759
Cu 324.754	-0.0626	ppb	0.2945	470.7	448.352	-0.06257
Fe 271.441	1.4381	ppb	1.5474	107.6	4.2083	1.43814
K 766.491	-0.3475	ppb	0.2020	58.1	278.366	-0.34751
Mg 279.078	-0.7691	ppb	1.6572	215.5	21.4140	-0.76911
Mn 257.610	0.1410	ppb	0.0308	21.9	95.2000	0.14100
Mo 202.032	0.6084	ppb	0.3585	58.9	8.9762	0.60835
Na 330.237	106.493	ppb	42.9246	40.3	35.4587	106.49318
Ni 231.604	1.0070	ppb	0.3826	38.0	-0.8316	1.00695
Pb 220.353	-0.4734	ppb	0.4914	103.8	9.4598	-0.47336
Sb 206.834	2.2446	ppb	0.4958	22.1	5.8215	2.24465
Se 196.026	1.8126	ppb	0.9427	52.0	-0.6597	1.81255
Sn 189.925	-0.6866	ppb	1.3494	196.5	-6.7812	-0.68658
Sr 216.596	0.2461	ppb	0.2623	106.6	4.0067	0.24609

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.1055	ppb	0.0628	59.5	26.4340	0.10550
Tl 190.794	-1.4208	ppb	1.5059	106.0	-10.5067	-1.42078
V 292.401	0.1226	ppb	0.2127	173.4	-11.0625	0.12265
Zn 206.200	0.4204	ppb	1.2656	301.1	0.9659	0.42037

680-110739-p-4-a (Samp)

3/21/2015, 3:49:28 AM

Rack 4, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0140u	0.0422u	0.0692u
Al 308.215	7.9464	5.9093	6.8689
As 188.980	1.7468	-2.3228u	0.5699
B 249.678	44.7412	45.5346	44.9817
Ba 389.178	116.491	116.938	117.235
Be 313.042	-0.0016	-0.0023	0.0036
Ca 370.602	91270	91348	91182
Cd 226.502	-0.0878u	0.0542	0.0074
Co 228.615	0.2689	0.1958	-0.0966u
Cr 267.716	0.2166	0.2091	0.0968
Cu 324.754	1.5978	1.7280	1.5310
Fe 271.441	109.654	107.657	110.804
K 766.491	2725.24	2717.46	2727.58
Mg 279.078	10801.5	10802.6	10798.9
Mn 257.610	2.2007	2.2371	2.2303
Mo 202.032	0.9952	0.8979	1.4732
Na 330.237	82715.0	82859.8	82779.3
Ni 231.604	1.7114	2.2530	2.0826
Pb 220.353	-1.2212u	-0.7430u	0.3710
Sb 206.834	-0.1072u	0.4522	0.9171
Se 196.026	-0.0967u	4.0246	0.1061
Sn 189.925	2.7502	1.7883	-0.8987u
Sr 216.596	590.674	593.096	589.162
Ti 334.941	0.0476	0.1210	0.1088
Tl 190.794	-2.6628u	-0.2701u	-1.6400u
V 292.401	0.2645	0.7714	0.1617
Zn 206.200	17.2457	18.8938	18.9956

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0418	ppb	0.0276	66.0	-34.9910
Al 308.215	6.9082	ppb	1.0191	14.8	526.970
As 188.980	-0.0020	ppb	2.0942	102742.0	-6.6172
B 249.678	45.0858	ppb	0.4068	0.9	892.919
Ba 389.178	116.888	ppb	0.3741	0.3	2638.63
Be 313.042	-0.0001	ppb	0.0032	3317.2	-417.006
Ca 370.602	91267	ppb	82.93	0.1	306955
Cd 226.502	-0.0087	ppb	0.0724	828.5	25.4061
Co 228.615	0.1227	ppb	0.1934	157.6	-6.5748
Cr 267.716	0.1742	ppb	0.0671	38.5	43.8540
Cu 324.754	1.6189	ppb	0.1002	6.2	580.839
Fe 271.441	109.372	ppb	1.5927	1.5	174.747
K 766.491	2723.43	ppb	5.2980	0.2	128872
Mg 279.078	10801.0	ppb	1.9073	0.0	31393.1
Mn 257.610	2.2227	ppb	0.0193	0.9	653.363
Mo 202.032	1.1221	ppb	0.3079	27.4	12.2702

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	82784.7	ppb	72.5549	0.1	4254.24
Ni 231.604	2.0157	ppb	0.2769	13.7	2.3357
Pb 220.353	-0.5311	ppb	0.8170	153.8	9.3754
Sb 206.834	0.4207	ppb	0.5129	121.9	3.1968
Se 196.026	1.3447	ppb	2.3231	172.8	-0.8656
Sn 189.925	1.2133	ppb	1.8912	155.9	-5.3557
Sr 216.596	590.977	ppb	1.9847	0.3	7092.26
Ti 334.941	0.0925	ppb	0.0393	42.5	35.4484
Tl 190.794	-1.5243	ppb	1.2006	78.8	-10.6367
V 292.401	0.3992	ppb	0.3264	81.8	-3.8668
Zn 206.200	18.3783	ppb	0.9822	5.3	19.9798

680-110739-p-4-b ms (Samp) 3/21/2015, 3:54:16 AM Rack 4, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.7167	22.7158	22.6772
Al 308.215	2170.30	2170.44	2176.18
As 188.980	43.6024	44.9952	47.6984
B 249.678	126.617	127.175	128.581
Ba 389.178	156.271	155.703	156.239
Be 313.042	21.0472	20.9737	21.0074
Ca 370.602	92767	92516	92739
Cd 226.502	20.7858	20.9899	20.8468
Co 228.615	20.9845	20.9087	20.6731
Cr 267.716	43.0064	42.7629	42.8338
Cu 324.754	46.3080	46.4660	46.3668
Fe 271.441	2195.65	2190.04	2200.58
K 766.491	5458.46	5452.40	5450.57
Mg 279.078	12777.0	12777.6	12803.5
Mn 257.610	220.994	221.118	221.489
Mo 202.032	41.7845	42.2837	42.4261
Na 330.237	84787.8	84819.3	85089.8
Ni 231.604	43.4522	44.2295	43.2277
Pb 220.353	204.889	206.687	208.522
Sb 206.834	23.0181	22.8791	19.4410
Se 196.026	43.6255	40.0438	39.7296
Sn 189.925	84.0731	81.9488	82.3187
Sr 216.596	621.354	620.353	621.130
Ti 334.941	41.9748	41.9152	41.9324
Tl 190.794	13.7938	16.9172	13.8432
V 292.401	43.3900	42.9534	42.8333
Zn 206.200	58.0102	59.5050	60.8343

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.7032	ppb	0.0225	0.1	2001.93
Al 308.215	2172.31	ppb	3.3548	0.2	16227.3
As 188.980	45.4320	ppb	2.0826	4.6	26.9460
B 249.678	127.458	ppb	1.0122	0.8	2367.13
Ba 389.178	156.071	ppb	0.3192	0.2	3536.32
Be 313.042	21.0094	ppb	0.0368	0.2	40150.6
Ca 370.602	92674	ppb	137.7	0.1	311690
Cd 226.502	20.8742	ppb	0.1048	0.5	973.291
Co 228.615	20.8554	ppb	0.1624	0.8	226.430

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	42.8677	ppb	0.1252	0.3	2348.30
Cu 324.754	46.3802	ppb	0.0798	0.2	4108.13
Fe 271.441	2195.43	ppb	5.2734	0.2	3473.74
K 766.491	5453.81	ppb	4.1283	0.1	257777
Mg 279.078	12786.0	ppb	15.1287	0.1	37152.6
Mn 257.610	221.200	ppb	0.2575	0.1	50179.6
Mo 202.032	42.1648	ppb	0.3369	0.8	275.689
Na 330.237	84898.9	ppb	166.009	0.2	4361.10
Ni 231.604	43.6365	ppb	0.5257	1.2	132.779
Pb 220.353	206.699	ppb	1.8165	0.9	336.107
Sb 206.834	21.7794	ppb	2.0263	9.3	33.7679
Se 196.026	41.1330	ppb	2.1643	5.3	16.8364
Sn 189.925	82.7802	ppb	1.1348	1.4	54.7842
Sr 216.596	620.946	ppb	0.5256	0.1	7451.86
Ti 334.941	41.9408	ppb	0.0307	0.1	12334.5
Tl 190.794	14.8514	ppb	1.7892	12.0	7.1680
V 292.401	43.0589	ppb	0.2929	0.7	1192.45
Zn 206.200	59.4498	ppb	1.4129	2.4	63.4461

680-110739-p-4-c msd (Samp) 3/21/2015, 3:59:04 AM Rack 4, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.7072	22.7456	22.7643
Al 308.215	2179.12	2178.05	2177.72
As 188.980	45.1682	47.7788	40.6046
B 249.678	127.949	128.823	129.140
Ba 389.178	158.113	157.852	155.895
Be 313.042	20.9810	21.0054	20.9783
Ca 370.602	92931	93261	93008
Cd 226.502	20.9117	21.0062	20.8836
Co 228.615	21.2604	20.5190	20.9207
Cr 267.716	43.2590	43.1847	42.9342
Cu 324.754	46.2297	46.5229	46.4489
Fe 271.441	2199.75	2198.67	2197.48
K 766.491	5475.63	5464.89	5469.45
Mg 279.078	12801.7	12766.9	12760.5
Mn 257.610	222.143	221.864	221.690
Mo 202.032	42.2291	42.6517	41.8377
Na 330.237	85012.6	84812.1	84800.9
Ni 231.604	44.3356	44.1839	43.7552
Pb 220.353	209.185	210.099	209.372
Sb 206.834	22.6777	22.7613	23.5206
Se 196.026	40.2776	45.6751	53.2093
Sn 189.925	87.5246	81.7192	80.6844
Sr 216.596	619.694	618.557	620.398
Ti 334.941	41.9582	42.0090	42.0355
Tl 190.794	13.1141	15.8479	16.7827
V 292.401	43.4567	43.3087	42.9293
Zn 206.200	59.9379	61.0401	61.9992

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.7390	ppb	0.0291	0.1	2005.26
Al 308.215	2178.30	ppb	0.7309	0.0	16270.8

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	44.5172	ppb	3.6311	8.2	26.2698
B 249.678	128.637	ppb	0.6168	0.5	2388.32
Ba 389.178	157.287	ppb	1.2122	0.8	3563.95
Be 313.042	20.9882	ppb	0.0149	0.1	40109.7
Ca 370.602	93067	ppb	172.9	0.2	313012
Cd 226.502	20.9338	ppb	0.0642	0.3	975.977
Co 228.615	20.9000	ppb	0.3711	1.8	226.938
Cr 267.716	43.1260	ppb	0.1702	0.4	2362.24
Cu 324.754	46.4005	ppb	0.1525	0.3	4109.71
Fe 271.441	2198.63	ppb	1.1335	0.1	3478.78
K 766.491	5469.99	ppb	5.3888	0.1	258541
Mg 279.078	12776.4	ppb	22.1561	0.2	37124.6
Mn 257.610	221.899	ppb	0.2287	0.1	50337.5
Mo 202.032	42.2395	ppb	0.4071	1.0	276.169
Na 330.237	84875.2	ppb	119.137	0.1	4359.87
Ni 231.604	44.0916	ppb	0.3010	0.7	134.204
Pb 220.353	209.552	ppb	0.4830	0.2	340.604
Sb 206.834	22.9865	ppb	0.4644	2.0	35.5076
Se 196.026	46.3874	ppb	6.4952	14.0	19.1655
Sn 189.925	83.3094	ppb	3.6870	4.4	55.1744
Sr 216.596	619.550	ppb	0.9286	0.1	7435.21
Ti 334.941	42.0009	ppb	0.0393	0.1	12352.1
Tl 190.794	15.2482	ppb	1.9064	12.5	7.6054
V 292.401	43.2315	ppb	0.2720	0.6	1197.39
Zn 206.200	60.9924	ppb	1.0315	1.7	65.0789

CRI (Samp)

3/21/2015, 4:03:52 AM

Rack 4, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.2576	10.1753	10.2495
Al 308.215	203.472	209.423	208.307
As 188.980	19.2123	24.0368	21.7119
B 249.678	100.518	102.104	102.734
Ba 389.178	9.8288	9.6861	10.1966
Be 313.042	4.2414	4.3197	4.3098
Ca 370.602	532.0	533.7	535.5
Cd 226.502	5.1162	5.1344	5.1897
Co 228.615	10.1685	10.6597	10.3533
Cr 267.716	10.3465	10.4599	10.7138
Cu 324.754	21.9166	22.3633	22.0193
Fe 271.441	50.4046	53.4598	53.7804
K 766.491	1128.82	1151.96	1149.98
Mg 279.078	515.097	527.125	525.917
Mn 257.610	10.9214	11.1428	11.1126
Mo 202.032	9.9732	10.3331	9.8616
Na 330.237	954.611	1103.40	1099.72
Ni 231.604	42.2762	43.3005	43.8182
Pb 220.353	7.1999	9.7310	8.5586
Sb 206.834	23.1867	19.1128	22.1036
Se 196.026	17.5414	20.3612	15.2632
Sn 189.925	52.6526	52.7960	48.4621
Sr 216.596	9.6338	9.9456	10.1804
Ti 334.941	10.1266	10.2442	10.2837

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Tl 190.794	23.1016	24.6147	24.4812
V 292.401	10.2640	10.7244	10.5186
Zn 206.200	20.6491	21.7557	20.2437

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2275	ppb	0.0453	0.4	902.031
Al 308.215	207.067	ppb	3.1634	1.5	1979.15
As 188.980	21.6537	ppb	2.4128	11.1	9.3914
B 249.678	101.785	ppb	1.1414	1.1	1911.47
Ba 389.178	9.9038	ppb	0.2634	2.7	182.648
Be 313.042	4.2903	ppb	0.0426	1.0	7844.50
Ca 370.602	533.8	ppb	1.748	0.3	1816
Cd 226.502	5.1468	ppb	0.0383	0.7	256.549
Co 228.615	10.3938	ppb	0.2481	2.4	108.838
Cr 267.716	10.5067	ppb	0.1881	1.8	599.519
Cu 324.754	22.0997	ppb	0.2339	1.1	2194.02
Fe 271.441	52.5483	ppb	1.8634	3.5	86.2354
K 766.491	1143.59	ppb	12.8262	1.1	54285.1
Mg 279.078	522.713	ppb	6.6232	1.3	1541.45
Mn 257.610	11.0589	ppb	0.1201	1.1	2567.75
Mo 202.032	10.0560	ppb	0.2464	2.5	69.6310
Na 330.237	1052.57	ppb	84.8582	8.1	83.4735
Ni 231.604	43.1316	ppb	0.7847	1.8	131.039
Pb 220.353	8.4965	ppb	1.2667	14.9	23.5863
Sb 206.834	21.4677	ppb	2.1101	9.8	33.4072
Se 196.026	17.7220	ppb	2.5538	14.4	6.3947
Sn 189.925	51.3036	ppb	2.4618	4.8	31.5514
Sr 216.596	9.9199	ppb	0.2742	2.8	118.544
Ti 334.941	10.2182	ppb	0.0817	0.8	2998.48
Tl 190.794	24.0658	ppb	0.8377	3.5	17.5742
V 292.401	10.5023	ppb	0.2307	2.2	280.330
Zn 206.200	20.8828	ppb	0.7826	3.7	22.6091

Cont Calib Verif (CCV) 3/21/2015, 4:08:39 AM Rack 4, Tube 49

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	502.954	494.022	504.914
Al 308.215	5017.97	4886.67	4993.50
As 188.980	504.721	494.526	509.651
B 249.678	501.240	489.931	501.667
Ba 389.178	5008.31	4895.17	5004.94
Be 313.042	502.243	489.544	502.989
Ca 370.602	5053	4928	5029
Cd 226.502	506.313	493.142	503.054
Co 228.615	509.084	496.984	507.545
Cr 267.716	5124.46	4999.66	5110.01
Cu 324.754	5359.88	5156.12	5316.27
Fe 271.441	5018.35	4916.03	5006.93
K 766.491	10980.7	10713.3	10970.8
Mg 279.078	5040.85	4912.81	5022.28
Mn 257.610	5133.13	5011.26	5116.16
Mo 202.032	501.230	489.266	499.344
Na 330.237	7688.02	7448.42	7599.59

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Ni 231.604	2571.80	2501.45	2554.80
Pb 220.353	503.416	491.647	501.736
Sb 206.834	1016.83	996.097	1007.19
Se 196.026	5115.84	5000.27	5098.80
Sn 189.925	4987.53	4850.17	5015.10
Sr 216.596	2477.48	2413.39	2468.42
Ti 334.941	498.841	486.392	497.821
Tl 190.794	5137.45	5002.69	5112.98
V 292.401	5051.22	4927.99	5031.22
Zn 206.200	2491.40	2429.51	2468.43

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.630	ppb	5.8058	1.2	44938.8	100.12602
Al 308.215	4966.05	ppb	69.8228	1.4	37194.0	99.32092
As 188.980	502.966	ppb	7.7135	1.5	365.058	100.59322
B 249.678	497.612	ppb	6.6560	1.3	9022.42	99.52248
Ba 389.178	4969.47	ppb	64.3719	1.3	113056	99.38943
Be 313.042	498.258	ppb	7.5562	1.5	961956	99.65167
Ca 370.602	5003	ppb	66.06	1.3	17241	100.06711
Cd 226.502	500.836	ppb	6.8600	1.4	22502.3	100.16725
Co 228.615	504.538	ppb	6.5870	1.3	5669.12	100.90755
Cr 267.716	5078.04	ppb	68.2660	1.3	273915	101.56083
Cu 324.754	5277.42	ppb	107.290	2.0	416024	105.54842
Fe 271.441	4980.44	ppb	56.0714	1.1	7972.31	99.60873
K 766.491	10888.3	ppb	151.642	1.4	514345	108.88257
Mg 279.078	4991.98	ppb	69.1865	1.4	14407.9	99.83964
Mn 257.610	5086.85	ppb	66.0089	1.3	1150092	101.73703
Mo 202.032	496.613	ppb	6.4326	1.3	3188.70	99.32261
Na 330.237	7578.68	ppb	121.165	1.6	385.871	101.04903
Ni 231.604	2542.68	ppb	36.7067	1.4	7956.27	101.70724
Pb 220.353	498.933	ppb	6.3657	1.3	800.907	99.78658
Sb 206.834	1006.70	ppb	10.3743	1.0	1506.86	100.67049
Se 196.026	5071.64	ppb	62.3874	1.2	2247.61	101.43272
Sn 189.925	4950.94	ppb	88.3474	1.8	3644.05	99.01872
Sr 216.596	2453.10	ppb	34.6868	1.4	29229.8	98.12382
Ti 334.941	494.352	ppb	6.9116	1.4	145248	98.87030
Tl 190.794	5084.38	ppb	71.7924	1.4	5600.64	101.68750
V 292.401	5003.47	ppb	66.1318	1.3	141271	100.06949
Zn 206.200	2463.11	ppb	31.2856	1.3	2598.16	98.52451

Cont Calib Blank (CCB)

3/21/2015, 4:13:27 AM

Rack 4, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0762	0.0916	0.0418
Al 308.215	-3.1555u	-3.1508u	-4.8308u
As 188.980	-3.9716u	2.0424	0.6931
B 249.678	4.8564	4.3096	3.1979
Ba 389.178	-0.3162u	0.0118	-0.2096u
Be 313.042	0.0147	0.0110	0.0193
Ca 370.602	4.270	1.091	4.252
Cd 226.502	0.0730	0.1052	0.0469
Co 228.615	-0.0483u	0.4827	0.2584
Cr 267.716	0.2429	0.2273	0.1731

E03202015B.wvq. All Data Report 3/23/2015, 9:01:10 AM

Label	Replicates Concentration		
Cu 324.754	-0.1104u	-0.2361u	-0.0625u
Fe 271.441	8.4936	2.6494	12.1560
K 766.491	0.2530	-0.4948u	-1.3476u
Mg 279.078	-0.5258u	-1.0549u	1.6642
Mn 257.610	0.1543	0.1201	0.1330
Mo 202.032	0.2860	0.7005	0.9950
Na 330.237	121.089	113.381	19.1069
Ni 231.604	0.6259	1.4471	0.6836
Pb 220.353	-0.5539u	-1.4317u	-1.7571u
Sb 206.834	-2.8417u	2.3013	5.4690
Se 196.026	0.5693	-5.4016u	2.6720
Sn 189.925	1.5632	2.9724	0.6273
Sr 216.596	0.3467	-0.1051u	0.3976
Ti 334.941	0.1542	0.0897	0.0618
Tl 190.794	-0.9119u	-3.1401u	-0.2589u
V 292.401	0.1981	0.3472	0.4711
Zn 206.200	1.4479	-0.2487u	0.1662

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0699	ppb	0.0255	36.5	-10.8151	0.06986
Al 308.215	-3.7124	ppb	0.9686	26.1	449.962	-3.71236
As 188.980	-0.4120	ppb	3.1556	765.9	-6.9195	-0.41204
B 249.678	4.1213	ppb	0.8452	20.5	157.603	4.12132
Ba 389.178	-0.1713	ppb	0.1673	97.6	-47.8098	-0.17134
Be 313.042	0.0150	ppb	0.0042	27.9	-410.638	0.01500
Ca 370.602	3.204	ppb	1.830	57.1	26.37	3.20434
Cd 226.502	0.0750	ppb	0.0292	38.9	28.9674	0.07504
Co 228.615	0.2309	ppb	0.2665	115.4	-5.3587	0.23091
Cr 267.716	0.2144	ppb	0.0366	17.1	44.3910	0.21441
Cu 324.754	-0.1363	ppb	0.0897	65.8	442.543	-0.13632
Fe 271.441	7.7663	ppb	4.7949	61.7	14.2170	7.76633
K 766.491	-0.5298	ppb	0.8009	151.2	269.758	-0.52983
Mg 279.078	0.0278	ppb	1.4416	5178.1	23.7290	0.02784
Mn 257.610	0.1358	ppb	0.0172	12.7	94.0384	0.13579
Mo 202.032	0.6605	ppb	0.3562	53.9	9.3107	0.66051
Na 330.237	84.5257	ppb	56.7853	67.2	34.3318	84.52573
Ni 231.604	0.9188	ppb	0.4584	49.9	-1.1073	0.91885
Pb 220.353	-1.2476	ppb	0.6224	49.9	8.2398	-1.24757
Sb 206.834	1.6429	ppb	4.1943	255.3	4.9574	1.64288
Se 196.026	-0.7201	ppb	4.1884	581.6	-1.7822	-0.72009
Sn 189.925	1.7210	ppb	1.1805	68.6	-5.0062	1.72097
Sr 216.596	0.2131	ppb	0.2767	129.9	3.6356	0.21305
Ti 334.941	0.1019	ppb	0.0474	46.5	25.3704	0.10188
Tl 190.794	-1.4370	ppb	1.5107	105.1	-10.5247	-1.43699
V 292.401	0.3388	ppb	0.1367	40.4	-4.9504	0.33879
Zn 206.200	0.4551	ppb	0.8845	194.3	1.0029	0.45513

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Batch Number: 375261 Batch Start Date: 03/19/15 11:17 Batch Analyst: Boyuk, Brian J

Batch Method: 3010A Batch End Date: 03/19/15 15:42

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00032	MS_LCS1_WK 00018	MS_LCS2_wk 00173
MB 680-375261/1		3010A, 6010C			50 mL	50 mL			
LCS 680-375261/2		3010A, 6010C			50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-110742-A-1	25LM20112	3010A, 6010C	T	<2	50 mL	50 mL			
680-110742-A-2	25LM20116	3010A, 6010C	T	<2	50 mL	50 mL			
680-110742-A-3	25LM20117	3010A, 6010C	T	<2	50 mL	50 mL			
LCSD 680-375261/10		3010A, 6010C			50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL

Batch Notes	
First End time	1530
Lot # of hydrochloric acid	3959043
Lot # of Nitric Acid	3953070
Hot Block ID number	HB7
Oven, Bath or Block Temperature 1	97 Degrees C
pH Paper Lot Number	224012
Pipette ID	ME8
First Start time	1130
ID number of the thermometer	ME Prep 13
Digestion Tube/Cup Lot #	3825343
Uncorrected Temperature	95 Degrees C
Vendor of Reagent used	Macron

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-110742-1

SDG No.: _____

Project: SEAD-25 Long Term Monitoring

Client Sample ID	Lab Sample ID
<u>25LM20112</u>	<u>680-110742-1</u>
<u>25LM20116</u>	<u>680-110742-2</u>
<u>25LM20117</u>	<u>680-110742-3</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

SDG ID.:

Matrix: Water

Date Sampled: 03/17/2015 11:08

Reporting Basis: WET

Date Received: 03/18/2015 09:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.24	0.050	0.010	mg/L			1	353.2
14797-65-0	Nitrite as N	ND	0.050	0.010	mg/L			1	353.2

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

SDG ID.:

Matrix: Water

Date Sampled: 03/17/2015 13:02

Reporting Basis: WET

Date Received: 03/18/2015 09:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.85	0.050	0.010	mg/L			1	353.2
14797-65-0	Nitrite as N	0.013	0.050	0.010	mg/L	J		1	353.2

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

SDG ID.: _____

Matrix: Water

Date Sampled: 03/17/2015 14:51

Reporting Basis: WET

Date Received: 03/18/2015 09:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.066	0.050	0.010	mg/L			1	353.2
14797-65-0	Nitrite as N	ND	0.050	0.010	mg/L			1	353.2

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1
 SDG No.: _____
 Analyst: GRX Batch Start Date: 03/18/2015
 Reporting Units: mg/L Analytical Batch No.: 375288

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	18:13	Nitrate as N	0.514	0.500	103			NO3+NO2 ICV_00066
			Nitrite as N	0.488	0.500	98			NO3+NO2 ICV_00066
8	ICB	18:14	Nitrate as N	ND					
			Nitrite as N	ND					
11	CCV	18:18	Nitrate as N	0.502	0.500	100	75-125		NO3/NO2 LCS_00076
			Nitrite as N	0.490	0.500	98	90-110		NO3/NO2 LCS_00076
12	CCB	18:19	Nitrate as N	ND					
			Nitrite as N	ND					
21	CCV	18:32	Nitrate as N	0.574	0.500	115	75-125		NO3/NO2 LCS_00076
			Nitrite as N	0.491	0.500	98	90-110		NO3/NO2 LCS_00076
22	CCB	18:33	Nitrate as N	ND					
			Nitrite as N	ND					
28	CCV	18:42	Nitrate as N	0.580	0.500	116	75-125		NO3/NO2 LCS_00076
			Nitrite as N	0.490	0.500	98	90-110		NO3/NO2 LCS_00076
29	CCB	18:43	Nitrate as N	ND					
			Nitrite as N	ND					

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah

Job No.: 680-110742-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 375288 Date: 03/18/2015 18:20							
353.2	MB 680-375288/13	Nitrate as N	ND		mg/L	0.050	1
353.2	MB 680-375288/13	Nitrite as N	ND		mg/L	0.050	1

7A-IN
 LAB CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 375288		Date: 03/18/2015 18:24									
						LCS Source: NO3/NO2 LCS_00076					
353.2	LCS 680-375288/16	Nitrate as N	0.525		mg/L	0.500	105	75-125			
353.2	LCS 680-375288/16	Nitrite as N	0.489		mg/L	0.500	98	90-110			

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-110742-1
SDG Number: _____
Matrix: Water Instrument ID: LACHAT2
Method: 353.2 MDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.05	0.01
Nitrite as N		0.05	0.01

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-110742-1
SDG Number: _____
Matrix: Water Instrument ID: LACHAT2
Method: 353.2 XMDL Date: 01/01/2011 16:03

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.05	0.01
Nitrite as N		0.05	0.01

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Instrument ID: LACHAT2 Method: 353.2

Start Date: 03/18/2015 18:06 End Date: 03/18/2015 18:43

Lab Sample ID	D / F	Type	Time	Analytes															
				N - N O 2	N O 3														
IC 680-375288/1			18:06	X	X														
IC 680-375288/2			18:07	X	X														
IC 680-375288/3			18:08	X	X														
IC 680-375288/4			18:09	X	X														
IC 680-375288/5			18:11	X	X														
IC 680-375288/6			18:12	X	X														
ICV 680-375288/7	1		18:13	X	X														
ICB 680-375288/8	1		18:14	X	X														
ZZZZZZ			18:15																
ZZZZZZ			18:17																
CCV 680-375288/11	1		18:18	X	X														
CCB 680-375288/12	1		18:19	X	X														
MB 680-375288/13	1	T	18:20	X	X														
ZZZZZZ			18:21																
ZZZZZZ			18:23																
LCS 680-375288/16	1	T	18:24	X	X														
ZZZZZZ			18:25																
ZZZZZZ			18:26																
ZZZZZZ			18:27																
ZZZZZZ			18:31																
CCV 680-375288/21	1		18:32	X	X														
CCB 680-375288/22	1		18:33	X	X														
680-110742-1	1	T	18:35	X	X														
680-110742-2	1	T	18:36	X	X														
680-110742-3	1	T	18:37	X	X														
ZZZZZZ			18:38																
ZZZZZZ			18:39																
CCV 680-375288/28	1		18:42	X	X														
CCB 680-375288/29	1		18:43	X	X														

Prep Types

T = Total/NA

Original Run Filename: OM_3-18-2015_18-05-14.OMN Created: 3/18/2015 18:05:14
 Original Run Author's Signature: [rossje]
 Current Run Filename: OM_3-18-2015_18-05-14.OMN Last Modified: 3/18/2015 18:45:35
 Current Run Author's Signature: [rossje]
 Description: 353.2 NITRATE+NITRITE
 LACHAT 2

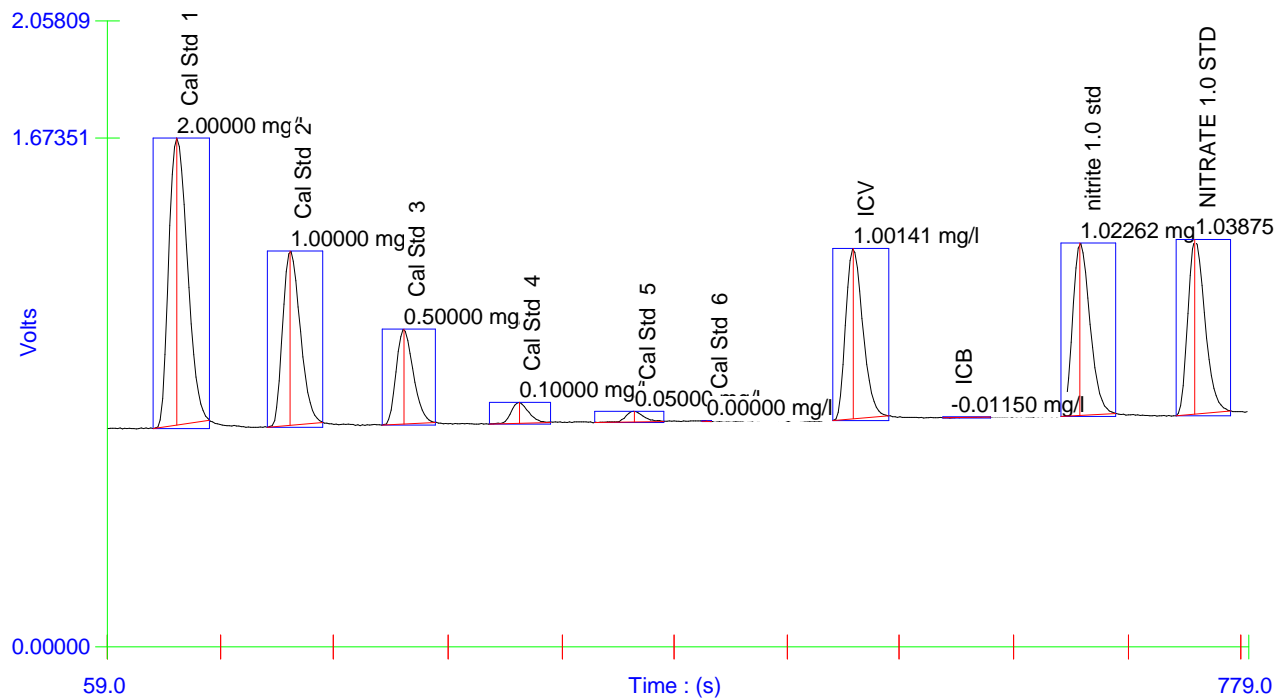
Sample	Cup No.	Channel 1		Channel 2		Detection Time	ADF	MDF
		NO3+NO2		NO2				
		Conc. (mg/l)	Area (V.s)	Conc. (mg/l)	Area (V.s)			
Cal Std 1	S5	2.00000	12.85119	1.00000	13.83653	3/18/2015@18:06:17		
Cal Std 2	S9	1.00000	7.35635	0.50000	6.68730	3/18/2015@18:07:28		
Cal Std 3	S10	0.50000	3.86480	0.25000	3.21332	3/18/2015@18:08:40		
Cal Std 4	S11	0.10000	0.85644	0.05000	0.64741	3/18/2015@18:09:53		
Cal Std 5	S12	0.05000	0.44448	0.02500	0.31912	3/18/2015@18:11:04		
Cal Std 6	S1	0.00000	0.00626	0.00000	0.01613	3/18/2015@18:12:16		
ICV	S3	1.00141	6.97139	0.48790	6.61383	3/18/2015@18:13:27		
Known Conc:		1.00000		0.50000				
Calibration:		Table/Fig. : 1		Table/Fig. : 2				
ICB	S1	-0.01150	0.00928	0.00223	0.01624	3/18/2015@18:14:38		
Known Conc:		0.00000		0.00000				
nitrite 1.0 std	S4	1.02262	7.11722	1.01341	13.75270	3/18/2015@18:15:50		
Known Conc:		1.00000		1.00000				
NITRATE 1.0 STD	S6	1.03875	7.22805	0.00213	0.01498	3/18/2015@18:17:03		
Known Conc:		1.00000		0.00000				
CCV	S2	0.99140	6.90261	0.48954	6.63616	3/18/2015@18:18:14		
Known Conc:		1.00000		0.50000				
CCB	S1	-0.01666	-0.02624	0.00144	0.00560	3/18/2015@18:19:25		
Known Conc:		0.00000		0.00000				
MB	S1	-0.01801	-0.03550	0.00176	0.00994	3/18/2015@18:20:36		
Known Conc:		0.00000		0.00000				
LLCS NO2	S7	0.08710	0.68694	0.04080	0.54024	3/18/2015@18:21:49		
Known Conc:		0.05000		0.05000				
LLCS NO3	S8	0.03769	0.34737	0.02069	0.26701	3/18/2015@18:23:03		
Known Conc:		0.05000		100.00000				
LCS	S2	1.01403	7.05815	0.48870	6.62477	3/18/2015@18:24:14		
Known Conc:		1.00000		0.50000				
680-110728-F-1	1	-0.00055	0.08450	0.00638	0.07259	3/18/2015@18:25:26		
680-110728-F-1 MS	2	1.05876	7.36558	0.51271	6.95093	3/18/2015@18:26:39		
680-110728-F-1 MSD	3	1.05943	7.37020	0.51325	6.95829	3/18/2015@18:27:51		
Spiking Conc:		1.00000		0.50000				
680-110738-G-1	4	-0.22945	-1.48882	0.13740	1.85243	3/18/2015@18:29:03		
680-110738-G-1 DU	4	-0.08483	-0.49479	0.15587	2.10337	3/18/2015@18:30:15		
680-110738-G-2	5	-0.01340	-0.00383	0.02783	0.36403	3/18/2015@18:31:27		
CCV	S2	1.06515	7.40954	0.49070	6.65188	3/18/2015@18:32:39		
Known Conc:		1.00000		0.50000				
CCB	S1	-0.00859	0.02926	0.00157	0.00729	3/18/2015@18:33:50		
Known Conc:		0.00000		0.00000				
680-110742-C-1	6	0.24326	1.76033	0.00158	0.00743	3/18/2015@18:35:02		
680-110742-C-2	7	0.85871	5.99059	0.01338	0.16771	3/18/2015@18:36:14		
680-110742-C-3	8	0.07211	0.58391	0.00566	0.06287	3/18/2015@18:37:26		
680-110738-G-1	4	-0.01489	-0.01407	0.00617	0.06980	3/18/2015@18:38:38		
680-110738-G-1 DU	4	-0.02201	-0.06298	0.00511	0.05546	3/18/2015@18:39:50		
CCV	S2	1.06982	7.44159	0.48991	6.64121	3/18/2015@18:42:36		
Known Conc:		1.00000		0.50000				
CCB	S1	-0.02345	-0.07291	0.00229	0.01712	3/18/2015@18:43:47		
Known Conc:		0.00000		0.00000				

Analyte Properties Table for : OM_3-18-2015_18-05-14.OMN

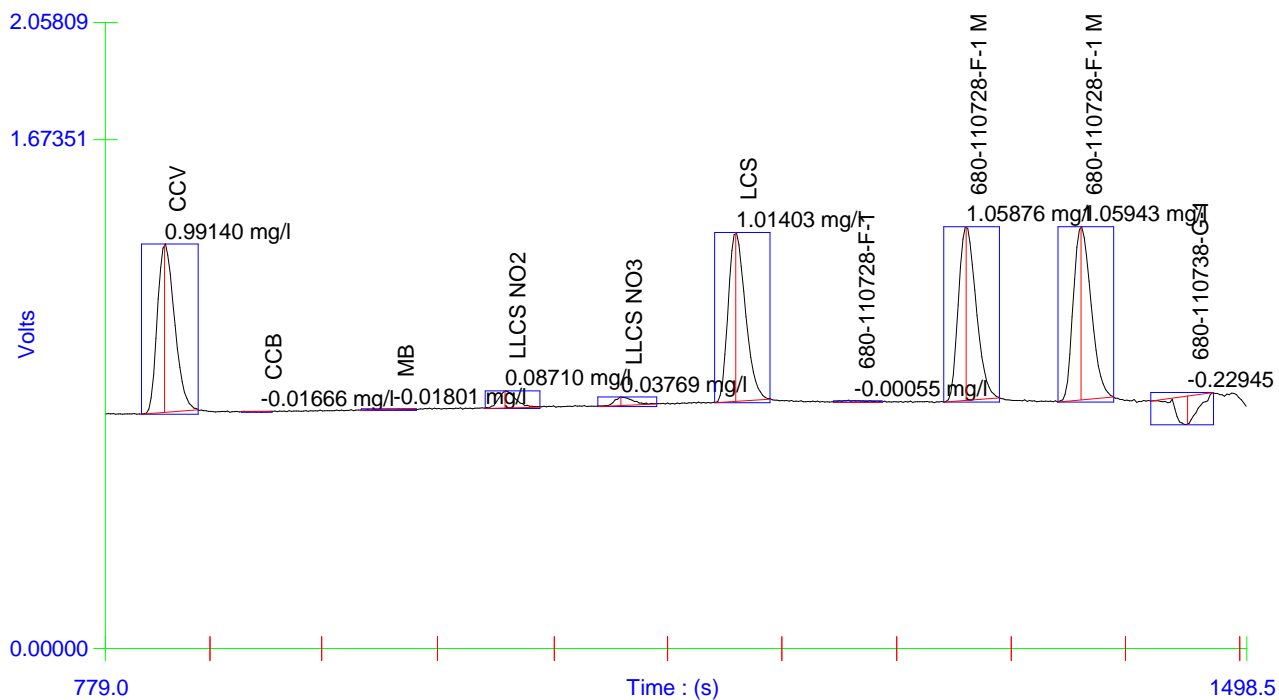
Property	Channel 1	Channel 2
	NO3+NO2	NO2
Concentration Units	mg/l	mg/l
Calibration Fit Type	First Order	First Order
Clear Calibration	No	No
Force through Zero	No	No

Calibration Weighting	1/x	1/x
Auto Dilution Trigger	Yes	Yes
% of High Standard	100	100
Quik Chem Method	10-107-04-1-C	10-107-04-1-C
Chemistry	Direct/Bipolar	Direct/Bipolar
Calibration by Height	No	No
Inject to Peak Start	16	16
Peak Base Width	50	47

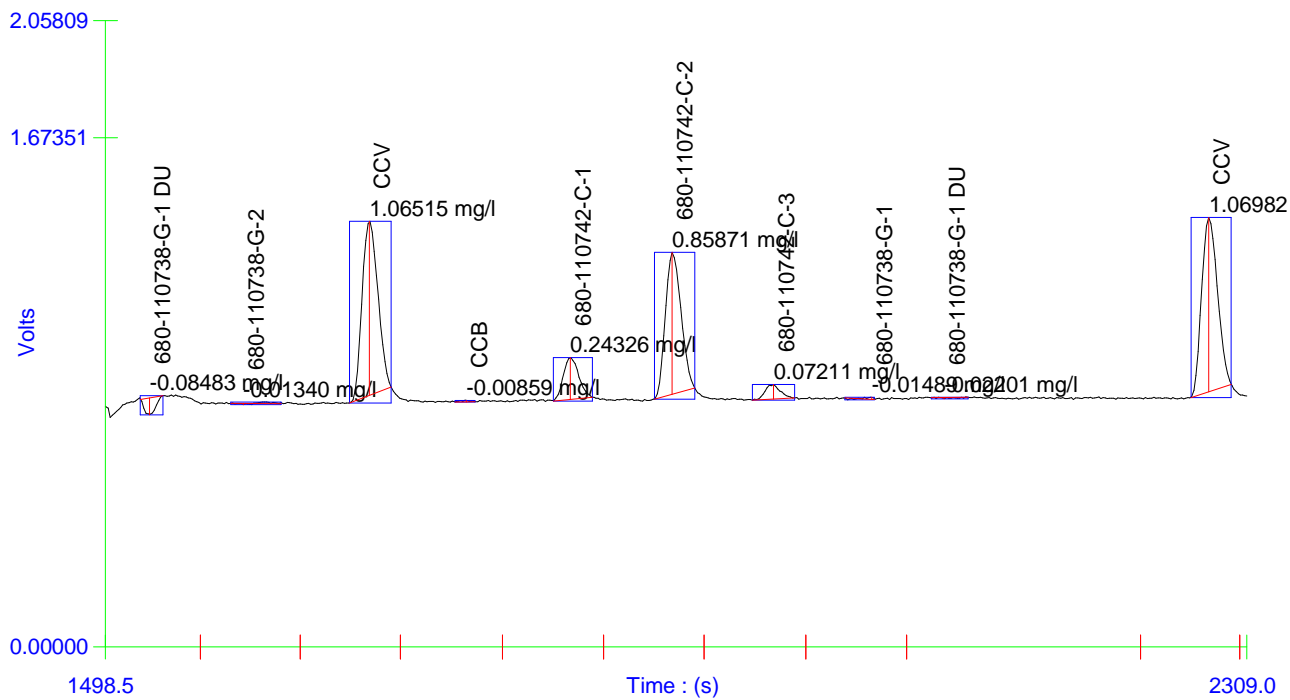
Channel 1 - Set: 1 / 4



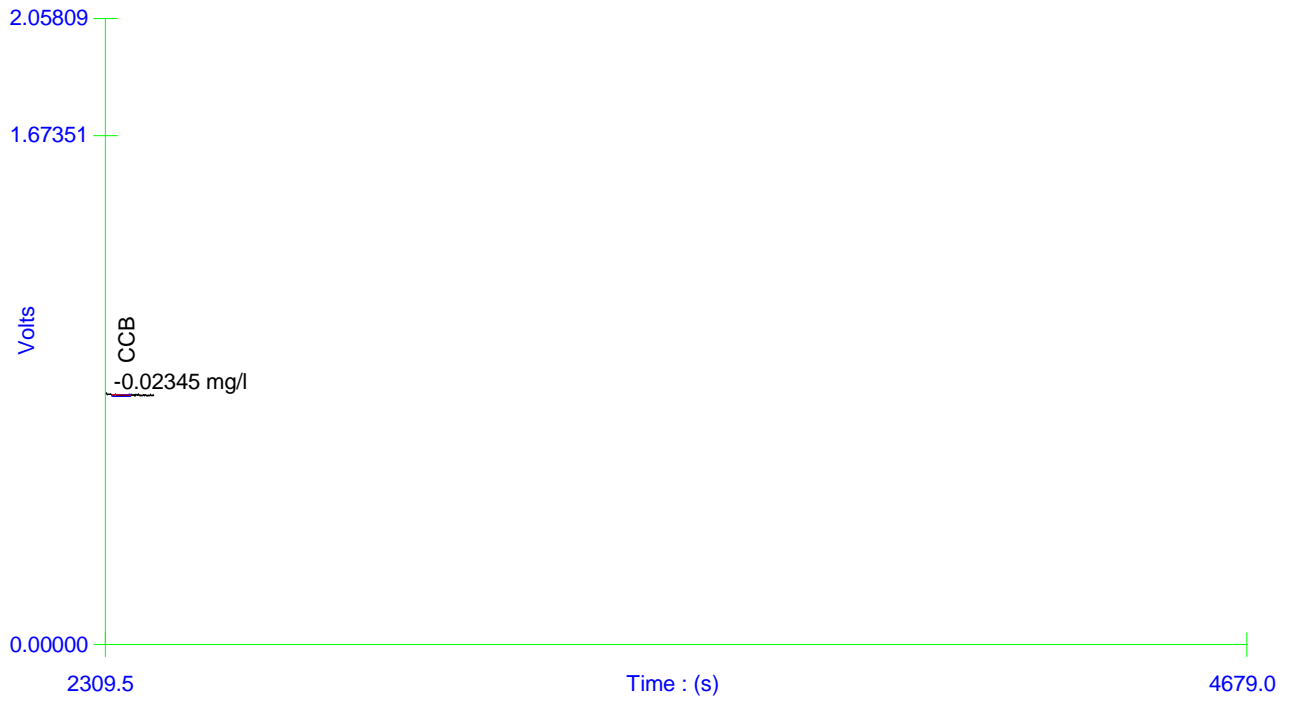
Channel 1 - Set: 2 / 4



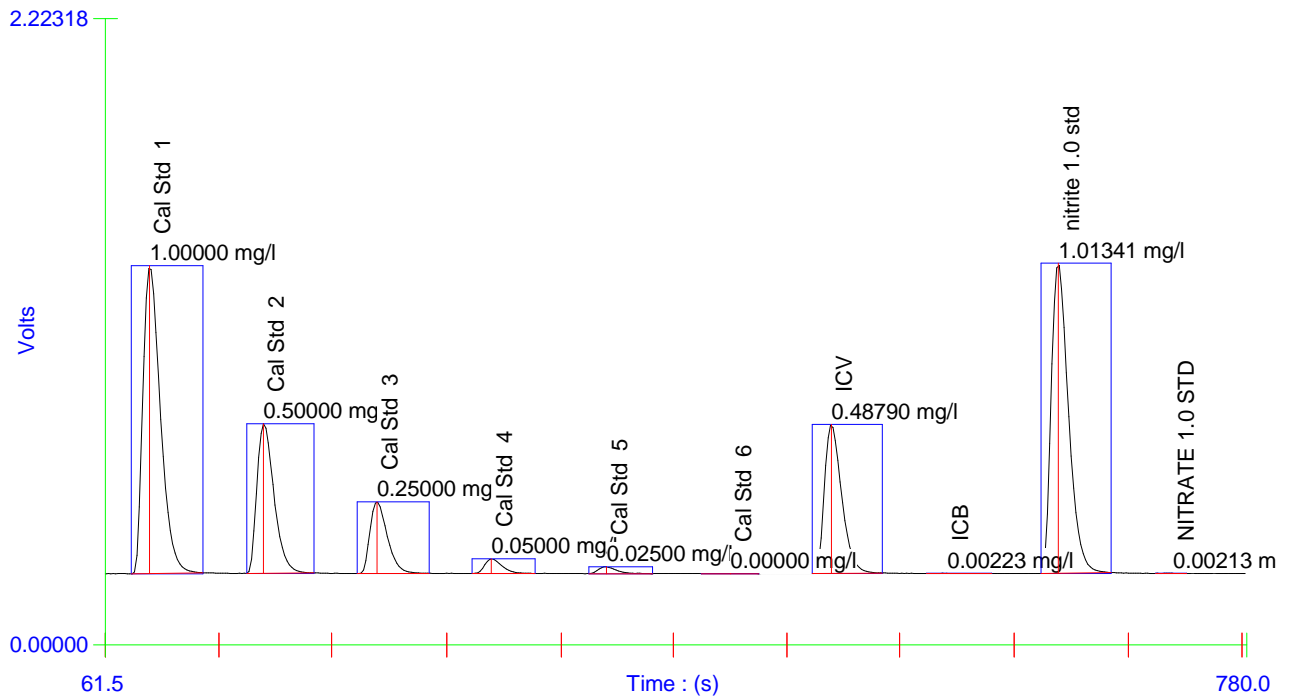
Channel 1 - Set: 3 / 4



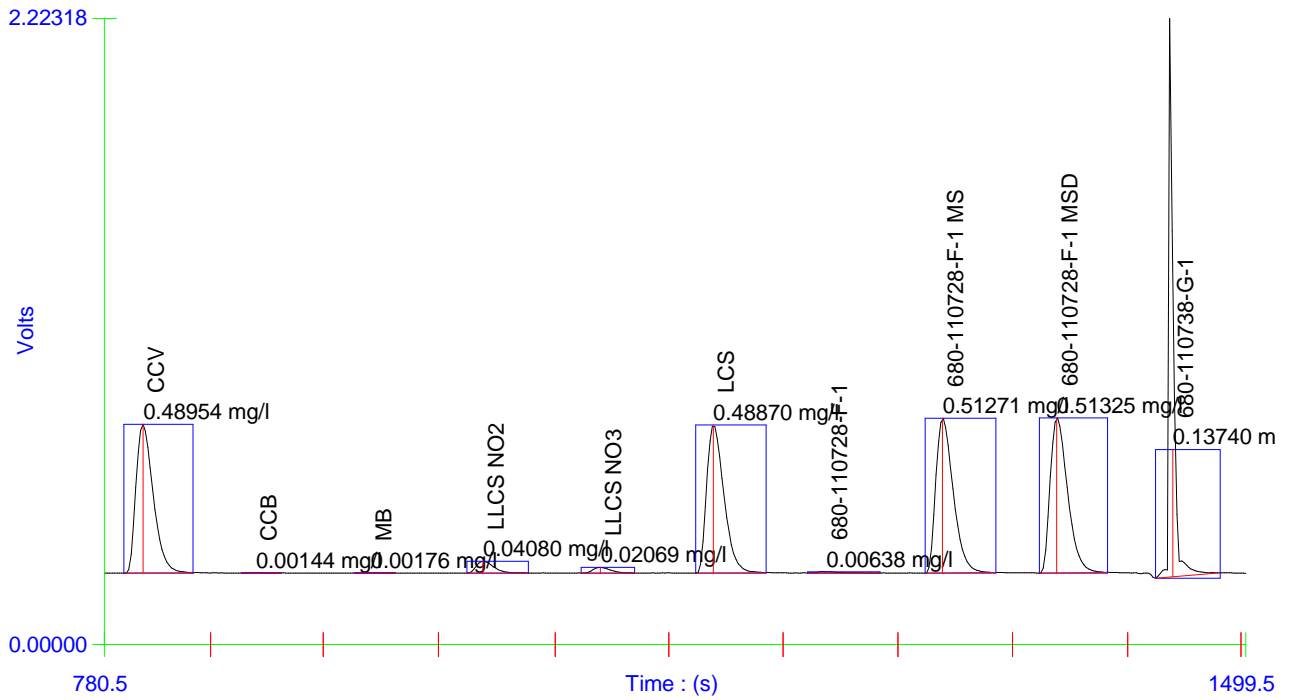
Channel 1 - Set: 4 / 4



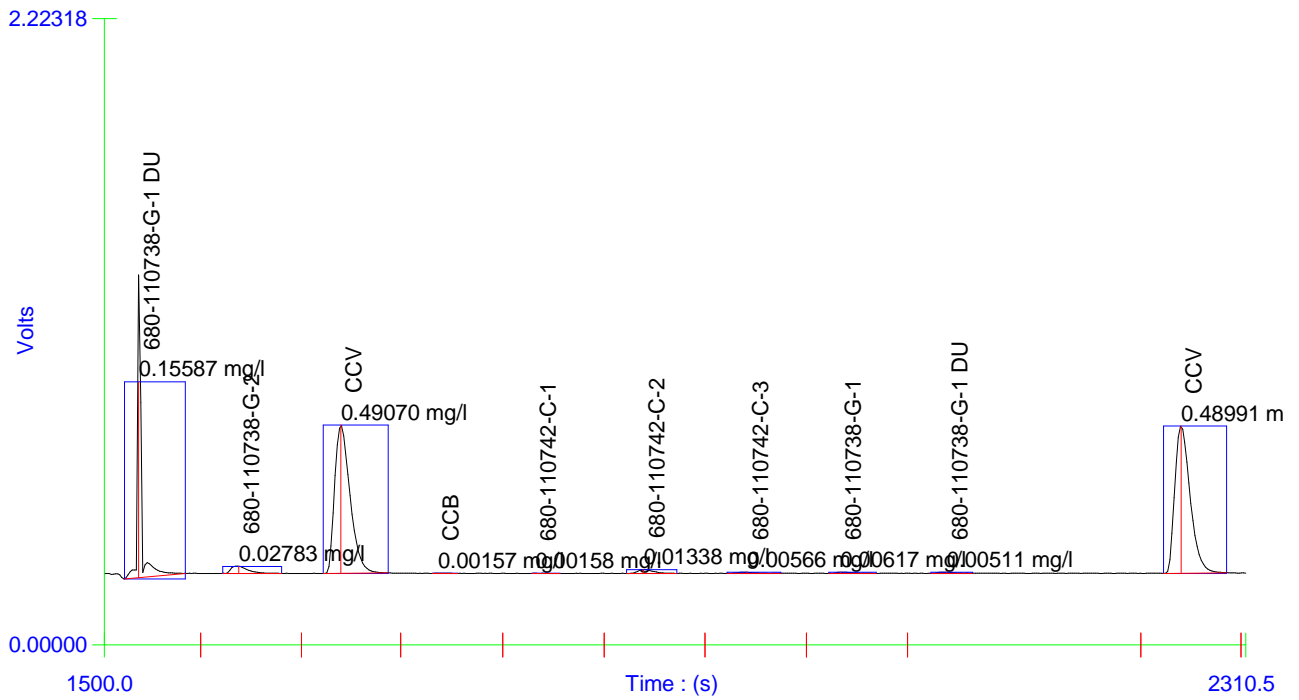
Channel 2 - Set: 1 / 4



Channel 2 - Set: 2 / 4



Channel 2 - Set: 3 / 4



Channel 2 - Set: 4 / 4



Table : 1 (NO3+NO2)

	Known Conc. (mg/l)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/l)	Detection Date	Detection Time
1	2.00000	1	12.85119	0.94431	0.0	6.5	1.85685	3/18/2015	18:06:17
2	1.00000	1	7.35635	0.57330	0.0	-6.3	1.05741	3/18/2015	18:07:28
3	0.50000	1	3.86480	0.31176	0.0	-10.3	0.54944	3/18/2015	18:08:40
4	0.10000	1	0.85644	0.06882	0.0	-10.5	0.11176	3/18/2015	18:09:53
5	0.05000	1	0.44448	0.03526	0.0	-2.4	0.05182	3/18/2015	18:11:04
6	0.00000	1	0.00626	0.00281			-0.01193	3/18/2015	18:12:16

Figure : 1 (NO3+NO2)

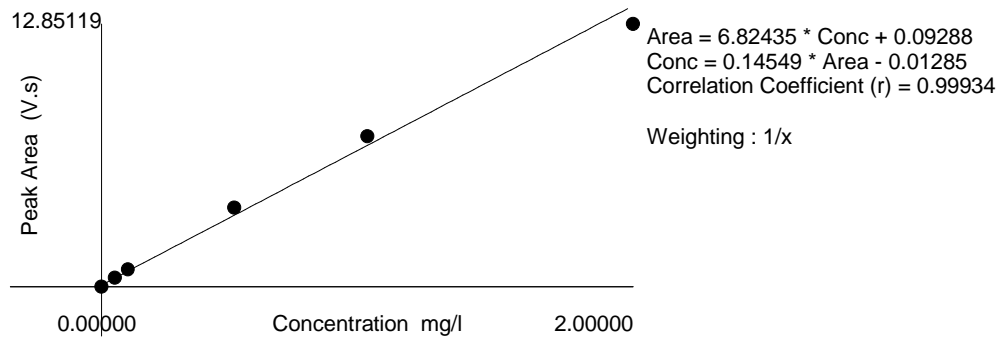
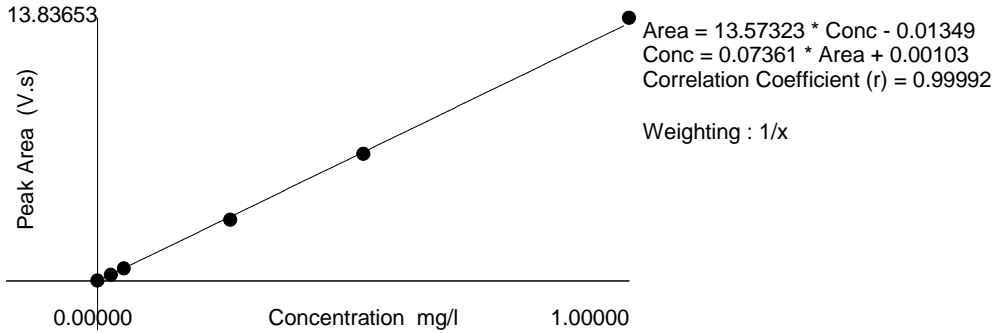


Table : 2 (NO2)

	Known Conc. (mg/l)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/l)	Detection Date	Detection Time
1	1.00000	1	13.83653	1.09330	0.0	-2.0	1.01958	3/18/2015	18:06:20
2	0.50000	1	6.68730	0.53186	0.0	1.3	0.49330	3/18/2015	18:07:32
3	0.25000	1	3.21332	0.25529	0.0	4.9	0.23757	3/18/2015	18:08:43
4	0.05000	1	0.64741	0.05218	0.0	2.7	0.04869	3/18/2015	18:09:55
5	0.02500	1	0.31912	0.02480	0.0	2.1	0.02452	3/18/2015	18:11:07
6	0.00000	1	0.01613	0.00077			0.00222	3/18/2015	18:12:18

Figure : 2 (NO2)



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-110742-1

SDG No.: _____

Batch Number: 375288 Batch Start Date: 03/18/15 18:06 Batch Analyst: Xiang, George R

Batch Method: 353.2 Batch End Date: 03/18/15 18:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NO3+NO2 ICV 00066	NO3/NO2 LCS 00076		
ICV 680-375288/7		353.2		2 mL	2 mL	2 mL			
ICB 680-375288/8		353.2		2 mL	2 mL				
CCV 680-375288/11		353.2		2 mL	2 mL		2 mL		
CCB 680-375288/12		353.2		2 mL	2 mL				
MB 680-375288/13		353.2		2 mL	2 mL				
LCS 680-375288/16		353.2		2 mL	2 mL		2 mL		
CCV 680-375288/21		353.2		2 mL	2 mL		2 mL		
CCB 680-375288/22		353.2		2 mL	2 mL				
680-110742-C-1	25LM20112	353.2	T	2 mL	2 mL				
680-110742-C-2	25LM20116	353.2	T	2 mL	2 mL				
680-110742-C-3	25LM20117	353.2	T	2 mL	2 mL				
CCV 680-375288/28		353.2		2 mL	2 mL		2 mL		
CCB 680-375288/29		353.2		2 mL	2 mL				

Batch Notes	
Buffer Lot #	3964350
Color Reagent Lot #	3964345
First End time	03/18/15 18:43
Pipette ID	gel
First Start time	03/18/15 18:06

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

STL JOB/LOG #

TestAmerica
 5102 LaRoche Avenue
 Savannah, GA 31404
 Ph: 912-354-7858
 Fax:
 Website: www.stl-inc.com

Possible Hazards: Unknown
 Sample Disposal: Lab Disposal

PROJECT & CLIENT INFORMATION

PROJECT NO. 748662-02400
 P.O. NUMBER 748662-02400
 LAB PROJECT MANAGER Linda Wolfe
 CLIENT (SITE) PM Cris Grill/Brendan Baranek-Olmstead
 CLIENT NAME Brendan Baranek-Olmstead@parsons.com
 CLIENT ADDRESS 100 High Street, 4th Floor, Boston, MA 02110
 Samplers Signature & Initials:

PROJECT STATE NY
 CONTRACT/QUOTE NO. 748662-02400
 CLIENT PHONE 617-285-6821 (BBO cell)
 CLIENT FAX 617-946-9777
 CLIENT EMAIL Brendan.Baranek-Olmstead@parsons.com

LABORATORY SAMPLE ID	SAMPLE TYPE	FIELD FILTERED	MATRIX
3172015	N GW		
3172015	N GW		
3172015	N GW		
3172015	N GW		

DATE	TIME	SAMPLE IDENTIFICATION
3/17/2015	1108	25LM20112
3/17/2015	1302	25LM20116
3/17/2015	1451	25LM20117
3/17/2015	1550	25LM00026

REQUIRED ANALYSES	NUMBER OF CONTAINERS SUBMITTED	REMARKS
SW B268B - VOC	1	
353.2 Nitrite and Nitrate (as separate analytes)	3	
300.1 Sulfate and Chloride (as separate analytes)	3	
RSK-175 - MEE	1	
SW 6010C - Iron / Sodium	2	

DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
3/17/15	1631	<i>[Signature]</i>			

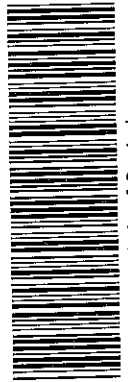
DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.
03/18/15	0934	YES	0

LABORATORY USE ONLY
 RECEIVED FOR LABORATORY BY: *[Signature]*
 LABORATORY REMARKS: 680-110742 2.8(CF)2.5c

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

Please use sample (25LM20114) and its associated MS/MSD for QA/QC analyses.



680-110742 Chain of Custody

- Please run a straight sample analysis (without dilution) for every sample.
- Please select sample VOA for analyst with the no (or least amount) of solids.
- Please use project samples for all QC analysis for MEE, nitrate, nitrite, sulfate, chloride, iron, and sodium analyses.
- Notify Client PM immediately if there are any problems/issues with the analysis.
- MS/MSD will be shipped tomorrow (3/18/15). Use 25LM20114 as QA/QC sample for all analyses.

Preservative

- 1 HCL
- 2 HNO3
- 3 H2SO4
- 8 Ice

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 680-110742-1

Login Number: 110742

List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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	
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?	N/A	
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.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-110742-1

Client Project/Site: SEAD-25 Long Term Monitoring

For:

Parsons Corporation

100 High Street

4th Floor

Boston, Massachusetts 02110-1713

Attn: Cris Grill

Linda A. Wolfe

Authorized for release by:

3/30/2015 4:11:40 PM

Linda Wolfe, Project Manager II

(912)354-7858 e.3005

linda.wolfe@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	5
Method Summary	6
Definitions	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	15
QC Sample Results	16
QC Association	22
Chronicle	24
Chain of Custody	26
Receipt Checklists	27
Certification Summary	28

Case Narrative

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Job ID: 680-110742-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Parsons Corporation

Project: SEAD-25 Long Term Monitoring

Report Number: 680-110742-1

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

RECEIPT

The samples were received on 03/18/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.5 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 25LM20112 (680-110742-1), 25LM20116 (680-110742-2), 25LM20117 (680-110742-3) and 25LM00026 (680-110742-4) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/27/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 376299.

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

DISSOLVED GASES

Samples 25LM20112 (680-110742-1), 25LM20116 (680-110742-2) and 25LM20117 (680-110742-3) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 03/18/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 375077.

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

METALS (ICP)

Samples 25LM20112 (680-110742-1), 25LM20116 (680-110742-2) and 25LM20117 (680-110742-3) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/19/2015 and analyzed on 03/20/2015.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples 25LM20112 (680-110742-1), 25LM20116 (680-110742-2) and 25LM20117 (680-110742-3) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 03/28/2015.

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

NITRATE-NITRITE AS NITROGEN

Samples 25LM20112 (680-110742-1), 25LM20116 (680-110742-2) and 25LM20117 (680-110742-3) were analyzed for nitrate-nitrite as

Case Narrative

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Job ID: 680-110742-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 03/18/2015.

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Sample Summary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-110742-1	25LM20112	Water	03/17/15 11:08	03/18/15 09:34
680-110742-2	25LM20116	Water	03/17/15 13:02	03/18/15 09:34
680-110742-3	25LM20117	Water	03/17/15 14:51	03/18/15 09:34
680-110742-4	25LM00026	Water	03/17/15 15:50	03/18/15 09:34

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Method Summary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Definitions/Glossary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Qualifiers

GC VOA

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

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.96		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	1.2		0.50	0.20	mg/L	1		300.0	Total/NA
Sulfate	16		1.0	0.40	mg/L	1		300.0	Total/NA
Sodium	5200		1000	500	ug/L	1		6010C	Total/NA
Nitrate as N	0.24		0.050	0.010	mg/L	1		353.2	Total/NA

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.6		1.0	0.48	ug/L	1		8260B	Total/NA
Methane	0.80		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	2.3		0.50	0.20	mg/L	1		300.0	Total/NA
Sulfate	25		1.0	0.40	mg/L	1		300.0	Total/NA
Iron	92	J	100	50	ug/L	1		6010C	Total/NA
Sodium	14000		1000	500	ug/L	1		6010C	Total/NA
Nitrate as N	0.85		0.050	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.013	J	0.050	0.010	mg/L	1		353.2	Total/NA

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.54	J	0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	2.1		0.50	0.20	mg/L	1		300.0	Total/NA
Sulfate	4.2		1.0	0.40	mg/L	1		300.0	Total/NA
Iron	200		100	50	ug/L	1		6010C	Total/NA
Sodium	9100		1000	500	ug/L	1		6010C	Total/NA
Nitrate as N	0.066		0.050	0.010	mg/L	1		353.2	Total/NA

Client Sample ID: 25LM00026

Lab Sample ID: 680-110742-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Date Collected: 03/17/15 11:08

Matrix: Water

Date Received: 03/18/15 09:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	7.0	ug/L			03/27/15 13:53	1
Benzene	ND		1.0	0.43	ug/L			03/27/15 13:53	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/27/15 13:53	1
Bromoform	ND		1.0	0.43	ug/L			03/27/15 13:53	1
Bromomethane	ND		5.0	2.5	ug/L			03/27/15 13:53	1
2-Butanone	ND		10	3.4	ug/L			03/27/15 13:53	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/27/15 13:53	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/27/15 13:53	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/27/15 13:53	1
Chloroethane	ND		5.0	2.5	ug/L			03/27/15 13:53	1
Chloroform	ND		1.0	0.50	ug/L			03/27/15 13:53	1
Chloromethane	ND		1.0	0.40	ug/L			03/27/15 13:53	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/27/15 13:53	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/27/15 13:53	1
Cyclohexane	ND		1.0	0.39	ug/L			03/27/15 13:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/15 13:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/27/15 13:53	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/27/15 13:53	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/27/15 13:53	1
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/27/15 13:53	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/27/15 13:53	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/27/15 13:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/15 13:53	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/27/15 13:53	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/27/15 13:53	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/27/15 13:53	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/27/15 13:53	1
2-Hexanone	ND		10	2.0	ug/L			03/27/15 13:53	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/27/15 13:53	1
Methyl acetate	ND		5.0	1.8	ug/L			03/27/15 13:53	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/27/15 13:53	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/27/15 13:53	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/27/15 13:53	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/27/15 13:53	1
Styrene	ND		1.0	0.27	ug/L			03/27/15 13:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/27/15 13:53	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/27/15 13:53	1
Toluene	ND		1.0	0.48	ug/L			03/27/15 13:53	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/27/15 13:53	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/27/15 13:53	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/27/15 13:53	1
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/27/15 13:53	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/27/15 13:53	1
Trichloroethene	ND		1.0	0.48	ug/L			03/27/15 13:53	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/27/15 13:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/27/15 13:53	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/27/15 13:53	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/27/15 13:53	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Date Collected: 03/17/15 11:08

Matrix: Water

Date Received: 03/18/15 09:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		03/27/15 13:53	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		03/27/15 13:53	1
Dibromofluoromethane (Surr)	97		70 - 130		03/27/15 13:53	1
4-Bromofluorobenzene (Surr)	90		70 - 130		03/27/15 13:53	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		1.1	0.55	ug/L			03/18/15 15:33	1
Ethene	ND		1.0	0.50	ug/L			03/18/15 15:33	1
Methane	0.96		0.58	0.29	ug/L			03/18/15 15:33	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		0.50	0.20	mg/L			03/28/15 00:28	1
Sulfate	16		1.0	0.40	mg/L			03/28/15 00:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	50	ug/L		03/19/15 11:17	03/20/15 19:38	1
Sodium	5200		1000	500	ug/L		03/19/15 11:17	03/20/15 19:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.24		0.050	0.010	mg/L			03/18/15 18:35	1
Nitrite as N	ND		0.050	0.010	mg/L			03/18/15 18:35	1

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Date Collected: 03/17/15 13:02

Matrix: Water

Date Received: 03/18/15 09:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	7.0	ug/L			03/27/15 16:21	1
Benzene	ND		1.0	0.43	ug/L			03/27/15 16:21	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/27/15 16:21	1
Bromoform	ND		1.0	0.43	ug/L			03/27/15 16:21	1
Bromomethane	ND		5.0	2.5	ug/L			03/27/15 16:21	1
2-Butanone	ND		10	3.4	ug/L			03/27/15 16:21	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/27/15 16:21	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/27/15 16:21	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/27/15 16:21	1
Chloroethane	ND		5.0	2.5	ug/L			03/27/15 16:21	1
Chloroform	ND		1.0	0.50	ug/L			03/27/15 16:21	1
Chloromethane	ND		1.0	0.40	ug/L			03/27/15 16:21	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/27/15 16:21	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/27/15 16:21	1
Cyclohexane	ND		1.0	0.39	ug/L			03/27/15 16:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/15 16:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/27/15 16:21	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/27/15 16:21	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/27/15 16:21	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Date Collected: 03/17/15 13:02

Matrix: Water

Date Received: 03/18/15 09:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/27/15 16:21	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/27/15 16:21	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/27/15 16:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/15 16:21	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/27/15 16:21	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/27/15 16:21	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/27/15 16:21	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/27/15 16:21	1
2-Hexanone	ND		10	2.0	ug/L			03/27/15 16:21	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/27/15 16:21	1
Methyl acetate	ND		5.0	1.8	ug/L			03/27/15 16:21	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/27/15 16:21	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/27/15 16:21	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/27/15 16:21	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/27/15 16:21	1
Styrene	ND		1.0	0.27	ug/L			03/27/15 16:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/27/15 16:21	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/27/15 16:21	1
Toluene	ND		1.0	0.48	ug/L			03/27/15 16:21	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/27/15 16:21	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/27/15 16:21	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/27/15 16:21	1
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/27/15 16:21	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/27/15 16:21	1
Trichloroethene	1.6		1.0	0.48	ug/L			03/27/15 16:21	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/27/15 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/27/15 16:21	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/27/15 16:21	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/27/15 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					03/27/15 16:21	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130					03/27/15 16:21	1
Dibromofluoromethane (Surr)	108		70 - 130					03/27/15 16:21	1
4-Bromofluorobenzene (Surr)	98		70 - 130					03/27/15 16:21	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		1.1	0.55	ug/L			03/18/15 15:46	1
Ethene	ND		1.0	0.50	ug/L			03/18/15 15:46	1
Methane	0.80		0.58	0.29	ug/L			03/18/15 15:46	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		0.50	0.20	mg/L			03/28/15 00:43	1
Sulfate	25		1.0	0.40	mg/L			03/28/15 00:43	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	92	J	100	50	ug/L		03/19/15 11:17	03/20/15 19:42	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Date Collected: 03/17/15 13:02

Matrix: Water

Date Received: 03/18/15 09:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	14000		1000	500	ug/L		03/19/15 11:17	03/20/15 19:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.85		0.050	0.010	mg/L			03/18/15 18:36	1
Nitrite as N	0.013	J	0.050	0.010	mg/L			03/18/15 18:36	1

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Date Collected: 03/17/15 14:51

Matrix: Water

Date Received: 03/18/15 09:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	7.0	ug/L			03/27/15 14:15	1
Benzene	ND		1.0	0.43	ug/L			03/27/15 14:15	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/27/15 14:15	1
Bromoform	ND		1.0	0.43	ug/L			03/27/15 14:15	1
Bromomethane	ND		5.0	2.5	ug/L			03/27/15 14:15	1
2-Butanone	ND		10	3.4	ug/L			03/27/15 14:15	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/27/15 14:15	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/27/15 14:15	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/27/15 14:15	1
Chloroethane	ND		5.0	2.5	ug/L			03/27/15 14:15	1
Chloroform	ND		1.0	0.50	ug/L			03/27/15 14:15	1
Chloromethane	ND		1.0	0.40	ug/L			03/27/15 14:15	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/27/15 14:15	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/27/15 14:15	1
Cyclohexane	ND		1.0	0.39	ug/L			03/27/15 14:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/15 14:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/27/15 14:15	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/27/15 14:15	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/27/15 14:15	1
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/27/15 14:15	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/27/15 14:15	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/27/15 14:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/15 14:15	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/27/15 14:15	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/27/15 14:15	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/27/15 14:15	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/27/15 14:15	1
2-Hexanone	ND		10	2.0	ug/L			03/27/15 14:15	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/27/15 14:15	1
Methyl acetate	ND		5.0	1.8	ug/L			03/27/15 14:15	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/27/15 14:15	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/27/15 14:15	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/27/15 14:15	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/27/15 14:15	1
Styrene	ND		1.0	0.27	ug/L			03/27/15 14:15	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/27/15 14:15	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/27/15 14:15	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Date Collected: 03/17/15 14:51

Matrix: Water

Date Received: 03/18/15 09:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.48	ug/L			03/27/15 14:15	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/27/15 14:15	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/27/15 14:15	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/27/15 14:15	1
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/27/15 14:15	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/27/15 14:15	1
Trichloroethene	ND		1.0	0.48	ug/L			03/27/15 14:15	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/27/15 14:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/27/15 14:15	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/27/15 14:15	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/27/15 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					03/27/15 14:15	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130					03/27/15 14:15	1
Dibromofluoromethane (Surr)	99		70 - 130					03/27/15 14:15	1
4-Bromofluorobenzene (Surr)	95		70 - 130					03/27/15 14:15	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		1.1	0.55	ug/L			03/18/15 15:59	1
Ethene	ND		1.0	0.50	ug/L			03/18/15 15:59	1
Methane	0.54	J	0.58	0.29	ug/L			03/18/15 15:59	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		0.50	0.20	mg/L			03/28/15 00:57	1
Sulfate	4.2		1.0	0.40	mg/L			03/28/15 00:57	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	200		100	50	ug/L		03/19/15 11:17	03/20/15 19:47	1
Sodium	9100		1000	500	ug/L		03/19/15 11:17	03/20/15 19:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.066		0.050	0.010	mg/L			03/18/15 18:37	1
Nitrite as N	ND		0.050	0.010	mg/L			03/18/15 18:37	1

Client Sample ID: 25LM00026

Lab Sample ID: 680-110742-4

Date Collected: 03/17/15 15:50

Matrix: Water

Date Received: 03/18/15 09:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	7.0	ug/L			03/27/15 12:23	1
Benzene	ND		1.0	0.43	ug/L			03/27/15 12:23	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/27/15 12:23	1
Bromoform	ND		1.0	0.43	ug/L			03/27/15 12:23	1
Bromomethane	ND		5.0	2.5	ug/L			03/27/15 12:23	1
2-Butanone	ND		10	3.4	ug/L			03/27/15 12:23	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Client Sample ID: 25LM00026

Lab Sample ID: 680-110742-4

Date Collected: 03/17/15 15:50

Matrix: Water

Date Received: 03/18/15 09:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	1.0	ug/L			03/27/15 12:23	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/27/15 12:23	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/27/15 12:23	1
Chloroethane	ND		5.0	2.5	ug/L			03/27/15 12:23	1
Chloroform	ND		1.0	0.50	ug/L			03/27/15 12:23	1
Chloromethane	ND		1.0	0.40	ug/L			03/27/15 12:23	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/27/15 12:23	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/27/15 12:23	1
Cyclohexane	ND		1.0	0.39	ug/L			03/27/15 12:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/15 12:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/27/15 12:23	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/27/15 12:23	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/27/15 12:23	1
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/27/15 12:23	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/27/15 12:23	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/27/15 12:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/15 12:23	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/27/15 12:23	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/27/15 12:23	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/27/15 12:23	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/27/15 12:23	1
2-Hexanone	ND		10	2.0	ug/L			03/27/15 12:23	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/27/15 12:23	1
Methyl acetate	ND		5.0	1.8	ug/L			03/27/15 12:23	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/27/15 12:23	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/27/15 12:23	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/27/15 12:23	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/27/15 12:23	1
Styrene	ND		1.0	0.27	ug/L			03/27/15 12:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/27/15 12:23	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/27/15 12:23	1
Toluene	ND		1.0	0.48	ug/L			03/27/15 12:23	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/27/15 12:23	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/27/15 12:23	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/27/15 12:23	1
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/27/15 12:23	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/27/15 12:23	1
Trichloroethene	ND		1.0	0.48	ug/L			03/27/15 12:23	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/27/15 12:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/27/15 12:23	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/27/15 12:23	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/27/15 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		03/27/15 12:23	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		03/27/15 12:23	1
Dibromofluoromethane (Surr)	101		70 - 130		03/27/15 12:23	1
4-Bromofluorobenzene (Surr)	92		70 - 130		03/27/15 12:23	1

TestAmerica Savannah

Surrogate Summary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL	12DCE	DBFM	BFB
		(70-130)	(70-130)	(70-130)	(70-130)
680-110742-1	25LM20112	98	98	97	90
680-110742-2	25LM20116	98	112	108	98
680-110742-3	25LM20117	100	97	99	95
680-110742-4	25LM00026	102	99	101	92
LCS 680-376299/4	Lab Control Sample	97	101	98	88
LCSD 680-376299/5	Lab Control Sample Dup	100	97	100	87
MB 680-376299/9	Method Blank	101	97	100	96

Surrogate Legend

TOL = Toluene-d8 (Surr)

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

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

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

Lab Sample ID: MB 680-376299/9

Matrix: Water

Analysis Batch: 376299

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	7.0	ug/L			03/27/15 11:10	1
Benzene	ND		1.0	0.43	ug/L			03/27/15 11:10	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/27/15 11:10	1
Bromoform	ND		1.0	0.43	ug/L			03/27/15 11:10	1
Bromomethane	ND		5.0	2.5	ug/L			03/27/15 11:10	1
2-Butanone	ND		10	3.4	ug/L			03/27/15 11:10	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/27/15 11:10	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/27/15 11:10	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/27/15 11:10	1
Chloroethane	ND		5.0	2.5	ug/L			03/27/15 11:10	1
Chloroform	ND		1.0	0.50	ug/L			03/27/15 11:10	1
Chloromethane	ND		1.0	0.40	ug/L			03/27/15 11:10	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/27/15 11:10	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/27/15 11:10	1
Cyclohexane	ND		1.0	0.39	ug/L			03/27/15 11:10	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/15 11:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/27/15 11:10	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/27/15 11:10	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/27/15 11:10	1
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/27/15 11:10	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/27/15 11:10	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/27/15 11:10	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/15 11:10	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/27/15 11:10	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/27/15 11:10	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/27/15 11:10	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/27/15 11:10	1
2-Hexanone	ND		10	2.0	ug/L			03/27/15 11:10	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/27/15 11:10	1
Methyl acetate	ND		5.0	1.8	ug/L			03/27/15 11:10	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/27/15 11:10	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/27/15 11:10	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/27/15 11:10	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/27/15 11:10	1
Styrene	ND		1.0	0.27	ug/L			03/27/15 11:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/27/15 11:10	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/27/15 11:10	1
Toluene	ND		1.0	0.48	ug/L			03/27/15 11:10	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/27/15 11:10	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/27/15 11:10	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/27/15 11:10	1
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/27/15 11:10	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/27/15 11:10	1
Trichloroethene	ND		1.0	0.48	ug/L			03/27/15 11:10	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/27/15 11:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/27/15 11:10	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/27/15 11:10	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/27/15 11:10	1

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

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

Lab Sample ID: MB 680-376299/9

Matrix: Water

Analysis Batch: 376299

Client Sample ID: Method Blank

Prep Type: Total/NA

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	101		70 - 130		03/27/15 11:10	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	97		70 - 130		03/27/15 11:10	1
<i>Dibromofluoromethane (Surr)</i>	100		70 - 130		03/27/15 11:10	1
<i>4-Bromofluorobenzene (Surr)</i>	96		70 - 130		03/27/15 11:10	1

Lab Sample ID: LCS 680-376299/4

Matrix: Water

Analysis Batch: 376299

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
Acetone	250	226		ug/L		90	60 - 154
Benzene	50.0	49.8		ug/L		100	73 - 131
Bromodichloromethane	50.0	49.5		ug/L		99	77 - 129
Bromoform	50.0	49.1		ug/L		98	69 - 135
Bromomethane	50.0	29.0		ug/L		58	20 - 180
2-Butanone	250	232		ug/L		93	75 - 133
Carbon disulfide	50.0	45.7		ug/L		91	73 - 127
Carbon tetrachloride	50.0	49.3		ug/L		99	75 - 130
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120
Chloroethane	50.0	36.5		ug/L		73	50 - 151
Chloroform	50.0	50.1		ug/L		100	79 - 122
Chloromethane	50.0	38.4		ug/L		77	63 - 126
cis-1,2-Dichloroethene	50.0	48.7		ug/L		97	80 - 122
cis-1,3-Dichloropropene	50.0	50.0		ug/L		100	80 - 133
Cyclohexane	50.0	47.1		ug/L		94	69 - 130
Dibromochloromethane	50.0	51.2		ug/L		102	71 - 136
1,2-Dibromo-3-Chloropropane	50.0	55.9		ug/L		112	59 - 141
1,2-Dibromoethane	50.0	50.1		ug/L		100	77 - 131
1,2-Dichlorobenzene	50.0	48.6		ug/L		97	80 - 120
1,3-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120
1,4-Dichlorobenzene	50.0	49.0		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	32.1		ug/L		64	51 - 140
1,1-Dichloroethane	50.0	49.7		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	51.7		ug/L		103	75 - 130
1,1,1-Dichloroethene	50.0	44.3		ug/L		89	74 - 125
1,2-Dichloropropane	50.0	48.2		ug/L		96	80 - 123
Ethylbenzene	50.0	49.4		ug/L		99	80 - 120
2-Hexanone	250	243		ug/L		97	70 - 141
Isopropylbenzene	50.0	49.2		ug/L		98	80 - 120
Methyl acetate	250	279		ug/L		111	66 - 134
Methylcyclohexane	50.0	46.8		ug/L		94	75 - 127
Methylene Chloride	50.0	47.5		ug/L		95	76 - 129
4-Methyl-2-pentanone	250	255		ug/L		102	75 - 135
Methyl tert-butyl ether	50.0	49.9		ug/L		100	74 - 135
Styrene	50.0	47.1		ug/L		94	80 - 122
1,1,1,2,2-Tetrachloroethane	50.0	51.8		ug/L		104	72 - 128
Tetrachloroethene	50.0	50.2		ug/L		100	77 - 123
Toluene	50.0	48.7		ug/L		97	80 - 122

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

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

Lab Sample ID: LCS 680-376299/4

Matrix: Water

Analysis Batch: 376299

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	47.2		ug/L		94	78 - 123
trans-1,3-Dichloropropene	50.0	52.5		ug/L		105	74 - 140
1,2,4-Trichlorobenzene	50.0	49.7		ug/L		99	77 - 131
1,1,1-Trichloroethane	50.0	48.3		ug/L		97	74 - 128
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	79 - 125
Trichloroethene	50.0	49.8		ug/L		100	80 - 123
Trichlorofluoromethane	50.0	39.3		ug/L		79	58 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.6		ug/L		87	65 - 131
Vinyl chloride	50.0	45.9		ug/L		92	68 - 132
Xylenes, Total	100	96.3		ug/L		96	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 680-376299/5

Matrix: Water

Analysis Batch: 376299

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	217		ug/L		87	60 - 154	4	40
Benzene	50.0	50.7		ug/L		101	73 - 131	2	30
Bromodichloromethane	50.0	49.0		ug/L		98	77 - 129	1	20
Bromoform	50.0	50.1		ug/L		100	69 - 135	2	20
Bromomethane	50.0	34.0		ug/L		68	20 - 180	16	40
2-Butanone	250	231		ug/L		93	75 - 133	0	30
Carbon disulfide	50.0	47.2		ug/L		94	73 - 127	3	20
Carbon tetrachloride	50.0	51.6		ug/L		103	75 - 130	5	20
Chlorobenzene	50.0	50.0		ug/L		100	80 - 120	0	20
Chloroethane	50.0	39.7		ug/L		79	50 - 151	9	30
Chloroform	50.0	50.5		ug/L		101	79 - 122	1	20
Chloromethane	50.0	39.1		ug/L		78	63 - 126	2	30
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 122	2	20
cis-1,3-Dichloropropene	50.0	48.5		ug/L		97	80 - 133	3	20
Cyclohexane	50.0	50.4		ug/L		101	69 - 130	7	30
Dibromochloromethane	50.0	49.1		ug/L		98	71 - 136	4	20
1,2-Dibromo-3-Chloropropane	50.0	56.3		ug/L		113	59 - 141	1	30
1,2-Dibromoethane	50.0	49.2		ug/L		98	77 - 131	2	30
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120	2	20
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120	2	20
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120	1	20
Dichlorodifluoromethane	50.0	34.0		ug/L		68	51 - 140	6	40
1,1-Dichloroethane	50.0	50.6		ug/L		101	80 - 120	2	20
1,2-Dichloroethane	50.0	50.1		ug/L		100	75 - 130	3	20
1,1-Dichloroethene	50.0	46.1		ug/L		92	74 - 125	4	20

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

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

Lab Sample ID: LCSD 680-376299/5

Matrix: Water

Analysis Batch: 376299

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
1,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 123	2	20	
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120	1	20	
2-Hexanone	250	245		ug/L		98	70 - 141	1	40	
Isopropylbenzene	50.0	51.3		ug/L		103	80 - 120	4	20	
Methyl acetate	250	277		ug/L		111	66 - 134	1	30	
Methylcyclohexane	50.0	49.9		ug/L		100	75 - 127	7	30	
Methylene Chloride	50.0	48.3		ug/L		97	76 - 129	2	20	
4-Methyl-2-pentanone	250	256		ug/L		103	75 - 135	0	30	
Methyl tert-butyl ether	50.0	49.8		ug/L		100	74 - 135	0	20	
Styrene	50.0	48.5		ug/L		97	80 - 122	3	20	
1,1,1,2-Tetrachloroethane	50.0	52.2		ug/L		104	72 - 128	1	20	
Tetrachloroethene	50.0	49.9		ug/L		100	77 - 123	1	20	
Toluene	50.0	49.7		ug/L		99	80 - 122	2	20	
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	78 - 123	6	20	
trans-1,3-Dichloropropene	50.0	52.4		ug/L		105	74 - 140	0	20	
1,2,4-Trichlorobenzene	50.0	49.7		ug/L		99	77 - 131	0	20	
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	74 - 128	6	20	
1,1,2-Trichloroethane	50.0	49.1		ug/L		98	79 - 125	1	20	
Trichloroethene	50.0	50.0		ug/L		100	80 - 123	0	20	
Trichlorofluoromethane	50.0	52.1		ug/L		104	58 - 145	28	30	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.4		ug/L		95	65 - 131	8	30	
Vinyl chloride	50.0	48.1		ug/L		96	68 - 132	5	30	
Xylenes, Total	100	99.0		ug/L		99	80 - 120	3	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	87		70 - 130

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-375077/8

Matrix: Water

Analysis Batch: 375077

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethane	ND		1.1	0.55	ug/L			03/18/15 11:11	1
Ethene	ND		1.0	0.50	ug/L			03/18/15 11:11	1
Methane	ND		0.58	0.29	ug/L			03/18/15 11:11	1

Lab Sample ID: LCS 680-375077/6

Matrix: Water

Analysis Batch: 375077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							RPD	Limit
Ethane	288	296		ug/L		103	75 - 125	

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 680-375077/6
 Matrix: Water
 Analysis Batch: 375077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethene	269	279		ug/L		104	75 - 125
Methane	154	164		ug/L		107	75 - 125

Lab Sample ID: LCSD 680-375077/23
 Matrix: Water
 Analysis Batch: 375077

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethene	288	300		ug/L		104	75 - 125	2	30
Ethene	269	277		ug/L		103	75 - 125	1	30
Methane	154	170		ug/L		111	75 - 125	4	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-376520/25
 Matrix: Water
 Analysis Batch: 376520

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.20	mg/L			03/27/15 20:36	1
Sulfate	ND		1.0	0.40	mg/L			03/27/15 20:36	1

Lab Sample ID: LCS 680-376520/26
 Matrix: Water
 Analysis Batch: 376520

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.4		mg/L		104	90 - 110
Sulfate	10.0	9.72		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-376520/27
 Matrix: Water
 Analysis Batch: 376520

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.4		mg/L		104	90 - 110	0	30
Sulfate	10.0	9.75		mg/L		98	90 - 110	0	30

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-375261/1-A
 Matrix: Water
 Analysis Batch: 375647

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 375261

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	50	ug/L		03/19/15 11:17	03/20/15 18:50	1
Sodium	ND		1000	500	ug/L		03/19/15 11:17	03/20/15 18:50	1

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

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

Lab Sample ID: LCS 680-375261/2-A
 Matrix: Water
 Analysis Batch: 375647

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 375261

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5000	5070		ug/L		101	80 - 120
Sodium	5000	5190		ug/L		104	80 - 120

Lab Sample ID: LCSD 680-375261/10-A
 Matrix: Water
 Analysis Batch: 375647

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 375261

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	5000	5050		ug/L		101	80 - 120	0	20
Sodium	5000	5280		ug/L		106	80 - 120	2	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-375288/13
 Matrix: Water
 Analysis Batch: 375288

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	0.010	mg/L			03/18/15 18:20	1
Nitrite as N	ND		0.050	0.010	mg/L			03/18/15 18:20	1

Lab Sample ID: LCS 680-375288/16
 Matrix: Water
 Analysis Batch: 375288

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.500	0.525		mg/L		105	75 - 125
Nitrite as N	0.500	0.489		mg/L		98	90 - 110

QC Association Summary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

GC/MS VOA

Analysis Batch: 376299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110742-1	25LM20112	Total/NA	Water	8260B	
680-110742-2	25LM20116	Total/NA	Water	8260B	
680-110742-3	25LM20117	Total/NA	Water	8260B	
680-110742-4	25LM00026	Total/NA	Water	8260B	
LCS 680-376299/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-376299/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-376299/9	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 375077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110742-1	25LM20112	Total/NA	Water	RSK-175	
680-110742-2	25LM20116	Total/NA	Water	RSK-175	
680-110742-3	25LM20117	Total/NA	Water	RSK-175	
LCS 680-375077/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-375077/23	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 680-375077/8	Method Blank	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 376520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110742-1	25LM20112	Total/NA	Water	300.0	
680-110742-2	25LM20116	Total/NA	Water	300.0	
680-110742-3	25LM20117	Total/NA	Water	300.0	
LCS 680-376520/26	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-376520/27	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-376520/25	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 375261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110742-1	25LM20112	Total/NA	Water	3010A	
680-110742-2	25LM20116	Total/NA	Water	3010A	
680-110742-3	25LM20117	Total/NA	Water	3010A	
LCS 680-375261/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 680-375261/10-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 680-375261/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 375647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110742-1	25LM20112	Total/NA	Water	6010C	375261
680-110742-2	25LM20116	Total/NA	Water	6010C	375261
680-110742-3	25LM20117	Total/NA	Water	6010C	375261
LCS 680-375261/2-A	Lab Control Sample	Total/NA	Water	6010C	375261
LCSD 680-375261/10-A	Lab Control Sample Dup	Total/NA	Water	6010C	375261
MB 680-375261/1-A	Method Blank	Total/NA	Water	6010C	375261

TestAmerica Savannah

QC Association Summary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

General Chemistry

Analysis Batch: 375288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110742-1	25LM20112	Total/NA	Water	353.2	
680-110742-2	25LM20116	Total/NA	Water	353.2	
680-110742-3	25LM20117	Total/NA	Water	353.2	
LCS 680-375288/16	Lab Control Sample	Total/NA	Water	353.2	
MB 680-375288/13	Method Blank	Total/NA	Water	353.2	

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Lab Chronicle

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Client Sample ID: 25LM20112

Lab Sample ID: 680-110742-1

Date Collected: 03/17/15 11:08

Matrix: Water

Date Received: 03/18/15 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	376299	03/27/15 13:53	MMT	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	375077	03/18/15 15:33	AJMC	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	300.0		1	5 mL	5 mL	376520	03/28/15 00:28	DAS	TAL SAV
		Instrument ID: CICL								
Total/NA	Prep	3010A			50 mL	50 mL	375261	03/19/15 11:17	BJB	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	375647	03/20/15 19:38	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	353.2		1	2 mL	2 mL	375288	03/18/15 18:35	GRX	TAL SAV
		Instrument ID: LACHAT2								

Client Sample ID: 25LM20116

Lab Sample ID: 680-110742-2

Date Collected: 03/17/15 13:02

Matrix: Water

Date Received: 03/18/15 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	376299	03/27/15 16:21	MMT	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	375077	03/18/15 15:46	AJMC	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	300.0		1	5 mL	5 mL	376520	03/28/15 00:43	DAS	TAL SAV
		Instrument ID: CICL								
Total/NA	Prep	3010A			50 mL	50 mL	375261	03/19/15 11:17	BJB	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	375647	03/20/15 19:42	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	353.2		1	2 mL	2 mL	375288	03/18/15 18:36	GRX	TAL SAV
		Instrument ID: LACHAT2								

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Date Collected: 03/17/15 14:51

Matrix: Water

Date Received: 03/18/15 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	376299	03/27/15 14:15	MMT	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	375077	03/18/15 15:59	AJMC	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	300.0		1	5 mL	5 mL	376520	03/28/15 00:57	DAS	TAL SAV
		Instrument ID: CICL								
Total/NA	Prep	3010A			50 mL	50 mL	375261	03/19/15 11:17	BJB	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	375647	03/20/15 19:47	BCB	TAL SAV
		Instrument ID: ICPE								

TestAmerica Savannah

Lab Chronicle

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Client Sample ID: 25LM20117

Lab Sample ID: 680-110742-3

Date Collected: 03/17/15 14:51

Matrix: Water

Date Received: 03/18/15 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	375288	03/18/15 18:37	GRX	TAL SAV
Instrument ID: LACHAT2										

Client Sample ID: 25LM00026

Lab Sample ID: 680-110742-4

Date Collected: 03/17/15 15:51

Matrix: Water


Date Received: 03/18/15 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	376299	03/27/15 12:23	MMT	TAL SAV
Instrument ID: CMSO2										

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD															
TestAmerica															
TestAmerica 5102 LaRoche Avenue Savannah, GA 31404 Ph: 912-354-7858 Fax: Website: www.stl-inc.com						STL JOBLOG # Possible Hazards: Unknown Sample Disposal: Lab Disposal PAGE 1 OF 1									
PROJECT & CLIENT INFORMATION			Project State			Sample Information			REQUIRED ANALYSES						
PROJECT REFERENCE NAME	PROJECT NO.	IVY	CONTRACT/Quote NO.	LAB PROJECT MANAGER	P.O. NUMBER	LABORATORY SAMPLE ID	SAMPLE TYPE	FIELD FILTERED	MATRIX	SW 826DB - VOC	353.2 Nitrite and Nitrate (as separate analytes)	300.1 Sulfite and Chloride (as separate analytes)	RSK-175 - MEE	SW 6010C - Iron / Sodium	Final Report Type: ASP2000, Category B EDD 30 calendar days TAT/ DATE DUE 30 calendar days EXPEDITED REPORT (single one) EMAIL or FAX TAT/ DATE DUE
Linda Wolfe	748662-02400		748662-02400		748662-02400										NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX	CLIENT EMAIL	CLIENT ADDRESS											
Cris Grill/Brendan Baranek-Olms/lead	617-285-6821 (BBO cell)	617-946-9777	Brendan.Baranek-Olms@patsons.com	100 High Street, 4th Floor, Boston, MA 02110											
Patsons				Samplers Signature & Initials:											
SAMPLED ON		TIME		SAMPLE IDENTIFICATION											
DATE	DATE	TIME	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
3/17/2015	3/17/2015	1108	1631	25LM20112		N	GW			3	1	1	3	1	
3/17/2015	3/17/2015	1302	1631	25LM20116		N	GW			3	1	1	3	1	
3/17/2015	3/17/2015	1451	1631	25LM20117		N	GW			3	1	1	3	1	
3/17/2015	3/17/2015	1550	1631	25LM00026		N	GW			2					



660-110742 Chain of Custody

Please use sample (25LM20114) and its associated MS/MSD for QA/QC analyses.			
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
<i>[Signature]</i>	3/17/15	1631	
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
<i>[Signature]</i>	03/18/15	0934	

LABORATORY USE ONLY			
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY SEAL NO.
<i>[Signature]</i>	03/18/15	0934	8

REMARKS: 660-110742 2.8(CF)2.5E

1. Please run a straight sample analysis (without dilution) for every sample.
 2. Please select sample VOA for analyst with the no (or least amount) of solids.
 3. Please use project samples for all QC analysis for MEE, nitrate, nitrite, sulfate, chloride, iron, and sodium analyses.
 4. Notify Client PM immediately if there are any problems/issues with the analysis.
 5. MS/MSD will be shipped tomorrow (3/18/15). Use 25LM20114 as QA/QC sample for all analyses.

Preservative
 1 HCL
 2 HNO3
 3 H2SO4
 8 Ice



Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 680-110742-1

Login Number: 110742

List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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	
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?	N/A	
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.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110742-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10842	03-31-15 *

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

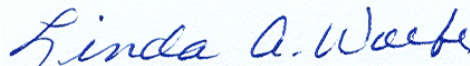
* Certification renewal pending - certification considered valid.

ANALYTICAL REPORT

Job Number: 680-110788-1

Job Description: SEAD-25 Long Term Monitoring

For:
Parsons Corporation
100 High Street
4th Floor
Boston, MA 02110-1713
Attention: Cris Grill



Approved for release.
Linda A Wolfe
Project Manager II
3/31/2015 3:14 PM

Linda A Wolfe, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3005
linda.wolfe@testamericainc.com
03/31/2015

cc: Mr. Brendan Baranek-Olmstead
Ms. Julia Kiberd

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com



Table of Contents

Cover Title Page	1
Data Summaries	6
Report Narrative	6
Sample Summary	7
Executive Summary	8
Method Summary	9
Method / Analyst Summary	10
Sample Datasheets	11
Surrogate Summary	39
QC Data Summary	40
Data Qualifiers	68
QC Association Summary	69
Lab Chronicle	72
Organic Sample Data	76
GC/MS VOA	76
Method 8260B	76
Method 8260B QC Summary	77
Method 8260B Sample Data	100
Standards Data	123
Method 8260B ICAL Data	123
Method 8260B CCAL Data	209
Raw QC Data	237
Method 8260B Tune Data	237
Method 8260B Blank Data	249
Method 8260B LCS/LCSD Data	257
Method 8260B MS/MSD Data	281

Table of Contents

Method 8260B Run Logs	293
GC VOA	297
Method RSK-175	297
Method RSK-175 QC Summary	298
Method RSK-175 Sample Data	303
Standards Data	315
Method RSK-175 ICAL Data	315
Method RSK-175 CCAL Data	336
Raw QC Data	348
Method RSK-175 Blank Data	348
Method RSK-175 LCS/LCSD Data	351
Method RSK-175 MS/MSD Data	357
Method RSK-175 Run Logs	363
HPLC/IC	369
300_ORGFM_28D	369
300_ORGFM_28D QC Summary	370
300_ORGFM_28D Sample Data	380
Standards Data	401
300_ORGFM_28D ICAL Data	401
300_ORGFM_28D CCAL Data	421
Raw QC Data	450
300_ORGFM_28D Blank Data	450
300_ORGFM_28D LCS/LCSD Data	456
300_ORGFM_28D MS/MSD Data	468
300_ORGFM_28D Run Logs	482
Inorganic Sample Data	485

Table of Contents

Metals Data	485
Met Cover Page	486
Met Sample Data	487
Met QC Data	491
Met ICV/CCV	491
Met CRQL	493
Met Blanks	494
Met ICSA/ICSAB	497
Met MS/MSD/PDS	499
Met LCS/LCSD	501
Met MDL	502
Met IECF	504
Met Preparation Log	506
Met Analysis Run Log	507
Met Raw Data	511
Met Prep Data	681
General Chemistry Data	682
Gen Chem Cover Page	683
Gen Chem Sample Data	684
Gen Chem QC Data	688
Gen Chem ICV/CCV	688
Gen Chem Blanks	689
Gen Chem MS/MSD/PDS	690
Gen Chem LCS/LCSD	692
Gen Chem MDL	693
Gen Chem Analysis Run Log	695

Table of Contents

Gen Chem Raw Data	696
Gen Chem Prep Data	707
Shipping and Receiving Documents	709
Client Chain of Custody	709
Sample Receipt Checklist	710

CASE NARRATIVE

Client: Parsons Corporation

Project: SEAD-25 Long Term Monitoring

Report Number: 680-110788-1

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

RECEIPT

The samples were received on 03/19/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.5 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 25LM20113 (680-110788-1), 25LM20114 (680-110788-2), 25LM20115 (680-110788-3), 25LM00112 (680-110788-4) and 25LM00027 (680-110788-5) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/30/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 376701.

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

DISSOLVED GASES

Samples 25LM20113 (680-110788-1), 25LM20114 (680-110788-2), 25LM20115 (680-110788-3) and 25LM00112 (680-110788-4) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 03/24/2015.

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

METALS (ICP)

Samples 25LM20113 (680-110788-1), 25LM20114 (680-110788-2), 25LM20115 (680-110788-3) and 25LM00112 (680-110788-4) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared and analyzed on 03/23/2015.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples 25LM20113 (680-110788-1), 25LM20114 (680-110788-2), 25LM20115 (680-110788-3) and 25LM00112 (680-110788-4) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 03/26/2015 and 03/27/2015.

Samples 25LM20114 (680-110788-2)[2X] and 25LM20115 (680-110788-3)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

NITRATE-NITRITE AS NITROGEN

Samples 25LM20113 (680-110788-1), 25LM20114 (680-110788-2), 25LM20115 (680-110788-3) and 25LM00112 (680-110788-4) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 03/19/2015.

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

SAMPLE SUMMARY

Client: Parsons Corporation

Job Number: 680-110788-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-110788-1	25LM20113	Water	03/18/2015 1100	03/19/2015 0819
680-110788-2	25LM20114	Water	03/18/2015 1215	03/19/2015 0819
680-110788-2MSMS	25LM20114MS	Water	03/18/2015 1215	03/19/2015 0819
680-110788-2MSDM SD	25LM20114MSD	Water	03/18/2015 1215	03/19/2015 0819
680-110788-3	25LM20115	Water	03/18/2015 1215	03/19/2015 0819
680-110788-4	25LM00112	Water	03/18/2015 1430	03/19/2015 0819
680-110788-5TB	25LM00027	Water	03/18/2015 1430	03/19/2015 0819

EXECUTIVE SUMMARY - Detections

Client: Parsons Corporation

Job Number: 680-110788-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
680-110788-1	25LM20113					
Benzene		0.64	J	1.0	ug/L	8260B
Methane		4.2		0.58	ug/L	RSK-175
Iron		340		100	ug/L	6010C
Sodium		2500		1000	ug/L	6010C
Nitrate as N		1.3		0.050	mg/L	353.2
Chloride		0.74		0.50	mg/L	300.0
Sulfate		24		1.0	mg/L	300.0
680-110788-2	25LM20114					
Methane		1.7		0.58	ug/L	RSK-175
Sodium		6000		1000	ug/L	6010C
Nitrate as N		0.69		0.050	mg/L	353.2
Chloride		1.1		0.50	mg/L	300.0
Sulfate		70		2.0	mg/L	300.0
680-110788-3	25LM20115					
Methane		2.0		0.58	ug/L	RSK-175
Sodium		5800		1000	ug/L	6010C
Nitrate as N		0.69		0.050	mg/L	353.2
Chloride		1.1		0.50	mg/L	300.0
Sulfate		68		2.0	mg/L	300.0
680-110788-4	25LM00112					
Acetone		35		10	ug/L	8260B
Methane		0.79		0.58	ug/L	RSK-175
Chloride		0.26	J	0.50	mg/L	300.0
680-110788-5TB	25LM00027					
Acetone		9.5	J	10	ug/L	8260B

METHOD SUMMARY

Client: Parsons Corporation

Job Number: 680-110788-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Dissolved Gases (GC)	TAL SAV	RSK RSK-175	
Anions, Ion Chromatography	TAL SAV	MCAWW 300.0	
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Total Metals	TAL SAV		SW846 3010A
Nitrogen, Nitrate-Nitrite	TAL SAV	MCAWW 353.2	

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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

METHOD / ANALYST SUMMARY

Client: Parsons Corporation

Job Number: 680-110788-1

Method	Analyst	Analyst ID
SW846 8260B	D'Errico, Julie	JD1
RSK RSK-175	McNamara, Alison J	AJMc
SW846 6010C	Bland, Brian C	BCB
MCAWW 353.2	Xiang, George R	GRX
MCAWW 300.0	Orr, Ashley J	AJO

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Date Sampled: 03/18/2015 1100

Client Matrix: Water

Date Received: 03/19/2015 0819

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376701	Instrument ID:	CMSAC
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ACC3017.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1954			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,2-Dichloropropane	ND		0.67	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
2-Butanone	ND		3.4	10
2-Hexanone	ND		2.0	10
4-Methyl-2-pentanone	ND		2.1	10
Acetone	ND		7.0	10
Benzene	0.64	J	0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.60	1.0
Ethylbenzene	ND		0.33	1.0
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methyl tert-butyl ether	ND		0.30	10
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
Styrene	ND		0.27	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
Trichloroethene	ND		0.48	1.0
Trichlorofluoromethane	ND		0.42	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Date Sampled: 03/18/2015 1100

Client Matrix: Water

Date Received: 03/19/2015 0819

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376701	Instrument ID:	CMSAC
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ACC3017.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1954			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376701	Instrument ID:	CMSAC
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ACC3018.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 2017			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 2017				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,2-Dichloropropane	ND		0.67	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
2-Butanone	ND		3.4	10
2-Hexanone	ND		2.0	10
4-Methyl-2-pentanone	ND		2.1	10
Acetone	ND		7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.60	1.0
Ethylbenzene	ND		0.33	1.0
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methyl tert-butyl ether	ND		0.30	10
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
Styrene	ND		0.27	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
Trichloroethene	ND		0.48	1.0
Trichlorofluoromethane	ND		0.42	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376701	Instrument ID:	CMSAC
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ACC3018.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 2017			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 2017				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376701	Instrument ID:	CMSAC
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ACC3019.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 2040			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 2040				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,2-Dichloropropane	ND		0.67	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
2-Butanone	ND		3.4	10
2-Hexanone	ND		2.0	10
4-Methyl-2-pentanone	ND		2.1	10
Acetone	ND		7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.60	1.0
Ethylbenzene	ND		0.33	1.0
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methyl tert-butyl ether	ND		0.30	10
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
Styrene	ND		0.27	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
Trichloroethene	ND		0.48	1.0
Trichlorofluoromethane	ND		0.42	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376701	Instrument ID:	CMSAC
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ACC3019.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 2040			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 2040				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Date Sampled: 03/18/2015 1430

Client Matrix: Water

Date Received: 03/19/2015 0819

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376701	Instrument ID:	CMSAC
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ACC3020.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 2102			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 2102				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,2-Dichloropropane	ND		0.67	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
2-Butanone	ND		3.4	10
2-Hexanone	ND		2.0	10
4-Methyl-2-pentanone	ND		2.1	10
Acetone	35		7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.60	1.0
Ethylbenzene	ND		0.33	1.0
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methyl tert-butyl ether	ND		0.30	10
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
Styrene	ND		0.27	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
Trichloroethene	ND		0.48	1.0
Trichlorofluoromethane	ND		0.42	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Date Sampled: 03/18/2015 1430

Client Matrix: Water

Date Received: 03/19/2015 0819

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376701	Instrument ID:	CMSAC
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ACC3020.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 2102			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 2102				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM00027

Lab Sample ID: 680-110788-5TB

Date Sampled: 03/18/2015 1430

Client Matrix: Water

Date Received: 03/19/2015 0819

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376701	Instrument ID:	CMSAC
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ACC3010.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1716			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1716				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,2-Dichloropropane	ND		0.67	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
2-Butanone	ND		3.4	10
2-Hexanone	ND		2.0	10
4-Methyl-2-pentanone	ND		2.1	10
Acetone	9.5	J	7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.60	1.0
Ethylbenzene	ND		0.33	1.0
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methyl tert-butyl ether	ND		0.30	10
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
Styrene	ND		0.27	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
Trichloroethene	ND		0.48	1.0
Trichlorofluoromethane	ND		0.42	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM00027

Lab Sample ID: 680-110788-5TB

Date Sampled: 03/18/2015 1430

Client Matrix: Water

Date Received: 03/19/2015 0819

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	680-376701	Instrument ID:	CMSAC
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ACC3010.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1716			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1716				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Date Sampled: 03/18/2015 1100

Client Matrix: Water

Date Received: 03/19/2015 0819

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	680-375719	Instrument ID:	CVGU
	N/A		N/A	Initial Weight/Volume:	17 mL
Dilution:	1.0			Final Weight/Volume:	17 mL
Analysis Date:	03/24/2015 1506			Injection Volume:	5 mL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethane	ND		0.55	1.1
Ethene	ND		0.50	1.0
Methane	4.2		0.29	0.58

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	680-375719	Instrument ID:	CVGU
	N/A		N/A	Initial Weight/Volume:	17 mL
Dilution:	1.0			Final Weight/Volume:	17 mL
Analysis Date:	03/24/2015 1545			Injection Volume:	5 mL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethane	ND		0.55	1.1
Ethene	ND		0.50	1.0
Methane	1.7		0.29	0.58

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	680-375719	Instrument ID:	CVGU
	N/A		N/A	Initial Weight/Volume:	17 mL
Dilution:	1.0			Final Weight/Volume:	17 mL
Analysis Date:	03/24/2015 1519			Injection Volume:	5 mL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethane	ND		0.55	1.1
Ethene	ND		0.50	1.0
Methane	2.0		0.29	0.58

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Date Sampled: 03/18/2015 1430

Client Matrix: Water

Date Received: 03/19/2015 0819

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	680-375719	Instrument ID:	CVGU
	N/A		N/A	Initial Weight/Volume:	17 mL
Dilution:	1.0			Final Weight/Volume:	17 mL
Analysis Date:	03/24/2015 1532			Injection Volume:	5 mL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethane	ND		0.55	1.1
Ethene	ND		0.50	1.0
Methane	0.79		0.29	0.58

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Date Sampled: 03/18/2015 1100

Client Matrix: Water

Date Received: 03/19/2015 0819

300.0 Anions, Ion Chromatography

Analysis Method:	300.0	Analysis Batch:	680-376322	Instrument ID:	CICH
	N/A	Prep Batch:	N/A	Lab File ID:	0326152005-28.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/26/2015 2005			Final Weight/Volume:	5 mL
Prep Date:	N/A			Injection Volume:	25 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chloride	0.74		0.20	0.50
Sulfate	24		0.40	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

300.0 Anions, Ion Chromatography

Analysis Method:	300.0	Analysis Batch:	680-376322	Instrument ID:	CICH
	N/A	Prep Batch:	N/A	Lab File ID:	0326152052-31.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/26/2015 2052			Final Weight/Volume:	5 mL
Prep Date:	N/A			Injection Volume:	25 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chloride	1.1		0.20	0.50

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

300.0 Anions, Ion Chromatography

Analysis Method:	300.0	Analysis Batch:	680-376449	Instrument ID:	CICH
	N/A	Prep Batch:	N/A	Lab File ID:	0327151313-12.d
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/27/2015 1313			Final Weight/Volume:	5 mL
Prep Date:	N/A			Injection Volume:	25 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sulfate	70		0.80	2.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

300.0 Anions, Ion Chromatography

Analysis Method:	300.0	Analysis Batch:	680-376322	Instrument ID:	CICH
	N/A	Prep Batch:	N/A	Lab File ID:	0326152138-34.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/26/2015 2138			Final Weight/Volume:	5 mL
Prep Date:	N/A			Injection Volume:	25 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chloride	1.1		0.20	0.50

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

300.0 Anions, Ion Chromatography

Analysis Method: 300.0
N/A

Analysis Batch: 680-376449
Prep Batch: N/A

Instrument ID: CICH
Lab File ID: 0327151359-15.d

Dilution: 2.0
Analysis Date: 03/27/2015 1359
Prep Date: N/A

Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 25 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sulfate	68		0.80	2.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Date Sampled: 03/18/2015 1430

Client Matrix: Water

Date Received: 03/19/2015 0819

300.0 Anions, Ion Chromatography

Analysis Method:	300.0	Analysis Batch:	680-376322	Instrument ID:	CICH
	N/A	Prep Batch:	N/A	Lab File ID:	0326152153-35.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/26/2015 2153			Final Weight/Volume:	5 mL
Prep Date:	N/A			Injection Volume:	25 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chloride	0.26	J	0.20	0.50
Sulfate	ND		0.40	1.0

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Client Matrix: Water

Date Sampled: 03/18/2015 1100

Date Received: 03/19/2015 0819

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-375799	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-375688	Lab File ID:	E03232015.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2015 2233			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 1046				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	340		50	100
Sodium	2500		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-375799	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-375688	Lab File ID:	E03232015.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2015 2205			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 1046				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	ND		50	100
Sodium	6000		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-375799	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-375688	Lab File ID:	E03232015.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2015 2238			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 1046				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	ND		50	100
Sodium	5800		500	1000

Analytical Data

Client: Parsons Corporation

Job Number: 680-110788-1

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Date Sampled: 03/18/2015 1430

Client Matrix: Water

Date Received: 03/19/2015 0819

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-375799	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-375688	Lab File ID:	E03232015.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/23/2015 2243			Final Weight/Volume:	50 mL
Prep Date:	03/23/2015 1046				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	ND		50	100
Sodium	ND		500	1000

Client: Parsons Corporation

Job Number: 680-110788-1

General Chemistry

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Date Sampled: 03/18/2015 1100

Client Matrix: Water

Date Received: 03/19/2015 0819

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	1.3		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375369	Analysis Date: 03/19/2015 1939					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375369	Analysis Date: 03/19/2015 1939					

Client: Parsons Corporation

Job Number: 680-110788-1

General Chemistry

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.69		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375369	Analysis Date: 03/19/2015 1933					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375369	Analysis Date: 03/19/2015 1933					

Client: Parsons Corporation

Job Number: 680-110788-1

General Chemistry

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Sampled: 03/18/2015 1215

Client Matrix: Water

Date Received: 03/19/2015 0819

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.69		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375369	Analysis Date: 03/19/2015 1936					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375369	Analysis Date: 03/19/2015 1936					

Client: Parsons Corporation

Job Number: 680-110788-1

General Chemistry

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Date Sampled: 03/18/2015 1430

Client Matrix: Water

Date Received: 03/19/2015 0819

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375369	Analysis Date: 03/19/2015 1937					
Nitrite as N	ND		mg/L	0.010	0.050	1.0	353.2
	Analysis Batch: 680-375369	Analysis Date: 03/19/2015 1937					

Client: Parsons Corporation

Job Number: 680-110788-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
680-110788-1	25LM20113	96	94	101	93
680-110788-2	25LM20114	101	95	102	93
680-110788-3	25LM20115	97	96	100	94
680-110788-4	25LM00112	97	95	101	94
680-110788-5	25LM00027	100	94	106	95
MB 680-376701/9		99	98	100	92
MB 680-376775/7		97	93	100	94
LCS 680-376701/4		101	98	95	93
LCS 680-376775/3		88	84	88	85
LCSD 680-376701/5		96	97	92	93
LCSD 680-376775/4		87	83	88	85
680-110788-2MS	25LM20114MS MS	97	93	99	97
680-110788-2MSD	25LM20114MSD MSD	99	96	100	96

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Method Blank - Batch: 680-376701

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: MB 680-376701/9
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/30/2015 1504
 Prep Date: 03/30/2015 1504
 Leach Date: N/A

Analysis Batch: 680-376701
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CMSAC
 Lab File ID: ACC3009.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,2-Dichloropropane	ND		0.67	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
2-Butanone	ND		3.4	10
2-Hexanone	ND		2.0	10
4-Methyl-2-pentanone	ND		2.1	10
Acetone	ND		7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.60	1.0
Ethylbenzene	ND		0.33	1.0
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methyl tert-butyl ether	ND		0.30	10
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
Styrene	ND		0.27	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
Trichloroethene	ND		0.48	1.0

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Method Blank - Batch: 680-376701

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 680-376701/9
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/30/2015 1504
Prep Date: 03/30/2015 1504
Leach Date: N/A

Analysis Batch: 680-376701
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: CMSAC
Lab File ID: ACC3009.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.42	1.0
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	100	70 - 130
1,2-Dichloroethane-d4 (Surr)	98	70 - 130
Dibromofluoromethane (Surr)	99	70 - 130
4-Bromofluorobenzene (Surr)	92	70 - 130

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-376701**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376701/4	Analysis Batch: 680-376701	Instrument ID: CMSAC
Client Matrix: Water	Prep Batch: N/A	Lab File ID: ACC3004.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/30/2015 1223	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/30/2015 1223		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 680-376701/5	Analysis Batch: 680-376701	Instrument ID: CMSAC
Client Matrix: Water	Prep Batch: N/A	Lab File ID: ACC3005.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/30/2015 1246	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/30/2015 1246		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	101	101	74 - 128	0	20		
1,1,2,2-Tetrachloroethane	106	106	72 - 128	0	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	106	105	65 - 131	0	30		
1,1,2-Trichloroethane	102	99	79 - 125	2	20		
1,1-Dichloroethane	95	93	80 - 120	2	20		
1,1-Dichloroethene	97	96	74 - 125	1	20		
1,2,4-Trichlorobenzene	100	100	77 - 131	0	20		
1,2-Dibromo-3-Chloropropane	100	99	59 - 141	2	30		
1,2-Dibromoethane	103	99	77 - 131	4	30		
1,2-Dichlorobenzene	99	98	80 - 120	1	20		
1,2-Dichloroethane	100	97	75 - 130	3	20		
1,2-Dichloropropane	103	101	80 - 123	3	20		
1,3-Dichlorobenzene	98	97	80 - 120	2	20		
1,4-Dichlorobenzene	99	99	80 - 120	0	20		
2-Butanone	105	104	75 - 133	1	30		
2-Hexanone	90	87	70 - 141	3	40		
4-Methyl-2-pentanone	97	94	75 - 135	3	30		
Acetone	96	93	60 - 154	4	40		
Benzene	102	100	73 - 131	2	30		
Bromodichloromethane	103	101	77 - 129	2	20		
Bromoform	108	109	69 - 135	1	20		
Bromomethane	116	112	20 - 180	4	40		
Carbon disulfide	109	107	73 - 127	2	20		
Carbon tetrachloride	102	101	75 - 130	1	20		
Chlorobenzene	101	101	80 - 120	1	20		
Chloroethane	97	90	50 - 151	8	30		
Chloroform	98	96	79 - 122	2	20		
Chloromethane	105	101	63 - 126	3	30		
cis-1,2-Dichloroethene	103	101	80 - 122	2	20		
cis-1,3-Dichloropropene	102	101	80 - 133	2	20		
Cyclohexane	104	104	69 - 130	0	30		
Dibromochloromethane	104	101	71 - 136	3	20		
Dichlorodifluoromethane	100	100	51 - 140	0	40		
Ethylbenzene	102	102	80 - 120	0	20		
Isopropylbenzene	102	102	80 - 120	1	20		
Methyl acetate	98	95	66 - 134	3	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-376701**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376701/4	Analysis Batch: 680-376701	Instrument ID: CMSAC
Client Matrix: Water	Prep Batch: N/A	Lab File ID: ACC3004.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/30/2015 1223	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/30/2015 1223		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 680-376701/5	Analysis Batch: 680-376701	Instrument ID: CMSAC
Client Matrix: Water	Prep Batch: N/A	Lab File ID: ACC3005.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/30/2015 1246	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/30/2015 1246		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	103	101	74 - 135	2	20		
Methylcyclohexane	102	101	75 - 127	1	30		
Methylene Chloride	96	93	76 - 129	3	20		
Styrene	102	102	80 - 122	0	20		
Tetrachloroethene	100	99	77 - 123	1	20		
Toluene	95	93	80 - 122	2	20		
trans-1,2-Dichloroethene	100	99	78 - 123	1	20		
trans-1,3-Dichloropropene	102	100	74 - 140	3	20		
Trichloroethene	99	97	80 - 123	2	20		
Trichlorofluoromethane	100	99	58 - 145	2	30		
Vinyl chloride	92	91	68 - 132	1	30		
Xylenes, Total	99	100	80 - 120	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	95		92		70 - 130		
1,2-Dichloroethane-d4 (Surr)	98		97		70 - 130		
Dibromofluoromethane (Surr)	101		96		70 - 130		
4-Bromofluorobenzene (Surr)	93		93		70 - 130		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-376701**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376701/4 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/30/2015 1223
 Prep Date: 03/30/2015 1223
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-376701/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/30/2015 1246
 Prep Date: 03/30/2015 1246
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,1,1-Trichloroethane	50.0	50.0	50.5	50.3
1,1,2,2-Tetrachloroethane	50.0	50.0	53.0	53.0
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0	52.8	52.7
1,1,2-Trichloroethane	50.0	50.0	50.8	49.6
1,1-Dichloroethane	50.0	50.0	47.4	46.6
1,1-Dichloroethene	50.0	50.0	48.7	48.2
1,2,4-Trichlorobenzene	50.0	50.0	49.9	50.2
1,2-Dibromo-3-Chloropropane	50.0	50.0	50.2	49.3
1,2-Dibromoethane	50.0	50.0	51.5	49.7
1,2-Dichlorobenzene	50.0	50.0	49.7	49.1
1,2-Dichloroethane	50.0	50.0	49.9	48.3
1,2-Dichloropropane	50.0	50.0	51.7	50.4
1,3-Dichlorobenzene	50.0	50.0	49.2	48.4
1,4-Dichlorobenzene	50.0	50.0	49.4	49.4
2-Butanone	250	250	262	261
2-Hexanone	250	250	224	217
4-Methyl-2-pentanone	250	250	242	235
Acetone	250	250	241	232
Benzene	50.0	50.0	50.8	49.8
Bromodichloromethane	50.0	50.0	51.7	50.7
Bromoform	50.0	50.0	53.8	54.3
Bromomethane	50.0	50.0	58.2	56.1
Carbon disulfide	50.0	50.0	54.5	53.6
Carbon tetrachloride	50.0	50.0	51.0	50.4
Chlorobenzene	50.0	50.0	50.4	50.7
Chloroethane	50.0	50.0	48.7	45.1
Chloroform	50.0	50.0	49.0	48.0
Chloromethane	50.0	50.0	52.3	50.5
cis-1,2-Dichloroethene	50.0	50.0	51.7	50.5
cis-1,3-Dichloropropene	50.0	50.0	51.2	50.4
Cyclohexane	50.0	50.0	51.9	51.9
Dibromochloromethane	50.0	50.0	52.0	50.6
Dichlorodifluoromethane	50.0	50.0	50.1	50.1
Ethylbenzene	50.0	50.0	51.1	51.2
Isopropylbenzene	50.0	50.0	50.8	51.2
Methyl acetate	250	250	244	237
Methyl tert-butyl ether	50.0	50.0	51.5	50.4
Methylcyclohexane	50.0	50.0	51.0	50.6
Methylene Chloride	50.0	50.0	47.9	46.6

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-376701**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376701/4 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/30/2015 1223
Prep Date: 03/30/2015 1223
Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-376701/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/30/2015 1246
Prep Date: 03/30/2015 1246
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Styrene	50.0	50.0	51.0	50.9
Tetrachloroethene	50.0	50.0	50.2	49.5
Toluene	50.0	50.0	47.3	46.5
trans-1,2-Dichloroethene	50.0	50.0	50.0	49.5
trans-1,3-Dichloropropene	50.0	50.0	51.2	49.8
Trichloroethene	50.0	50.0	49.3	48.4
Trichlorofluoromethane	50.0	50.0	50.2	49.4
Vinyl chloride	50.0	50.0	46.0	45.3
Xylenes, Total	100	100	99.0	100

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Method Blank - Batch: 680-376775

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: MB 680-376775/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/30/2015 2003
 Prep Date: 03/30/2015 2003
 Leach Date: N/A

Analysis Batch: 680-376775
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CMSP2
 Lab File ID: PC3007Q.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.37	1.0
1,1,2,2-Tetrachloroethane	ND		0.62	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.36	1.0
1,1,2-Trichloroethane	ND		0.33	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.36	1.0
1,2,4-Trichlorobenzene	ND		2.5	5.0
1,2-Dibromo-3-Chloropropane	ND		1.1	5.0
1,2-Dibromoethane	ND		0.44	1.0
1,2-Dichlorobenzene	ND		0.37	1.0
1,2-Dichloroethane	ND		0.50	1.0
1,2-Dichloropropane	ND		0.67	1.0
1,3-Dichlorobenzene	ND		0.43	1.0
1,4-Dichlorobenzene	ND		0.46	1.0
2-Butanone	ND		3.4	10
2-Hexanone	ND		2.0	10
4-Methyl-2-pentanone	ND		2.1	10
Acetone	ND		7.0	10
Benzene	ND		0.43	1.0
Bromodichloromethane	ND		0.44	1.0
Bromoform	ND		0.43	1.0
Bromomethane	ND		2.5	5.0
Carbon disulfide	ND		1.0	2.0
Carbon tetrachloride	ND		0.33	1.0
Chlorobenzene	ND		0.26	1.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		0.50	1.0
Chloromethane	ND		0.40	1.0
cis-1,2-Dichloroethene	ND		0.41	1.0
cis-1,3-Dichloropropene	ND		0.40	1.0
Cyclohexane	ND		0.39	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.60	1.0
Ethylbenzene	ND		0.33	1.0
Isopropylbenzene	ND		0.35	1.0
Methyl acetate	ND		1.8	5.0
Methyl tert-butyl ether	ND		0.30	10
Methylcyclohexane	ND		0.43	1.0
Methylene Chloride	ND		2.5	5.0
Styrene	ND		0.27	1.0
Tetrachloroethene	ND		0.74	1.0
Toluene	ND		0.48	1.0
trans-1,2-Dichloroethene	ND		0.37	1.0
trans-1,3-Dichloropropene	ND		0.42	1.0
Trichloroethene	ND		0.48	1.0

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Method Blank - Batch: 680-376775

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 680-376775/7
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/30/2015 2003
Prep Date: 03/30/2015 2003
Leach Date: N/A

Analysis Batch: 680-376775
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: CMSP2
Lab File ID: PC3007Q.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.42	1.0
Vinyl chloride	ND		0.50	1.0
Xylenes, Total	ND		0.23	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	100	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130
Dibromofluoromethane (Surr)	97	70 - 130
4-Bromofluorobenzene (Surr)	94	70 - 130

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-376775**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376775/3	Analysis Batch: 680-376775	Instrument ID: CMSP2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: PC3003Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/30/2015 1837	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/30/2015 1837		5 mL/100g
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 680-376775/4	Analysis Batch: 680-376775	Instrument ID: CMSP2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: PC3004Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/30/2015 1859	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/30/2015 1859		5 mL/100g
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	90	91	74 - 128	0	20		
1,1,2,2-Tetrachloroethane	89	89	72 - 128	1	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	90	91	65 - 131	0	30		
1,1,2-Trichloroethane	86	87	79 - 125	1	20		
1,1-Dichloroethane	87	86	80 - 120	0	20		
1,1-Dichloroethene	85	85	74 - 125	1	20		
1,2,4-Trichlorobenzene	89	90	77 - 131	1	20		
1,2-Dibromo-3-Chloropropane	97	95	59 - 141	2	30		
1,2-Dibromoethane	87	88	77 - 131	1	30		
1,2-Dichlorobenzene	88	89	80 - 120	0	20		
1,2-Dichloroethane	85	86	75 - 130	0	20		
1,2-Dichloropropane	87	87	80 - 123	0	20		
1,3-Dichlorobenzene	88	89	80 - 120	1	20		
1,4-Dichlorobenzene	86	88	80 - 120	2	20		
2-Butanone	88	89	75 - 133	1	30		
2-Hexanone	89	89	70 - 141	0	40		
4-Methyl-2-pentanone	89	88	75 - 135	1	30		
Acetone	88	91	60 - 154	4	40		
Benzene	86	87	73 - 131	0	30		
Bromodichloromethane	91	91	77 - 129	1	20		
Bromoform	94	94	69 - 135	0	20		
Bromomethane	89	87	20 - 180	2	40		
Carbon disulfide	83	85	73 - 127	3	20		
Carbon tetrachloride	92	91	75 - 130	0	20		
Chlorobenzene	88	87	80 - 120	0	20		
Chloroethane	89	89	50 - 151	0	30		
Chloroform	89	88	79 - 122	1	20		
Chloromethane	81	80	63 - 126	1	30		
cis-1,2-Dichloroethene	86	85	80 - 122	1	20		
cis-1,3-Dichloropropene	91	90	80 - 133	1	20		
Cyclohexane	88	87	69 - 130	1	30		
Dibromochloromethane	90	91	71 - 136	1	20		
Dichlorodifluoromethane	85	85	51 - 140	0	40		
Ethylbenzene	89	89	80 - 120	0	20		
Isopropylbenzene	91	90	80 - 120	1	20		
Methyl acetate	86	86	66 - 134	0	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-376775**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376775/3	Analysis Batch: 680-376775	Instrument ID: CMSP2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: PC3003Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/30/2015 1837	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/30/2015 1837		5 mL/100g
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 680-376775/4	Analysis Batch: 680-376775	Instrument ID: CMSP2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: PC3004Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/30/2015 1859	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 03/30/2015 1859		5 mL/100g
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	87	87	74 - 135	0	20		
Methylcyclohexane	90	89	75 - 127	1	30		
Methylene Chloride	87	87	76 - 129	0	20		
Styrene	91	90	80 - 122	1	20		
Tetrachloroethene	88	87	77 - 123	0	20		
Toluene	89	88	80 - 122	1	20		
trans-1,2-Dichloroethene	87	87	78 - 123	0	20		
trans-1,3-Dichloropropene	91	90	74 - 140	1	20		
Trichloroethene	86	86	80 - 123	0	20		
Trichlorofluoromethane	95	96	58 - 145	1	30		
Vinyl chloride	88	88	68 - 132	0	30		
Xylenes, Total	91	90	80 - 120	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	88		88		70 - 130		
1,2-Dichloroethane-d4 (Surr)	84		83		70 - 130		
Dibromofluoromethane (Surr)	88		87		70 - 130		
4-Bromofluorobenzene (Surr)	85		85		70 - 130		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-376775**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376775/3 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/30/2015 1837
 Prep Date: 03/30/2015 1837
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-376775/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/30/2015 1859
 Prep Date: 03/30/2015 1859
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,1,1-Trichloroethane	50.0	50.0	45.2	45.3
1,1,2,2-Tetrachloroethane	50.0	50.0	44.7	44.4
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0	45.2	45.4
1,1,2-Trichloroethane	50.0	50.0	43.2	43.5
1,1-Dichloroethane	50.0	50.0	43.4	43.2
1,1-Dichloroethene	50.0	50.0	42.7	42.4
1,2,4-Trichlorobenzene	50.0	50.0	44.6	44.9
1,2-Dibromo-3-Chloropropane	50.0	50.0	48.3	47.6
1,2-Dibromoethane	50.0	50.0	43.5	43.9
1,2-Dichlorobenzene	50.0	50.0	44.2	44.3
1,2-Dichloroethane	50.0	50.0	42.6	42.8
1,2-Dichloropropane	50.0	50.0	43.7	43.6
1,3-Dichlorobenzene	50.0	50.0	44.2	44.5
1,4-Dichlorobenzene	50.0	50.0	43.0	43.9
2-Butanone	250	250	219	222
2-Hexanone	250	250	222	222
4-Methyl-2-pentanone	250	250	221	220
Acetone	250	250	219	228
Benzene	50.0	50.0	43.1	43.3
Bromodichloromethane	50.0	50.0	45.3	45.7
Bromoform	50.0	50.0	47.2	47.0
Bromomethane	50.0	50.0	44.5	43.5
Carbon disulfide	50.0	50.0	41.4	42.5
Carbon tetrachloride	50.0	50.0	45.8	45.6
Chlorobenzene	50.0	50.0	43.9	43.7
Chloroethane	50.0	50.0	44.7	44.5
Chloroform	50.0	50.0	44.5	43.9
Chloromethane	50.0	50.0	40.4	39.9
cis-1,2-Dichloroethene	50.0	50.0	43.1	42.5
cis-1,3-Dichloropropene	50.0	50.0	45.6	45.2
Cyclohexane	50.0	50.0	43.9	43.6
Dibromochloromethane	50.0	50.0	45.0	45.5
Dichlorodifluoromethane	50.0	50.0	42.6	42.7
Ethylbenzene	50.0	50.0	44.5	44.7
Isopropylbenzene	50.0	50.0	45.4	45.1
Methyl acetate	250	250	215	214
Methyl tert-butyl ether	50.0	50.0	43.5	43.5
Methylcyclohexane	50.0	50.0	45.0	44.6
Methylene Chloride	50.0	50.0	43.5	43.3

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-376775**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-376775/3 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/30/2015 1837
 Prep Date: 03/30/2015 1837
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-376775/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/30/2015 1859
 Prep Date: 03/30/2015 1859
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Styrene	50.0	50.0	45.4	45.1
Tetrachloroethene	50.0	50.0	43.8	43.7
Toluene	50.0	50.0	44.3	43.9
trans-1,2-Dichloroethene	50.0	50.0	43.5	43.5
trans-1,3-Dichloropropene	50.0	50.0	45.4	44.9
Trichloroethene	50.0	50.0	42.8	42.8
Trichlorofluoromethane	50.0	50.0	47.6	47.8
Vinyl chloride	50.0	50.0	44.1	44.0
Xylenes, Total	100	100	90.8	89.9

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-376775**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 680-110788-2MS	Analysis Batch: 680-376775	Instrument ID: CMSP2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: PC3025Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/31/2015 0230		Final Weight/Volume: 5 mL
Prep Date: 03/31/2015 0230		5 mL/100g
Leach Date: N/A		

MSD Lab Sample ID: 680-110788-2MSD	Analysis Batch: 680-376775	Instrument ID: CMSP2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: PC3026Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/31/2015 0251		Final Weight/Volume: 5 mL
Prep Date: 03/31/2015 0251		5 mL/100g
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1,1-Trichloroethane	106	108	74 - 128	2	20		
1,1,2,2-Tetrachloroethane	96	99	72 - 128	3	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	106	105	65 - 131	1	30		
1,1,2-Trichloroethane	94	99	79 - 125	5	20		
1,1-Dichloroethane	99	101	80 - 120	1	20		
1,1-Dichloroethene	102	102	74 - 125	0	20		
1,2,4-Trichlorobenzene	94	96	77 - 131	2	20		
1,2-Dibromo-3-Chloropropane	100	102	59 - 141	2	30		
1,2-Dibromoethane	94	99	77 - 131	5	30		
1,2-Dichlorobenzene	99	100	80 - 120	0	20		
1,2-Dichloroethane	96	100	75 - 130	4	20		
1,2-Dichloropropane	99	100	80 - 123	2	20		
1,3-Dichlorobenzene	100	100	80 - 120	0	20		
1,4-Dichlorobenzene	99	97	80 - 120	2	20		
2-Butanone	92	97	75 - 133	5	30		
2-Hexanone	94	98	70 - 141	4	40		
4-Methyl-2-pentanone	96	99	75 - 135	3	30		
Acetone	96	96	60 - 154	0	40		
Benzene	99	101	73 - 131	2	30		
Bromodichloromethane	102	105	77 - 129	3	20		
Bromoform	102	107	69 - 135	4	20		
Bromomethane	99	111	20 - 180	12	40		
Carbon disulfide	102	102	73 - 127	0	20		
Carbon tetrachloride	108	109	75 - 130	1	20		
Chlorobenzene	99	100	80 - 120	1	20		
Chloroethane	108	108	50 - 151	0	30		
Chloroform	101	102	79 - 122	1	20		
Chloromethane	100	102	63 - 126	2	30		
cis-1,2-Dichloroethene	97	97	80 - 122	0	20		
cis-1,3-Dichloropropene	98	101	80 - 133	3	20		
Cyclohexane	103	104	69 - 130	0	30		
Dibromochloromethane	101	104	71 - 136	3	20		
Dichlorodifluoromethane	117	117	51 - 140	0	40		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-376775**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 680-110788-2MS	Analysis Batch: 680-376775	Instrument ID: CMSP2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: PC3025Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/31/2015 0230		Final Weight/Volume: 5 mL
Prep Date: 03/31/2015 0230		5 mL/100g
Leach Date: N/A		

MSD Lab Sample ID: 680-110788-2MSD	Analysis Batch: 680-376775	Instrument ID: CMSP2
Client Matrix: Water	Prep Batch: N/A	Lab File ID: PC3026Q.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 03/31/2015 0251		Final Weight/Volume: 5 mL
Prep Date: 03/31/2015 0251		5 mL/100g
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ethylbenzene	102	102	80 - 120	1	20		
Isopropylbenzene	103	103	80 - 120	1	20		
Methyl acetate	88	91	66 - 134	4	30		
Methyl tert-butyl ether	95	99	74 - 135	4	20		
Methylcyclohexane	103	104	75 - 127	1	30		
Methylene Chloride	99	102	76 - 129	3	20		
Styrene	101	102	80 - 122	2	20		
Tetrachloroethene	100	101	77 - 123	1	20		
Toluene	100	102	80 - 122	2	20		
trans-1,2-Dichloroethene	98	101	78 - 123	3	20		
trans-1,3-Dichloropropene	95	99	74 - 140	3	20		
Trichloroethene	98	99	80 - 123	1	20		
Trichlorofluoromethane	119	120	58 - 145	1	30		
Vinyl chloride	110	111	68 - 132	1	30		
Xylenes, Total	102	103	80 - 120	0	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	99	100	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	96	70 - 130
Dibromofluoromethane (Surr)	97	99	70 - 130
4-Bromofluorobenzene (Surr)	97	96	70 - 130

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-376775**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 680-110788-2MS Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/31/2015 0230
 Prep Date: 03/31/2015 0230
 Leach Date: N/A

MSD Lab Sample ID: 680-110788-2MSD
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/31/2015 0251
 Prep Date: 03/31/2015 0251
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1,1-Trichloroethane	ND	50.0	50.0	53.1	54.0
1,1,2,2-Tetrachloroethane	ND	50.0	50.0	48.1	49.7
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	50.0	50.0	53.2	52.6
1,1,2-Trichloroethane	ND	50.0	50.0	47.1	49.6
1,1-Dichloroethane	ND	50.0	50.0	49.6	50.3
1,1-Dichloroethene	ND	50.0	50.0	50.9	51.1
1,2,4-Trichlorobenzene	ND	50.0	50.0	47.0	48.0
1,2-Dibromo-3-Chloropropane	ND	50.0	50.0	50.1	51.2
1,2-Dibromoethane	ND	50.0	50.0	47.1	49.5
1,2-Dichlorobenzene	ND	50.0	50.0	49.7	49.9
1,2-Dichloroethane	ND	50.0	50.0	48.1	50.1
1,2-Dichloropropane	ND	50.0	50.0	49.5	50.2
1,3-Dichlorobenzene	ND	50.0	50.0	49.9	49.9
1,4-Dichlorobenzene	ND	50.0	50.0	49.4	48.7
2-Butanone	ND	250	250	231	243
2-Hexanone	ND	250	250	234	245
4-Methyl-2-pentanone	ND	250	250	239	248
Acetone	ND	250	250	239	239
Benzene	ND	50.0	50.0	49.4	50.5
Bromodichloromethane	ND	50.0	50.0	51.0	52.5
Bromoform	ND	50.0	50.0	51.2	53.4
Bromomethane	ND	50.0	50.0	49.5	55.7
Carbon disulfide	ND	50.0	50.0	51.2	51.2
Carbon tetrachloride	ND	50.0	50.0	53.8	54.6
Chlorobenzene	ND	50.0	50.0	49.7	50.1
Chloroethane	ND	50.0	50.0	53.9	53.8
Chloroform	ND	50.0	50.0	50.4	51.1
Chloromethane	ND	50.0	50.0	50.2	51.0
cis-1,2-Dichloroethene	ND	50.0	50.0	48.7	48.6
cis-1,3-Dichloropropene	ND	50.0	50.0	48.9	50.6
Cyclohexane	ND	50.0	50.0	51.6	51.8
Dibromochloromethane	ND	50.0	50.0	50.4	51.9
Dichlorodifluoromethane	ND	50.0	50.0	58.6	58.4
Ethylbenzene	ND	50.0	50.0	50.9	51.2
Isopropylbenzene	ND	50.0	50.0	51.3	51.6
Methyl acetate	ND	250	250	219	229
Methyl tert-butyl ether	ND	50.0	50.0	47.5	49.3
Methylcyclohexane	ND	50.0	50.0	51.3	51.8
Methylene Chloride	ND	50.0	50.0	49.3	50.8
Styrene	ND	50.0	50.0	50.4	51.1
Tetrachloroethene	ND	50.0	50.0	50.0	50.5
Toluene	ND	50.0	50.0	50.2	51.2
trans-1,2-Dichloroethene	ND	50.0	50.0	49.2	50.6

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-376775**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 680-110788-2MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/31/2015 0230
Prep Date: 03/31/2015 0230
Leach Date: N/A

MSD Lab Sample ID: 680-110788-2MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/31/2015 0251
Prep Date: 03/31/2015 0251
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
trans-1,3-Dichloropropene	ND	50.0	50.0	47.7	49.4
Trichloroethene	ND	50.0	50.0	48.8	49.4
Trichlorofluoromethane	ND	50.0	50.0	59.6	60.0
Vinyl chloride	ND	50.0	50.0	55.1	55.3
Xylenes, Total	ND	100	100	102	103

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Method Blank - Batch: 680-375719

Lab Sample ID: MB 680-375719/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/24/2015 1249
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-375719
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Method: RSK-175

Preparation: N/A

Instrument ID: CVGU
 Lab File ID: UC2412.d
 Initial Weight/Volume: 17 mL
 Final Weight/Volume: 17 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Ethane	ND		0.55	1.1
Ethene	ND		0.50	1.0
Methane	ND		0.29	0.58

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 680-375719

Method: RSK-175

Preparation: N/A

LCS Lab Sample ID: LCS 680-375719/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/24/2015 1223
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-375719
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CVGU
 Lab File ID: UC2410.d
 Initial Weight/Volume: 17 mL
 Final Weight/Volume: 17 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-375719/6
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/24/2015 1236
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-375719
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CVGU
 Lab File ID: UC2411.d
 Initial Weight/Volume: 17 mL
 Final Weight/Volume: 17 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethane	109	115	75 - 125	5	30		
Ethene	111	116	75 - 125	4	30		
Methane	113	118	75 - 125	4	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-375719**

**Method: RSK-175
Preparation: N/A**

LCS Lab Sample ID: LCS 680-375719/5 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/24/2015 1223
 Prep Date: N/A
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-375719/6
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/24/2015 1236
 Prep Date: N/A
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ethane	288	288	315	332
Ethene	269	269	300	313
Methane	154	154	174	181

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-375719**

**Method: RSK-175
Preparation: N/A**

MS Lab Sample ID: 680-110788-2
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/24/2015 1557
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-375719
 Prep Batch: N/A
 Leach Batch: N/A

Instrument ID: CVGU
 Lab File ID: UC2423.d
 Initial Weight/Volume: 17 mL
 Final Weight/Volume: 17 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

MSD Lab Sample ID: 680-110788-2
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/24/2015 1610
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-375719
 Prep Batch: N/A
 Leach Batch: N/A

Instrument ID: CVGU
 Lab File ID: UC2424.d
 Initial Weight/Volume: 17 mL
 Final Weight/Volume: 17 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ethane	76	78	75 - 125	2	30		
Ethene	77	79	75 - 125	3	30		
Methane	97	99	75 - 125	2	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-375719**

**Method: RSK-175
Preparation: N/A**

MS Lab Sample ID: 680-110788-2 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/24/2015 1557
Prep Date: N/A
Leach Date: N/A

MSD Lab Sample ID: 680-110788-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/24/2015 1610
Prep Date: N/A
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ethane	ND	288	288	220	224
Ethene	ND	269	269	208	214
Methane	1.7	154	154	152	154

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Method Blank - Batch: 680-376322

Lab Sample ID: MB 680-376322/2
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/26/2015 1411
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376322
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

**Method: 300.0
 Preparation: N/A**

Instrument ID: CICH
 Lab File ID: 0326151411-5.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

Analyte	Result	Qual	MDL	RL
Chloride	ND		0.20	0.50
Sulfate	ND		0.40	1.0

**Lab Control Sample/
 Lab Control Sample Duplicate Recovery Report - Batch: 680-376322**

**Method: 300.0
 Preparation: N/A**

LCS Lab Sample ID: LCS 680-376322/3
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/26/2015 1427
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376322
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: CICH
 Lab File ID: 0326151427-6.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

LCSD Lab Sample ID: LCSD 680-376322/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/26/2015 1442
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376322
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: CICH
 Lab File ID: 0326151442-7.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Chloride	103	103	90 - 110	0	30		
Sulfate	104	104	90 - 110	0	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-376322**

**Method: 300.0
Preparation: N/A**

LCS Lab Sample ID: LCS 680-376322/3 Units: mg/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/26/2015 1427
 Prep Date: N/A
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 680-376322/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/26/2015 1442
 Prep Date: N/A
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	10.0	10.0	10.3	10.3
Sulfate	10.0	10.0	10.4	10.4

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-376322**

**Method: 300.0
Preparation: N/A**

MS Lab Sample ID: 680-110788-2
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/26/2015 2107
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376322
 Prep Batch: N/A
 Leach Batch: N/A

Instrument ID: CICH
 Lab File ID: 0326152107-32.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

MSD Lab Sample ID: 680-110788-2
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/26/2015 2122
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376322
 Prep Batch: N/A
 Leach Batch: N/A

Instrument ID: CICH
 Lab File ID: 0326152122-33.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	102	103	80 - 120	1	30		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-376322**

**Method: 300.0
Preparation: N/A**

MS Lab Sample ID: 680-110788-2 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/26/2015 2107
Prep Date: N/A
Leach Date: N/A

MSD Lab Sample ID: 680-110788-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/26/2015 2122
Prep Date: N/A
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	1.1	10.0	10.0	11.3	11.4

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Method Blank - Batch: 680-376449

Lab Sample ID: MB 680-376449/2
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 1125
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376449
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

**Method: 300.0
 Preparation: N/A**

Instrument ID: CICH
 Lab File ID: 0327151125-5.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

Analyte	Result	Qual	MDL	RL
Sulfate	ND		0.40	1.0

**Lab Control Sample/
 Lab Control Sample Duplicate Recovery Report - Batch: 680-376449**

**Method: 300.0
 Preparation: N/A**

LCS Lab Sample ID: LCS 680-376449/3
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 1140
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376449
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: CICH
 Lab File ID: 0327151140-6.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

LCSD Lab Sample ID: LCSD 680-376449/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 1156
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 680-376449
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: CICH
 Lab File ID: 0327151156-7.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 Injection Volume: 25 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Sulfate	106	106	90 - 110	0	30		

**Laboratory Control/
 Laboratory Duplicate Data Report - Batch: 680-376449**

**Method: 300.0
 Preparation: N/A**

LCS Lab Sample ID: LCS 680-376449/3
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 1140
 Prep Date: N/A
 Leach Date: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 680-376449/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/27/2015 1156
 Prep Date: N/A
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Sulfate	10.0	10.0	10.6	10.6

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-376449**

**Method: 300.0
Preparation: N/A**

MS Lab Sample ID: 680-110788-2
Client Matrix: Water
Dilution: 2.0
Analysis Date: 03/27/2015 1328
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-376449
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: CICH
Lab File ID: 0327151328-13.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 25 uL

MSD Lab Sample ID: 680-110788-2
Client Matrix: Water
Dilution: 2.0
Analysis Date: 03/27/2015 1343
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 680-376449
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: CICH
Lab File ID: 0327151343-14.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 25 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sulfate	97	96	80 - 120	0	30		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-376449**

**Method: 300.0
Preparation: N/A**

MS Lab Sample ID: 680-110788-2
Client Matrix: Water
Dilution: 2.0
Analysis Date: 03/27/2015 1328
Prep Date: N/A
Leach Date: N/A

Units: mg/L

MSD Lab Sample ID: 680-110788-2
Client Matrix: Water
Dilution: 2.0
Analysis Date: 03/27/2015 1343
Prep Date: N/A
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate	70	20.0	20.0	89.5	89.2

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Method Blank - Batch: 680-375688

Lab Sample ID: MB 680-375688/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/23/2015 2122
 Prep Date: 03/23/2015 1046
 Leach Date: N/A

Analysis Batch: 680-375799
 Prep Batch: 680-375688
 Leach Batch: N/A
 Units: ug/L

**Method: 6010C
 Preparation: 3010A**

Instrument ID: ICPE
 Lab File ID: E03232015.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Iron	ND		50	100
Sodium	ND		500	1000

Lab Control Sample - Batch: 680-375688

Lab Sample ID: LCS 680-375688/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/23/2015 2127
 Prep Date: 03/23/2015 1046
 Leach Date: N/A

Analysis Batch: 680-375799
 Prep Batch: 680-375688
 Leach Batch: N/A
 Units: ug/L

**Method: 6010C
 Preparation: 3010A**

Instrument ID: ICPE
 Lab File ID: E03232015.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	5000	4990	100	80 - 120	
Sodium	5000	4910	98	80 - 120	

**Matrix Spike/
 Matrix Spike Duplicate Recovery Report - Batch: 680-375688**

**Method: 6010C
 Preparation: 3010A**

MS Lab Sample ID: 680-110788-2
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/23/2015 2210
 Prep Date: 03/23/2015 1046
 Leach Date: N/A

Analysis Batch: 680-375799
 Prep Batch: 680-375688
 Leach Batch: N/A

Instrument ID: ICPE
 Lab File ID: E03232015.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 680-110788-2
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 03/23/2015 2214
 Prep Date: 03/23/2015 1046
 Leach Date: N/A

Analysis Batch: 680-375799
 Prep Batch: 680-375688
 Leach Batch: N/A

Instrument ID: ICPE
 Lab File ID: E03232015.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Iron	98	106	75 - 125	8	20		
Sodium	94	96	75 - 125	1	20		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-375688**

**Method: 6010C
Preparation: 3010A**

MS Lab Sample ID: 680-110788-2 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/23/2015 2210
Prep Date: 03/23/2015 1046
Leach Date: N/A

MSD Lab Sample ID: 680-110788-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/23/2015 2214
Prep Date: 03/23/2015 1046
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	ND	5000	5000	4880	5300
Sodium	6000	5000	5000	10700	10800

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Method Blank - Batch: 680-375369

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 680-375369/13	Analysis Batch:	680-375369	Instrument ID:	LACHAT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	OM_3-19-2015_15-37-37.(
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	03/19/2015 1553	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate as N	ND		0.010	0.050
Nitrite as N	ND		0.010	0.050

Lab Control Sample - Batch: 680-375369

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCS 680-375369/16	Analysis Batch:	680-375369	Instrument ID:	LACHAT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	OM_3-19-2015_15-37-37.(
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	03/19/2015 1556	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	0.500	0.578	116	75 - 125	
Nitrite as N	0.500	0.502	100	90 - 110	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-375369**

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	680-110788-2	Analysis Batch:	680-375369	Instrument ID:	LACHAT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	OM_3-19-2015_19-20-01.(
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	03/19/2015 1934			Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	680-110788-2	Analysis Batch:	680-375369	Instrument ID:	LACHAT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	OM_3-19-2015_19-20-01.(
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	03/19/2015 1935			Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.			RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD	Limit				
Nitrate as N	89	86	75 - 125	2	30		
Nitrite as N	98	98	90 - 110	1	10		

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-375369**

**Method: 353.2
Preparation: N/A**

MS Lab Sample ID: 680-110788-2 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/19/2015 1934
Prep Date: N/A
Leach Date: N/A

MSD Lab Sample ID: 680-110788-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/19/2015 1935
Prep Date: N/A
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate as N	0.69	0.500	0.500	1.13	1.12
Nitrite as N	ND	0.500	0.500	0.491	0.489

DATA REPORTING QUALIFIERS

Client: Parsons Corporation

Job Number: 680-110788-1

Lab Section	Qualifier	Description
GC/MS VOA	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
HPLC/IC	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:680-376701					
LCS 680-376701/4	Lab Control Sample	T	Water	8260B	
LCSD 680-376701/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-376701/9	Method Blank	T	Water	8260B	
680-110788-1	25LM20113	T	Water	8260B	
680-110788-2	25LM20114	T	Water	8260B	
680-110788-3	25LM20115	T	Water	8260B	
680-110788-4	25LM00112	T	Water	8260B	
680-110788-5TB	25LM00027	T	Water	8260B	
Analysis Batch:680-376775					
LCS 680-376775/3	Lab Control Sample	T	Water	8260B	
LCSD 680-376775/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-376775/7	Method Blank	T	Water	8260B	
680-110788-2MSMS	Matrix Spike	T	Water	8260B	
680-110788-2MSDMSD	Matrix Spike Duplicate	T	Water	8260B	
Report Basis					
T = Total					
GC VOA					
Analysis Batch:680-375719					
LCS 680-375719/5	Lab Control Sample	T	Water	RSK-175	
LCSD 680-375719/6	Lab Control Sample Duplicate	T	Water	RSK-175	
MB 680-375719/7	Method Blank	T	Water	RSK-175	
680-110788-1	25LM20113	T	Water	RSK-175	
680-110788-2	25LM20114	T	Water	RSK-175	
680-110788-2MS	Matrix Spike	T	Water	RSK-175	
680-110788-2MSD	Matrix Spike Duplicate	T	Water	RSK-175	
680-110788-3	25LM20115	T	Water	RSK-175	
680-110788-4	25LM00112	T	Water	RSK-175	
Report Basis					
T = Total					

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-375688					
LCS 680-375688/2-A	Lab Control Sample	T	Water	3010A	
MB 680-375688/1-A	Method Blank	T	Water	3010A	
680-110788-1	25LM20113	T	Water	3010A	
680-110788-2	25LM20114	T	Water	3010A	
680-110788-2MS	Matrix Spike	T	Water	3010A	
680-110788-2MSD	Matrix Spike Duplicate	T	Water	3010A	
680-110788-3	25LM20115	T	Water	3010A	
680-110788-4	25LM00112	T	Water	3010A	
Analysis Batch:680-375799					
LCS 680-375688/2-A	Lab Control Sample	T	Water	6010C	680-375688
MB 680-375688/1-A	Method Blank	T	Water	6010C	680-375688
680-110788-1	25LM20113	T	Water	6010C	680-375688
680-110788-2	25LM20114	T	Water	6010C	680-375688
680-110788-2MS	Matrix Spike	T	Water	6010C	680-375688
680-110788-2MSD	Matrix Spike Duplicate	T	Water	6010C	680-375688
680-110788-3	25LM20115	T	Water	6010C	680-375688
680-110788-4	25LM00112	T	Water	6010C	680-375688

Report Basis

T = Total

General Chemistry

Analysis Batch:680-375369					
LCS 680-375369/16	Lab Control Sample	T	Water	353.2	
MB 680-375369/13	Method Blank	T	Water	353.2	
680-110788-1	25LM20113	T	Water	353.2	
680-110788-2	25LM20114	T	Water	353.2	
680-110788-2MS	Matrix Spike	T	Water	353.2	
680-110788-2MSD	Matrix Spike Duplicate	T	Water	353.2	
680-110788-3	25LM20115	T	Water	353.2	
680-110788-4	25LM00112	T	Water	353.2	

Report Basis

T = Total

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Analysis Batch:680-376322					
LCS 680-376322/3	Lab Control Sample	T	Water	300.0	
LCSD 680-376322/4	Lab Control Sample Duplicate	T	Water	300.0	
MB 680-376322/2	Method Blank	T	Water	300.0	
680-110788-1	25LM20113	T	Water	300.0	
680-110788-2	25LM20114	T	Water	300.0	
680-110788-2MS	Matrix Spike	T	Water	300.0	
680-110788-2MSD	Matrix Spike Duplicate	T	Water	300.0	
680-110788-3	25LM20115	T	Water	300.0	
680-110788-4	25LM00112	T	Water	300.0	
Analysis Batch:680-376449					
LCS 680-376449/3	Lab Control Sample	T	Water	300.0	
LCSD 680-376449/4	Lab Control Sample Duplicate	T	Water	300.0	
MB 680-376449/2	Method Blank	T	Water	300.0	
680-110788-2	25LM20114	T	Water	300.0	
680-110788-2MS	Matrix Spike	T	Water	300.0	
680-110788-2MSD	Matrix Spike Duplicate	T	Water	300.0	
680-110788-3	25LM20115	T	Water	300.0	

Report Basis

T = Total

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Laboratory Chronicle

Lab ID: 680-110788-1

Client ID: 25LM20113

Sample Date/Time: 03/18/2015 11:00

Received Date/Time: 03/19/2015 08:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110788-D-1		680-376701		03/30/2015 19:54	1	TAL SAV	JD1
A:8260B	680-110788-D-1		680-376701		03/30/2015 19:54	1	TAL SAV	JD1
A:RSK-175	680-110788-G-1		680-375719		03/24/2015 15:06	1	TAL SAV	AJMc
A:300.0	680-110788-B-1		680-376322		03/26/2015 20:05	1	TAL SAV	AJO
P:3010A	680-110788-A-1-A		680-375799	680-375688	03/23/2015 10:46	1	TAL SAV	CRW
A:6010C	680-110788-A-1-A		680-375799	680-375688	03/23/2015 22:33	1	TAL SAV	BCB
A:353.2	680-110788-B-1		680-375369		03/19/2015 19:39	1	TAL SAV	GRX

Lab ID: 680-110788-2

Client ID: 25LM20114

Sample Date/Time: 03/18/2015 12:15

Received Date/Time: 03/19/2015 08:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110788-D-2		680-376701		03/30/2015 20:17	1	TAL SAV	JD1
A:8260B	680-110788-D-2		680-376701		03/30/2015 20:17	1	TAL SAV	JD1
A:RSK-175	680-110788-G-2		680-375719		03/24/2015 15:45	1	TAL SAV	AJMc
A:300.0	680-110788-B-2		680-376322		03/26/2015 20:52	1	TAL SAV	AJO
A:300.0	680-110788-B-2		680-376449		03/27/2015 13:13	2	TAL SAV	AJO
P:3010A	680-110788-A-2-A		680-375799	680-375688	03/23/2015 10:46	1	TAL SAV	CRW
A:6010C	680-110788-A-2-A		680-375799	680-375688	03/23/2015 22:05	1	TAL SAV	BCB
A:353.2	680-110788-B-2		680-375369		03/19/2015 19:33	1	TAL SAV	GRX

Lab ID: 680-110788-2MS

Client ID: 25LM20114MS

Sample Date/Time: 03/18/2015 12:15

Received Date/Time: 03/19/2015 08:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110788-E-2 MS		680-376775		03/31/2015 02:30	1	TAL SAV	JD1
A:8260B	680-110788-E-2 MS		680-376775		03/31/2015 02:30	1	TAL SAV	JD1
A:RSK-175	680-110788-G-2 MS		680-375719		03/24/2015 15:57	1	TAL SAV	AJMc
A:300.0	680-110788-B-2 MS		680-376322		03/26/2015 21:07	1	TAL SAV	AJO
A:300.0	680-110788-B-2 MS		680-376449		03/27/2015 13:28	2	TAL SAV	AJO
P:3010A	680-110788-A-2-B MS		680-375799	680-375688	03/23/2015 10:46	1	TAL SAV	CRW
A:6010C	680-110788-A-2-B MS		680-375799	680-375688	03/23/2015 22:10	1	TAL SAV	BCB
A:353.2	680-110788-B-2 MS		680-375369		03/19/2015 19:34	1	TAL SAV	GRX

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Laboratory Chronicle

Lab ID: 680-110788-2MSD

Client ID: 25LM20114MSD

Sample Date/Time: 03/18/2015 12:15

Received Date/Time: 03/19/2015 08:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110788-F-2 MSD		680-376775		03/31/2015 02:51	1	TAL SAV	JD1
A:8260B	680-110788-F-2 MSD		680-376775		03/31/2015 02:51	1	TAL SAV	JD1
A:RSK-175	680-110788-G-2 MSD		680-375719		03/24/2015 16:10	1	TAL SAV	AJMc
A:300.0	680-110788-B-2 MSD		680-376322		03/26/2015 21:22	1	TAL SAV	AJO
A:300.0	680-110788-B-2 MSD		680-376449		03/27/2015 13:43	2	TAL SAV	AJO
P:3010A	680-110788-A-2-C MSD		680-375799	680-375688	03/23/2015 10:46	1	TAL SAV	CRW
A:6010C	680-110788-A-2-C MSD		680-375799	680-375688	03/23/2015 22:14	1	TAL SAV	BCB
A:353.2	680-110788-B-2 MSD		680-375369		03/19/2015 19:35	1	TAL SAV	GRX

Lab ID: 680-110788-3

Client ID: 25LM20115

Sample Date/Time: 03/18/2015 12:15

Received Date/Time: 03/19/2015 08:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110788-D-3		680-376701		03/30/2015 20:40	1	TAL SAV	JD1
A:8260B	680-110788-D-3		680-376701		03/30/2015 20:40	1	TAL SAV	JD1
A:RSK-175	680-110788-G-3		680-375719		03/24/2015 15:19	1	TAL SAV	AJMc
A:300.0	680-110788-B-3		680-376322		03/26/2015 21:38	1	TAL SAV	AJO
A:300.0	680-110788-B-3		680-376449		03/27/2015 13:59	2	TAL SAV	AJO
P:3010A	680-110788-A-3-A		680-375799	680-375688	03/23/2015 10:46	1	TAL SAV	CRW
A:6010C	680-110788-A-3-A		680-375799	680-375688	03/23/2015 22:38	1	TAL SAV	BCB
A:353.2	680-110788-B-3		680-375369		03/19/2015 19:36	1	TAL SAV	GRX

Lab ID: 680-110788-4

Client ID: 25LM00112

Sample Date/Time: 03/18/2015 14:30

Received Date/Time: 03/19/2015 08:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110788-D-4		680-376701		03/30/2015 21:02	1	TAL SAV	JD1
A:8260B	680-110788-D-4		680-376701		03/30/2015 21:02	1	TAL SAV	JD1
A:RSK-175	680-110788-G-4		680-375719		03/24/2015 15:32	1	TAL SAV	AJMc
A:300.0	680-110788-B-4		680-376322		03/26/2015 21:53	1	TAL SAV	AJO
P:3010A	680-110788-A-4-A		680-375799	680-375688	03/23/2015 10:46	1	TAL SAV	CRW
A:6010C	680-110788-A-4-A		680-375799	680-375688	03/23/2015 22:43	1	TAL SAV	BCB
A:353.2	680-110788-B-4		680-375369		03/19/2015 19:37	1	TAL SAV	GRX

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Laboratory Chronicle

Lab ID: 680-110788-5

Client ID: 25LM00027

Sample Date/Time: 03/18/2015 14:30

Received Date/Time: 03/19/2015 08:19

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	680-110788-H-5		680-376701		03/30/2015 17:16	1	TAL SAV	JD1
A:8260B	680-110788-H-5		680-376701		03/30/2015 17:16	1	TAL SAV	JD1

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 680-376701/9		680-376701		03/30/2015 15:04	1	TAL SAV	JD1
A:8260B	MB 680-376701/9		680-376701		03/30/2015 15:04	1	TAL SAV	JD1
P:5030B	MB 680-376775/7		680-376775		03/30/2015 20:03	1	TAL SAV	JD1
A:8260B	MB 680-376775/7		680-376775		03/30/2015 20:03	1	TAL SAV	JD1
A:RSK-175	MB 680-375719/7		680-375719		03/24/2015 12:49	1	TAL SAV	AJMc
A:300.0	MB 680-376322/2		680-376322		03/26/2015 14:11	1	TAL SAV	AJO
A:300.0	MB 680-376449/2		680-376449		03/27/2015 11:25	1	TAL SAV	AJO
P:3010A	MB 680-375688/1-A		680-375799	680-375688	03/23/2015 10:46	1	TAL SAV	CRW
A:6010C	MB 680-375688/1-A		680-375799	680-375688	03/23/2015 21:22	1	TAL SAV	BCB
A:353.2	MB 680-375369/13		680-375369		03/19/2015 15:53	1	TAL SAV	GRX

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 680-376701/4		680-376701		03/30/2015 12:23	1	TAL SAV	JD1
A:8260B	LCS 680-376701/4		680-376701		03/30/2015 12:23	1	TAL SAV	JD1
P:5030B	LCS 680-376775/3		680-376775		03/30/2015 18:37	1	TAL SAV	JD1
A:8260B	LCS 680-376775/3		680-376775		03/30/2015 18:37	1	TAL SAV	JD1
A:RSK-175	LCS 680-375719/5		680-375719		03/24/2015 12:23	1	TAL SAV	AJMc
A:300.0	LCS 680-376322/3		680-376322		03/26/2015 14:27	1	TAL SAV	AJO
A:300.0	LCS 680-376449/3		680-376449		03/27/2015 11:40	1	TAL SAV	AJO
P:3010A	LCS 680-375688/2-A		680-375799	680-375688	03/23/2015 10:46	1	TAL SAV	CRW
A:6010C	LCS 680-375688/2-A		680-375799	680-375688	03/23/2015 21:27	1	TAL SAV	BCB
A:353.2	LCS 680-375369/16		680-375369		03/19/2015 15:56	1	TAL SAV	GRX

Quality Control Results

Client: Parsons Corporation

Job Number: 680-110788-1

Laboratory Chronicle

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 680-376701/5		680-376701		03/30/2015 12:46	1	TAL SAV	JD1
A:8260B	LCSD 680-376701/5		680-376701		03/30/2015 12:46	1	TAL SAV	JD1
P:5030B	LCSD 680-376775/4		680-376775		03/30/2015 18:59	1	TAL SAV	JD1
A:8260B	LCSD 680-376775/4		680-376775		03/30/2015 18:59	1	TAL SAV	JD1
A:RSK-175	LCSD 680-375719/6		680-375719		03/24/2015 12:36	1	TAL SAV	AJMc
A:300.0	LCSD 680-376322/4		680-376322		03/26/2015 14:42	1	TAL SAV	AJO
A:300.0	LCSD 680-376449/4		680-376449		03/27/2015 11:56	1	TAL SAV	AJO

Lab References:

TAL SAV = TestAmerica Savannah

Method 8260B

Volatile Organic Compounds (GC/MS)
by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): RTX-VMS ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
25LM20113	680-110788-1	96	94	101	93
25LM20114	680-110788-2	101	95	102	93
25LM20115	680-110788-3	97	96	100	94
25LM00112	680-110788-4	97	95	101	94
25LM00027	680-110788-5	100	94	106	95
	MB 680-376701/9	99	98	100	92
	MB 680-376775/7	97	93	100	94
	LCS 680-376701/4	101	98	95	93
	LCS 680-376775/3	88	84	88	85
	LCSD 680-376701/5	96	97	92	93
	LCSD 680-376775/4	87	83	88	85
25LM20114MS MS	680-110788-2MS	97	93	99	97
25LM20114MSD MSD	680-110788-2MSD	99	96	100	96

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

QC LIMITS

70-130
70-130
70-130
70-130

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: ACC3004.D
 Lab ID: LCS 680-376701/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	50.5	101	74-128	
1,1,2,2-Tetrachloroethane	50.0	53.0	106	72-128	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.8	106	65-131	
1,1,2-Trichloroethane	50.0	50.8	102	79-125	
1,1-Dichloroethane	50.0	47.4	95	80-120	
1,1-Dichloroethene	50.0	48.7	97	74-125	
1,2,4-Trichlorobenzene	50.0	49.9	100	77-131	
1,2-Dibromo-3-Chloropropane	50.0	50.2	100	59-141	
1,2-Dibromoethane	50.0	51.5	103	77-131	
1,2-Dichlorobenzene	50.0	49.7	99	80-120	
1,2-Dichloroethane	50.0	49.9	100	75-130	
1,2-Dichloropropane	50.0	51.7	103	80-123	
1,3-Dichlorobenzene	50.0	49.2	98	80-120	
1,4-Dichlorobenzene	50.0	49.4	99	80-120	
2-Butanone	250	262	105	75-133	
2-Hexanone	250	224	90	70-141	
4-Methyl-2-pentanone	250	242	97	75-135	
Acetone	250	241	96	60-154	
Benzene	50.0	50.8	102	73-131	
Bromodichloromethane	50.0	51.7	103	77-129	
Bromoform	50.0	53.8	108	69-135	
Bromomethane	50.0	58.2	116	20-180	
Carbon disulfide	50.0	54.5	109	73-127	
Carbon tetrachloride	50.0	51.0	102	75-130	
Chlorobenzene	50.0	50.4	101	80-120	
Chloroethane	50.0	48.7	97	50-151	
Chloroform	50.0	49.0	98	79-122	
Chloromethane	50.0	52.3	105	63-126	
cis-1,2-Dichloroethene	50.0	51.7	103	80-122	
cis-1,3-Dichloropropene	50.0	51.2	102	80-133	
Cyclohexane	50.0	51.9	104	69-130	
Dibromochloromethane	50.0	52.0	104	71-136	
Dichlorodifluoromethane	50.0	50.1	100	51-140	
Ethylbenzene	50.0	51.1	102	80-120	
Isopropylbenzene	50.0	50.8	102	80-120	
Methyl acetate	250	244	98	66-134	
Methyl tert-butyl ether	50.0	51.5	103	74-135	
Methylcyclohexane	50.0	51.0	102	75-127	
Methylene Chloride	50.0	47.9	96	76-129	
Styrene	50.0	51.0	102	80-122	
Tetrachloroethene	50.0	50.2	100	77-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: ACC3004.D
 Lab ID: LCS 680-376701/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	47.3	95	80-122	
trans-1,2-Dichloroethene	50.0	50.0	100	78-123	
trans-1,3-Dichloropropene	50.0	51.2	102	74-140	
Trichloroethene	50.0	49.3	99	80-123	
Trichlorofluoromethane	50.0	50.2	100	58-145	
Vinyl chloride	50.0	46.0	92	68-132	
Xylenes, Total	100	99.0	99	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PC3003Q.D
 Lab ID: LCS 680-376775/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	45.2	90	74-128	
1,1,2,2-Tetrachloroethane	50.0	44.7	89	72-128	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.2	90	65-131	
1,1,2-Trichloroethane	50.0	43.2	86	79-125	
1,1-Dichloroethane	50.0	43.4	87	80-120	
1,1-Dichloroethene	50.0	42.7	85	74-125	
1,2,4-Trichlorobenzene	50.0	44.6	89	77-131	
1,2-Dibromo-3-Chloropropane	50.0	48.3	97	59-141	
1,2-Dibromoethane	50.0	43.5	87	77-131	
1,2-Dichlorobenzene	50.0	44.2	88	80-120	
1,2-Dichloroethane	50.0	42.6	85	75-130	
1,2-Dichloropropane	50.0	43.7	87	80-123	
1,3-Dichlorobenzene	50.0	44.2	88	80-120	
1,4-Dichlorobenzene	50.0	43.0	86	80-120	
2-Butanone	250	219	88	75-133	
2-Hexanone	250	222	89	70-141	
4-Methyl-2-pentanone	250	221	89	75-135	
Acetone	250	219	88	60-154	
Benzene	50.0	43.1	86	73-131	
Bromodichloromethane	50.0	45.3	91	77-129	
Bromoform	50.0	47.2	94	69-135	
Bromomethane	50.0	44.5	89	20-180	
Carbon disulfide	50.0	41.4	83	73-127	
Carbon tetrachloride	50.0	45.8	92	75-130	
Chlorobenzene	50.0	43.9	88	80-120	
Chloroethane	50.0	44.7	89	50-151	
Chloroform	50.0	44.5	89	79-122	
Chloromethane	50.0	40.4	81	63-126	
cis-1,2-Dichloroethene	50.0	43.1	86	80-122	
cis-1,3-Dichloropropene	50.0	45.6	91	80-133	
Cyclohexane	50.0	43.9	88	69-130	
Dibromochloromethane	50.0	45.0	90	71-136	
Dichlorodifluoromethane	50.0	42.6	85	51-140	
Ethylbenzene	50.0	44.5	89	80-120	
Isopropylbenzene	50.0	45.4	91	80-120	
Methyl acetate	250	215	86	66-134	
Methyl tert-butyl ether	50.0	43.5	87	74-135	
Methylcyclohexane	50.0	45.0	90	75-127	
Methylene Chloride	50.0	43.5	87	76-129	
Styrene	50.0	45.4	91	80-122	
Tetrachloroethene	50.0	43.8	88	77-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PC3003Q.D
 Lab ID: LCS 680-376775/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	44.3	89	80-122	
trans-1,2-Dichloroethene	50.0	43.5	87	78-123	
trans-1,3-Dichloropropene	50.0	45.4	91	74-140	
Trichloroethene	50.0	42.8	86	80-123	
Trichlorofluoromethane	50.0	47.6	95	58-145	
Vinyl chloride	50.0	44.1	88	68-132	
Xylenes, Total	100	90.8	91	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: ACC3005.D

Lab ID: LCSO 680-376701/5

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	50.0	50.3	101	0	20	74-128	
1,1,2,2-Tetrachloroethane	50.0	53.0	106	0	20	72-128	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.7	105	0	30	65-131	
1,1,2-Trichloroethane	50.0	49.6	99	2	20	79-125	
1,1-Dichloroethane	50.0	46.6	93	2	20	80-120	
1,1-Dichloroethene	50.0	48.2	96	1	20	74-125	
1,2,4-Trichlorobenzene	50.0	50.2	100	0	20	77-131	
1,2-Dibromo-3-Chloropropane	50.0	49.3	99	2	30	59-141	
1,2-Dibromoethane	50.0	49.7	99	4	30	77-131	
1,2-Dichlorobenzene	50.0	49.1	98	1	20	80-120	
1,2-Dichloroethane	50.0	48.3	97	3	20	75-130	
1,2-Dichloropropane	50.0	50.4	101	3	20	80-123	
1,3-Dichlorobenzene	50.0	48.4	97	2	20	80-120	
1,4-Dichlorobenzene	50.0	49.4	99	0	20	80-120	
2-Butanone	250	261	104	1	30	75-133	
2-Hexanone	250	217	87	3	40	70-141	
4-Methyl-2-pentanone	250	235	94	3	30	75-135	
Acetone	250	232	93	4	40	60-154	
Benzene	50.0	49.8	100	2	30	73-131	
Bromodichloromethane	50.0	50.7	101	2	20	77-129	
Bromoform	50.0	54.3	109	1	20	69-135	
Bromomethane	50.0	56.1	112	4	40	20-180	
Carbon disulfide	50.0	53.6	107	2	20	73-127	
Carbon tetrachloride	50.0	50.4	101	1	20	75-130	
Chlorobenzene	50.0	50.7	101	1	20	80-120	
Chloroethane	50.0	45.1	90	8	30	50-151	
Chloroform	50.0	48.0	96	2	20	79-122	
Chloromethane	50.0	50.5	101	3	30	63-126	
cis-1,2-Dichloroethene	50.0	50.5	101	2	20	80-122	
cis-1,3-Dichloropropene	50.0	50.4	101	2	20	80-133	
Cyclohexane	50.0	51.9	104	0	30	69-130	
Dibromochloromethane	50.0	50.6	101	3	20	71-136	
Dichlorodifluoromethane	50.0	50.1	100	0	40	51-140	
Ethylbenzene	50.0	51.2	102	0	20	80-120	
Isopropylbenzene	50.0	51.2	102	1	20	80-120	
Methyl acetate	250	237	95	3	30	66-134	
Methyl tert-butyl ether	50.0	50.4	101	2	20	74-135	
Methylcyclohexane	50.0	50.6	101	1	30	75-127	
Methylene Chloride	50.0	46.6	93	3	20	76-129	
Styrene	50.0	50.9	102	0	20	80-122	
Tetrachloroethene	50.0	49.5	99	1	20	77-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: ACC3005.D
 Lab ID: LCSO 680-376701/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	50.0	46.5	93	2	20	80-122	
trans-1,2-Dichloroethene	50.0	49.5	99	1	20	78-123	
trans-1,3-Dichloropropene	50.0	49.8	100	3	20	74-140	
Trichloroethene	50.0	48.4	97	2	20	80-123	
Trichlorofluoromethane	50.0	49.4	99	2	30	58-145	
Vinyl chloride	50.0	45.3	91	1	30	68-132	
Xylenes, Total	100	100	100	1	20	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: PC3004Q.D

Lab ID: LCSO 680-376775/4

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	50.0	45.3	91	0	20	74-128	
1,1,2,2-Tetrachloroethane	50.0	44.4	89	1	20	72-128	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.4	91	0	30	65-131	
1,1,2-Trichloroethane	50.0	43.5	87	1	20	79-125	
1,1-Dichloroethane	50.0	43.2	86	0	20	80-120	
1,1-Dichloroethene	50.0	42.4	85	1	20	74-125	
1,2,4-Trichlorobenzene	50.0	44.9	90	1	20	77-131	
1,2-Dibromo-3-Chloropropane	50.0	47.6	95	2	30	59-141	
1,2-Dibromoethane	50.0	43.9	88	1	30	77-131	
1,2-Dichlorobenzene	50.0	44.3	89	0	20	80-120	
1,2-Dichloroethane	50.0	42.8	86	0	20	75-130	
1,2-Dichloropropane	50.0	43.6	87	0	20	80-123	
1,3-Dichlorobenzene	50.0	44.5	89	1	20	80-120	
1,4-Dichlorobenzene	50.0	43.9	88	2	20	80-120	
2-Butanone	250	222	89	1	30	75-133	
2-Hexanone	250	222	89	0	40	70-141	
4-Methyl-2-pentanone	250	220	88	1	30	75-135	
Acetone	250	228	91	4	40	60-154	
Benzene	50.0	43.3	87	0	30	73-131	
Bromodichloromethane	50.0	45.7	91	1	20	77-129	
Bromoform	50.0	47.0	94	0	20	69-135	
Bromomethane	50.0	43.5	87	2	40	20-180	
Carbon disulfide	50.0	42.5	85	3	20	73-127	
Carbon tetrachloride	50.0	45.6	91	0	20	75-130	
Chlorobenzene	50.0	43.7	87	0	20	80-120	
Chloroethane	50.0	44.5	89	0	30	50-151	
Chloroform	50.0	43.9	88	1	20	79-122	
Chloromethane	50.0	39.9	80	1	30	63-126	
cis-1,2-Dichloroethene	50.0	42.5	85	1	20	80-122	
cis-1,3-Dichloropropene	50.0	45.2	90	1	20	80-133	
Cyclohexane	50.0	43.6	87	1	30	69-130	
Dibromochloromethane	50.0	45.5	91	1	20	71-136	
Dichlorodifluoromethane	50.0	42.7	85	0	40	51-140	
Ethylbenzene	50.0	44.7	89	0	20	80-120	
Isopropylbenzene	50.0	45.1	90	1	20	80-120	
Methyl acetate	250	214	86	0	30	66-134	
Methyl tert-butyl ether	50.0	43.5	87	0	20	74-135	
Methylcyclohexane	50.0	44.6	89	1	30	75-127	
Methylene Chloride	50.0	43.3	87	0	20	76-129	
Styrene	50.0	45.1	90	1	20	80-122	
Tetrachloroethene	50.0	43.7	87	0	20	77-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PC3004Q.D
 Lab ID: LCSO 680-376775/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	50.0	43.9	88	1	20	80-122	
trans-1,2-Dichloroethene	50.0	43.5	87	0	20	78-123	
trans-1,3-Dichloropropene	50.0	44.9	90	1	20	74-140	
Trichloroethene	50.0	42.8	86	0	20	80-123	
Trichlorofluoromethane	50.0	47.8	96	1	30	58-145	
Vinyl chloride	50.0	44.0	88	0	30	68-132	
Xylenes, Total	100	89.9	90	1	20	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: PC3025Q.D

Lab ID: 680-110788-2MS

Client ID: 25LM20114MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	ND	53.1	106	74-128	
1,1,2,2-Tetrachloroethane	50.0	ND	48.1	96	72-128	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	ND	53.2	106	65-131	
1,1,2-Trichloroethane	50.0	ND	47.1	94	79-125	
1,1-Dichloroethane	50.0	ND	49.6	99	80-120	
1,1-Dichloroethene	50.0	ND	50.9	102	74-125	
1,2,4-Trichlorobenzene	50.0	ND	47.0	94	77-131	
1,2-Dibromo-3-Chloropropane	50.0	ND	50.1	100	59-141	
1,2-Dibromoethane	50.0	ND	47.1	94	77-131	
1,2-Dichlorobenzene	50.0	ND	49.7	99	80-120	
1,2-Dichloroethane	50.0	ND	48.1	96	75-130	
1,2-Dichloropropane	50.0	ND	49.5	99	80-123	
1,3-Dichlorobenzene	50.0	ND	49.9	100	80-120	
1,4-Dichlorobenzene	50.0	ND	49.4	99	80-120	
2-Butanone	250	ND	231	92	75-133	
2-Hexanone	250	ND	234	94	70-141	
4-Methyl-2-pentanone	250	ND	239	96	75-135	
Acetone	250	ND	239	96	60-154	
Benzene	50.0	ND	49.4	99	73-131	
Bromodichloromethane	50.0	ND	51.0	102	77-129	
Bromoform	50.0	ND	51.2	102	69-135	
Bromomethane	50.0	ND	49.5	99	20-180	
Carbon disulfide	50.0	ND	51.2	102	73-127	
Carbon tetrachloride	50.0	ND	53.8	108	75-130	
Chlorobenzene	50.0	ND	49.7	99	80-120	
Chloroethane	50.0	ND	53.9	108	50-151	
Chloroform	50.0	ND	50.4	101	79-122	
Chloromethane	50.0	ND	50.2	100	63-126	
cis-1,2-Dichloroethene	50.0	ND	48.7	97	80-122	
cis-1,3-Dichloropropene	50.0	ND	48.9	98	80-133	
Cyclohexane	50.0	ND	51.6	103	69-130	
Dibromochloromethane	50.0	ND	50.4	101	71-136	
Dichlorodifluoromethane	50.0	ND	58.6	117	51-140	
Ethylbenzene	50.0	ND	50.9	102	80-120	
Isopropylbenzene	50.0	ND	51.3	103	80-120	
Methyl acetate	250	ND	219	88	66-134	
Methyl tert-butyl ether	50.0	ND	47.5	95	74-135	
Methylcyclohexane	50.0	ND	51.3	103	75-127	
Methylene Chloride	50.0	ND	49.3	99	76-129	
Styrene	50.0	ND	50.4	101	80-122	
Tetrachloroethene	50.0	ND	50.0	100	77-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PC3025Q.D
 Lab ID: 680-110788-2MS Client ID: 25LM20114MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	50.0	ND	50.2	100	80-122	
trans-1,2-Dichloroethene	50.0	ND	49.2	98	78-123	
trans-1,3-Dichloropropene	50.0	ND	47.7	95	74-140	
Trichloroethene	50.0	ND	48.8	98	80-123	
Trichlorofluoromethane	50.0	ND	59.6	119	58-145	
Vinyl chloride	50.0	ND	55.1	110	68-132	
Xylenes, Total	100	ND	102	102	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: PC3026Q.D

Lab ID: 680-110788-2MSD

Client ID: 25LM20114MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	50.0	54.0	108	2	20	74-128	
1,1,2,2-Tetrachloroethane	50.0	49.7	99	3	20	72-128	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.6	105	1	30	65-131	
1,1,2-Trichloroethane	50.0	49.6	99	5	20	79-125	
1,1-Dichloroethane	50.0	50.3	101	1	20	80-120	
1,1-Dichloroethene	50.0	51.1	102	0	20	74-125	
1,2,4-Trichlorobenzene	50.0	48.0	96	2	20	77-131	
1,2-Dibromo-3-Chloropropane	50.0	51.2	102	2	30	59-141	
1,2-Dibromoethane	50.0	49.5	99	5	30	77-131	
1,2-Dichlorobenzene	50.0	49.9	100	0	20	80-120	
1,2-Dichloroethane	50.0	50.1	100	4	20	75-130	
1,2-Dichloropropane	50.0	50.2	100	2	20	80-123	
1,3-Dichlorobenzene	50.0	49.9	100	0	20	80-120	
1,4-Dichlorobenzene	50.0	48.7	97	2	20	80-120	
2-Butanone	250	243	97	5	30	75-133	
2-Hexanone	250	245	98	4	40	70-141	
4-Methyl-2-pentanone	250	248	99	3	30	75-135	
Acetone	250	239	96	0	40	60-154	
Benzene	50.0	50.5	101	2	30	73-131	
Bromodichloromethane	50.0	52.5	105	3	20	77-129	
Bromoform	50.0	53.4	107	4	20	69-135	
Bromomethane	50.0	55.7	111	12	40	20-180	
Carbon disulfide	50.0	51.2	102	0	20	73-127	
Carbon tetrachloride	50.0	54.6	109	1	20	75-130	
Chlorobenzene	50.0	50.1	100	1	20	80-120	
Chloroethane	50.0	53.8	108	0	30	50-151	
Chloroform	50.0	51.1	102	1	20	79-122	
Chloromethane	50.0	51.0	102	2	30	63-126	
cis-1,2-Dichloroethene	50.0	48.6	97	0	20	80-122	
cis-1,3-Dichloropropene	50.0	50.6	101	3	20	80-133	
Cyclohexane	50.0	51.8	104	0	30	69-130	
Dibromochloromethane	50.0	51.9	104	3	20	71-136	
Dichlorodifluoromethane	50.0	58.4	117	0	40	51-140	
Ethylbenzene	50.0	51.2	102	1	20	80-120	
Isopropylbenzene	50.0	51.6	103	1	20	80-120	
Methyl acetate	250	229	91	4	30	66-134	
Methyl tert-butyl ether	50.0	49.3	99	4	20	74-135	
Methylcyclohexane	50.0	51.8	104	1	30	75-127	
Methylene Chloride	50.0	50.8	102	3	20	76-129	
Styrene	50.0	51.1	102	2	20	80-122	
Tetrachloroethene	50.0	50.5	101	1	20	77-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PC3026Q.D
 Lab ID: 680-110788-2MSD Client ID: 25LM20114MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	50.0	51.2	102	2	20	80-122	
trans-1,2-Dichloroethene	50.0	50.6	101	3	20	78-123	
trans-1,3-Dichloropropene	50.0	49.4	99	3	20	74-140	
Trichloroethene	50.0	49.4	99	1	20	80-123	
Trichlorofluoromethane	50.0	60.0	120	1	30	58-145	
Vinyl chloride	50.0	55.3	111	1	30	68-132	
Xylenes, Total	100	103	103	0	20	80-120	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab File ID: ACC3009.D Lab Sample ID: MB 680-376701/9
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CMSAC Date Analyzed: 03/30/2015 15:04
 GC Column: RTX-VMS ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-376701/4	ACC3004.D	03/30/2015 12:23
	LCSD 680-376701/5	ACC3005.D	03/30/2015 12:46
25LM00027	680-110788-5	ACC3010.D	03/30/2015 17:16
25LM20113	680-110788-1	ACC3017.D	03/30/2015 19:54
25LM20114	680-110788-2	ACC3018.D	03/30/2015 20:17
25LM20115	680-110788-3	ACC3019.D	03/30/2015 20:40
25LM00112	680-110788-4	ACC3020.D	03/30/2015 21:02

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab File ID: PC3007Q.D Lab Sample ID: MB 680-376775/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CMSP2 Date Analyzed: 03/30/2015 20:03
 GC Column: Rtx-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-376775/3	PC3003Q.D	03/30/2015 18:37
	LCSD 680-376775/4	PC3004Q.D	03/30/2015 18:59
25LM20114MS MS	680-110788-2MS	PC3025Q.D	03/31/2015 02:30
25LM20114MSD MSD	680-110788-2MSD	PC3026Q.D	03/31/2015 02:51

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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab File ID: ACC2501T.D BFB Injection Date: 03/25/2015
 Instrument ID: CMSAC BFB Injection Time: 12:23
 Analysis Batch No.: 376029

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.1
75	30.0 - 66.0% of mass 95	45.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120.0% of mass 95	94.5
175	4.0 - 9.0 % of mass 174	6.9 (7.3)1
176	93.0 - 101.0% of mass 174	92.7 (98.1)1
177	5.0 - 9.0% of mass 176	6.2 (6.7)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 680-376029/5	ACC2505.D	03/25/2015	20:21
	IC 680-376029/6	ACC2506.D	03/25/2015	20:44
	IC 680-376029/7	ACC2507.D	03/25/2015	21:07
	IC 680-376029/8	ACC2508.D	03/25/2015	21:29
	IC 680-376029/9	ACC2509.D	03/25/2015	21:52
	ICIS 680-376029/10	ACC2510.D	03/25/2015	22:15
	IC 680-376029/11	ACC2511.D	03/25/2015	22:37
	IC 680-376029/12	ACC2512.D	03/25/2015	23:00
	ICV 680-376029/14	ACC2514.D	03/25/2015	23:45

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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab File ID: ACC3001T.D BFB Injection Date: 03/30/2015
 Instrument ID: CMSAC BFB Injection Time: 11:10
 Analysis Batch No.: 376701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	15.7	
75	30.0 - 66.0% of mass 95	44.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	104.0	
175	4.0 - 9.0 % of mass 174	7.5	(7.2)1
176	93.0 - 101.0% of mass 174	101.7	(97.8)1
177	5.0 - 9.0% of mass 176	6.9	(6.8)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 680-376701/3	ACC3003.D	03/30/2015	12:01
	LCS 680-376701/4	ACC3004.D	03/30/2015	12:23
	LCSD 680-376701/5	ACC3005.D	03/30/2015	12:46
	MB 680-376701/9	ACC3009.D	03/30/2015	15:04
25LM00027	680-110788-5	ACC3010.D	03/30/2015	17:16
25LM20113	680-110788-1	ACC3017.D	03/30/2015	19:54
25LM20114	680-110788-2	ACC3018.D	03/30/2015	20:17
25LM20115	680-110788-3	ACC3019.D	03/30/2015	20:40
25LM00112	680-110788-4	ACC3020.D	03/30/2015	21:02

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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab File ID: PC3002T.D BFB Injection Date: 03/30/2015
 Instrument ID: CMSP2 BFB Injection Time: 11:57
 Analysis Batch No.: 376722

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.8	
75	30.0 - 66.0% of mass 95	42.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	107.2	
175	4.0 - 9.0 % of mass 174	8.1	(7.5)1
176	93.0 - 101.0% of mass 174	106.3	(99.2)1
177	5.0 - 9.0% of mass 176	7.0	(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
	IC 680-376722/4	PC3004Q.D	03/30/2015	13:41
	IC 680-376722/5	PC3005Q.D	03/30/2015	14:03
	IC 680-376722/6	PC3006Q.D	03/30/2015	14:24
	IC 680-376722/7	PC3007Q.D	03/30/2015	14:46
	IC 680-376722/8	PC3008Q.D	03/30/2015	15:07
	ICIS 680-376722/9	PC3009Q.D	03/30/2015	15:29
	IC 680-376722/10	PC3010Q.D	03/30/2015	15:50
	IC 680-376722/11	PC3011Q.D	03/30/2015	16:12
	ICV 680-376722/13	PC3013Q.D	03/30/2015	17:23

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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab File ID: PC3001T.D BFB Injection Date: 03/30/2015
 Instrument ID: CMSP2 BFB Injection Time: 17:49
 Analysis Batch No.: 376775

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	13.1
75	30.0 - 66.0% of mass 95	41.9
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 - 120.0% of mass 95	106.1
175	4.0 - 9.0 % of mass 174	8.6 (8.1)1
176	93.0 - 101.0% of mass 174	103.0 (97.1)1
177	5.0 - 9.0% of mass 176	7.0 (6.8)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 680-376775/2	PC3002Q.D	03/30/2015	18:16
	LCS 680-376775/3	PC3003Q.D	03/30/2015	18:37
	LCSD 680-376775/4	PC3004Q.D	03/30/2015	18:59
	MB 680-376775/7	PC3007Q.D	03/30/2015	20:03
25LM20114MS MS	680-110788-2MS MS	PC3025Q.D	03/31/2015	02:30
25LM20114MSD MSD	680-110788-2MSD MSD	PC3026Q.D	03/31/2015	02:51

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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Sample No.: ICIS 680-376029/10 Date Analyzed: 03/25/2015 22:15
 Instrument ID: CMSAC GC Column: RTX-VMS ID: 0.18 (mm)
 Lab File ID (Standard): ACC2510.D Heated Purge: (Y/N) N
 Calibration ID: 38261

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	677299	4.06	239274	6.39	159271	8.31
UPPER LIMIT	1354598	4.56	478548	6.89	318542	8.81
LOWER LIMIT	338650	3.56	119637	5.89	79636	7.81
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-376029/14	682316	4.06	245057	6.39	167210	8.32

FB = Fluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 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 Savannah Job No.: 680-110788-1
 SDG No.: _____
 Sample No.: CCVIS 680-376701/3 Date Analyzed: 03/30/2015 12:01
 Instrument ID: CMSAC GC Column: RTX-VMS ID: 0.18 (mm)
 Lab File ID (Standard): ACC3003.D Heated Purge: (Y/N) N
 Calibration ID: 38261

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	639056	4.05	230077	6.39	164375	8.31	
UPPER LIMIT	1278112	4.55	460154	6.89	328750	8.81	
LOWER LIMIT	319528	3.55	115039	5.89	82188	7.81	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 680-376701/4	662254	4.05	233522	6.39	163554	8.31	
LCSD 680-376701/5	678869	4.05	232723	6.39	164868	8.31	
MB 680-376701/9	695302	4.05	254516	6.38	181660	8.31	
680-110788-5	25LM00027	652590	4.05	257668	6.38	183160	8.31
680-110788-1	25LM20113	659658	4.05	247250	6.39	173163	8.31
680-110788-2	25LM20114	665087	4.05	255478	6.38	181623	8.31
680-110788-3	25LM20115	666513	4.06	249684	6.39	174470	8.31
680-110788-4	25LM00112	656433	4.05	250477	6.38	174183	8.31

FB = Fluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 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 Savannah Job No.: 680-110788-1
 SDG No.: _____
 Sample No.: ICIS 680-376722/9 Date Analyzed: 03/30/2015 15:29
 Instrument ID: CMSP2 GC Column: Rtx-624 ID: 0.18 (mm)
 Lab File ID (Standard): PC3009Q.D Heated Purge: (Y/N) N
 Calibration ID: 38292

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	410286	4.09	180709	6.40	226254	8.32
UPPER LIMIT	820572	4.59	361418	6.90	452508	8.82
LOWER LIMIT	205143	3.59	90355	5.90	113127	7.82
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-376722/13	418884	4.09	183913	6.40	227846	8.32

FB = Fluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 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 Savannah Job No.: 680-110788-1
 SDG No.: _____
 Sample No.: CCVIS 680-376775/2 Date Analyzed: 03/30/2015 18:16
 Instrument ID: CMSP2 GC Column: Rtx-624 ID: 0.18 (mm)
 Lab File ID (Standard): PC3002Q.D Heated Purge: (Y/N) N
 Calibration ID: 38292

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	427956	4.09	190238	6.40	237627	8.32	
UPPER LIMIT	855912	4.59	380476	6.90	475254	8.82	
LOWER LIMIT	213978	3.59	95119	5.90	118814	7.82	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 680-376775/3	438321	4.09	189847	6.40	237993	8.32	
LCSD 680-376775/4	438650	4.09	189666	6.40	236904	8.32	
MB 680-376775/7	500552	4.09	207638	6.40	266157	8.32	
680-110788-2MS	25LM20114MS MS	435875	4.09	187388	6.40	229348	8.32
680-110788-2MSD	25LM20114MSD MSD	437019	4.09	189830	6.40	235839	8.32

FB = Fluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 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: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20113 Lab Sample ID: 680-110788-1
 Matrix: Water Lab File ID: ACC3017.D
 Analysis Method: 8260B Date Collected: 03/18/2015 11:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 19:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
78-93-3	2-Butanone	ND		10	3.4
591-78-6	2-Hexanone	ND		10	2.0
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
67-64-1	Acetone	ND		10	7.0
71-43-2	Benzene	0.64	J	1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
100-41-4	Ethylbenzene	ND		1.0	0.33
98-82-8	Isopropylbenzene	ND		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20113 Lab Sample ID: 680-110788-1
 Matrix: Water Lab File ID: ACC3017.D
 Analysis Method: 8260B Date Collected: 03/18/2015 11:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 19:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	1.8
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
100-42-5	Styrene	ND		1.0	0.27
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3017.D
 Lims ID: 680-110788-D-1 Lab Sample ID: 680-110788-1
 Client ID: 25LM20113
 Sample Type: Client
 Inject. Date: 30-Mar-2015 19:54:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018298-017
 Misc. Info.: 788-1
 Operator ID: JK Instrument ID: CMSAC
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 21:43:59 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: derricoj Date: 30-Mar-2015 21:43:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.571	3.571	0.000	97	168623	48.1	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.820	3.820	0.000	96	155805	47.2	
50 Benzene	78	3.838	3.839	0.000	92	9008	0.6443	
* 55 Fluorobenzene	96	4.051	4.051	0.000	0	659658	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.244	5.244	0.000	99	645352	50.3	
* 80 Chlorobenzene-d5	82	6.387	6.387	0.000	85	247250	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.348	7.349	-0.001	92	182105	46.6	
* 109 1,4-Dichlorobenzene-d4	152	8.310	8.310	0.000	99	173163	50.0	

Reagents:

DOD ISSU_00068 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3017.D

Injection Date: 30-Mar-2015 19:54:30

Instrument ID: CMSAC

Operator ID: JK

Lims ID: 680-110788-D-1

Lab Sample ID: 680-110788-1

Worklist Smp#: 17

Client ID: 25LM20113

Purge Vol: 5.000 mL

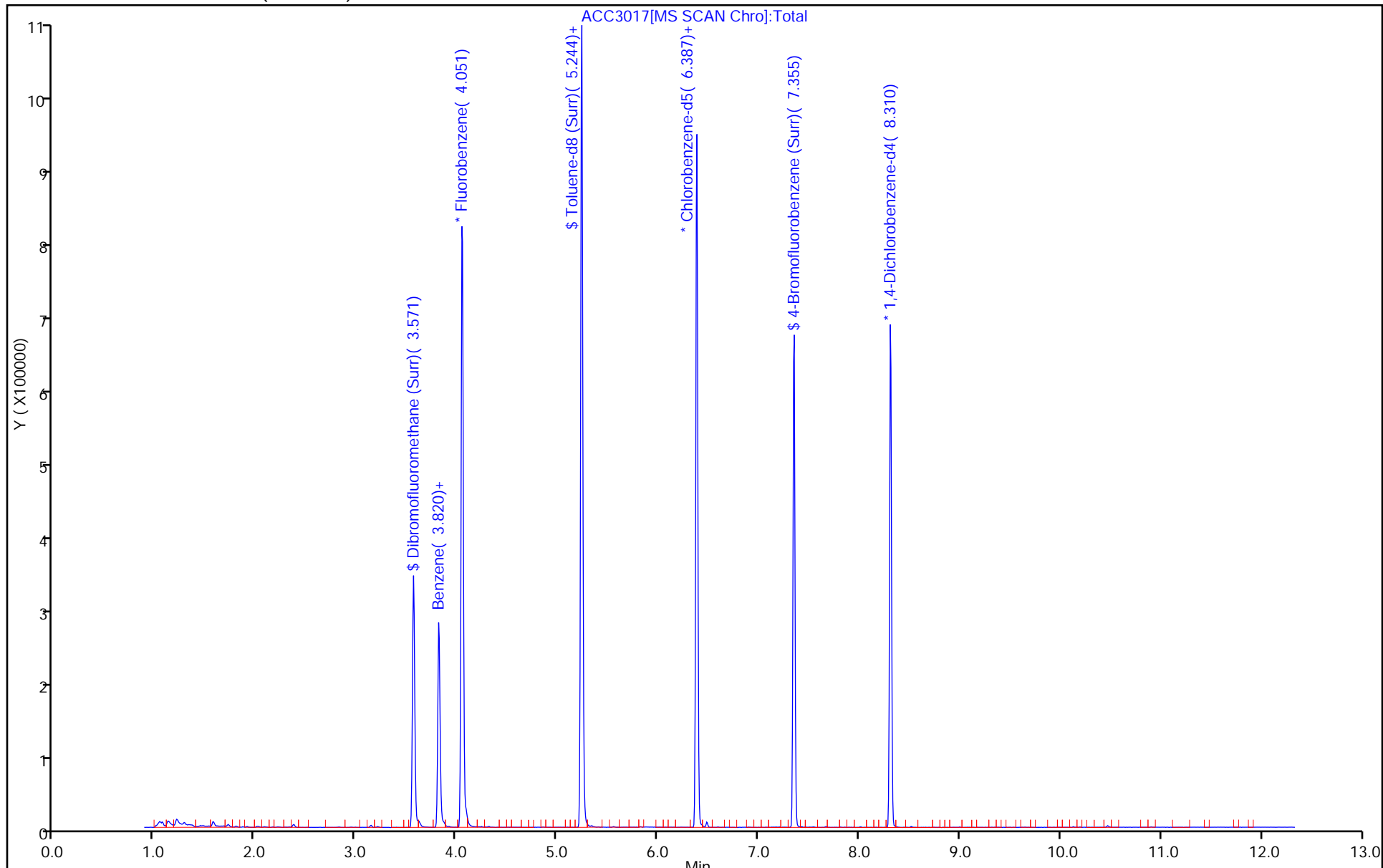
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3017.D

Injection Date: 30-Mar-2015 19:54:30

Instrument ID: CMSAC

Lims ID: 680-110788-D-1

Lab Sample ID: 680-110788-1

Client ID: 25LM20113

Operator ID: JK

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

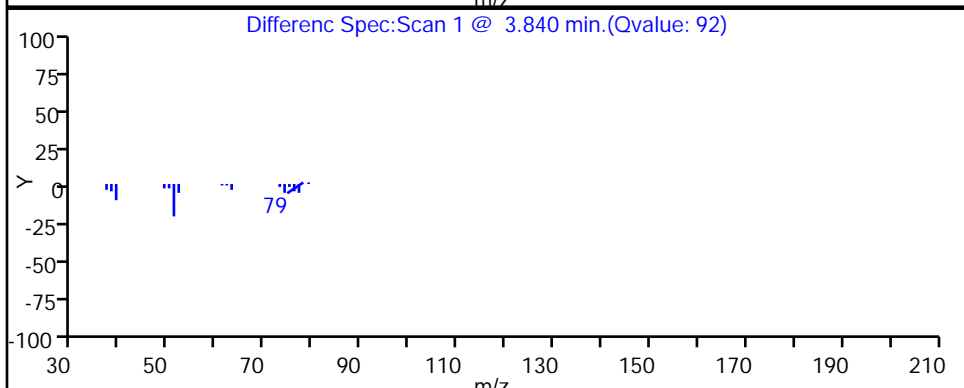
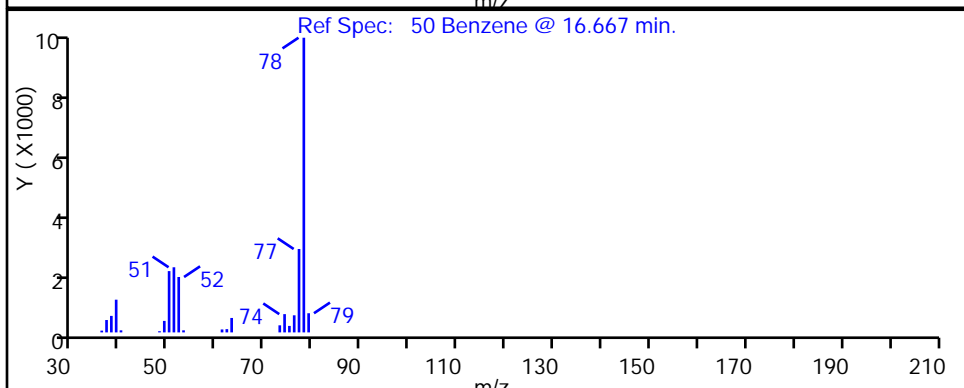
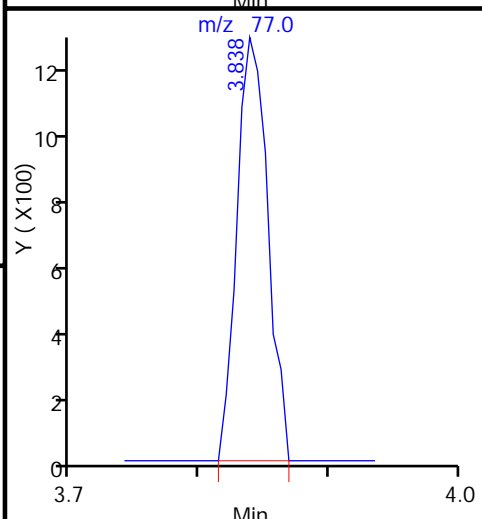
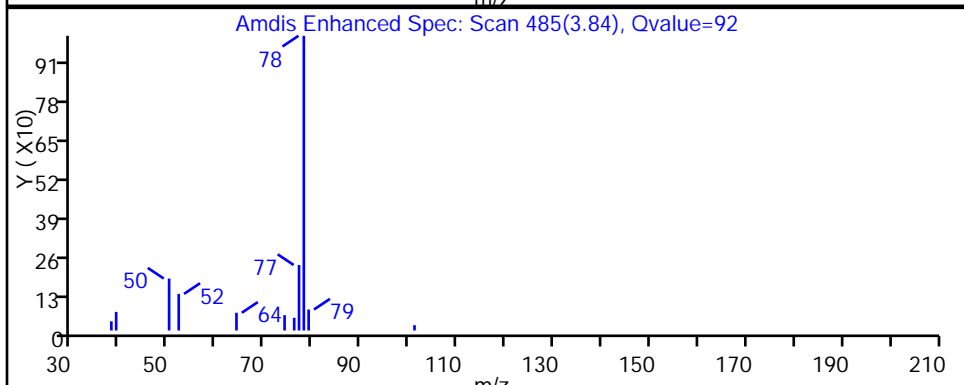
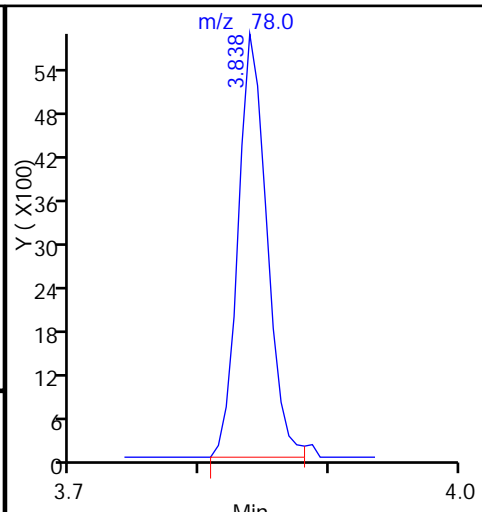
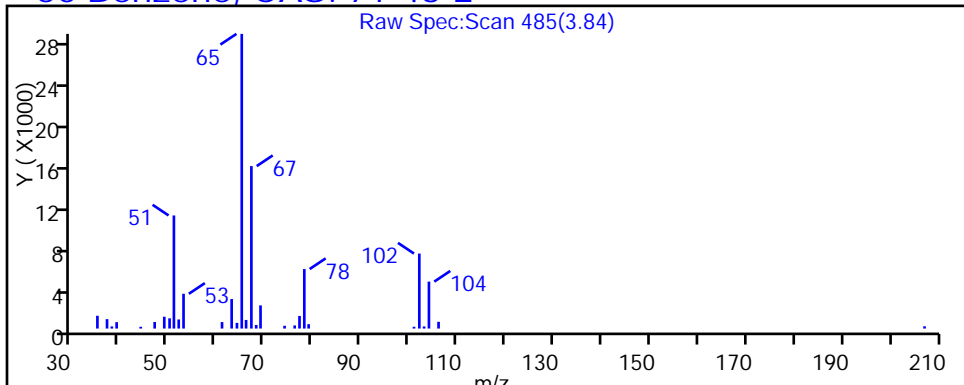
Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)

Detector: MS SCAN

50 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114 Lab Sample ID: 680-110788-2
 Matrix: Water Lab File ID: ACC3018.D
 Analysis Method: 8260B Date Collected: 03/18/2015 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 20:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
78-93-3	2-Butanone	ND		10	3.4
591-78-6	2-Hexanone	ND		10	2.0
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
67-64-1	Acetone	ND		10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
100-41-4	Ethylbenzene	ND		1.0	0.33
98-82-8	Isopropylbenzene	ND		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114 Lab Sample ID: 680-110788-2
 Matrix: Water Lab File ID: ACC3018.D
 Analysis Method: 8260B Date Collected: 03/18/2015 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 20:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	1.8
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
100-42-5	Styrene	ND		1.0	0.27
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3018.D
 Lims ID: 680-110788-D-2 Lab Sample ID: 680-110788-2
 Client ID: 25LM20114
 Sample Type: Client
 Inject. Date: 30-Mar-2015 20:17:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018298-018
 Misc. Info.: 788-2
 Operator ID: JK Instrument ID: CMSAC
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 21:44:28 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: derricoj

Date: 30-Mar-2015 21:44:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.573	3.571	0.002	98	177771	50.3	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.823	3.820	0.003	96	158278	47.6	
* 55 Fluorobenzene	96	4.054	4.051	0.003	0	665087	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.240	5.244	-0.004	99	657973	50.9	
* 80 Chlorobenzene-d5	82	6.384	6.387	-0.003	85	255478	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.351	7.349	0.002	89	191585	46.7	
* 109 1,4-Dichlorobenzene-d4	152	8.312	8.310	0.002	98	181623	50.0	
\$ 127 BFB								

Reagents:

DOD ISSU_00068 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3018.D

Injection Date: 30-Mar-2015 20:17:30

Instrument ID: CMSAC

Operator ID: JK

Lims ID: 680-110788-D-2

Lab Sample ID: 680-110788-2

Worklist Smp#: 18

Client ID: 25LM20114

Purge Vol: 5.000 mL

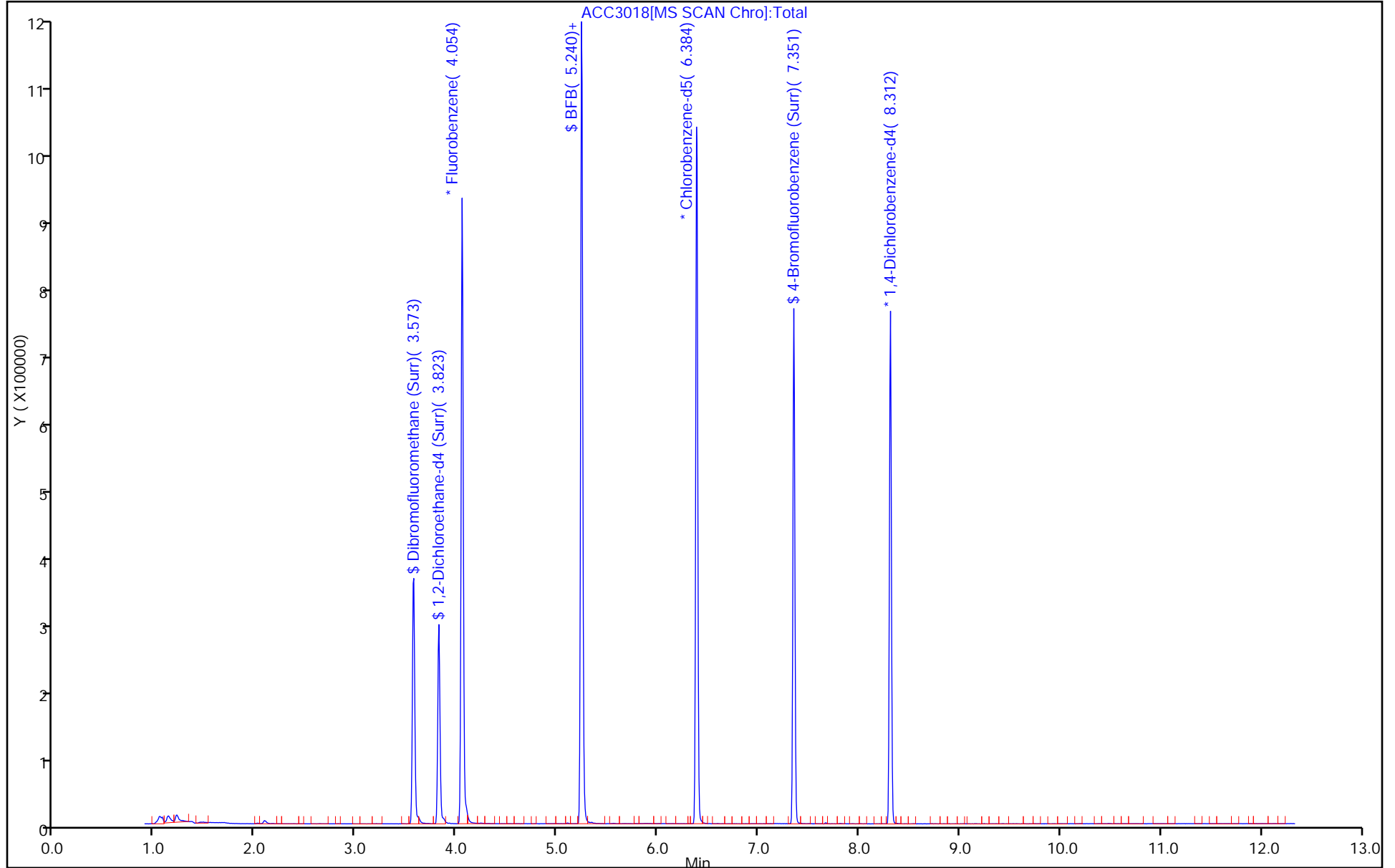
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20115 Lab Sample ID: 680-110788-3
 Matrix: Water Lab File ID: ACC3019.D
 Analysis Method: 8260B Date Collected: 03/18/2015 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 20:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
78-93-3	2-Butanone	ND		10	3.4
591-78-6	2-Hexanone	ND		10	2.0
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
67-64-1	Acetone	ND		10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
100-41-4	Ethylbenzene	ND		1.0	0.33
98-82-8	Isopropylbenzene	ND		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20115 Lab Sample ID: 680-110788-3
 Matrix: Water Lab File ID: ACC3019.D
 Analysis Method: 8260B Date Collected: 03/18/2015 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 20:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	1.8
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
100-42-5	Styrene	ND		1.0	0.27
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3019.D
 Lims ID: 680-110788-D-3 Lab Sample ID: 680-110788-3
 Client ID: 25LM20115
 Sample Type: Client
 Inject. Date: 30-Mar-2015 20:40:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018298-019
 Misc. Info.: 788-3
 Operator ID: JK Instrument ID: CMSAC
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 21:44:44 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: derricoj Date: 30-Mar-2015 21:44:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.572	3.571	0.001	97	172371	48.7	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.821	3.820	0.001	96	159833	48.0	
* 55 Fluorobenzene	96	4.058	4.051	0.007	0	666513	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.245	5.244	0.001	99	650828	50.2	
* 80 Chlorobenzene-d5	82	6.388	6.387	0.001	85	249684	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.350	7.349	0.001	89	184546	46.8	
* 109 1,4-Dichlorobenzene-d4	152	8.311	8.310	0.001	98	174470	50.0	

Reagents:

DOD ISSU_00068 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3019.D

Injection Date: 30-Mar-2015 20:40:30

Instrument ID: CMSAC

Operator ID: JK

Lims ID: 680-110788-D-3

Lab Sample ID: 680-110788-3

Worklist Smp#: 19

Client ID: 25LM20115

Purge Vol: 5.000 mL

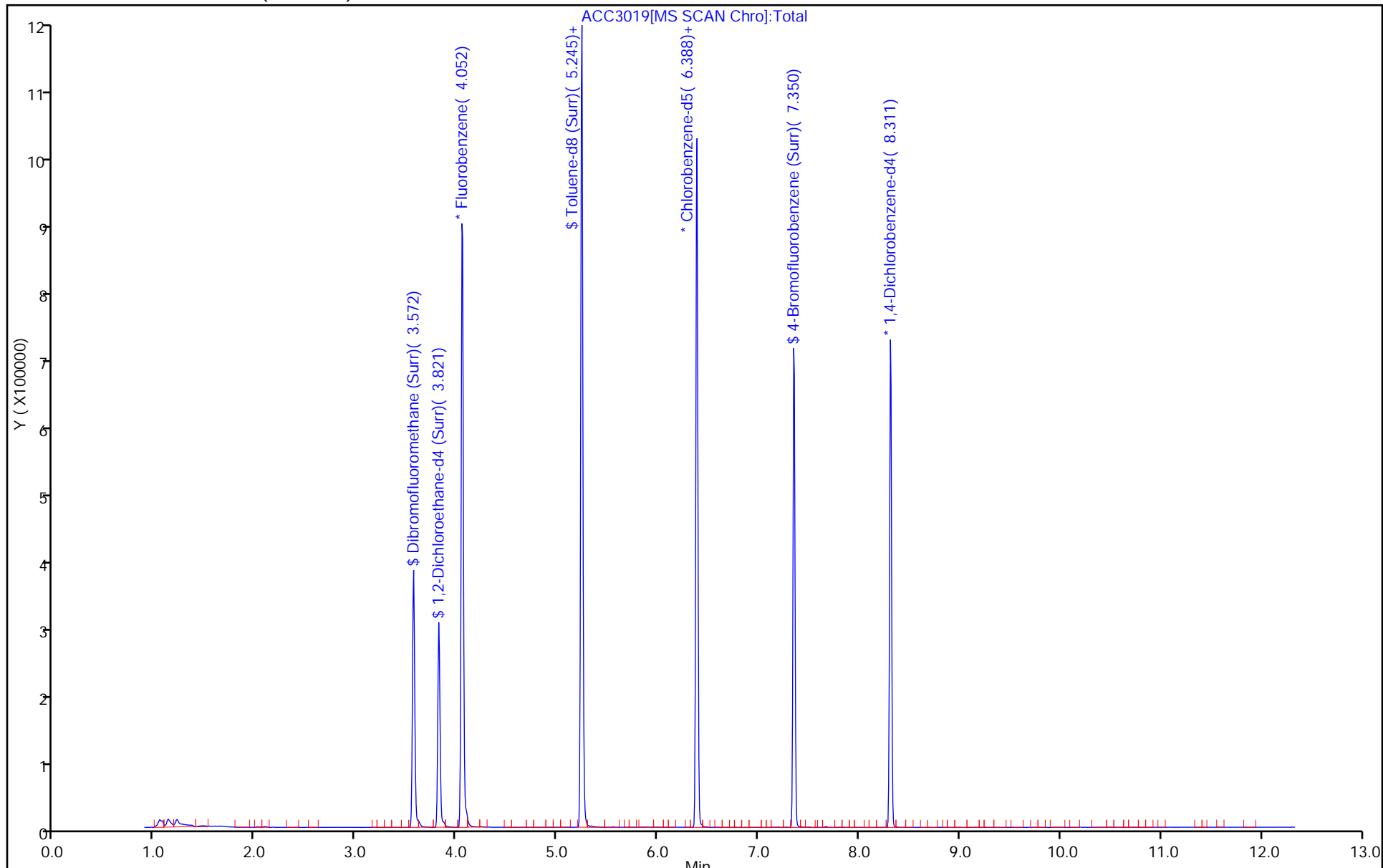
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM00112 Lab Sample ID: 680-110788-4
 Matrix: Water Lab File ID: ACC3020.D
 Analysis Method: 8260B Date Collected: 03/18/2015 14:30
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 21:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
78-93-3	2-Butanone	ND		10	3.4
591-78-6	2-Hexanone	ND		10	2.0
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
67-64-1	Acetone	35		10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
100-41-4	Ethylbenzene	ND		1.0	0.33
98-82-8	Isopropylbenzene	ND		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM00112 Lab Sample ID: 680-110788-4
 Matrix: Water Lab File ID: ACC3020.D
 Analysis Method: 8260B Date Collected: 03/18/2015 14:30
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 21:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	1.8
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
100-42-5	Styrene	ND		1.0	0.27
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3020.D
 Lims ID: 680-110788-D-4 Lab Sample ID: 680-110788-4
 Client ID: 25LM00112
 Sample Type: Client
 Inject. Date: 30-Mar-2015 21:02:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018298-020
 Misc. Info.: 788-4
 Operator ID: JK Instrument ID: CMSAC
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 21:45:12 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: derricoj Date: 30-Mar-2015 21:45:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
14 Acetone	58	2.021	2.020	0.001	87	8043	34.9	
\$ 42 Dibromofluoromethane (Surr	113	3.572	3.571	0.001	97	168946	48.5	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.822	3.820	0.002	96	155657	47.4	
* 55 Fluorobenzene	96	4.053	4.051	0.002	0	656433	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.245	5.244	0.001	99	644544	50.5	
* 80 Chlorobenzene-d5	82	6.383	6.387	-0.004	84	250477	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.350	7.349	0.001	89	185054	47.0	
* 109 1,4-Dichlorobenzene-d4	152	8.311	8.310	0.001	98	174183	50.0	

Reagents:

DOD ISSU_00068 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3020.D

Injection Date: 30-Mar-2015 21:02:30

Instrument ID: CMSAC

Operator ID: JK

Lims ID: 680-110788-D-4

Lab Sample ID: 680-110788-4

Worklist Smp#: 20

Client ID: 25LM00112

Purge Vol: 5.000 mL

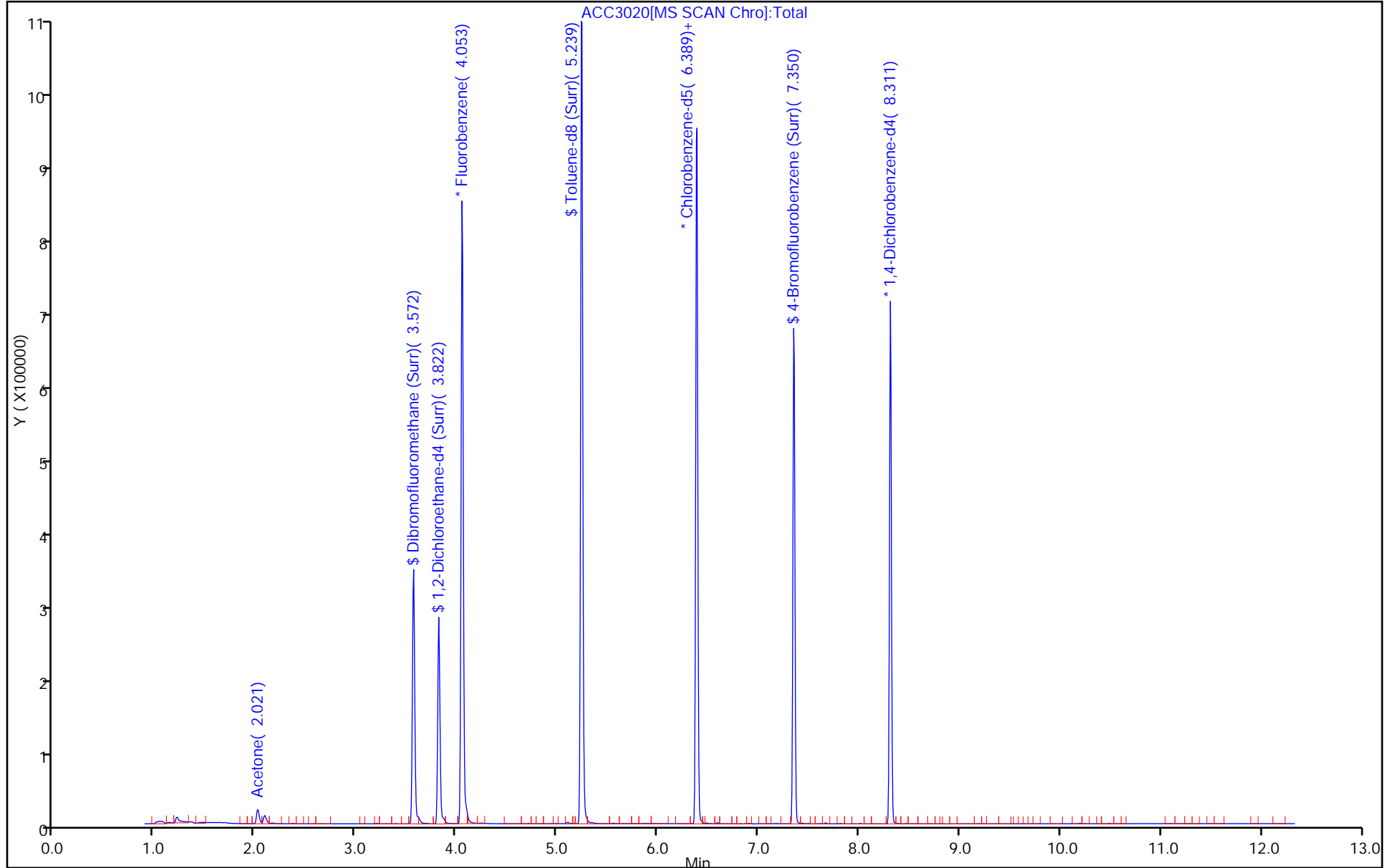
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3020.D

Injection Date: 30-Mar-2015 21:02:30

Instrument ID: CMSAC

Lims ID: 680-110788-D-4

Lab Sample ID: 680-110788-4

Client ID: 25LM00112

Operator ID: JK

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

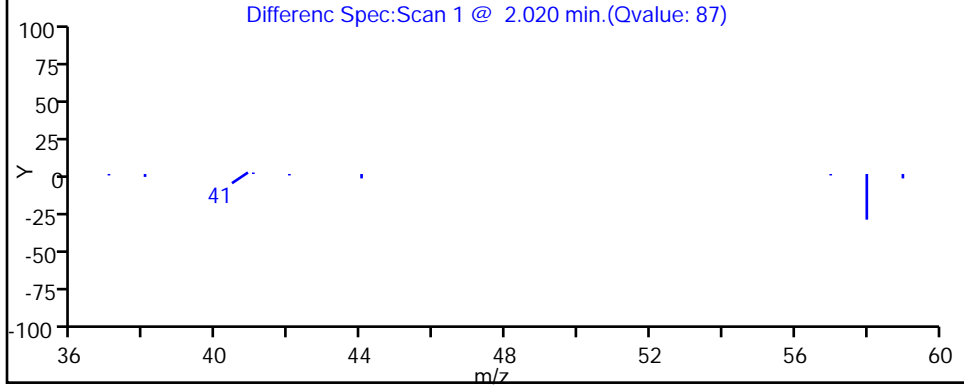
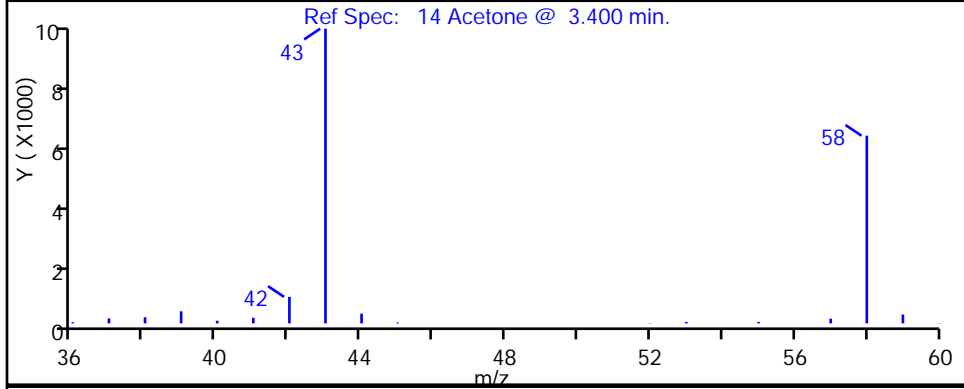
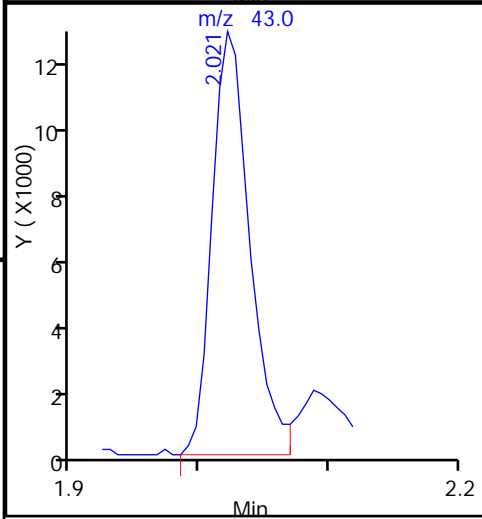
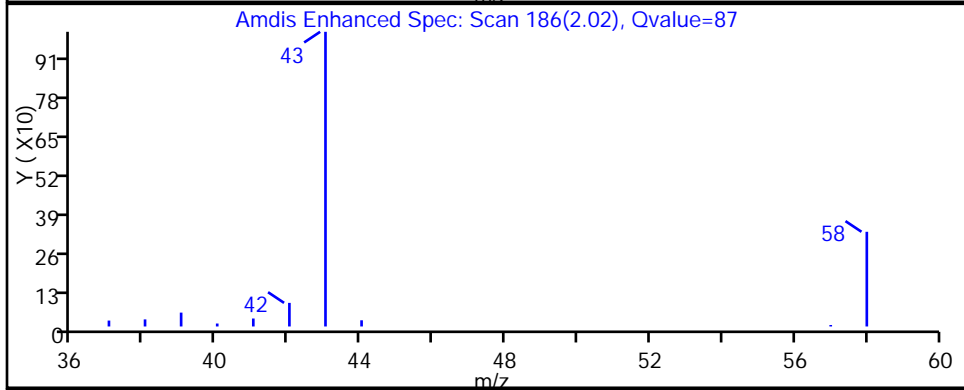
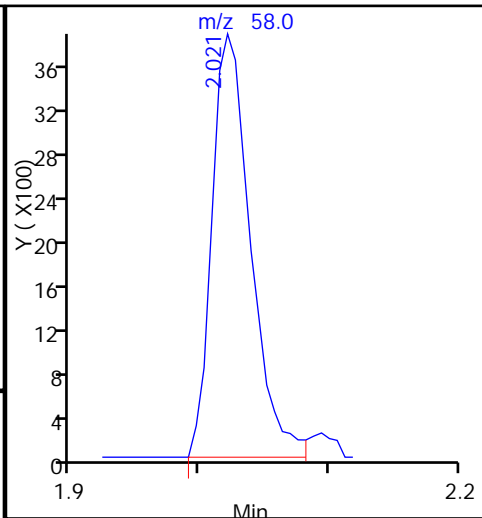
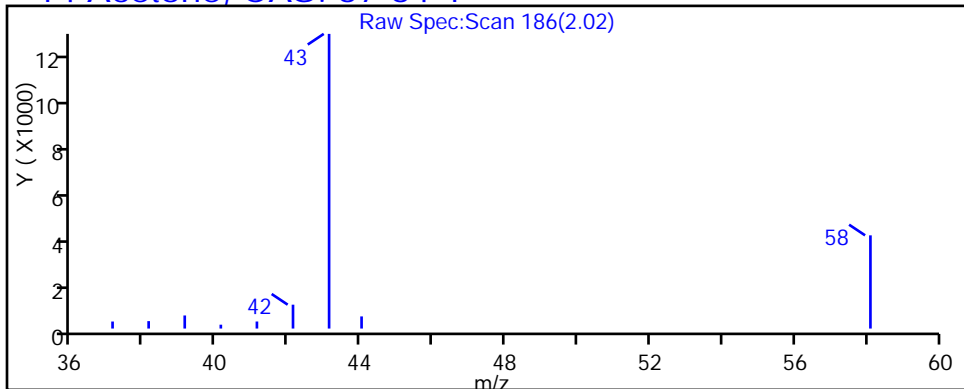
Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)

Detector: MS SCAN

14 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM00027 Lab Sample ID: 680-110788-5
 Matrix: Water Lab File ID: ACC3010.D
 Analysis Method: 8260B Date Collected: 03/18/2015 14:30
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 17:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
78-93-3	2-Butanone	ND		10	3.4
591-78-6	2-Hexanone	ND		10	2.0
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
67-64-1	Acetone	9.5	J	10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
100-41-4	Ethylbenzene	ND		1.0	0.33
98-82-8	Isopropylbenzene	ND		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM00027 Lab Sample ID: 680-110788-5
 Matrix: Water Lab File ID: ACC3010.D
 Analysis Method: 8260B Date Collected: 03/18/2015 14:30
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 17:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	1.8
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
100-42-5	Styrene	ND		1.0	0.27
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3010.D
 Lims ID: 680-110788-H-5 Lab Sample ID: 680-110788-5
 Client ID: 25LM00027
 Sample Type: Client
 Inject. Date: 30-Mar-2015 17:16:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018298-010
 Misc. Info.: 788-5
 Operator ID: JK Instrument ID: CMSAC
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 21:42:17 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: derricoj Date: 30-Mar-2015 21:42:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
14 Acetone	58	2.021	2.020	0.001	86	2179	9.50	
\$ 42 Dibromofluoromethane (Surr	113	3.566	3.571	-0.005	97	173487	50.1	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.816	3.820	-0.004	96	154115	47.2	
* 55 Fluorobenzene	96	4.053	4.051	0.002	0	652590	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.239	5.244	-0.005	99	670396	52.8	
* 80 Chlorobenzene-d5	82	6.383	6.387	-0.004	84	257668	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.350	7.349	0.001	88	197347	47.7	
* 109 1,4-Dichlorobenzene-d4	152	8.311	8.310	0.001	98	183160	50.0	

Reagents:

DOD ISSU_00068 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3010.D

Injection Date: 30-Mar-2015 17:16:30

Instrument ID: CMSAC

Operator ID: JK

Lims ID: 680-110788-H-5

Lab Sample ID: 680-110788-5

Worklist Smp#: 10

Client ID: 25LM00027

Purge Vol: 5.000 mL

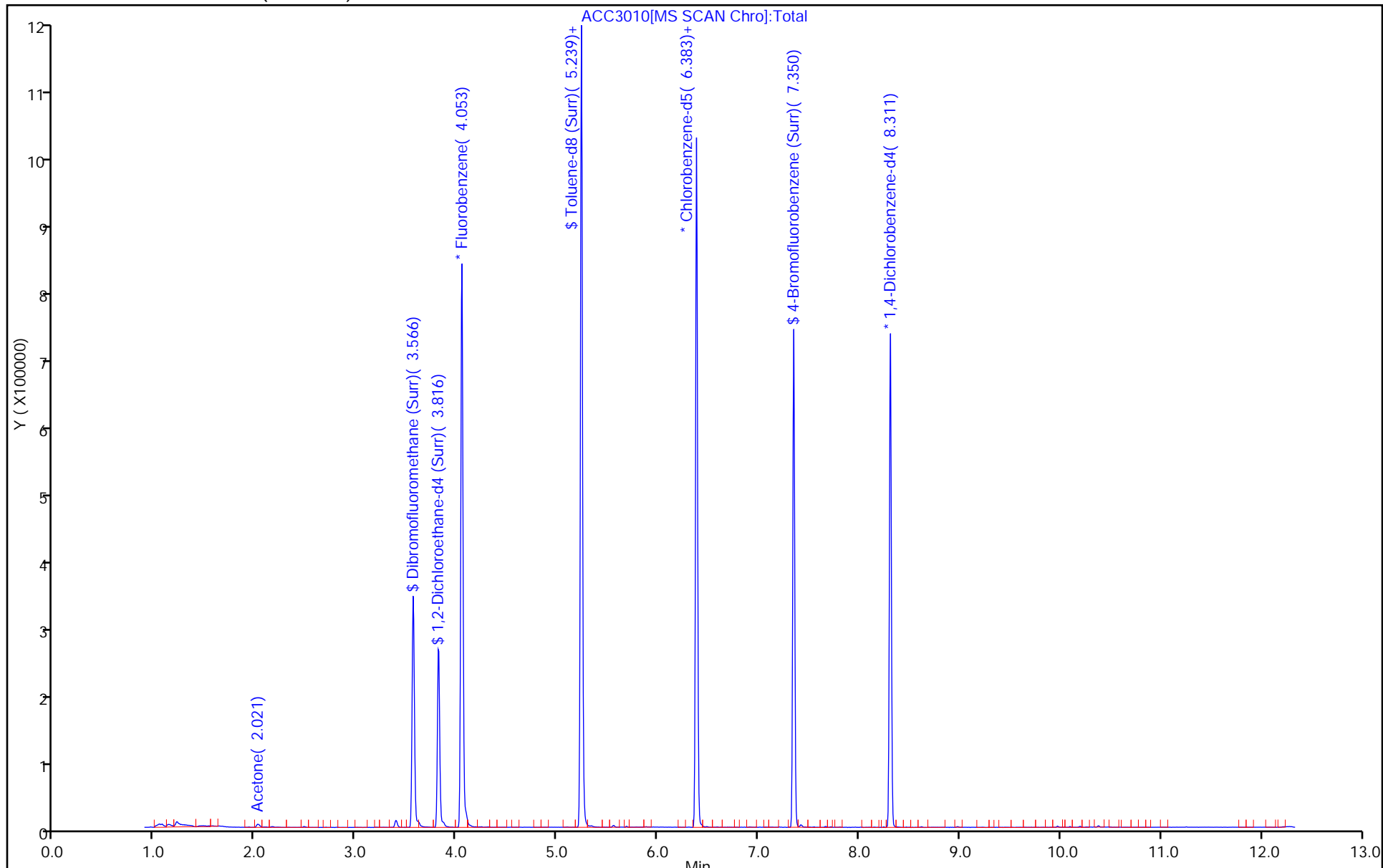
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3010.D

Injection Date: 30-Mar-2015 17:16:30

Instrument ID: CMSAC

Lims ID: 680-110788-H-5

Lab Sample ID: 680-110788-5

Client ID: 25LM00027

Operator ID: JK

ALS Bottle#: 9

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

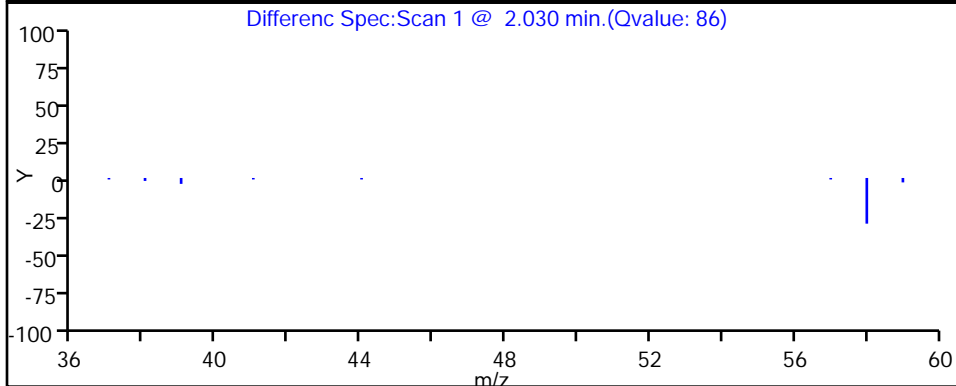
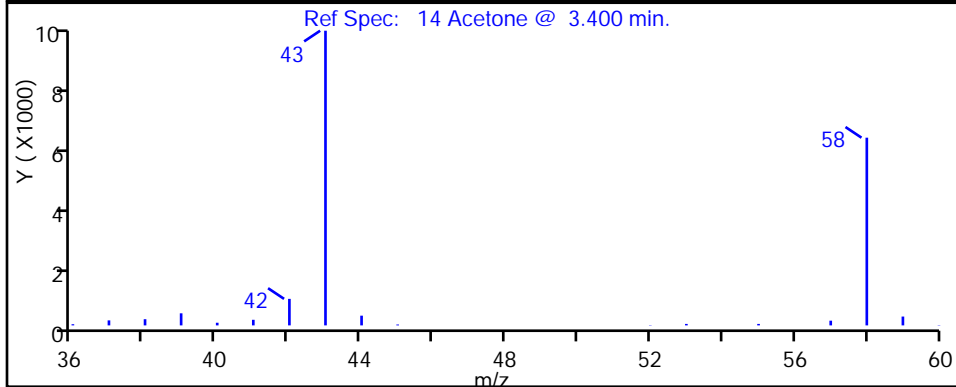
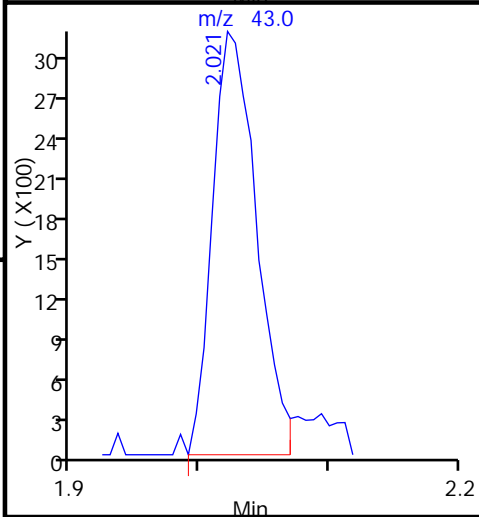
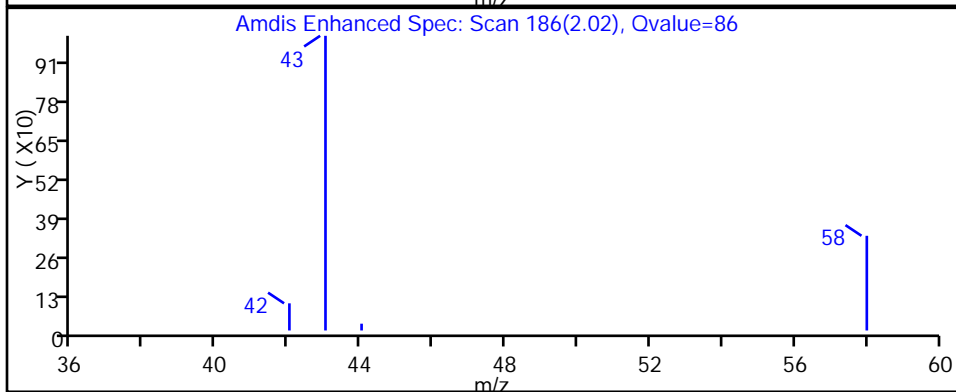
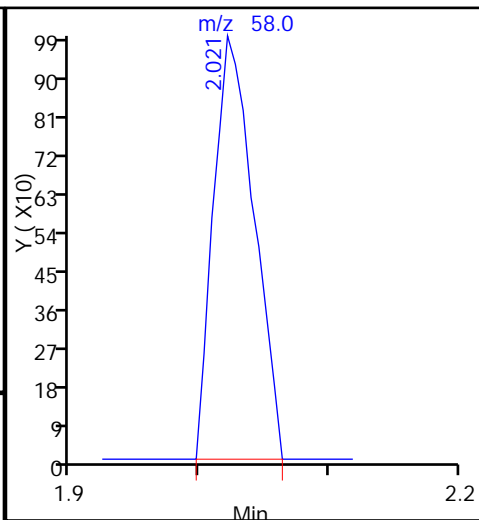
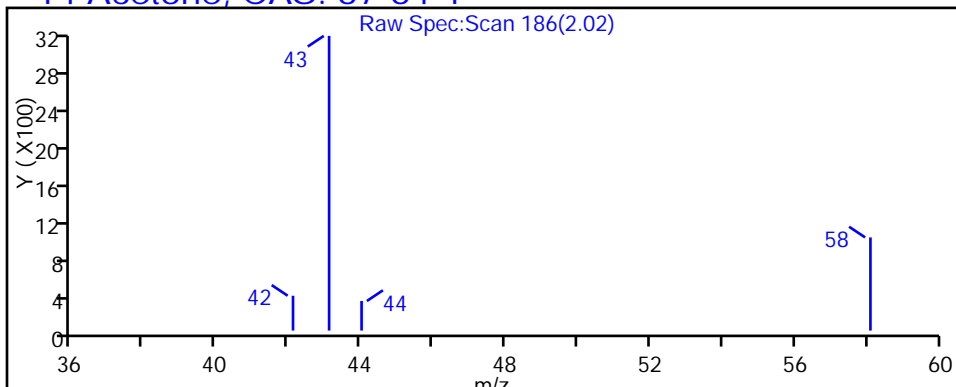
Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)

Detector: MS SCAN

14 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 376029

SDG No.: _____

Instrument ID: CMSAC GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2015 20:21 Calibration End Date: 03/25/2015 23:00 Calibration ID: 38261

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-376029/5	ACC2505.D
Level 2	IC 680-376029/6	ACC2506.D
Level 3	IC 680-376029/7	ACC2507.D
Level 4	IC 680-376029/8	ACC2508.D
Level 5	IC 680-376029/9	ACC2509.D
Level 6	ICIS 680-376029/10	ACC2510.D
Level 7	IC 680-376029/11	ACC2511.D
Level 8	IC 680-376029/12	ACC2512.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								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	0.2589 0.2319	0.2495 0.2144	0.2525 0.1933	0.2406	0.2238	Ave		0.2331			9.4		15.0				
Chloromethane	0.2382 0.1545	0.2004 0.1541	0.1906 0.1526	0.1814	0.1576	LinF		0.1531		0.1000				1.0000			0.9900
Vinyl chloride	0.3087 0.2612	0.2913 0.2429	0.2909 0.2231	0.2873	0.2521	Ave		0.2697			10.9		15.0				
1,3-Butadiene	0.3153 0.2905	0.3431 0.2783	0.3296 0.2352	0.3043	0.2867	Ave		0.2979			11.3		15.0				
Bromomethane	0.0587 0.0692	0.0815 0.0567	0.0700 +++++	0.0617	0.0587	Ave		0.0652			13.6		15.0				
Chloroethane		0.1559 0.1252	0.1436 +++++	0.1352	0.1372	Ave		0.1342			12.1		15.0				
Dichlorofluoromethane	0.4442 0.3729	0.4506 0.3399	0.3974 0.2880	0.3841	0.3725	Ave		0.3812			13.9		15.0				
Trichlorofluoromethane	0.4447 0.4149	0.4266 0.4000	0.4257 0.3503	0.4117	0.3886	Ave		0.4078			7.1		15.0				
Ethyl ether	0.1662 0.1848	0.1529 0.1881	0.1709 0.1916	0.1739	0.1672	Ave		0.1745			7.5		15.0				
Acrolein	0.0184 0.0147	0.0159 0.0145	0.0156 0.0143	0.0150	0.0143	Ave		0.0153			8.9		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2189 0.2514	0.2263 0.2509	0.2348 0.2450	0.2368	0.2309	Ave		0.2369			4.9		15.0				
1,1-Dichloroethene	0.2878 0.2602	0.2711 0.2551	0.2698 0.2514	0.2673	0.2493	Ave		0.2640			4.8		15.0				
Acetone	0.0206 0.0170	0.0187 0.0160	0.0178 0.0152	0.0182	0.0171	Ave		0.0176			9.5		15.0				
Iodomethane	0.1333 0.2269	0.1440 0.2372	0.1679 0.2259	0.1827	0.1850	LinF		0.2277						0.9990			0.9900

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 Savannah

Job No.: 680-110788-1

Analy Batch No.: 376029

SDG No.: _____

Instrument ID: CMSAC

GC Column: RTX-VMS

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2015 20:21

Calibration End Date: 03/25/2015 23:00

Calibration ID: 38261

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								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	1.0616 0.8458	0.9860 0.7135	0.9921 0.6337	0.9404	0.8646	QuaF		0.8468	-0.001077					0.9990		0.9900	
Methyl acetate	0.1328 0.1339	0.1294 0.1315	0.1379 0.1289	0.1310	0.1254	Ave		0.1313			2.8		15.0				
Allyl chloride	0.2157 0.1923	0.2079 0.2295	0.2178 0.2523	0.1941	0.1793	Ave		0.2111			11.0		15.0				
Methylene Chloride	0.2780 0.2280	0.2734 0.2299	0.2624 0.2180	0.2608	0.2263	Ave		0.2471			9.7		15.0				
tert-Butyl alcohol	0.0160 0.0156	0.0152 0.0153	0.0162 0.0118	0.0157	0.0150	Ave		0.0151			9.3		15.0				
Acrylonitrile	0.0806 0.0695	0.0757 0.0666	0.0761 0.0596	0.0729	0.0657	Ave		0.0708			9.6		15.0				
Methyl tert-butyl ether	0.5081 0.5931	0.4917 0.5953	0.5402 0.5792	0.5404	0.5234	Ave		0.5464			7.2		15.0				
trans-1,2-Dichloroethene	0.2753 0.2719	0.2621 0.2727	0.2742 0.2698	0.2709	0.2525	Ave		0.2687			2.9		15.0				
Hexane	0.3712 0.3840	0.3320 0.3903	0.3591 0.3821	0.3608	0.3451	Ave		0.3656			5.5		15.0				
Vinyl acetate	0.3144 0.4009	0.3119 0.3972	0.3437 0.3811	0.3451	0.3373	Ave		0.3540			9.9		15.0				
1,1-Dichloroethane	0.5695 0.4862	0.5186 0.4806	0.5343 0.4651	0.5127	0.4716	Ave		0.5048		0.1000	7.1		15.0				
2-Butanone	0.0197 0.0224	0.0181 0.0226	0.0199 0.0224	0.0206	0.0200	Ave		0.0207			7.8		15.0				
cis-1,2-Dichloroethene	0.7611 0.4270	0.5831 0.4158	0.5117 0.3967	0.4618	0.4211	LinF		0.4021						0.9990		0.9900	
2,2-Dichloropropane	0.4064 0.4053	0.3799 0.3973	0.4089 0.3865	0.4102	0.3960	Ave		0.3988			2.8		15.0				
Bromochloromethane	0.2158 0.1988	0.2034 0.1989	0.2146 0.1736	0.2119	0.1963	Ave		0.2017			6.8		15.0				
Tetrahydrofuran	0.0912 0.0541	0.0662 0.0533	0.0597 0.0543	0.0551	0.0505	Lin	-0.002	0.0541						1.0000		0.9900	
Chloroform	0.4913 0.4678	0.4523 0.4544	0.4684 0.4532	0.4590	0.4329	Ave		0.4599			3.7		15.0				
1,1,1-Trichloroethane	0.3911 0.4241	0.3649 0.4221	0.4063 0.4176	0.4040	0.3896	Ave		0.4024			5.0		15.0				
Cyclohexane	0.3690 0.4263	0.3684 0.4370	0.3907 0.4321	0.3840	0.3741	Ave		0.3977			7.4		15.0				
1,1-Dichloropropene	0.3222 0.3423	0.2923 0.3444	0.3150 0.3493	0.3210	0.3032	Ave		0.3237			6.3		15.0				

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 Savannah

Job No.: 680-110788-1

Analy Batch No.: 376029

SDG No.: _____

Instrument ID: CMSAC

GC Column: RTX-VMS

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2015 20:21

Calibration End Date: 03/25/2015 23:00

Calibration ID: 38261

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								
	LVL 6	LVL 7	LVL 8														
Carbon tetrachloride	0.3264 0.3810	0.3087 0.3867	0.3591 0.3755	0.3514	0.3420	Ave		0.3539			7.7		15.0				
Isobutanol	0.0101 0.0073	0.0069 0.0064	0.0080 ++++	0.0072	0.0069	LinF		0.0066						0.9940		0.9900	
Benzene	1.0962 1.0889	1.0264 1.0765	1.0883 1.0170	1.0732	1.0115	Ave		1.0598			3.3		15.0				
1,2-Dichloroethane	0.2905 0.3135	0.2890 0.3133	0.2989 0.3118	0.3038	0.2916	Ave		0.3016			3.5		15.0				
n-Heptane	0.4646 0.3370	0.3920 0.3379	0.3724 0.3182	0.3607	0.3279	Ave		0.3638			13.1		15.0				
Trichloroethene	0.5661 0.3067	0.4205 0.3128	0.3425 0.3101	0.3026	0.2838	LinF		0.3102						1.0000		0.9900	
Methylcyclohexane	0.4554 0.4930	0.4483 0.5034	0.4686 0.4912	0.4674	0.4464	Ave		0.4717			4.6		15.0				
1,2-Dichloropropane	0.2592 0.2787	0.2461 0.2827	0.2620 0.2819	0.2662	0.2513	Ave		0.2660			5.3		15.0				
1,4-Dioxane	0.0015	0.0012 0.0014	0.0015 0.0012	0.0015	0.0015	Ave		0.0014			10.0		15.0				
Dibromomethane	0.1588 0.1545	0.1486 0.1546	0.1578 0.1552	0.1536	0.1456	Ave		0.1536			2.9		15.0				
Bromodichloromethane	0.3057 0.3459	0.2852 0.3576	0.3174 0.3608	0.3194	0.3106	Ave		0.3253			8.2		15.0				
2-Chloroethyl vinyl ether	0.1087 0.1415	0.1109 0.1445	0.1273 0.1450	0.1282	0.1268	Ave		0.1291			11.0		15.0				
cis-1,3-Dichloropropene	0.3720 0.4202	0.3544 0.4285	0.3874 0.4276	0.3902	0.3758	Ave		0.3945			7.1		15.0				
4-Methyl-2-pentanone	0.1910 0.1711	0.1742 0.1616	0.1815 0.1313	0.1730	0.1633	Ave		0.1684			10.5		15.0				
Toluene	0.7336 0.6231	0.6883 0.6164	0.6843 0.5862	0.6629	0.6064	Ave		0.6502			7.7		15.0				
trans-1,3-Dichloropropene	0.3259 0.3496	0.3009 0.3554	0.3197 0.3518	0.3266	0.3132	Ave		0.3304			6.0		15.0				
Ethyl methacrylate	0.3202 0.2746	0.3052 0.2638	0.3013 0.2380	0.2832	0.2675	Ave		0.2817			9.4		15.0				
1,1,2-Trichloroethane	0.1762 0.1774	0.1626 0.1804	0.1728 0.1794	0.1688	0.1619	Ave		0.1724			4.2		15.0				
Tetrachloroethene	0.2745 0.2575	0.2646 0.2578	0.2674 0.2475	0.2632	0.2441	Ave		0.2596			3.9		15.0				
1,3-Dichloropropane	0.3550 0.3590	0.3382 0.3596	0.3540 0.3543	0.3379	0.3252	Ave		0.3479			3.6		15.0				

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 Savannah

Job No.: 680-110788-1

Analy Batch No.: 376029

SDG No.: _____

Instrument ID: CMSAC

GC Column: RTX-VMS

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2015 20:21

Calibration End Date: 03/25/2015 23:00

Calibration ID: 38261

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								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.1427	0.1303	0.1322	0.1218	0.1125	Ave		0.1229			10.4		15.0				
	0.1142	0.1067	++++														
Dibromochloromethane	0.2358	0.2167	0.2347	0.2389	0.2343	Ave		0.2454			8.1		15.0				
	0.2648	0.2741	0.2638														
1,2-Dibromoethane	0.2214	0.2038	0.2184	0.2138	0.2053	Ave		0.2150			3.5		15.0				
	0.2219	0.2235	0.2117														
Chlorobenzene	2.0528	1.8865	1.8956	1.9244	1.7740	Ave		1.8907		0.3000	4.3		15.0				
	1.8950	1.8813	1.8162														
1,1,1,2-Tetrachloroethane	0.5811	0.5692	0.6294	0.6688	0.6522	Ave		0.6626			10.2		15.0				
	0.7431	0.7371	0.7199														
Ethylbenzene	3.0760	2.8874	2.9890	2.9666	2.7586	Ave		2.8829			5.0		15.0				
	2.9333	2.8392	2.6134														
m-Xylene & p-Xylene	2.2480	2.0477	2.0649	2.0813	1.9383	Ave		2.0656			4.2		15.0				
	2.0534	2.0651	2.0261														
o-Xylene	2.2006	2.0533	2.0438	2.0601	1.9225	Ave		2.0209			5.0		15.0				
	2.0405	1.9846	1.8615														
Styrene	1.8177	1.6704	1.7210	1.7077	1.5982	Ave		1.6704			5.5		15.0				
	1.7004	1.6417	1.5063														
Bromoform	0.3662	0.3477	0.3987	0.4066	0.4116	Ave		0.4141		0.1000	11.7		15.0				
	0.4831	0.4822	0.4164														
Isopropylbenzene	2.8584	2.6501	2.6897	2.6937	2.5117	Ave		2.6082			6.6		15.0				
	2.6420	2.5540	2.2658														
1,1,2,2-Tetrachloroethane	0.5878	0.5307	0.5678	0.5732	0.5432	Ave		0.5410		0.3000	10.2		15.0				
	0.5773	0.5328	0.4154														
Bromobenzene	0.8187	0.7546	0.7627	0.7448	0.6994	Ave		0.7272			8.6		15.0				
	0.7345	0.6982	0.6049														
trans-1,4-Dichloro-2-butene	0.1539	0.1521	0.1500	0.1497	0.1454	Ave		0.1462			9.8		15.0				
	0.1595	0.1467	0.1124														
1,2,3-Trichloropropane	0.6904	0.6225	0.6370	0.6812	0.6654	Ave		0.6506			9.4		15.0				
	0.7216	0.6677	0.5192														
N-Propylbenzene	2.9492	2.7070	2.7781	2.7619	2.5698	Ave		2.6633			7.4		15.0				
	2.6840	2.5747	2.2818														
2-Chlorotoluene	1.7558	1.5964	1.6468	1.6201	1.4877	Ave		1.5637			8.0		15.0				
	1.5761	1.4845	1.3422														
1,3,5-Trimethylbenzene	1.8633	1.6815	1.7140	1.7076	1.5851	Ave		1.6771			5.5		15.0				
	1.6691	1.6312	1.5652														
4-Chlorotoluene	1.9264	1.7853	1.8346	1.8085	1.6369	Ave		1.7375			7.5		15.0				
	1.7330	1.6668	1.5084														
tert-Butylbenzene	1.8210	1.7067	1.7315	1.7265	1.5937	Ave		1.6473			8.2		15.0				
	1.6515	1.5665	1.3810														

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 Savannah

Job No.: 680-110788-1

Analy Batch No.: 376029

SDG No.: _____

Instrument ID: CMSAC

GC Column: RTX-VMS

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2015 20:21

Calibration End Date: 03/25/2015 23:00

Calibration ID: 38261

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								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	1.7751 1.5934	1.6164 1.5624	1.6491 1.5479	1.6273	1.5076	Ave		1.6099			5.0		15.0				
sec-Butylbenzene	2.4605 2.2433	2.2609 2.1000	2.3112 1.8802	2.3273	2.1643	Ave		2.2185			7.9		15.0				
1,3-Dichlorobenzene	1.6363 1.5598	1.5264 1.5425	1.5650 1.5012	1.5339	1.4456	Ave		1.5388			3.6		15.0				
p-Isopropyltoluene	2.6666 2.7159	2.6103 2.7180	2.6687 2.6122	2.6305	2.4751	Ave		2.6372			2.9		15.0				
1,4-Dichlorobenzene	1.6510 1.5538	1.5122 1.5228	1.5319 1.5219	1.5022	1.4320	Ave		1.5285			4.0		15.0				
n-Butylbenzene	1.9503 2.0281	1.8721 2.1060	1.9334 2.1614	1.9205	1.8530	Ave		1.9781			5.6		15.0				
1,2-Dichlorobenzene	1.3918 1.3890	1.3222 1.3748	1.3885 1.3960	1.3456	1.2785	Ave		1.3608			3.1		15.0				
1,2-Dibromo-3-Chloropropane	0.0883 0.1215	0.0995 0.1291	0.1122 ++++	0.1067	0.1044	Ave		0.1088			12.6		15.0				
1,2,4-Trichlorobenzene	0.8785 0.8897	0.8113 0.9635	0.8322 1.1057	0.8204	0.7797	Ave		0.8851			12.0		15.0				
Hexachlorobutadiene	0.4694 0.4894	0.4692 0.5309	0.4658 0.5852	0.4700	0.4507	Ave		0.4913			9.1		15.0				
Naphthalene	1.3810	1.4020 1.4645	1.3952 1.7074	1.3422	1.2687	Ave		1.4230			9.8		15.0				
1,2,3-Trichlorobenzene	0.7416 0.7830	0.7077 0.8402	0.7254 0.9516	0.7162	0.6936	Ave		0.7699			11.4		15.0				
Dibromofluoromethane (Surr)	0.2831 0.2683	0.2542 0.2579	0.2808 0.2599	0.2631	0.2564	Ave		0.2655			4.2		15.0				
1,2-Dichloroethane-d4 (Surr)	0.2593 0.2517	0.2437 0.2502	0.2534 0.2494	0.2527	0.2397	Ave		0.2500			2.4		15.0				
Toluene-d8 (Surr)	1.1423 0.9253	1.0280 0.9070	1.0459 0.8294	0.9959	0.9076	Ave		0.9727			10.2		15.0				
4-Bromofluorobenzene (Surr)	1.3628 1.1421	1.1179 1.1293	1.1383 1.0186	1.0926	1.0346	Ave		1.1295			9.3		15.0				

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 Savannah Job No.: 680-110788-1 Analy Batch No.: 376029

SDG No.: _____

Instrument ID: CMSAC GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2015 20:21 Calibration End Date: 03/25/2015 23:00 Calibration ID: 38261

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-376029/5	ACC2505.D
Level 2	IC 680-376029/6	ACC2506.D
Level 3	IC 680-376029/7	ACC2507.D
Level 4	IC 680-376029/8	ACC2508.D
Level 5	IC 680-376029/9	ACC2509.D
Level 6	ICIS 680-376029/10	ACC2510.D
Level 7	IC 680-376029/11	ACC2511.D
Level 8	IC 680-376029/12	ACC2512.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
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	FB	Ave	3288 157066	6214 296930	16243 541739	31823	60318	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Chloromethane	FB	LinF	3025 104651	4992 213405	12265 427686	23988	42483	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	3920 176910	7255 336392	18719 625187	38004	67942	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Butadiene	FB	Ave	4004 196725	8544 385469	21207 659262	40244	77253	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromomethane	FB	Ave	745 46839	2029 78559	4504 +++++	8166	15807	1.00 50.0	2.00 100	5.00 +++++	10.0	20.0
Chloroethane	FB	Ave	84831	3882 149724	9239 +++++	17886	36970	50.0	2.00 100	5.00 +++++	10.0	20.0
Dichlorofluoromethane	FB	Ave	5641 252594	11222 470689	25568 807073	50801	100378	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	5647 280998	10625 553958	27391 981750	54452	104730	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	2111 125196	3808 260429	10996 537110	23006	45072	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Acrolein	FB	Ave	4668 199243	7912 402289	20105 800134	39755	77004	20.0 1000	40.0 2000	100 4000	200	400
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2780 170293	5636 347388	15108 686816	31324	62232	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1-Dichloroethene	FB	Ave	3655 176266	6753 353220	17358 704717	35358	67183	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Acetone	FB	Ave	1308 57452	2331 111021	5722 212705	12057	22991	5.00 250	10.0 500	25.0 1000	50.0	100
Iodomethane	FB	LinF	1693 153674	3587 328423	10804 633223	24165	49850	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Carbon disulfide	FB	QuaF	13481 572873	24558 988105	63834 1775986	124384	233010	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

Analy Batch No.: 376029

SDG No.: _____

Instrument ID: CMSAC

GC Column: RTX-VMS

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2015 20:21

Calibration End Date: 03/25/2015 23:00

Calibration ID: 38261

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methyl acetate	FB	Ave	8431 453407	16113 910402	44376 1807074	86606	168910	5.00 250	10.0 500	25.0 1000	50.0	100
Allyl chloride	FB	Ave	2739 130260	5179 317861	14011 707130	25673	48308	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methylene Chloride	FB	Ave	3530 154430	6810 318373	16886 610874	34495	60990	1.00 50.0	2.00 100	5.00 200	10.0	20.0
tert-Butyl alcohol	FB	Ave	2026 105962	3785 211481	10454 329642	20730	40549	10.0 500	20.0 1000	50.0 2000	100	200
Acrylonitrile	FB	Ave	10232 470457	18844 922705	48936 1671842	96434	176969	10.0 500	20.0 1000	50.0 2000	100	200
Methyl tert-butyl ether	FB	Ave	6452 401713	12245 824403	34757 1623463	71477	141041	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	3496 184182	6529 377670	17640 756298	35827	68044	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Hexane	FB	Ave	4714 260073	8269 540442	23107 1070824	47718	93000	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	7986 543061	15537 1100127	44227 2136407	91303	181799	2.00 100	4.00 200	10.0 400	20.0	40.0
1,1-Dichloroethane	FB	Ave	7232 329316	12915 665568	34375 1303485	67814	127100	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Butanone	FB	Ave	1250 75943	2258 156263	6396 313576	13608	26896	5.00 250	10.0 500	25.0 1000	50.0	100
cis-1,2-Dichloroethene	FB	LinF	9665 289213	14522 575842	32922 1111975	61076	113492	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	5161 274495	9461 550201	26310 1083233	54254	106731	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	2741 134656	5065 275500	13807 486603	28027	52894	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Lin	2316 73292	3299 147726	7687 304595	14568	27241	2.00 100	4.00 200	10.0 400	20.0	40.0
Chloroform	FB	Ave	6239 316842	11265 629213	30135 1270226	60710	116667	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	4966 287229	9087 584516	26139 1170472	53443	104985	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	4686 288721	9176 605221	25137 1211066	50793	100826	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	4091 231870	7279 476972	20265 979035	42464	81717	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	4145 258071	7688 535578	23104 1052413	46475	92178	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Isobutanol	FB	LinF	3207 123826	4308 220626	12837 ++++	23782	46191	25.0 1250	50.0 2500	125 ++++	250	500

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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 376029

SDG No.: _____

Instrument ID: CMSAC GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2015 20:21 Calibration End Date: 03/25/2015 23:00 Calibration ID: 38261

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	13921 737491	25564 1490804	70022 2850443	141949	272587	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloroethane	FB	Ave	3689 212364	7198 433913	19234 873838	40190	78575	1.00 50.0	2.00 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	5900 228251	9762 467873	23963 891834	47713	88359	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Trichloroethene	FB	LinF	7189 207752	10472 433141	22036 869072	40029	76480	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	5783 333913	11164 697101	30148 1376629	61825	120300	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	3291 188774	6129 391465	16860 790146	35208	67733	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,4-Dioxane	FB	Ave	20826	610 38625	1926 69603	4097	8309	1000	40.0 2000	100 4000	200	400
Dibromomethane	FB	Ave	2017 104655	3700 214165	10153 435044	20316	39246	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromodichloromethane	FB	Ave	3882 234251	7103 495252	20423 1011312	42241	83706	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	1380 95870	2762 200106	8189 406277	16955	34177	1.00 50.0	2.00 100	5.00 200	10.0	20.0
cis-1,3-Dichloropropene	FB	Ave	4724 284624	8826 593337	24927 1198610	51608	101266	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Methyl-2-pentanone	FB	Ave	12128 579478	21692 1119012	58401 1840494	114419	220015	5.00 250	10.0 500	25.0 1000	50.0	100
Toluene	FB	Ave	9316 422054	17143 853566	44025 1643069	87685	163433	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	FB	Ave	4138 236754	7494 492145	20572 986116	43198	84418	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethyl methacrylate	FB	Ave	4066 185984	7602 365333	19385 667106	37455	72079	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	FB	Ave	2237 120161	4049 249820	11119 502757	22329	43626	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Tetrachloroethene	FB	Ave	3486 174421	6589 357009	17206 693728	34808	65791	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Dichloropropane	FB	Ave	4508 243132	8423 498030	22777 992919	44690	87650	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Hexanone	FB	Ave	9059 386661	16224 738803	42538 ++++	80545	151550	5.00 250	10.0 500	25.0 ++++	50.0	100
Dibromochloromethane	FB	Ave	2994 179370	5397 379607	15099 739344	31604	63132	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dibromoethane	FB	Ave	2812 150293	5076 309524	14054 593322	28275	55339	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 376029

SDG No.: _____

Instrument ID: CMSAC GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2015 20:21 Calibration End Date: 03/25/2015 23:00 Calibration ID: 38261

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBZ	Ave	10443 453431	19049 914411	47823 1633748	96540	176424	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	2956 177793	5747 358246	15878 647579	33552	64857	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethylbenzene	CBZ	Ave	15648 701856	29155 1379956	75409 2350900	148819	274340	1.00 50.0	2.00 100	5.00 200	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	11436 491329	20677 1003722	52095 1822618	104411	192757	1.00 50.0	2.00 100	5.00 200	10.0	20.0
o-Xylene	CBZ	Ave	11195 488230	20733 964612	51562 1674546	103346	191186	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Styrene	CBZ	Ave	9247 406858	16867 797925	43418 1355036	85666	158939	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromoform	CBZ	Ave	1863 115597	3511 234388	10058 374570	20395	40932	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Isopropylbenzene	CBZ	Ave	14541 632166	26759 1241368	67857 2038205	135131	249785	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	2990 138122	5359 258946	14326 373679	28755	54016	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromobenzene	CBZ	Ave	4165 175741	7620 339370	19242 544126	37362	69557	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	CBZ	Ave	783 38171	1536 71309	3784 101147	7512	14455	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	CBZ	Ave	3512 172669	6286 324538	16071 467059	34171	66170	1.00 50.0	2.00 100	5.00 200	10.0	20.0
N-Propylbenzene	CBZ	Ave	15003 642215	27334 1251440	70089 2052598	138553	255558	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Chlorotoluene	CBZ	Ave	8932 377124	16120 721546	41547 1207390	81271	147948	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	CBZ	Ave	9479 399367	16979 792855	43242 1407936	85661	157634	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Chlorotoluene	CBZ	Ave	9800 414650	18027 810159	46284 1356897	90722	162789	1.00 50.0	2.00 100	5.00 200	10.0	20.0
tert-Butylbenzene	CBZ	Ave	9264 395152	17233 761387	43685 1242292	86610	158488	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	CBZ	Ave	9030 381263	16321 759374	41605 1392395	81633	149929	1.00 50.0	2.00 100	5.00 200	10.0	20.0
sec-Butylbenzene	CBZ	Ave	12517 536755	22829 1020675	58309 1691372	116750	215239	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	6024 248430	10957 474461	27738 840180	54989	100171	1.00 50.0	2.00 100	5.00 200	10.0	20.0
p-Isopropyltoluene	DCB	Ave	9817 432569	18738 836045	47298 1462013	94304	171503	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 376029

SDG No.: _____

Instrument ID: CMSAC GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2015 20:21 Calibration End Date: 03/25/2015 23:00 Calibration ID: 38261

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	6078 247481	10855 468413	27151 851783	53854	99226	1.00 50.0	2.00 100	5.00 200	10.0	20.0
n-Butylbenzene	DCB	Ave	7180 323023	13439 647784	34267 1209668	68848	128395	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	5124 221225	9491 422877	24609 781313	48240	88588	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	325 19357	714 39724	1989 ++++	3824	7233	1.00 50.0	2.00 100	5.00 ++++	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	3234 141703	5824 296370	14750 618824	29411	54028	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCB	Ave	1728 77950	3368 163309	8256 327530	16851	31232	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Naphthalene	DCB	Ave	219960	10064 450469	24728 955608	48119	87911	50.0	2.00 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	2730 124716	5080 258443	12857 532576	25676	48061	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	3595 181714	6332 357155	18065 728501	34806	69100	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	3293 170478	6070 346495	16303 698883	33418	64587	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	FB	Ave	14506 626702	25603 1256097	67291 2324552	131727	244585	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCB	Ave	5017 181911	8025 347374	20174 570072	39168	71691	1.00 50.0	2.00 100	5.00 200	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
LinF = Linear ISTD forced zero
QuaF = Quadratic ISTD forced zero

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2505.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 25-Mar-2015 20:21:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018150-005
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSAC
 Sublist: chrom-2014_MSAC*sub6
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 26-Mar-2015 14:17:28 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: beardnr

Date: 26-Mar-2015 11:20:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.134	1.137	-0.003	32	3288	1.00	1.11	
2 Chloromethane	50	1.256	1.253	0.003	94	3025	1.00	1.56	
3 Vinyl chloride	62	1.299	1.302	-0.003	95	3920	1.00	1.14	
4 Butadiene	54	1.317	1.320	-0.003	96	4004	1.00	1.06	
5 Bromomethane	94	1.481	1.478	0.003	86	745	1.00	0.8998	
6 Chloroethane	64	1.536	1.539	-0.003	96	3123	1.00	1.83	
7 Dichlorofluoromethane	67	1.651	1.655	-0.004	0	5641	1.00	1.17	
8 Trichlorofluoromethane	101	1.676	1.679	-0.003	98	5647	1.00	1.09	
10 Ethyl ether	59	1.834	1.837	-0.003	91	2111	1.00	0.9528	
11 Acrolein	56	1.931	1.934	-0.003	95	4668	20.0	24.0	
12 1,1,2-Trichloro-1,2,2-trif	151	1.992	1.995	-0.003	95	2780	1.00	0.9241	
13 1,1-Dichloroethene	96	2.004	2.001	0.003	99	3655	1.00	1.09	
14 Acetone	58	2.023	2.026	-0.003	90	1308	5.00	5.86	
17 Iodomethane	142	2.114	2.117	-0.003	96	1693	1.00	0.5856	
18 Carbon disulfide	76	2.169	2.172	-0.003	99	13481	1.00	1.26	
20 Methyl acetate	43	2.223	2.226	-0.003	99	8431	5.00	5.05	
21 3-Chloro-1-propene	76	2.242	2.245	-0.003	92	2739	1.00	1.02	
22 Methylene Chloride	84	2.339	2.336	0.003	92	3530	1.00	1.12	
23 2-Methyl-2-propanol	59	2.375	2.372	0.003	97	2026	10.0	10.6	
24 Acrylonitrile	53	2.485	2.488	-0.003	92	10232	10.0	11.4	
25 Methyl tert-butyl ether	73	2.503	2.506	-0.003	98	6452	1.00	0.9298	
26 trans-1,2-Dichloroethene	96	2.515	2.518	-0.003	94	3496	1.00	1.02	
27 Hexane	57	2.698	2.701	-0.003	92	4714	1.00	1.02	
28 Vinyl acetate	43	2.807	2.804	0.003	99	7986	2.00	1.78	
29 1,1-Dichloroethane	63	2.819	2.823	-0.004	99	7232	1.00	1.13	
33 2-Butanone (MEK)	72	3.203	3.206	-0.003	98	1250	5.00	4.76	
34 cis-1,2-Dichloroethene	61	3.215	3.218	-0.003	95	9665	1.00	1.89	
36 2,2-Dichloropropane	77	3.221	3.224	-0.003	95	5161	1.00	1.02	
39 Chlorobromomethane	130	3.391	3.394	-0.003	82	2741	1.00	1.07	
40 Tetrahydrofuran	42	3.397	3.400	-0.003	84	2316	2.00	3.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.452	3.455	-0.003	99	6239	1.00	1.07	
\$ 42 Dibromofluoromethane (Surr	113	3.568	3.571	-0.003	96	3595	1.00	1.07	
43 1,1,1-Trichloroethane	97	3.580	3.583	-0.003	98	4966	1.00	0.9717	
44 Cyclohexane	84	3.635	3.638	-0.003	91	4686	1.00	0.9278	
46 Carbon tetrachloride	117	3.695	3.692	0.003	95	4145	1.00	0.9224	
45 1,1-Dichloropropene	75	3.695	3.692	0.003	95	4091	1.00	1.00	
47 Isobutyl alcohol	43	3.738	3.741	-0.003	94	3207	25.0	38.4	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.823	3.820	0.003	92	3293	1.00	1.04	
50 Benzene	78	3.835	3.838	-0.003	95	13921	1.00	1.03	
51 1,2-Dichloroethane	62	3.878	3.881	-0.003	96	3689	1.00	0.9633	
54 n-Heptane	43	4.042	4.039	0.003	89	5900	1.00	1.28	
* 55 Fluorobenzene	96	4.054	4.057	-0.003	0	634945	50.0	50.0	
57 Trichloroethene	132	4.316	4.319	-0.003	96	7189	1.00	1.82	
59 Methylcyclohexane	83	4.492	4.496	-0.004	97	5783	1.00	0.9654	
60 1,2-Dichloropropane	63	4.517	4.514	0.003	91	3291	1.00	0.9742	
63 Dibromomethane	93	4.578	4.581	-0.003	91	2017	1.00	1.03	
64 Dichlorobromomethane	83	4.705	4.708	-0.003	97	3882	1.00	0.9397	
66 2-Chloroethyl vinyl ether	63	4.912	4.915	-0.003	0	1380	1.00	0.8417	
67 cis-1,3-Dichloropropene	75	5.034	5.037	-0.003	92	4724	1.00	0.9429	
68 4-Methyl-2-pentanone (MIBK	43	5.143	5.140	0.003	97	12128	5.00	5.67	
\$ 69 Toluene-d8 (Surr)	98	5.241	5.244	-0.003	99	14506	1.00	1.17	
70 Toluene	92	5.295	5.299	-0.004	93	9316	1.00	1.13	
71 trans-1,3-Dichloropropene	75	5.472	5.475	-0.003	96	4138	1.00	0.9863	
72 Ethyl methacrylate	69	5.508	5.511	-0.003	87	4066	1.00	1.14	
73 1,1,2-Trichloroethane	83	5.630	5.627	0.003	95	2237	1.00	1.02	
74 Tetrachloroethene	164	5.691	5.694	-0.003	96	3486	1.00	1.06	
75 1,3-Dichloropropane	76	5.758	5.755	0.003	94	4508	1.00	1.02	
76 2-Hexanone	43	5.788	5.791	-0.003	96	9059	5.00	5.80	
78 Chlorodibromomethane	129	5.922	5.925	-0.003	96	2994	1.00	0.9608	
79 Ethylene Dibromide	107	6.025	6.022	0.003	98	2812	1.00	1.03	
* 80 Chlorobenzene-d5	82	6.384	6.387	-0.003	85	254359	50.0	50.0	
82 Chlorobenzene	112	6.409	6.412	-0.003	96	10443	1.00	1.09	
83 1,1,1,2-Tetrachloroethane	131	6.482	6.485	-0.003	93	2956	1.00	0.8770	
84 Ethylbenzene	91	6.488	6.491	-0.003	98	15648	1.00	1.07	
85 m-Xylene & p-Xylene	91	6.591	6.594	-0.003	91	11436	1.00	1.09	
86 o-Xylene	91	6.901	6.905	-0.004	95	11195	1.00	1.09	
88 Styrene	104	6.920	6.923	-0.003	94	9247	1.00	1.09	
89 Bromoform	173	7.072	7.075	-0.003	97	1863	1.00	0.8844	
90 Isopropylbenzene	105	7.206	7.203	0.003	95	14541	1.00	1.10	
\$ 92 4-Bromofluorobenzene (Surr	95	7.352	7.355	-0.003	87	5017	1.00	1.21	
93 1,1,2,2-Tetrachloroethane	83	7.461	7.464	-0.003	77	2990	1.00	1.09	
94 Bromobenzene	156	7.467	7.464	0.003	87	4165	1.00	1.13	
95 trans-1,4-Dichloro-2-buten	53	7.492	7.495	-0.003	64	783	1.00	1.05	
96 1,2,3-Trichloropropane	75	7.504	7.507	-0.003	96	3512	1.00	1.06	
97 N-Propylbenzene	91	7.546	7.549	-0.003	100	15003	1.00	1.11	
98 2-Chlorotoluene	91	7.619	7.622	-0.003	74	8932	1.00	1.12	
99 1,3,5-Trimethylbenzene	105	7.704	7.708	-0.004	93	9479	1.00	1.11	
100 4-Chlorotoluene	91	7.723	7.726	-0.003	96	9800	1.00	1.11	
102 tert-Butylbenzene	119	7.960	7.963	-0.003	95	9264	1.00	1.11	
105 1,2,4-Trimethylbenzene	105	8.015	8.012	0.003	96	9030	1.00	1.10	
106 sec-Butylbenzene	105	8.149	8.146	0.003	98	12517	1.00	1.11	
107 1,3-Dichlorobenzene	146	8.246	8.243	0.003	95	6024	1.00	1.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	8.282	8.279	0.003	97	9817	1.00	1.01	
* 109 1,4-Dichlorobenzene-d4	152	8.313	8.310	0.003	98	184073	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.331	8.334	-0.003	95	6078	1.00	1.08	
113 n-Butylbenzene	91	8.617	8.620	-0.003	97	7180	1.00	0.9860	
114 1,2-Dichlorobenzene	146	8.623	8.626	-0.003	93	5124	1.00	1.02	
115 1,2-Dibromo-3-Chloropropan	157	9.286	9.289	-0.003	80	325	1.00	0.8113	
117 1,2,4-Trichlorobenzene	180	9.974	9.977	-0.003	92	3234	1.00	0.99	
118 Hexachlorobutadiene	225	10.095	10.098	-0.003	95	1728	1.00	0.9553	
119 Naphthalene	128	10.193	10.196	-0.003	99	5759	1.00	1.10	
120 1,2,3-Trichlorobenzene	180	10.375	10.378	-0.003	94	2730	1.00	0.9632	
S 122 1,2-Dichloroethene, Total	1				0		2.00	2.92	
S 123 Xylenes, Total	1				0		2.00	2.18	
S 124 1,3-Dichloropropene, Total	1				0		2.00	1.93	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 0.10	Units: uL
VM_MMIX_01719	Amount Added: 0.10	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2505.D

Injection Date: 25-Mar-2015 20:21:30

Instrument ID: CMSAC

Operator ID: DK

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

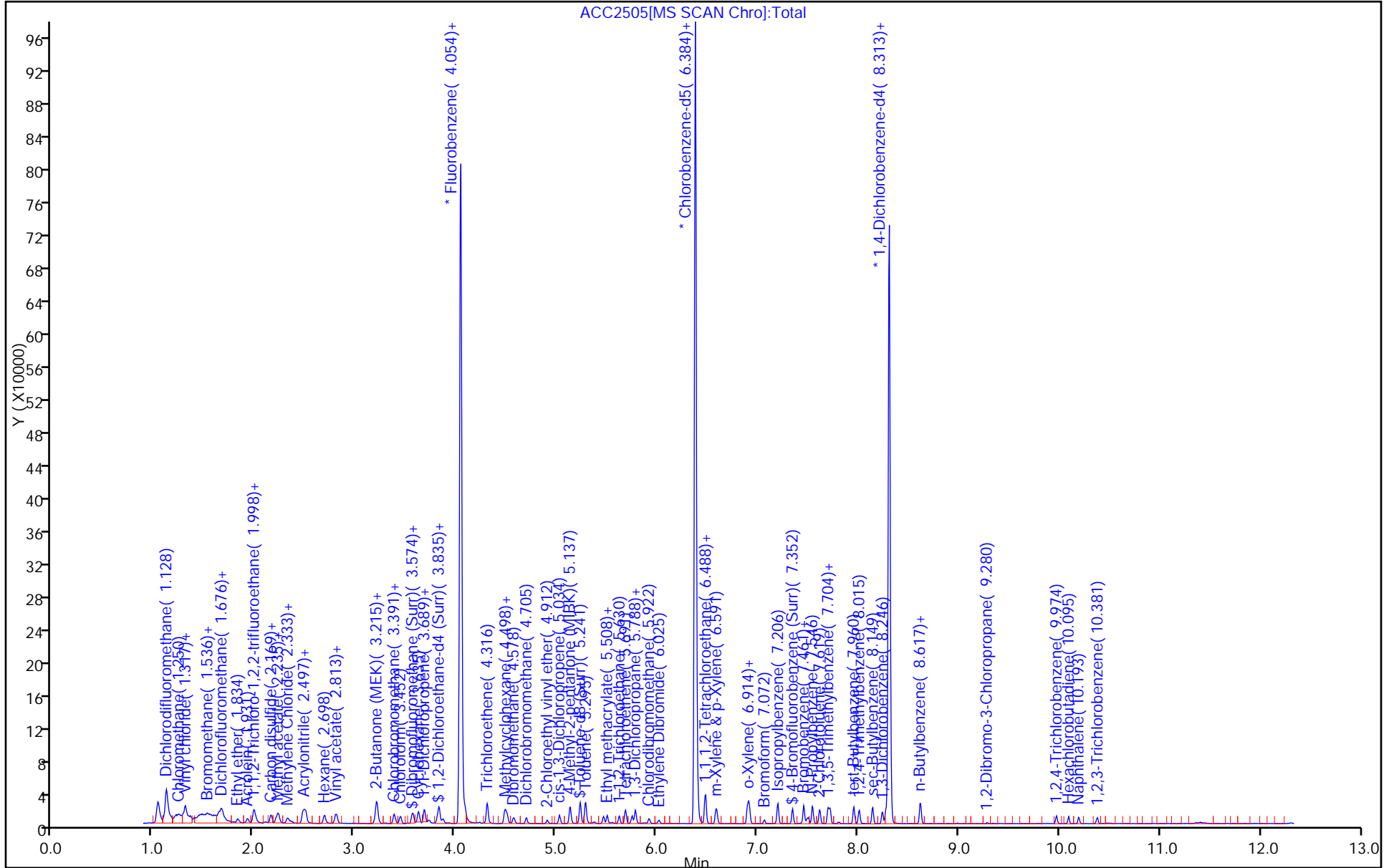
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2506.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 25-Mar-2015 20:44:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018150-006
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSAC
 Sublist: chrom-2014_MSAC*sub6
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 26-Mar-2015 14:17:29 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.136	1.137	-0.001	34	6214	2.00	2.14	
2 Chloromethane	50	1.252	1.253	-0.001	99	4992	2.00	2.62	
3 Vinyl chloride	62	1.301	1.302	-0.001	97	7255	2.00	2.16	
4 Butadiene	54	1.319	1.320	-0.001	96	8544	2.00	2.30	
5 Bromomethane	94	1.477	1.478	-0.001	91	2029	2.00	2.50	
6 Chloroethane	64	1.538	1.539	-0.001	96	3882	2.00	2.32	
7 Dichlorofluoromethane	67	1.654	1.655	-0.001	0	11222	2.00	2.36	
8 Trichlorofluoromethane	101	1.678	1.679	-0.001	99	10625	2.00	2.09	
10 Ethyl ether	59	1.836	1.837	-0.001	93	3808	2.00	1.75	
11 Acrolein	56	1.933	1.934	-0.001	96	7912	40.0	41.4	
12 1,1,2-Trichloro-1,2,2-trif	151	1.994	1.995	-0.001	94	5636	2.00	1.91	
13 1,1-Dichloroethene	96	2.000	2.001	-0.001	99	6753	2.00	2.05	
14 Acetone	58	2.019	2.026	-0.007	86	2331	10.0	10.7	
17 Iodomethane	142	2.110	2.117	-0.007	97	3587	2.00	1.27	
18 Carbon disulfide	76	2.171	2.172	-0.001	99	24558	2.00	2.34	
20 Methyl acetate	43	2.225	2.226	-0.001	99	16113	10.0	9.85	
21 3-Chloro-1-propene	76	2.244	2.245	-0.001	92	5179	2.00	1.97	
22 Methylene Chloride	84	2.335	2.336	-0.001	92	6810	2.00	2.21	
23 2-Methyl-2-propanol	59	2.371	2.372	-0.001	99	3785	20.0	20.1	
24 Acrylonitrile	53	2.487	2.488	-0.001	95	18844	20.0	21.4	
25 Methyl tert-butyl ether	73	2.505	2.506	-0.001	98	12245	2.00	1.80	
26 trans-1,2-Dichloroethene	96	2.517	2.518	-0.001	94	6529	2.00	1.95	
27 Hexane	57	2.700	2.701	-0.001	94	8269	2.00	1.82	
28 Vinyl acetate	43	2.803	2.804	-0.001	100	15537	4.00	3.52	
29 1,1-Dichloroethane	63	2.822	2.823	-0.001	99	12915	2.00	2.05	
33 2-Butanone (MEK)	72	3.199	3.206	-0.007	99	2258	10.0	8.76	
34 cis-1,2-Dichloroethene	61	3.217	3.218	-0.001	95	14522	2.00	2.90	
36 2,2-Dichloropropane	77	3.223	3.224	-0.001	94	9461	2.00	1.91	
39 Chlorobromomethane	130	3.387	3.394	-0.007	85	5065	2.00	2.02	
40 Tetrahydrofuran	42	3.399	3.400	-0.001	91	3299	4.00	4.94	
41 Chloroform	83	3.454	3.455	-0.001	99	11265	2.00	1.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.570	3.571	-0.001	97	6332	2.00	1.92	
43 1,1,1-Trichloroethane	97	3.582	3.583	-0.001	97	9087	2.00	1.81	
44 Cyclohexane	84	3.637	3.638	-0.001	91	9176	2.00	1.85	
46 Carbon tetrachloride	117	3.691	3.692	-0.001	96	7688	2.00	1.74	
45 1,1-Dichloropropene	75	3.691	3.692	-0.001	94	7279	2.00	1.81	
47 Isobutyl alcohol	43	3.734	3.741	-0.007	98	4308	50.0	52.6	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.819	3.820	-0.001	95	6070	2.00	1.95	
50 Benzene	78	3.837	3.838	-0.001	94	25564	2.00	1.94	
51 1,2-Dichloroethane	62	3.880	3.881	-0.001	97	7198	2.00	1.92	
54 n-Heptane	43	4.038	4.039	-0.001	92	9762	2.00	2.15	
* 55 Fluorobenzene	96	4.056	4.057	-0.001	0	622640	50.0	50.0	
57 Trichloroethene	132	4.318	4.319	-0.001	96	10472	2.00	2.71	
59 Methylcyclohexane	83	4.494	4.496	-0.002	97	11164	2.00	1.90	
60 1,2-Dichloropropane	63	4.513	4.514	-0.001	93	6129	2.00	1.85	
62 1,4-Dioxane	88	4.561	4.569	-0.007	86	610	40.0	34.3	
63 Dibromomethane	93	4.580	4.581	-0.001	90	3700	2.00	1.93	
64 Dichlorobromomethane	83	4.707	4.708	-0.001	98	7103	2.00	1.75	
66 2-Chloroethyl vinyl ether	63	4.914	4.915	-0.001	0	2762	2.00	1.72	
67 cis-1,3-Dichloropropene	75	5.036	5.037	-0.001	92	8826	2.00	1.80	
68 4-Methyl-2-pentanone (MIBK	43	5.139	5.140	-0.001	97	21692	10.0	10.3	
\$ 69 Toluene-d8 (Surr)	98	5.243	5.244	-0.001	99	25603	2.00	2.11	
70 Toluene	92	5.298	5.299	-0.001	94	17143	2.00	2.12	
71 trans-1,3-Dichloropropene	75	5.474	5.475	-0.001	96	7494	2.00	1.82	
72 Ethyl methacrylate	69	5.510	5.511	-0.001	88	7602	2.00	2.17	
73 1,1,2-Trichloroethane	83	5.626	5.627	-0.001	96	4049	2.00	1.89	
74 Tetrachloroethene	164	5.693	5.694	-0.001	98	6589	2.00	2.04	
75 1,3-Dichloropropane	76	5.754	5.755	-0.001	93	8423	2.00	1.94	
76 2-Hexanone	43	5.790	5.791	-0.001	97	16224	10.0	10.6	
78 Chlorodibromomethane	129	5.924	5.925	-0.001	97	5397	2.00	1.77	
79 Ethylene Dibromide	107	6.021	6.022	-0.001	99	5076	2.00	1.90	
* 80 Chlorobenzene-d5	82	6.386	6.387	-0.001	85	252436	50.0	50.0	
82 Chlorobenzene	112	6.411	6.412	-0.001	97	19049	2.00	2.00	
83 1,1,1,2-Tetrachloroethane	131	6.484	6.485	-0.001	94	5747	2.00	1.72	
84 Ethylbenzene	91	6.490	6.491	-0.001	98	29155	2.00	2.00	
85 m-Xylene & p-Xylene	91	6.593	6.594	-0.001	90	20677	2.00	1.98	
86 o-Xylene	91	6.904	6.905	-0.001	93	20733	2.00	2.03	
88 Styrene	104	6.922	6.923	-0.001	94	16867	2.00	2.00	
89 Bromoform	173	7.074	7.075	-0.001	97	3511	2.00	1.68	
90 Isopropylbenzene	105	7.202	7.203	-0.001	95	26759	2.00	2.03	
\$ 92 4-Bromofluorobenzene (Surr	95	7.348	7.355	-0.007	90	8025	2.00	1.98	
93 1,1,2,2-Tetrachloroethane	83	7.463	7.464	-0.001	96	5359	2.00	1.96	
94 Bromobenzene	156	7.463	7.464	-0.001	90	7620	2.00	2.08	
95 trans-1,4-Dichloro-2-buten	53	7.494	7.495	-0.001	89	1536	2.00	2.08	
96 1,2,3-Trichloropropane	75	7.506	7.507	-0.001	96	6286	2.00	1.91	
97 N-Propylbenzene	91	7.548	7.549	-0.001	100	27334	2.00	2.03	
98 2-Chlorotoluene	91	7.621	7.622	-0.001	97	16120	2.00	2.04	
99 1,3,5-Trimethylbenzene	105	7.700	7.708	-0.008	93	16979	2.00	2.01	
100 4-Chlorotoluene	91	7.725	7.726	-0.001	96	18027	2.00	2.06	
102 tert-Butylbenzene	119	7.962	7.963	-0.001	96	17233	2.00	2.07	
105 1,2,4-Trimethylbenzene	105	8.011	8.012	-0.001	97	16321	2.00	2.01	
106 sec-Butylbenzene	105	8.145	8.146	-0.001	99	22829	2.00	2.04	
107 1,3-Dichlorobenzene	146	8.242	8.243	-0.001	97	10957	2.00	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	8.278	8.279	-0.001	97	18738	2.00	1.98	
* 109 1,4-Dichlorobenzene-d4	152	8.315	8.310	0.005	98	179460	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.333	8.334	-0.001	93	10855	2.00	1.98	
113 n-Butylbenzene	91	8.619	8.620	-0.001	97	13439	2.00	1.89	
114 1,2-Dichlorobenzene	146	8.625	8.626	-0.001	97	9491	2.00	1.94	
115 1,2-Dibromo-3-Chloropropan	157	9.288	9.289	-0.001	83	714	2.00	1.83	
117 1,2,4-Trichlorobenzene	180	9.976	9.977	-0.001	93	5824	2.00	1.83	
118 Hexachlorobutadiene	225	10.097	10.098	-0.001	96	3368	2.00	1.91	
119 Naphthalene	128	10.195	10.196	-0.001	99	10064	2.00	1.97	
120 1,2,3-Trichlorobenzene	180	10.377	10.378	-0.001	93	5080	2.00	1.84	
S 122 1,2-Dichloroethene, Total	1				0		4.00	4.85	
S 123 Xylenes, Total	1				0		4.00	4.01	
S 124 1,3-Dichloropropene, Total	1				0		4.00	3.62	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 0.20	Units: uL
VM_MMIX_01719	Amount Added: 0.20	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2506.D

Injection Date: 25-Mar-2015 20:44:30

Instrument ID: CMSAC

Operator ID: DK

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2507.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 25-Mar-2015 21:07:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018150-007
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSAC
 Sublist: chrom-2014_MSAC*sub6
 Method: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 26-Mar-2015 14:17:31 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.138	1.137	0.001	99	16243	5.00	5.41	
2 Chloromethane	50	1.253	1.253	0.000	99	12265	5.00	6.23	
3 Vinyl chloride	62	1.302	1.302	0.000	97	18719	5.00	5.39	
4 Butadiene	54	1.320	1.320	0.000	94	21207	5.00	5.53	
5 Bromomethane	94	1.472	1.478	-0.006	97	4504	5.00	5.37	
6 Chloroethane	64	1.539	1.539	0.000	99	9239	5.00	5.35	
7 Dichlorofluoromethane	67	1.649	1.655	-0.006	0	25568	5.00	5.21	
8 Trichlorofluoromethane	101	1.679	1.679	0.000	98	27391	5.00	5.22	
10 Ethyl ether	59	1.837	1.837	0.000	94	10996	5.00	4.90	
11 Acrolein	56	1.935	1.934	0.001	96	20105	100.0	101.9	
12 1,1,2-Trichloro-1,2,2-trif	151	1.995	1.995	0.000	96	15108	5.00	4.96	
13 1,1-Dichloroethene	96	2.001	2.001	0.000	99	17358	5.00	5.11	
14 Acetone	58	2.020	2.026	-0.006	87	5722	25.0	25.3	
17 Iodomethane	142	2.117	2.117	0.000	98	10804	5.00	3.69	
18 Carbon disulfide	76	2.172	2.172	0.000	98	63834	5.00	5.90	
20 Methyl acetate	43	2.227	2.226	0.001	99	44376	25.0	26.3	
21 3-Chloro-1-propene	76	2.245	2.245	0.000	92	14011	5.00	5.16	
22 Methylene Chloride	84	2.336	2.336	0.000	91	16886	5.00	5.31	
23 2-Methyl-2-propanol	59	2.373	2.372	0.001	99	10454	50.0	53.8	
24 Acrylonitrile	53	2.488	2.488	0.000	95	48936	50.0	53.7	
25 Methyl tert-butyl ether	73	2.506	2.506	0.000	97	34757	5.00	4.94	
26 trans-1,2-Dichloroethene	96	2.519	2.518	0.001	95	17640	5.00	5.10	
27 Hexane	57	2.701	2.701	0.000	94	23107	5.00	4.91	
28 Vinyl acetate	43	2.804	2.804	0.000	100	44227	10.0	9.71	
29 1,1-Dichloroethane	63	2.823	2.823	0.000	100	34375	5.00	5.29	
33 2-Butanone (MEK)	72	3.206	3.206	0.000	98	6396	25.0	24.0	
34 cis-1,2-Dichloroethene	61	3.218	3.218	0.000	98	32922	5.00	6.36	
36 2,2-Dichloropropane	77	3.224	3.224	0.000	97	26310	5.00	5.13	
39 Chlorobromomethane	130	3.395	3.394	0.001	86	13807	5.00	5.32	
40 Tetrahydrofuran	42	3.401	3.400	0.001	93	7687	10.0	11.1	
41 Chloroform	83	3.455	3.455	0.000	99	30135	5.00	5.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.571	3.571	0.000	97	18065	5.00	5.29	
43 1,1,1-Trichloroethane	97	3.583	3.583	0.000	98	26139	5.00	5.05	
44 Cyclohexane	84	3.632	3.638	-0.006	90	25137	5.00	4.91	
46 Carbon tetrachloride	117	3.693	3.692	0.001	98	23104	5.00	5.07	
45 1,1-Dichloropropene	75	3.693	3.692	0.001	95	20265	5.00	4.86	
47 Isobutyl alcohol	43	3.735	3.741	-0.006	99	12837	125.0	151.7	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.820	3.820	0.000	95	16303	5.00	5.07	
50 Benzene	78	3.839	3.838	0.001	96	70022	5.00	5.13	
51 1,2-Dichloroethane	62	3.875	3.881	-0.006	98	19234	5.00	4.96	
54 n-Heptane	43	4.039	4.039	0.000	93	23963	5.00	5.12	
* 55 Fluorobenzene	96	4.052	4.057	-0.005	0	643399	50.0	50.0	
57 Trichloroethene	132	4.319	4.319	0.000	96	22036	5.00	5.52	
59 Methylcyclohexane	83	4.496	4.496	0.000	96	30148	5.00	4.97	
60 1,2-Dichloropropane	63	4.514	4.514	0.000	92	16860	5.00	4.93	
62 1,4-Dioxane	88	4.569	4.569	0.001	91	1926	100.0	104.9	
63 Dibromomethane	93	4.581	4.581	0.000	91	10153	5.00	5.14	
64 Dichlorobromomethane	83	4.703	4.708	-0.005	99	20423	5.00	4.88	
66 2-Chloroethyl vinyl ether	63	4.915	4.915	0.000	0	8189	5.00	4.93	
67 cis-1,3-Dichloropropene	75	5.037	5.037	0.000	92	24927	5.00	4.91	
68 4-Methyl-2-pentanone (MIBK	43	5.141	5.140	0.001	97	58401	25.0	27.0	
\$ 69 Toluene-d8 (Surr)	98	5.244	5.244	0.000	99	67291	5.00	5.38	
70 Toluene	92	5.293	5.299	-0.006	93	44025	5.00	5.26	
71 trans-1,3-Dichloropropene	75	5.475	5.475	0.000	97	20572	5.00	4.84	
72 Ethyl methacrylate	69	5.512	5.511	0.001	90	19385	5.00	5.35	
73 1,1,2-Trichloroethane	83	5.627	5.627	0.000	96	11119	5.00	5.01	
74 Tetrachloroethene	164	5.694	5.694	0.000	97	17206	5.00	5.15	
75 1,3-Dichloropropane	76	5.755	5.755	0.000	94	22777	5.00	5.09	
76 2-Hexanone	43	5.791	5.791	0.000	97	42538	25.0	26.9	
78 Chlorodibromomethane	129	5.925	5.925	0.000	98	15099	5.00	4.78	
79 Ethylene Dibromide	107	6.023	6.022	0.001	99	14054	5.00	5.08	
* 80 Chlorobenzene-d5	82	6.388	6.387	0.001	85	252289	50.0	50.0	
82 Chlorobenzene	112	6.412	6.412	0.000	96	47823	5.00	5.01	
83 1,1,1,2-Tetrachloroethane	131	6.479	6.485	-0.006	95	15878	5.00	4.75	
84 Ethylbenzene	91	6.485	6.491	-0.006	98	75409	5.00	5.18	
85 m-Xylene & p-Xylene	91	6.594	6.594	0.000	91	52095	5.00	5.00	
86 o-Xylene	91	6.905	6.905	0.000	95	51562	5.00	5.06	
88 Styrene	104	6.923	6.923	0.000	97	43418	5.00	5.15	
89 Bromoform	173	7.069	7.075	-0.006	98	10058	5.00	4.81	
90 Isopropylbenzene	105	7.203	7.203	0.000	95	67857	5.00	5.16	
\$ 92 4-Bromofluorobenzene (Surr	95	7.349	7.355	-0.006	90	20174	5.00	5.04	
93 1,1,2,2-Tetrachloroethane	83	7.458	7.464	-0.006	97	14326	5.00	5.25	
94 Bromobenzene	156	7.464	7.464	0.000	91	19242	5.00	5.24	
95 trans-1,4-Dichloro-2-buten	53	7.495	7.495	0.000	87	3784	5.00	5.13	
96 1,2,3-Trichloropropane	75	7.507	7.507	0.000	97	16071	5.00	4.90	
97 N-Propylbenzene	91	7.550	7.549	0.001	100	70089	5.00	5.22	
98 2-Chlorotoluene	91	7.623	7.622	0.001	97	41547	5.00	5.27	
99 1,3,5-Trimethylbenzene	105	7.702	7.708	-0.006	93	43242	5.00	5.11	
100 4-Chlorotoluene	91	7.726	7.726	0.000	97	46284	5.00	5.28	
102 tert-Butylbenzene	119	7.963	7.963	0.000	95	43685	5.00	5.26	
105 1,2,4-Trimethylbenzene	105	8.012	8.012	0.000	97	41605	5.00	5.12	
106 sec-Butylbenzene	105	8.146	8.146	0.000	99	58309	5.00	5.21	
107 1,3-Dichlorobenzene	146	8.243	8.243	0.000	98	27738	5.00	5.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	8.280	8.279	0.001	98	47298	5.00	5.06	
* 109 1,4-Dichlorobenzene-d4	152	8.310	8.310	0.000	99	177235	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.334	8.334	0.000	96	27151	5.00	5.01	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	34267	5.00	4.89	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	98	24609	5.00	5.10	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	90	1989	5.00	5.16	
117 1,2,4-Trichlorobenzene	180	9.971	9.977	-0.006	94	14750	5.00	4.70	
118 Hexachlorobutadiene	225	10.099	10.098	0.001	97	8256	5.00	4.74	
119 Naphthalene	128	10.196	10.196	0.000	99	24728	5.00	4.90	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	12857	5.00	4.71	
S 122 1,2-Dichloroethene, Total	1				0		10.0	11.5	
S 123 Xylenes, Total	1				0		10.0	10.1	
S 124 1,3-Dichloropropene, Total	1				0		10.0	9.75	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 0.50	Units: uL
VM_MMIX_01719	Amount Added: 0.50	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2507.D

Injection Date: 25-Mar-2015 21:07:30

Instrument ID: CMSAC

Operator ID: DK

Lims ID: IC

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

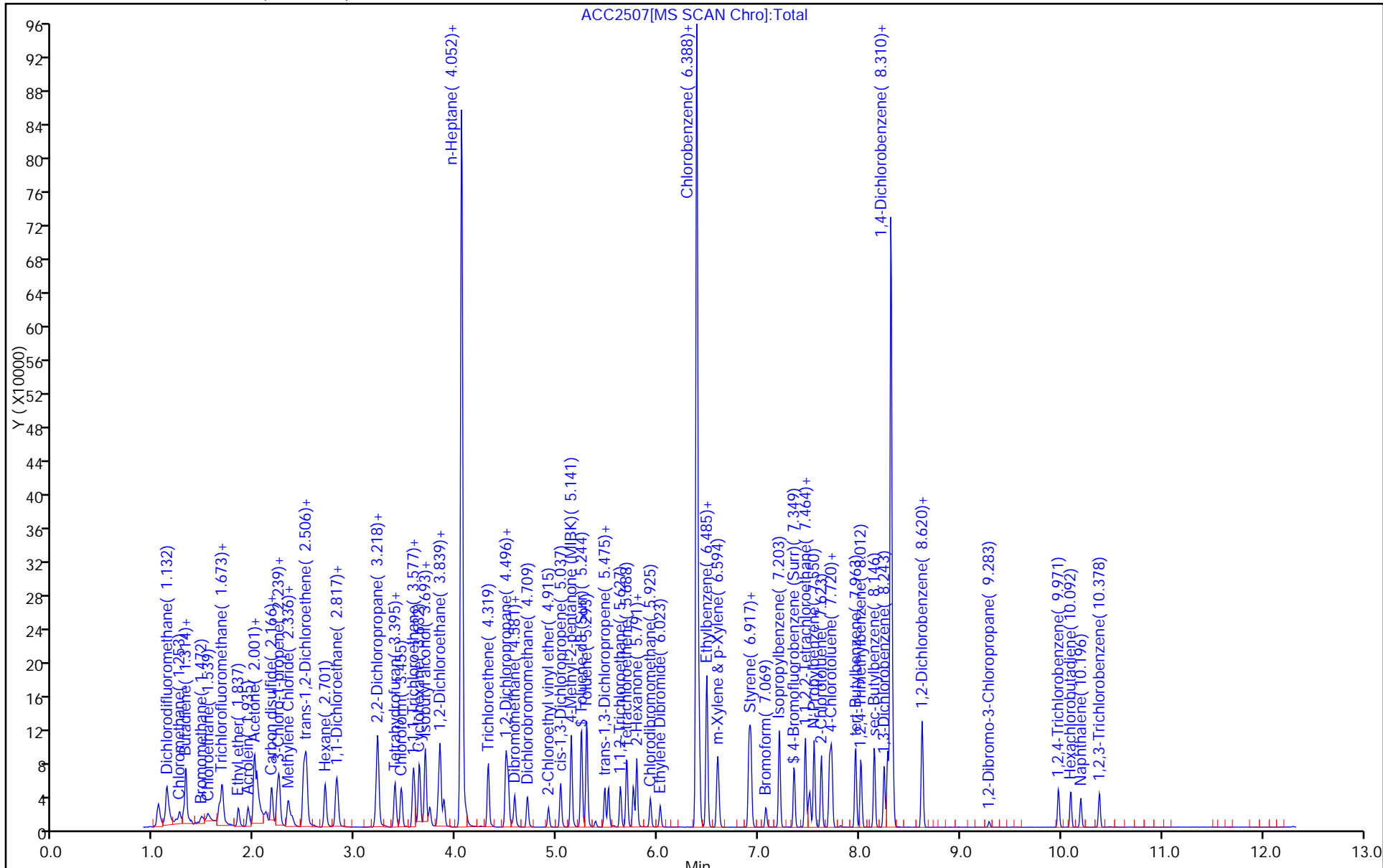
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2508.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 25-Mar-2015 21:29:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018150-008
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSAC
 Sublist: chrom-2014_MSAC*sub6
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 26-Mar-2015 14:17:32 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.133	1.137	-0.004	99	31823	10.0	10.3	
2 Chloromethane	50	1.255	1.253	0.002	99	23988	10.0	11.8	
3 Vinyl chloride	62	1.303	1.302	0.001	98	38004	10.0	10.7	
4 Butadiene	54	1.315	1.320	-0.005	96	40244	10.0	10.2	
5 Bromomethane	94	1.474	1.478	-0.004	99	8166	10.0	9.47	
6 Chloroethane	64	1.541	1.539	0.002	99	17886	10.0	10.1	
7 Dichlorofluoromethane	67	1.650	1.655	-0.005	0	50801	10.0	10.1	
8 Trichlorofluoromethane	101	1.680	1.679	0.001	99	54452	10.0	10.1	
10 Ethyl ether	59	1.839	1.837	0.002	93	23006	10.0	9.97	
11 Acrolein	56	1.936	1.934	0.002	96	39755	200.0	195.9	
12 1,1,2-Trichloro-1,2,2-trif	151	1.997	1.995	0.002	95	31324	10.0	10.0	
13 1,1-Dichloroethene	96	2.003	2.001	0.002	99	35358	10.0	10.1	
14 Acetone	58	2.021	2.026	-0.005	88	12057	50.0	51.9	
17 Iodomethane	142	2.112	2.117	-0.005	97	24165	10.0	8.02	
18 Carbon disulfide	76	2.167	2.172	-0.005	99	124384	10.0	11.3	
20 Methyl acetate	43	2.222	2.226	-0.004	99	86606	50.0	49.9	
21 3-Chloro-1-propene	76	2.246	2.245	0.001	93	25673	10.0	9.19	
22 Methylene Chloride	84	2.331	2.336	-0.005	91	34495	10.0	10.6	
23 2-Methyl-2-propanol	59	2.374	2.372	0.002	98	20730	100.0	103.8	
24 Acrylonitrile	53	2.483	2.488	-0.005	95	96434	100.0	102.9	
25 Methyl tert-butyl ether	73	2.502	2.506	-0.004	97	71477	10.0	9.89	
26 trans-1,2-Dichloroethene	96	2.514	2.518	-0.004	95	35827	10.0	10.1	
27 Hexane	57	2.702	2.701	0.001	93	47718	10.0	9.87	
28 Vinyl acetate	43	2.806	2.804	0.002	100	91303	20.0	19.5	
29 1,1-Dichloroethane	63	2.818	2.823	-0.005	100	67814	10.0	10.2	
33 2-Butanone (MEK)	72	3.201	3.206	-0.005	98	13608	50.0	49.7	
34 cis-1,2-Dichloroethene	61	3.220	3.218	0.002	96	61076	10.0	11.5	
36 2,2-Dichloropropane	77	3.226	3.224	0.002	96	54254	10.0	10.3	
39 Chlorobromomethane	130	3.390	3.394	-0.004	88	28027	10.0	10.5	
40 Tetrahydrofuran	42	3.396	3.400	-0.004	94	14568	20.0	20.4	
41 Chloroform	83	3.457	3.455	0.002	99	60710	10.0	9.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.572	3.571	0.001	97	34806	10.0	9.91	
43 1,1,1-Trichloroethane	97	3.578	3.583	-0.005	98	53443	10.0	10.0	
44 Cyclohexane	84	3.633	3.638	-0.005	91	50793	10.0	9.66	
46 Carbon tetrachloride	117	3.694	3.692	0.002	97	46475	10.0	9.93	
45 1,1-Dichloropropene	75	3.694	3.692	0.002	95	42464	10.0	9.92	
47 Isobutyl alcohol	43	3.737	3.741	-0.004	97	23782	250.0	273.3	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.822	3.820	0.002	96	33418	10.0	10.1	
50 Benzene	78	3.840	3.838	0.002	97	141949	10.0	10.1	
51 1,2-Dichloroethane	62	3.877	3.881	-0.004	98	40190	10.0	10.1	
54 n-Heptane	43	4.041	4.039	0.002	93	47713	10.0	9.91	
* 55 Fluorobenzene	96	4.053	4.057	-0.004	0	661348	50.0	50.0	
57 Trichloroethene	132	4.321	4.319	0.002	96	40029	10.0	9.75	
59 Methylcyclohexane	83	4.497	4.496	0.001	96	61825	10.0	9.91	
60 1,2-Dichloropropane	63	4.515	4.514	0.001	93	35208	10.0	10.0	
62 1,4-Dioxane	88	4.564	4.569	-0.004	95	4097	200.0	217.1	
63 Dibromomethane	93	4.582	4.581	0.001	91	20316	10.0	10.0	
64 Dichlorobromomethane	83	4.704	4.708	-0.004	99	42241	10.0	9.82	
66 2-Chloroethyl vinyl ether	63	4.917	4.915	0.002	0	16955	10.0	9.93	
67 cis-1,3-Dichloropropene	75	5.039	5.037	0.002	92	51608	10.0	9.89	
68 4-Methyl-2-pentanone (MIBK	43	5.142	5.140	0.002	96	114419	50.0	51.4	
\$ 69 Toluene-d8 (Surr)	98	5.239	5.244	-0.005	99	131727	10.0	10.2	
70 Toluene	92	5.294	5.299	-0.005	93	87685	10.0	10.2	
71 trans-1,3-Dichloropropene	75	5.477	5.475	0.002	96	43198	10.0	9.89	
72 Ethyl methacrylate	69	5.513	5.511	0.002	90	37455	10.0	10.1	
73 1,1,2-Trichloroethane	83	5.629	5.627	0.002	96	22329	10.0	9.79	
74 Tetrachloroethene	164	5.689	5.694	-0.005	98	34808	10.0	10.1	
75 1,3-Dichloropropane	76	5.756	5.755	0.001	94	44690	10.0	9.71	
76 2-Hexanone	43	5.793	5.791	0.002	96	80545	50.0	49.5	
78 Chlorodibromomethane	129	5.927	5.925	0.002	98	31604	10.0	9.74	
79 Ethylene Dibromide	107	6.024	6.022	0.002	99	28275	10.0	9.94	
* 80 Chlorobenzene-d5	82	6.389	6.387	0.002	84	250828	50.0	50.0	
82 Chlorobenzene	112	6.413	6.412	0.001	97	96540	10.0	10.2	
83 1,1,1,2-Tetrachloroethane	131	6.480	6.485	-0.005	95	33552	10.0	10.1	
84 Ethylbenzene	91	6.486	6.491	-0.005	98	148819	10.0	10.3	
85 m-Xylene & p-Xylene	91	6.596	6.594	0.002	90	104411	10.0	10.1	
86 o-Xylene	91	6.906	6.905	0.001	93	103346	10.0	10.2	
88 Styrene	104	6.924	6.923	0.001	96	85666	10.0	10.2	
89 Bromoform	173	7.070	7.075	-0.005	99	20395	10.0	9.82	
90 Isopropylbenzene	105	7.204	7.203	0.001	95	135131	10.0	10.3	
\$ 92 4-Bromofluorobenzene (Surr	95	7.350	7.355	-0.005	90	39168	10.0	9.67	
93 1,1,2,2-Tetrachloroethane	83	7.460	7.464	-0.004	97	28755	10.0	10.6	
94 Bromobenzene	156	7.466	7.464	0.002	92	37362	10.0	10.2	
95 trans-1,4-Dichloro-2-buten	53	7.496	7.495	0.001	87	7512	10.0	10.2	
96 1,2,3-Trichloropropane	75	7.508	7.507	0.001	97	34171	10.0	10.5	
97 N-Propylbenzene	91	7.551	7.549	0.002	100	138553	10.0	10.4	
98 2-Chlorotoluene	91	7.624	7.622	0.002	97	81271	10.0	10.4	
99 1,3,5-Trimethylbenzene	105	7.703	7.708	-0.005	93	85661	10.0	10.2	
100 4-Chlorotoluene	91	7.721	7.726	-0.005	97	90722	10.0	10.4	
102 tert-Butylbenzene	119	7.959	7.963	-0.004	96	86610	10.0	10.5	
105 1,2,4-Trimethylbenzene	105	8.013	8.012	0.001	97	81633	10.0	10.1	
106 sec-Butylbenzene	105	8.147	8.146	0.001	99	116750	10.0	10.5	
107 1,3-Dichlorobenzene	146	8.245	8.243	0.001	98	54989	10.0	9.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	8.281	8.279	0.002	98	94304	10.0	9.97	
* 109 1,4-Dichlorobenzene-d4	152	8.311	8.310	0.001	98	179249	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.330	8.334	-0.004	96	53854	10.0	9.83	
113 n-Butylbenzene	91	8.616	8.620	-0.004	98	68848	10.0	9.71	
114 1,2-Dichlorobenzene	146	8.628	8.626	0.002	98	48240	10.0	9.89	
115 1,2-Dibromo-3-Chloropropan	157	9.291	9.289	0.002	93	3824	10.0	9.80	
117 1,2,4-Trichlorobenzene	180	9.972	9.977	-0.005	94	29411	10.0	9.27	
118 Hexachlorobutadiene	225	10.094	10.098	-0.004	98	16851	10.0	9.57	
119 Naphthalene	128	10.197	10.196	0.001	99	48119	10.0	9.43	
120 1,2,3-Trichlorobenzene	180	10.380	10.378	0.002	96	25676	10.0	9.30	
S 122 1,2-Dichloroethene, Total	1				0		20.0	21.6	
S 123 Xylenes, Total	1				0		20.0	20.3	
S 124 1,3-Dichloropropene, Total	1				0		20.0	19.8	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01719	Amount Added: 1.00	Units: uL
VM_Acrolein_00033	Amount Added: 1.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2508.D

Injection Date: 25-Mar-2015 21:29:30

Instrument ID: CMSAC

Operator ID: DK

Lims ID: IC

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

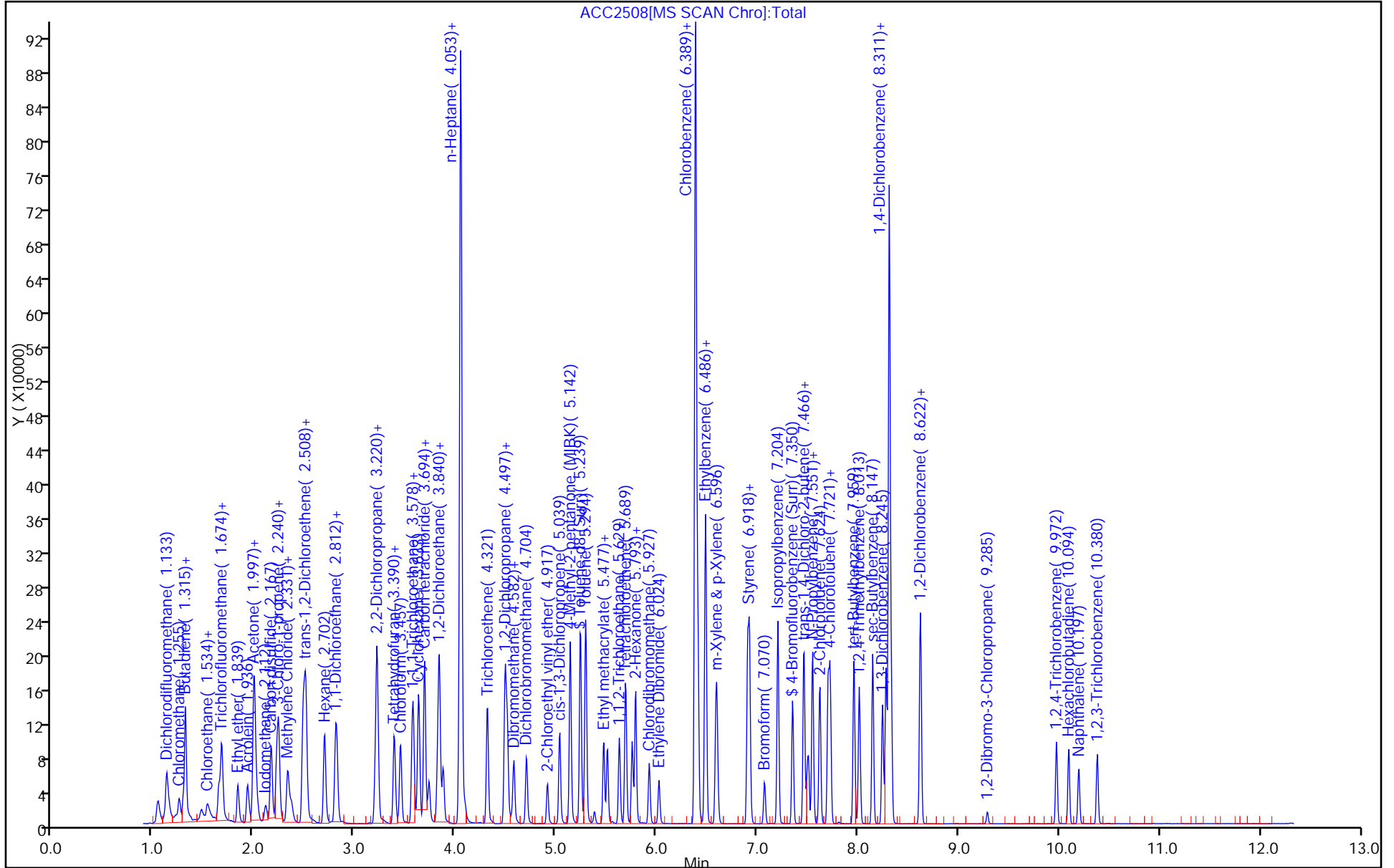
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2509.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 25-Mar-2015 21:52:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018150-009
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSAC
 Sublist: chrom-2014_MSAC*sub6
 Method: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 26-Mar-2015 14:17:33 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.137	1.137	0.000	100	60318	20.0	19.2	
2 Chloromethane	50	1.259	1.259	0.000	99	42483	20.0	20.6	
3 Vinyl chloride	62	1.301	1.301	0.000	98	67942	20.0	18.7	
4 Butadiene	54	1.320	1.320	0.000	95	77253	20.0	19.2	
5 Bromomethane	94	1.478	1.478	0.000	98	15807	20.0	18.0	
6 Chloroethane	64	1.539	1.539	0.000	99	36970	20.0	20.4	
7 Dichlorofluoromethane	67	1.654	1.654	0.000	0	100378	20.0	19.5	
8 Trichlorofluoromethane	101	1.679	1.679	0.000	99	104730	20.0	19.1	
10 Ethyl ether	59	1.837	1.837	0.000	95	45072	20.0	19.2	
11 Acrolein	56	1.934	1.934	0.000	96	77004	400.0	372.6	
12 1,1,2-Trichloro-1,2,2-trif	151	2.001	2.001	0.000	95	62232	20.0	19.5	
13 1,1-Dichloroethene	96	2.001	2.001	0.000	99	67183	20.0	18.9	
14 Acetone	58	2.025	2.025	0.000	87	22991	100.0	97.1	
17 Iodomethane	142	2.117	2.117	0.000	97	49850	20.0	16.2	
18 Carbon disulfide	76	2.171	2.171	0.000	99	233010	20.0	21.0	
20 Methyl acetate	43	2.226	2.226	0.000	99	168910	100.0	95.4	
21 3-Chloro-1-propene	76	2.244	2.244	0.000	93	48308	20.0	17.0	
22 Methylene Chloride	84	2.336	2.336	0.000	92	60990	20.0	18.3	
23 2-Methyl-2-propanol	59	2.372	2.372	0.000	99	40549	200.0	199.3	
24 Acrylonitrile	53	2.488	2.488	0.000	94	176969	200.0	185.4	
25 Methyl tert-butyl ether	73	2.506	2.506	0.000	97	141041	20.0	19.2	
26 trans-1,2-Dichloroethene	96	2.518	2.518	0.000	96	68044	20.0	18.8	
27 Hexane	57	2.701	2.701	0.000	93	93000	20.0	18.9	
28 Vinyl acetate	43	2.804	2.804	0.000	100	181799	40.0	38.1	
29 1,1-Dichloroethane	63	2.822	2.822	0.000	100	127100	20.0	18.7	
33 2-Butanone (MEK)	72	3.206	3.206	0.000	98	26896	100.0	96.4	
34 cis-1,2-Dichloroethene	61	3.218	3.218	0.000	98	113492	20.0	20.9	
36 2,2-Dichloropropane	77	3.224	3.224	0.000	96	106731	20.0	19.9	
39 Chlorobromomethane	130	3.394	3.394	0.000	86	52894	20.0	19.5	
40 Tetrahydrofuran	42	3.400	3.400	0.000	92	27241	40.0	37.4	
41 Chloroform	83	3.455	3.455	0.000	99	116667	20.0	18.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.571	3.571	0.000	97	69100	20.0	19.3	
43 1,1,1-Trichloroethane	97	3.583	3.583	0.000	98	104985	20.0	19.4	
44 Cyclohexane	84	3.638	3.638	0.000	91	100826	20.0	18.8	
46 Carbon tetrachloride	117	3.692	3.692	0.000	98	92178	20.0	19.3	
45 1,1-Dichloropropene	75	3.692	3.692	0.000	95	81717	20.0	18.7	
47 Isobutyl alcohol	43	3.741	3.741	0.000	96	46191	500.0	521.1	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.820	3.820	0.000	96	64587	20.0	19.2	
50 Benzene	78	3.838	3.838	0.000	97	272587	20.0	19.1	
51 1,2-Dichloroethane	62	3.881	3.881	0.000	98	78575	20.0	19.3	
54 n-Heptane	43	4.039	4.039	0.000	93	88359	20.0	18.0	
* 55 Fluorobenzene	96	4.057	4.057	0.000	0	673741	50.0	50.0	
57 Trichloroethene	132	4.319	4.319	0.000	96	76480	20.0	18.3	
59 Methylcyclohexane	83	4.495	4.495	0.000	97	120300	20.0	18.9	
60 1,2-Dichloropropane	63	4.514	4.514	0.000	93	67733	20.0	18.9	
62 1,4-Dioxane	88	4.562	4.562	0.000	92	8309	400.0	432.3	
63 Dibromomethane	93	4.580	4.580	0.000	92	39246	20.0	19.0	
64 Dichlorobromomethane	83	4.708	4.708	0.000	99	83706	20.0	19.1	
66 2-Chloroethyl vinyl ether	63	4.915	4.915	0.000	0	34177	20.0	19.6	
67 cis-1,3-Dichloropropene	75	5.037	5.037	0.000	92	101266	20.0	19.0	
68 4-Methyl-2-pentanone (MIBK	43	5.140	5.140	0.000	97	220015	100.0	97.0	
\$ 69 Toluene-d8 (Surr)	98	5.244	5.244	0.000	99	244585	20.0	18.7	
70 Toluene	92	5.298	5.298	0.000	93	163433	20.0	18.7	
71 trans-1,3-Dichloropropene	75	5.475	5.475	0.000	97	84418	20.0	19.0	
72 Ethyl methacrylate	69	5.511	5.511	0.000	90	72079	20.0	19.0	
73 1,1,2-Trichloroethane	83	5.627	5.627	0.000	96	43626	20.0	18.8	
74 Tetrachloroethene	164	5.694	5.694	0.000	98	65791	20.0	18.8	
75 1,3-Dichloropropane	76	5.755	5.755	0.000	94	87650	20.0	18.7	
76 2-Hexanone	43	5.791	5.791	0.000	96	151550	100.0	91.5	
78 Chlorodibromomethane	129	5.925	5.925	0.000	98	63132	20.0	19.1	
79 Ethylene Dibromide	107	6.022	6.022	0.000	98	55339	20.0	19.1	
* 80 Chlorobenzene-d5	82	6.387	6.387	0.000	85	248620	50.0	50.0	
82 Chlorobenzene	112	6.412	6.412	0.000	96	176424	20.0	18.8	
83 1,1,1,2-Tetrachloroethane	131	6.485	6.485	0.000	94	64857	20.0	19.7	
84 Ethylbenzene	91	6.485	6.485	0.000	98	274340	20.0	19.1	
85 m-Xylene & p-Xylene	91	6.594	6.594	0.000	91	192757	20.0	18.8	
86 o-Xylene	91	6.904	6.904	0.000	95	191186	20.0	19.0	
88 Styrene	104	6.923	6.923	0.000	96	158939	20.0	19.1	
89 Bromoform	173	7.075	7.075	0.000	99	40932	20.0	19.9	
90 Isopropylbenzene	105	7.209	7.209	0.000	95	249785	20.0	19.3	
\$ 92 4-Bromofluorobenzene (Surr	95	7.348	7.348	0.000	93	71691	20.0	18.3	
93 1,1,2,2-Tetrachloroethane	83	7.464	7.464	0.000	98	54016	20.0	20.1	
94 Bromobenzene	156	7.464	7.464	0.000	92	69557	20.0	19.2	
95 trans-1,4-Dichloro-2-buten	53	7.494	7.494	0.000	90	14455	20.0	19.9	
96 1,2,3-Trichloropropane	75	7.507	7.507	0.000	98	66170	20.0	20.5	
97 N-Propylbenzene	91	7.549	7.549	0.000	100	255558	20.0	19.3	
98 2-Chlorotoluene	91	7.622	7.622	0.000	97	147948	20.0	19.0	
99 1,3,5-Trimethylbenzene	105	7.701	7.701	0.000	93	157634	20.0	18.9	
100 4-Chlorotoluene	91	7.726	7.726	0.000	97	162789	20.0	18.8	
102 tert-Butylbenzene	119	7.963	7.963	0.000	95	158488	20.0	19.3	
105 1,2,4-Trimethylbenzene	105	8.012	8.012	0.000	97	149929	20.0	18.7	
106 sec-Butylbenzene	105	8.145	8.145	0.000	99	215239	20.0	19.5	
107 1,3-Dichlorobenzene	146	8.243	8.243	0.000	98	100171	20.0	18.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	8.279	8.279	0.000	98	171503	20.0	18.8	
* 109 1,4-Dichlorobenzene-d4	152	8.310	8.310	0.000	98	173229	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.334	8.334	0.000	96	99226	20.0	18.7	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	128395	20.0	18.7	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	98	88588	20.0	18.8	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	93	7233	20.0	19.2	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	94	54028	20.0	17.6	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	98	31232	20.0	18.3	
119 Naphthalene	128	10.195	10.195	0.000	99	87911	20.0	17.8	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	96	48061	20.0	18.0	
S 122 1,2-Dichloroethene, Total	1				0		40.0	39.7	
S 123 Xylenes, Total	1				0		40.0	37.8	
S 124 1,3-Dichloropropene, Total	1				0		40.0	38.0	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 2.00	Units: uL
VM_MMIX_01719	Amount Added: 2.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2509.D

Injection Date: 25-Mar-2015 21:52:30

Instrument ID: CMSAC

Operator ID: DK

Lims ID: IC

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

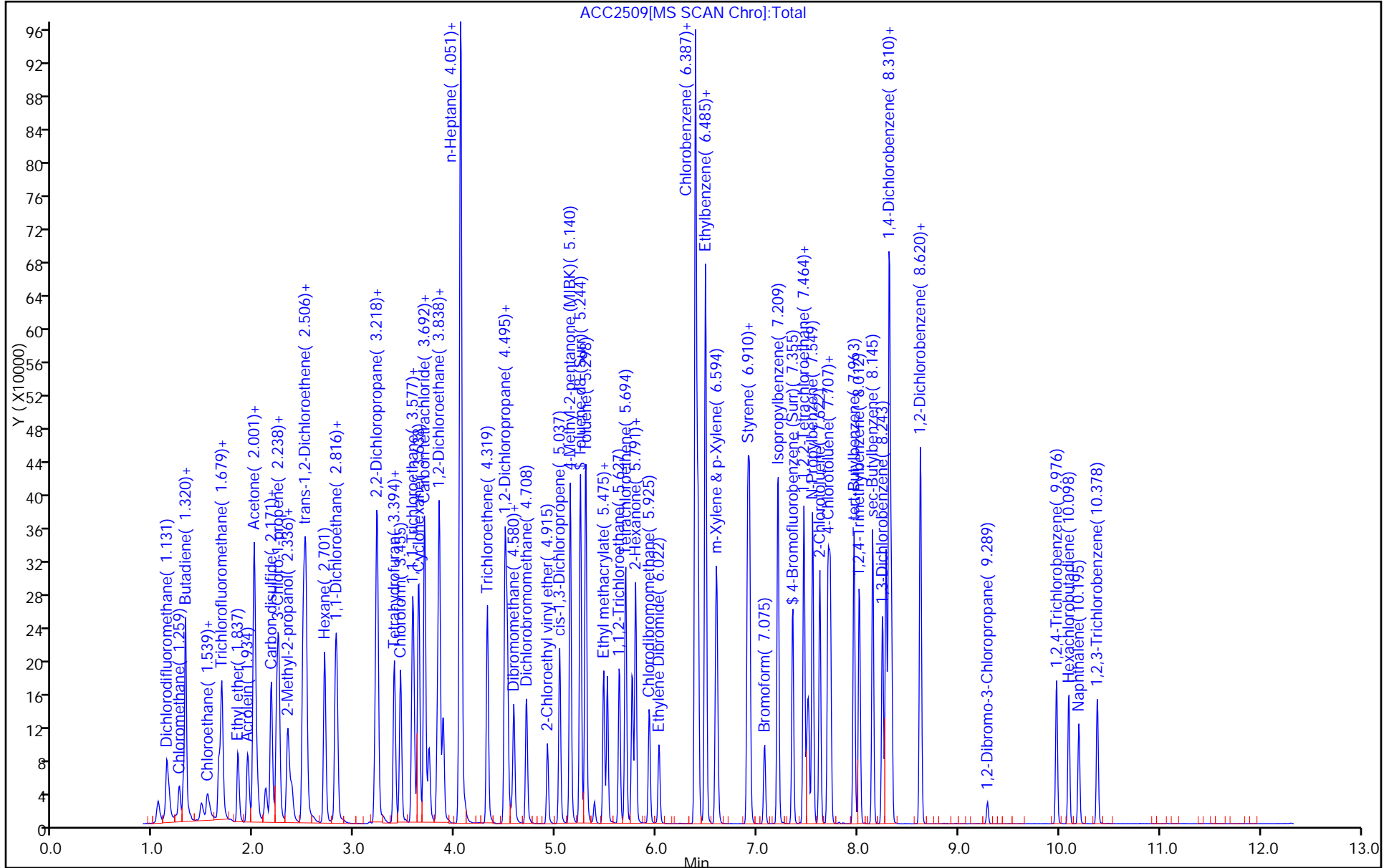
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2510.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 25-Mar-2015 22:15:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018150-010
 Misc. Info.: ICIS
 Operator ID: DK Instrument ID: CMSAC
 Sublist: chrom-2014_MSAC*sub6
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 26-Mar-2015 14:17:35 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: beardnr

Date: 26-Mar-2015 11:19:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.137	1.137	0.000	99	157066	50.0	49.7	
2 Chloromethane	50	1.253	1.253	0.000	99	104651	50.0	50.5	
3 Vinyl chloride	62	1.302	1.302	0.000	98	176910	50.0	48.4	
4 Butadiene	54	1.320	1.320	0.000	95	196725	50.0	48.8	
5 Bromomethane	94	1.478	1.478	0.000	99	46839	50.0	53.0	
6 Chloroethane	64	1.539	1.539	0.000	99	84831	50.0	46.7	
7 Dichlorofluoromethane	67	1.655	1.655	0.000	0	252594	50.0	48.9	
8 Trichlorofluoromethane	101	1.679	1.679	0.000	100	280998	50.0	50.9	
10 Ethyl ether	59	1.837	1.837	0.000	94	125196	50.0	53.0	
11 Acrolein	56	1.934	1.934	0.000	96	199243	1000.0	958.9	
12 1,1,2-Trichloro-1,2,2-trif	151	1.995	1.995	0.000	96	170293	50.0	53.1	
13 1,1-Dichloroethene	96	2.001	2.001	0.000	98	176266	50.0	49.3	
14 Acetone	58	2.026	2.026	0.000	87	57452	250.0	241.4	
17 Iodomethane	142	2.117	2.117	0.000	98	153674	50.0	49.8	
18 Carbon disulfide	76	2.172	2.172	0.000	99	572873	50.0	53.6	
20 Methyl acetate	43	2.226	2.226	0.000	99	453407	250.0	254.8	
21 3-Chloro-1-propene	76	2.245	2.245	0.000	93	130260	50.0	45.5	
22 Methylene Chloride	84	2.336	2.336	0.000	91	154430	50.0	46.1	
23 2-Methyl-2-propanol	59	2.372	2.372	0.000	99	105962	500.0	518.1	
24 Acrylonitrile	53	2.488	2.488	0.000	95	470457	500.0	490.4	
25 Methyl tert-butyl ether	73	2.506	2.506	0.000	97	401713	50.0	54.3	
26 trans-1,2-Dichloroethene	96	2.518	2.518	0.000	95	184182	50.0	50.6	
27 Hexane	57	2.701	2.701	0.000	93	260073	50.0	52.5	
28 Vinyl acetate	43	2.804	2.804	0.000	100	543061	100.0	113.3	
29 1,1-Dichloroethane	63	2.823	2.823	0.000	100	329316	50.0	48.2	
33 2-Butanone (MEK)	72	3.206	3.206	0.000	98	75943	250.0	270.8	
34 cis-1,2-Dichloroethene	61	3.218	3.218	0.000	98	289213	50.0	53.1	
36 2,2-Dichloropropane	77	3.224	3.224	0.000	95	274495	50.0	50.8	
39 Chlorobromomethane	130	3.394	3.394	0.000	86	134656	50.0	49.3	
40 Tetrahydrofuran	42	3.400	3.400	0.000	92	73292	100.0	100.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.455	3.455	0.000	99	316842	50.0	50.9	
\$ 42 Dibromofluoromethane (Surr	113	3.571	3.571	0.000	98	181714	50.0	50.5	
43 1,1,1-Trichloroethane	97	3.583	3.583	0.000	98	287229	50.0	52.7	
44 Cyclohexane	84	3.638	3.638	0.000	90	288721	50.0	53.6	
46 Carbon tetrachloride	117	3.692	3.692	0.000	98	258071	50.0	53.8	
45 1,1-Dichloropropene	75	3.692	3.692	0.000	95	231870	50.0	52.9	
47 Isobutyl alcohol	43	3.741	3.741	0.000	97	123826	1250.0	1389.7	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.820	3.820	0.000	96	170478	50.0	50.3	
50 Benzene	78	3.838	3.838	0.000	97	737491	50.0	51.4	
51 1,2-Dichloroethane	62	3.881	3.881	0.000	98	212364	50.0	52.0	
54 n-Heptane	43	4.039	4.039	0.000	92	228251	50.0	46.3	
* 55 Fluorobenzene	96	4.057	4.057	0.000	0	677299	50.0	50.0	
57 Trichloroethene	132	4.319	4.319	0.000	96	207752	50.0	49.4	
59 Methylcyclohexane	83	4.496	4.496	0.000	96	333913	50.0	52.3	
60 1,2-Dichloropropane	63	4.514	4.514	0.000	93	188774	50.0	52.4	
62 1,4-Dioxane	88	4.569	4.569	0.000	92	20826	1000.0	1077.8	
63 Dibromomethane	93	4.581	4.581	0.000	92	104655	50.0	50.3	
64 Dichlorobromomethane	83	4.708	4.708	0.000	99	234251	50.0	53.2	
66 2-Chloroethyl vinyl ether	63	4.915	4.915	0.000	0	95870	50.0	54.8	
67 cis-1,3-Dichloropropene	75	5.037	5.037	0.000	92	284624	50.0	53.3	
68 4-Methyl-2-pentanone (MIBK	43	5.140	5.140	0.000	96	579478	250.0	254.1	
\$ 69 Toluene-d8 (Surr)	98	5.244	5.244	0.000	99	626702	50.0	47.6	
70 Toluene	92	5.299	5.299	0.000	93	422054	50.0	47.9	
71 trans-1,3-Dichloropropene	75	5.475	5.475	0.000	97	236754	50.0	52.9	
72 Ethyl methacrylate	69	5.511	5.511	0.000	89	185984	50.0	48.7	
73 1,1,2-Trichloroethane	83	5.627	5.627	0.000	96	120161	50.0	51.4	
74 Tetrachloroethene	164	5.694	5.694	0.000	98	174421	50.0	49.6	
75 1,3-Dichloropropane	76	5.755	5.755	0.000	95	243132	50.0	51.6	
76 2-Hexanone	43	5.791	5.791	0.000	96	386661	250.0	232.3	
78 Chlorodibromomethane	129	5.925	5.925	0.000	98	179370	50.0	54.0	
79 Ethylene Dibromide	107	6.022	6.022	0.000	99	150293	50.0	51.6	
* 80 Chlorobenzene-d5	82	6.387	6.387	0.000	84	239274	50.0	50.0	
82 Chlorobenzene	112	6.412	6.412	0.000	96	453431	50.0	50.1	
83 1,1,1,2-Tetrachloroethane	131	6.485	6.485	0.000	95	177793	50.0	56.1	
84 Ethylbenzene	91	6.491	6.491	0.000	98	701856	50.0	50.9	
85 m-Xylene & p-Xylene	91	6.594	6.594	0.000	90	491329	50.0	49.7	
86 o-Xylene	91	6.905	6.905	0.000	94	488230	50.0	50.5	
88 Styrene	104	6.923	6.923	0.000	96	406858	50.0	50.9	
89 Bromoform	173	7.075	7.075	0.000	99	115597	50.0	58.3	
90 Isopropylbenzene	105	7.203	7.203	0.000	96	632166	50.0	50.6	
\$ 92 4-Bromofluorobenzene (Surr	95	7.355	7.355	0.000	89	181911	50.0	50.6	
93 1,1,2,2-Tetrachloroethane	83	7.464	7.464	0.000	98	138122	50.0	53.3	
94 Bromobenzene	156	7.464	7.464	0.000	93	175741	50.0	50.5	
95 trans-1,4-Dichloro-2-buten	53	7.495	7.495	0.000	91	38171	50.0	54.5	
96 1,2,3-Trichloropropane	75	7.507	7.507	0.000	96	172669	50.0	55.5	
97 N-Propylbenzene	91	7.549	7.549	0.000	100	642215	50.0	50.4	
98 2-Chlorotoluene	91	7.622	7.622	0.000	97	377124	50.0	50.4	
99 1,3,5-Trimethylbenzene	105	7.708	7.708	0.000	94	399367	50.0	49.8	
100 4-Chlorotoluene	91	7.726	7.726	0.000	98	414650	50.0	49.9	
102 tert-Butylbenzene	119	7.963	7.963	0.000	95	395152	50.0	50.1	
105 1,2,4-Trimethylbenzene	105	8.012	8.012	0.000	97	381263	50.0	49.5	
106 sec-Butylbenzene	105	8.146	8.146	0.000	99	536755	50.0	50.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,3-Dichlorobenzene	146	8.243	8.243	0.000	98	248430	50.0	50.7	
108 4-Isopropyltoluene	119	8.279	8.279	0.000	98	432569	50.0	51.5	
* 109 1,4-Dichlorobenzene-d4	152	8.310	8.310	0.000	97	159271	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.334	8.334	0.000	96	247481	50.0	50.8	
113 n-Butylbenzene	91	8.620	8.620	0.000	97	323023	50.0	51.3	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	221225	50.0	51.0	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	93	19357	50.0	55.8	
117 1,2,4-Trichlorobenzene	180	9.977	9.977	0.000	94	141703	50.0	50.3	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	99	77950	50.0	49.8	
119 Naphthalene	128	10.196	10.196	0.000	99	219960	50.0	48.5	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	124716	50.0	50.9	
S 122 1,2-Dichloroethene, Total	1				0		100.0	103.7	
S 123 Xylenes, Total	1				0		100.0	100.2	
S 124 1,3-Dichloropropene, Total	1				0		100.0	106.2	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01719	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2510.D

Injection Date: 25-Mar-2015 22:15:30

Instrument ID: CMSAC

Operator ID: DK

Lims ID: ICIS

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

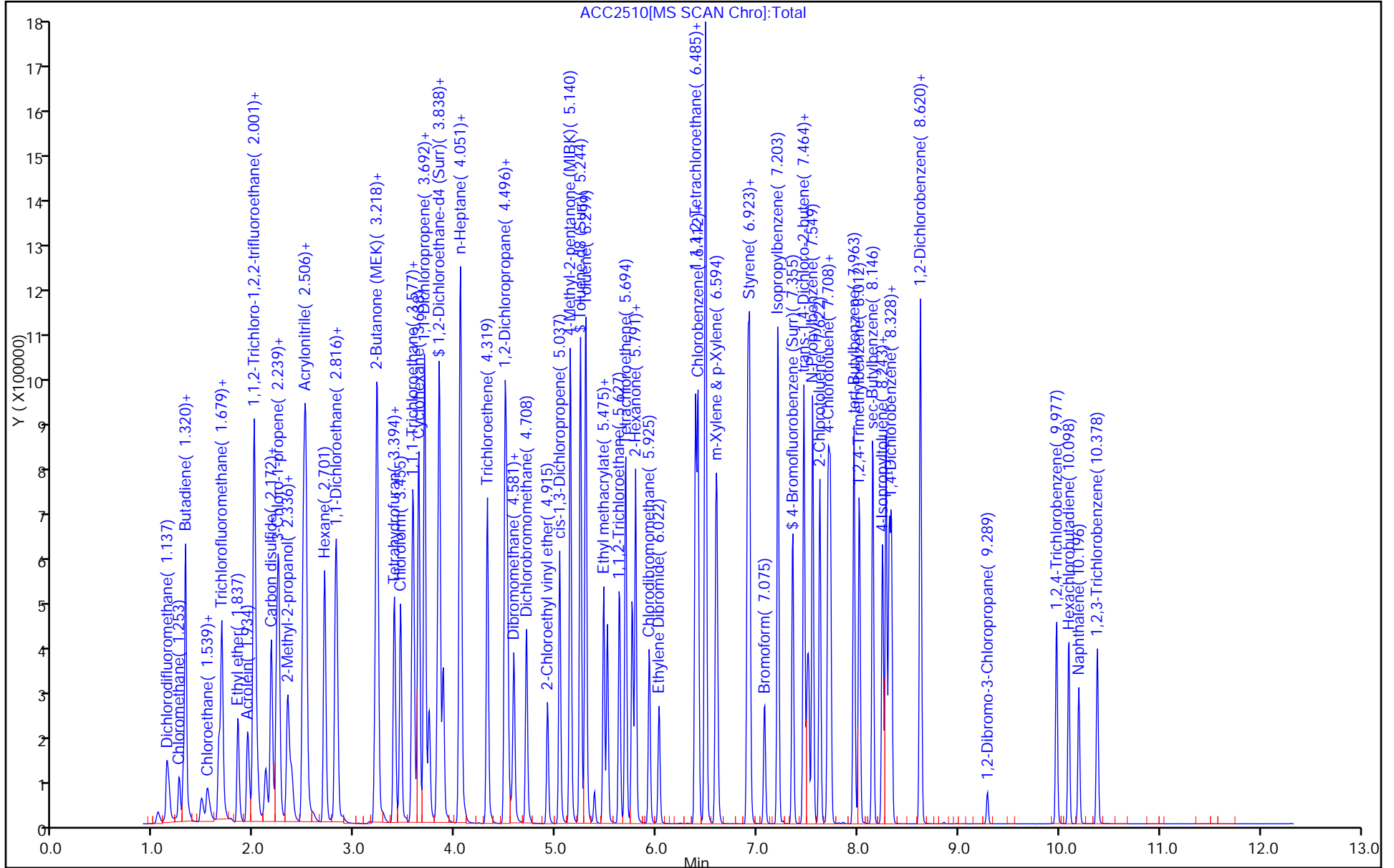
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2511.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 25-Mar-2015 22:37:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018150-011
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSAC
 Sublist: chrom-2014_MSAC*sub6
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 26-Mar-2015 14:17:36 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.137	1.137	0.000	99	296930	100.0	92.0	
2 Chloromethane	50	1.252	1.253	-0.001	99	213405	100.0	100.7	
3 Vinyl chloride	62	1.301	1.302	-0.001	98	336392	100.0	90.1	
4 Butadiene	54	1.319	1.320	-0.001	95	385469	100.0	93.4	
5 Bromomethane	94	1.471	1.478	-0.007	99	78559	100.0	87.0	
6 Chloroethane	64	1.532	1.539	-0.007	99	149724	100.0	80.6	
7 Dichlorofluoromethane	67	1.648	1.655	-0.007	0	470689	100.0	89.2	
8 Trichlorofluoromethane	101	1.678	1.679	-0.001	100	553958	100.0	98.1	
10 Ethyl ether	59	1.836	1.837	-0.001	95	260429	100.0	107.8	
11 Acrolein	56	1.934	1.934	0.000	96	402289	2000.0	1893.9	
12 1,1,2-Trichloro-1,2,2-trif	151	1.995	1.995	0.000	97	347388	100.0	105.9	
13 1,1-Dichloroethene	96	2.001	2.001	0.000	98	353220	100.0	96.6	
14 Acetone	58	2.025	2.026	-0.001	87	111021	500.0	456.2	
17 Iodomethane	142	2.116	2.117	-0.001	97	328423	100.0	104.2	
18 Carbon disulfide	76	2.171	2.172	-0.001	99	988105	100.0	96.0	
20 Methyl acetate	43	2.226	2.226	0.000	99	910402	500.0	500.5	
21 3-Chloro-1-propene	76	2.244	2.245	-0.001	93	317861	100.0	108.7	
22 Methylene Chloride	84	2.335	2.336	-0.001	90	318373	100.0	93.0	
23 2-Methyl-2-propanol	59	2.378	2.372	0.006	99	211481	1000.0	1011.4	
24 Acrylonitrile	53	2.487	2.488	-0.001	96	922705	1000.0	940.7	
25 Methyl tert-butyl ether	73	2.506	2.506	0.000	97	824403	100.0	108.9	
26 trans-1,2-Dichloroethene	96	2.518	2.518	0.000	94	377670	100.0	101.5	
27 Hexane	57	2.700	2.701	-0.001	93	540442	100.0	106.8	
28 Vinyl acetate	43	2.804	2.804	0.000	100	1100127	200.0	224.4	
29 1,1-Dichloroethane	63	2.822	2.823	-0.001	100	665568	100.0	95.2	
33 2-Butanone (MEK)	72	3.205	3.206	-0.001	99	156263	500.0	545.1	
34 cis-1,2-Dichloroethene	61	3.217	3.218	-0.001	99	575842	100.0	103.4	
36 2,2-Dichloropropane	77	3.230	3.224	0.006	95	550201	100.0	99.6	
39 Chlorobromomethane	130	3.394	3.394	0.000	84	275500	100.0	98.6	
40 Tetrahydrofuran	42	3.400	3.400	0.000	92	147726	200.0	197.1	
41 Chloroform	83	3.455	3.455	0.000	100	629213	100.0	98.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.570	3.571	-0.001	97	357155	100.0	97.1	
43 1,1,1-Trichloroethane	97	3.582	3.583	-0.001	98	584516	100.0	104.9	
44 Cyclohexane	84	3.637	3.638	-0.001	92	605221	100.0	109.9	
46 Carbon tetrachloride	117	3.692	3.692	0.000	98	535578	100.0	109.3	
45 1,1-Dichloropropene	75	3.692	3.692	0.000	95	476972	100.0	106.4	
47 Isobutyl alcohol	43	3.741	3.741	0.000	96	220626	2500.0	2422.1	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.826	3.820	0.006	96	346495	100.0	100.1	
50 Benzene	78	3.838	3.838	0.000	97	1490804	100.0	101.6	
51 1,2-Dichloroethane	62	3.881	3.881	-0.001	97	433913	100.0	103.9	
54 n-Heptane	43	4.039	4.039	0.000	92	467873	100.0	92.9	
* 55 Fluorobenzene	96	4.057	4.057	0.000	0	692419	50.0	50.0	
57 Trichloroethene	132	4.319	4.319	-0.001	96	433141	100.0	100.8	
59 Methylcyclohexane	83	4.495	4.496	-0.001	96	697101	100.0	106.7	
60 1,2-Dichloropropane	63	4.519	4.514	0.005	94	391465	100.0	106.3	
62 1,4-Dioxane	88	4.568	4.569	0.000	93	38625	2000.0	1955.3	
63 Dibromomethane	93	4.580	4.581	-0.001	92	214165	100.0	100.7	
64 Dichlorobromomethane	83	4.708	4.708	0.000	99	495252	100.0	109.9	
66 2-Chloroethyl vinyl ether	63	4.915	4.915	0.000	0	200106	100.0	111.9	
67 cis-1,3-Dichloropropene	75	5.036	5.037	-0.001	91	593337	100.0	108.6	
68 4-Methyl-2-pentanone (MIBK	43	5.146	5.140	0.006	95	1119012	500.0	479.9	
\$ 69 Toluene-d8 (Surr)	98	5.243	5.244	-0.001	99	1256097	100.0	93.3	
70 Toluene	92	5.298	5.299	-0.001	94	853566	100.0	94.8	
71 trans-1,3-Dichloropropene	75	5.474	5.475	-0.001	97	492145	100.0	107.6	
72 Ethyl methacrylate	69	5.511	5.511	0.000	89	365333	100.0	93.6	
73 1,1,2-Trichloroethane	83	5.633	5.627	0.006	96	249820	100.0	104.6	
74 Tetrachloroethene	164	5.693	5.694	-0.001	98	357009	100.0	99.3	
75 1,3-Dichloropropane	76	5.760	5.755	0.005	94	498030	100.0	103.4	
76 2-Hexanone	43	5.791	5.791	0.000	95	738803	500.0	434.1	
78 Chlorodibromomethane	129	5.931	5.925	0.006	98	379607	100.0	111.7	
79 Ethylene Dibromide	107	6.022	6.022	0.000	99	309524	100.0	104.0	
* 80 Chlorobenzene-d5	82	6.387	6.387	0.000	85	243022	50.0	50.0	
82 Chlorobenzene	112	6.411	6.412	-0.001	96	914411	100.0	99.5	
83 1,1,1,2-Tetrachloroethane	131	6.484	6.485	-0.001	96	358246	100.0	111.2	
84 Ethylbenzene	91	6.490	6.491	-0.001	98	1379956	100.0	98.5	
85 m-Xylene & p-Xylene	91	6.594	6.594	0.000	90	1003722	100.0	100.0	
86 o-Xylene	91	6.904	6.905	-0.001	95	964612	100.0	98.2	
88 Styrene	104	6.922	6.923	-0.001	96	797925	100.0	98.3	
89 Bromoform	173	7.074	7.075	-0.001	99	234388	100.0	116.5	
90 Isopropylbenzene	105	7.208	7.203	0.005	95	1241368	100.0	97.9	
\$ 92 4-Bromofluorobenzene (Surr	95	7.354	7.355	-0.001	89	347374	100.0	100.0	
93 1,1,2,2-Tetrachloroethane	83	7.464	7.464	0.000	98	258946	100.0	98.5	
94 Bromobenzene	156	7.464	7.464	0.000	94	339370	100.0	96.0	
95 trans-1,4-Dichloro-2-buten	53	7.494	7.495	-0.001	89	71309	100.0	100.3	
96 1,2,3-Trichloropropane	75	7.506	7.507	-0.001	97	324538	100.0	102.6	
97 N-Propylbenzene	91	7.549	7.549	0.000	100	1251440	100.0	96.7	
98 2-Chlorotoluene	91	7.622	7.622	0.000	97	721546	100.0	94.9	
99 1,3,5-Trimethylbenzene	105	7.707	7.708	-0.001	93	792855	100.0	97.3	
100 4-Chlorotoluene	91	7.725	7.726	-0.001	97	810159	100.0	95.9	
102 tert-Butylbenzene	119	7.963	7.963	-0.001	95	761387	100.0	95.1	
105 1,2,4-Trimethylbenzene	105	8.017	8.012	0.005	97	759374	100.0	97.0	
106 sec-Butylbenzene	105	8.151	8.146	0.005	99	1020675	100.0	94.7	
107 1,3-Dichlorobenzene	146	8.248	8.243	0.005	98	474461	100.0	100.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	8.279	8.279	0.000	98	836045	100.0	103.1	
* 109 1,4-Dichlorobenzene-d4	152	8.315	8.310	0.005	96	153796	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.334	8.334	0.000	96	468413	100.0	99.6	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	647784	100.0	106.5	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	98	422877	100.0	101.0	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	92	39724	100.0	118.7	
117 1,2,4-Trichlorobenzene	180	9.976	9.977	-0.001	94	296370	100.0	108.9	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	99	163309	100.0	108.1	
119 Naphthalene	128	10.195	10.196	-0.001	99	450469	100.0	102.9	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	96	258443	100.0	109.1	
S 122 1,2-Dichloroethene, Total	1				0		200.0	204.9	
S 123 Xylenes, Total	1				0		200.0	198.2	
S 124 1,3-Dichloropropene, Total	1				0		200.0	216.2	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 10.00	Units: uL
VM_MMIX_01719	Amount Added: 10.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2511.D

Injection Date: 25-Mar-2015 22:37:30

Instrument ID: CMSAC

Operator ID: DK

Lims ID: IC

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

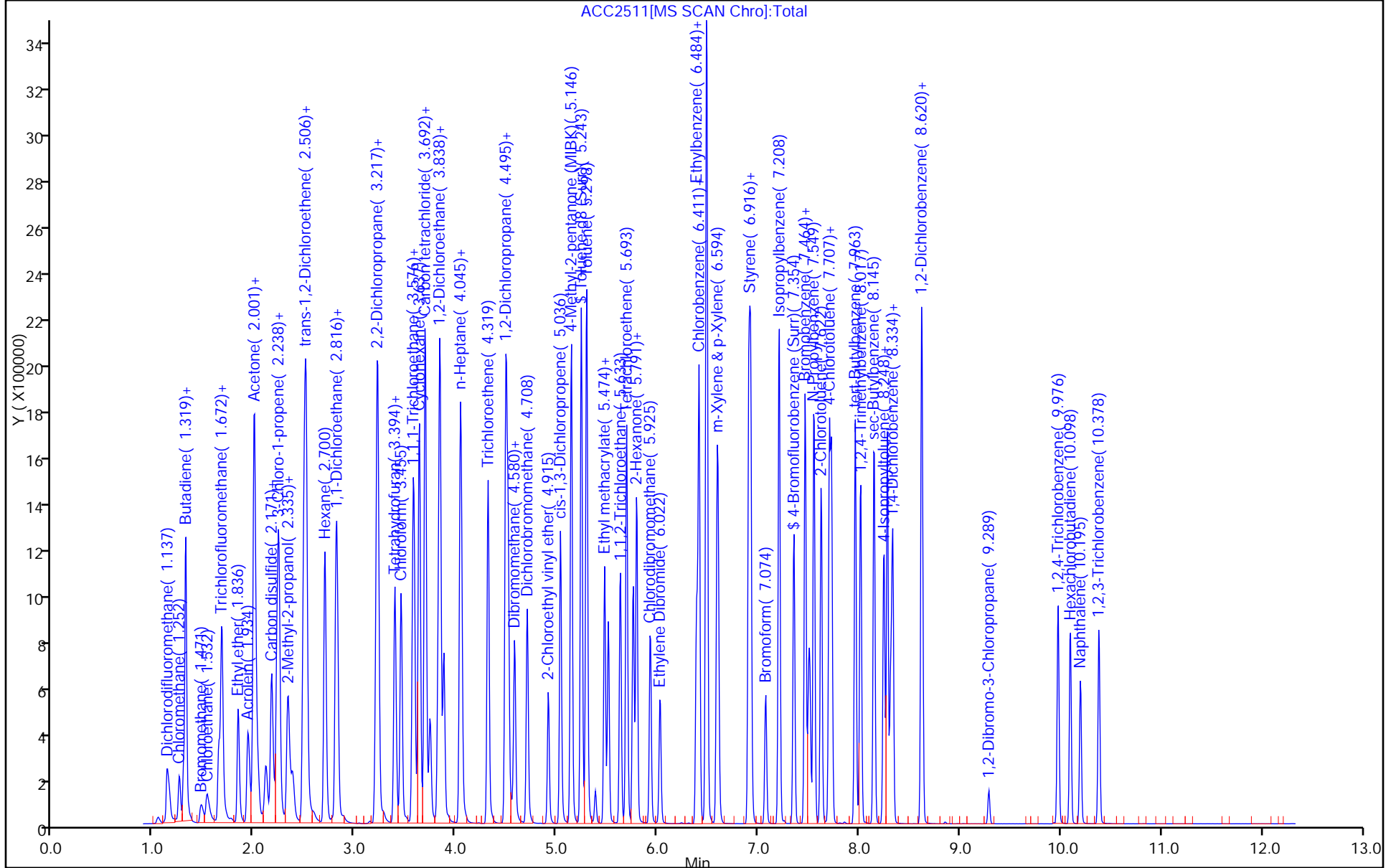
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 25-Mar-2015 23:00:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018150-012
 Misc. Info.: IC
 Operator ID: DK Instrument ID: CMSAC
 Sublist: chrom-2014_MSAC*sub6
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 26-Mar-2015 14:17:38 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: beardnr

Date: 26-Mar-2015 11:21:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.131	1.137	-0.006	100	541739	200.0	165.8	
2 Chloromethane	50	1.253	1.253	0.000	99	427686	200.0	199.4	
3 Vinyl chloride	62	1.302	1.302	0.000	98	625187	200.0	165.4	
4 Butadiene	54	1.320	1.320	0.000	94	659262	200.0	157.9	
5 Bromomethane	94	1.466	1.478	-0.012	98	74495	200.0	81.5	
6 Chloroethane	64	1.521	1.539	-0.018	99	176761	200.0	94.0	
7 Dichlorofluoromethane	67	1.642	1.655	-0.013	0	807073	200.0	151.1	
8 Trichlorofluoromethane	101	1.667	1.679	-0.012	100	981750	200.0	171.8	
10 Ethyl ether	59	1.837	1.837	0.000	95	537110	200.0	219.7	
11 Acrolein	56	1.934	1.934	0.000	96	800134	4000.0	3722.3	
12 1,1,2-Trichloro-1,2,2-trif	151	1.989	1.995	-0.006	97	686816	200.0	206.9	
13 1,1-Dichloroethene	96	1.995	2.001	-0.006	97	704717	200.0	190.5	
14 Acetone	58	2.026	2.026	0.000	87	212705	1000.0	863.8	
17 Iodomethane	142	2.111	2.117	-0.006	97	633223	200.0	198.5	
18 Carbon disulfide	76	2.166	2.172	-0.006	99	1775986	200.0	201.1	
20 Methyl acetate	43	2.226	2.226	0.000	98	1807074	1000.0	981.8	
21 3-Chloro-1-propene	76	2.239	2.245	-0.006	93	707130	200.0	239.0	
22 Methylene Chloride	84	2.330	2.336	-0.006	89	610874	200.0	176.4	
23 2-Methyl-2-propanol	59	2.391	2.372	0.019	99	329642	2000.0	1557.8	
24 Acrylonitrile	53	2.494	2.488	0.006	94	1671842	2000.0	1684.4	
25 Methyl tert-butyl ether	73	2.506	2.506	0.000	97	1623463	200.0	212.0	
26 trans-1,2-Dichloroethene	96	2.512	2.518	-0.006	92	756298	200.0	200.9	
27 Hexane	57	2.695	2.701	-0.006	92	1070824	200.0	209.0	
28 Vinyl acetate	43	2.804	2.804	0.000	99	2136407	400.0	430.7	
29 1,1-Dichloroethane	63	2.823	2.823	0.000	100	1303485	200.0	184.3	
33 2-Butanone (MEK)	72	3.212	3.206	0.006	99	313576	1000.0	1080.9	
34 cis-1,2-Dichloroethene	61	3.218	3.218	0.000	99	1111975	200.0	197.3	
36 2,2-Dichloropropane	77	3.230	3.224	0.006	95	1083233	200.0	193.8	
39 Chlorobromomethane	130	3.394	3.394	0.000	83	486603	200.0	172.2	
40 Tetrahydrofuran	42	3.400	3.400	0.000	91	304595	400.0	401.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.455	3.455	0.000	99	1270226	200.0	197.1	
\$ 42 Dibromofluoromethane (Surr	113	3.571	3.571	0.000	97	728501	200.0	195.8	
43 1,1,1-Trichloroethane	97	3.583	3.583	0.000	98	1170472	200.0	207.5	
44 Cyclohexane	84	3.638	3.638	0.000	89	1211066	200.0	217.3	
46 Carbon tetrachloride	117	3.692	3.692	0.000	98	1052413	200.0	212.2	
45 1,1-Dichloropropene	75	3.692	3.692	0.000	95	979035	200.0	215.8	
47 Isobutyl alcohol	43	3.759	3.741	0.018	95	286562	5000.0	3108.7	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.826	3.820	0.006	95	698883	200.0	199.5	
50 Benzene	78	3.845	3.838	0.007	97	2850443	200.0	191.9	
51 1,2-Dichloroethane	62	3.881	3.881	0.000	97	873838	200.0	206.8	
54 n-Heptane	43	4.039	4.039	0.000	90	891834	200.0	174.9	
* 55 Fluorobenzene	96	4.058	4.057	0.001	0	700696	50.0	50.0	
57 Trichloroethene	132	4.319	4.319	0.000	97	869072	200.0	199.9	
59 Methylcyclohexane	83	4.496	4.496	0.000	95	1376629	200.0	208.3	
60 1,2-Dichloropropane	63	4.520	4.514	0.006	95	790146	200.0	212.0	
62 1,4-Dioxane	88	4.575	4.569	0.007	92	69603	4000.0	3481.8	
63 Dibromomethane	93	4.581	4.581	0.000	92	435044	200.0	202.1	
64 Dichlorobromomethane	83	4.708	4.708	0.000	99	1011312	200.0	221.8	
66 2-Chloroethyl vinyl ether	63	4.915	4.915	0.000	0	406277	200.0	224.6	
67 cis-1,3-Dichloropropene	75	5.037	5.037	0.000	91	1198610	200.0	216.8	
68 4-Methyl-2-pentanone (MIBK	43	5.146	5.140	0.006	93	1840494	1000.0	780.0	
\$ 69 Toluene-d8 (Surr)	98	5.244	5.244	0.000	99	2324552	200.0	170.5	
70 Toluene	92	5.299	5.299	0.000	95	1643069	200.0	180.3	
71 trans-1,3-Dichloropropene	75	5.475	5.475	0.000	95	986116	200.0	213.0	
72 Ethyl methacrylate	69	5.511	5.511	0.000	88	667106	200.0	169.0	
73 1,1,2-Trichloroethane	83	5.633	5.627	0.006	97	502757	200.0	208.1	
74 Tetrachloroethene	164	5.694	5.694	0.000	97	693728	200.0	190.7	
75 1,3-Dichloropropane	76	5.761	5.755	0.006	92	992919	200.0	203.7	
76 2-Hexanone	43	5.797	5.791	0.006	94	1028711	1000.0	597.3	
78 Chlorodibromomethane	129	5.931	5.925	0.006	98	739344	200.0	215.0	
79 Ethylene Dibromide	107	6.029	6.022	0.007	99	593322	200.0	196.9	
* 80 Chlorobenzene-d5	82	6.387	6.387	0.000	85	224888	50.0	50.0	
82 Chlorobenzene	112	6.412	6.412	0.000	95	1633748	200.0	192.1	
83 1,1,1,2-Tetrachloroethane	131	6.485	6.485	0.000	97	647579	200.0	217.3	
84 Ethylbenzene	91	6.491	6.491	0.000	97	2350900	200.0	181.3	
85 m-Xylene & p-Xylene	91	6.594	6.594	0.000	90	1822618	200.0	196.2	
86 o-Xylene	91	6.905	6.905	0.000	97	1674546	200.0	184.2	
88 Styrene	104	6.923	6.923	0.000	96	1355036	200.0	180.4	
89 Bromoform	173	7.075	7.075	0.000	99	374570	200.0	201.1	
90 Isopropylbenzene	105	7.209	7.203	0.006	96	2038205	200.0	173.7	
\$ 92 4-Bromofluorobenzene (Surr	95	7.355	7.355	0.000	89	570072	200.0	180.4	
93 1,1,2,2-Tetrachloroethane	83	7.464	7.464	0.000	73	373679	200.0	153.6	
94 Bromobenzene	156	7.464	7.464	0.000	93	544126	200.0	166.4	
95 trans-1,4-Dichloro-2-buten	53	7.501	7.495	0.006	89	101147	200.0	153.8	
96 1,2,3-Trichloropropane	75	7.507	7.507	0.000	97	467059	200.0	159.6	
97 N-Propylbenzene	91	7.555	7.549	0.006	99	2052598	200.0	171.4	
98 2-Chlorotoluene	91	7.622	7.622	0.000	96	1207390	200.0	171.7	
99 1,3,5-Trimethylbenzene	105	7.708	7.708	0.000	93	1407936	200.0	186.6	
100 4-Chlorotoluene	91	7.726	7.726	0.000	97	1356897	200.0	173.6	
102 tert-Butylbenzene	119	7.963	7.963	0.000	95	1242292	200.0	167.7	
105 1,2,4-Trimethylbenzene	105	8.012	8.012	0.000	97	1392395	200.0	192.3	
106 sec-Butylbenzene	105	8.152	8.146	0.006	98	1691372	200.0	169.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,3-Dichlorobenzene	146	8.249	8.243	0.006	98	840180	200.0	195.1	
108 4-Isopropyltoluene	119	8.279	8.279	0.000	97	1462013	200.0	198.1	
* 109 1,4-Dichlorobenzene-d4	152	8.316	8.310	0.006	94	139919	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.334	8.334	0.000	96	851783	200.0	199.1	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	1209668	200.0	218.5	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	98	781313	200.0	205.2	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	92	85582	200.0	281.1	
117 1,2,4-Trichlorobenzene	180	9.977	9.977	0.000	94	618824	200.0	249.8	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	98	327530	200.0	238.2	
119 Naphthalene	128	10.196	10.196	0.000	99	955608	200.0	240.0	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	96	532576	200.0	247.2	
S 122 1,2-Dichloroethene, Total	1				0		400.0	398.2	
S 123 Xylenes, Total	1				0		400.0	380.4	
S 124 1,3-Dichloropropene, Total	1				0		400.0	429.8	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 20.00	Units: uL
VM_MMIX_01719	Amount Added: 20.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D

Injection Date: 25-Mar-2015 23:00:30

Instrument ID: CMSAC

Operator ID: DK

Lims ID: IC

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

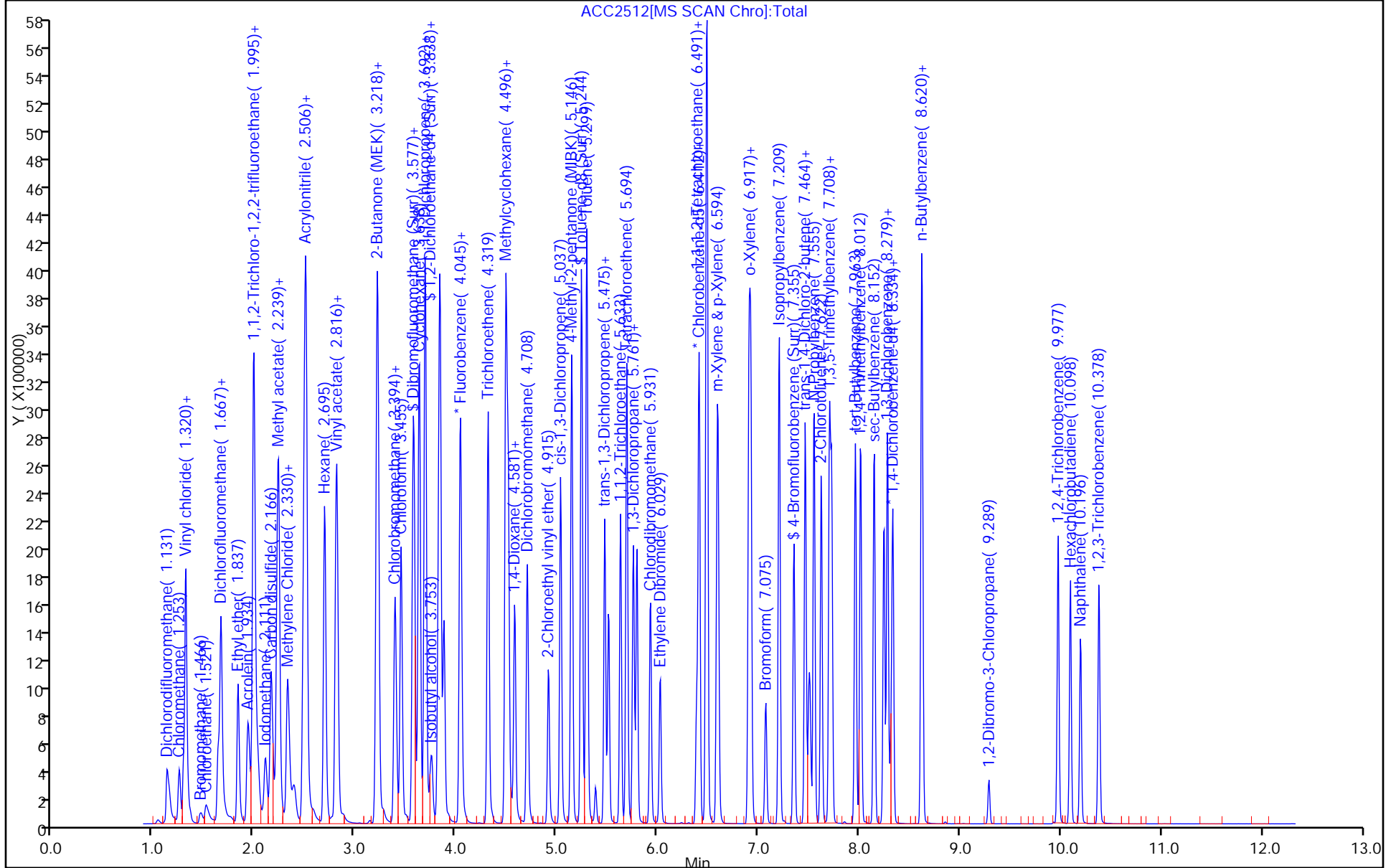
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 376722

SDG No.: _____

Instrument ID: CMSP2 GC Column: Rtx-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 13:41 Calibration End Date: 03/30/2015 16:12 Calibration ID: 38292

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-376722/4	PC3004Q.D
Level 2	IC 680-376722/5	PC3005Q.D
Level 3	IC 680-376722/6	PC3006Q.D
Level 4	IC 680-376722/7	PC3007Q.D
Level 5	IC 680-376722/8	PC3008Q.D
Level 6	ICIS 680-376722/9	PC3009Q.D
Level 7	IC 680-376722/10	PC3010Q.D
Level 8	IC 680-376722/11	PC3011Q.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								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	0.2898 0.2699	0.2642 0.2817	0.2586 0.2796	0.2699	0.2723	Ave		0.2732			3.7		15.0				
Chloromethane	0.2554 0.2124	0.2005 0.2295	0.2059 0.2330	0.2095	0.2058	LinF		0.2311		0.1000				0.9990		0.9900	
Vinyl chloride	0.2533 0.2369	0.2261 0.2456	0.2372 0.2417	0.2429	0.2364	Ave		0.2400			3.3		15.0				
1,3-Butadiene	++++ 0.1951	0.1966 0.1986	0.1986 0.1915	0.1899	0.1983	Ave		0.1955			1.8		15.0				
Bromomethane	++++ 0.1373	0.0892 0.1224	0.1508 ++++	0.1397	0.1596	Qua	-0.063	0.1588	-0.000360					0.9990		0.9900	
Chloroethane	0.1317 0.1220	0.1035 0.1167	0.1364 0.0950	0.1337	0.1252	Ave		0.1205			12.3		15.0				
Dichlorofluoromethane	0.3739 0.3721	0.3098 0.3781	0.3864 0.3532	0.3928	0.3742	Ave		0.3676			7.1		15.0				
Trichlorofluoromethane	0.3685 0.3472	0.3192 0.2680	0.3535 0.2526	0.3756	0.3629	Ave		0.3309			14.2		15.0				
Ethyl ether	0.1869 0.1920	0.1652 0.1930	0.1823 0.1795	0.1958	0.1822	Ave		0.1846			5.3		15.0				
Acrolein	0.0128 0.0153	0.0121 0.0159	++++ 0.0225	0.0116	0.0138	QuaF		0.0108	0.0000029					0.9990		0.9900	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2482 0.2394	0.2286 0.2379	0.2483 0.2220	0.2571	0.2437	Ave		0.2406			4.7		15.0				
1,1-Dichloroethene	0.2439 0.2111	0.2145 0.2246	0.2281 0.2180	0.2269	0.2222	Ave		0.2237			4.5		15.0				
Acetone	++++ 0.0215	0.0215 0.0228	0.0211 0.0214	0.0237	0.0211	Ave		0.0219			4.5		15.0				
Iodomethane	++++ 0.2793	0.0987 0.3294	0.1625 0.3292	0.1893	0.2210	QuaF		0.2936	0.0001866					0.9980		0.9900	

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 Savannah

Job No.: 680-110788-1

Analy Batch No.: 376722

SDG No.: _____

Instrument ID: CMSP2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 13:41

Calibration End Date: 03/30/2015 16:12

Calibration ID: 38292

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								
	LVL 6	LVL 7	LVL 8	LVL 5													
Carbon disulfide	0.8212 0.6577	0.6680 0.6714	0.7024 0.6233	0.7040	0.6758	Ave		0.6905			8.5		15.0				
Methyl acetate	0.1869 0.1611	0.1554 0.1628	0.1625 0.1485	0.1708	0.1554	Ave		0.1629			7.2		15.0				
Allyl chloride	0.2105 0.1801	0.1611 0.1820	0.1795 0.1918	0.1889	0.1705	Ave		0.1831			8.1		15.0				
Methylene Chloride	0.2628 0.2458	0.2420 0.2506	0.2505 0.2405	0.2618	0.2461	Ave		0.2500			3.3		15.0				
tert-Butyl alcohol	0.0238 0.0252	0.0208 0.0267	0.0227 0.0266	0.0251	0.0238	Ave		0.0244			8.2		15.0				
Acrylonitrile	0.1023 0.0923	0.0871 0.0929	0.0927 0.0859	0.0965	0.0882	Ave		0.0922			5.8		15.0				
Methyl tert-butyl ether	0.8061 0.7105	0.6692 0.7282	0.7116 0.6617	0.7340	0.6814	Ave		0.7128			6.5		15.0				
trans-1,2-Dichloroethene	0.2795 0.2332	0.2340 0.2342	0.2539 0.2178	0.2525	0.2407	Ave		0.2432			7.7		15.0				
Hexane	++++ 0.3534	0.3824 0.3540	0.3886 0.3428	0.3755	0.3589	Ave		0.3651			4.7		15.0				
Vinyl acetate	0.4817 0.4180	0.3937 0.4307	0.4266 0.3904	0.4401	0.4014	Ave		0.4228			7.1		15.0				
1,1-Dichloroethane	0.4278 0.3683	0.3635 0.3776	0.3924 0.3549	0.3964	0.3763	Ave		0.3822		0.1000	6.0		15.0				
Methyl ethyl ketone (MEK)	0.0366 0.0332	0.0293 0.0350	0.0322 0.0335	0.0346	0.0316	Ave		0.0333			6.8		15.0				
cis-1,2-Dichloroethene	0.4137 0.3262	0.3295 0.3346	0.3437 0.3114	0.3472	0.3277	Ave		0.3417			9.1		15.0				
2,2-Dichloropropane	0.3189 0.3098	0.2910 0.3118	0.3104 0.2954	0.3183	0.3087	Ave		0.3080			3.2		15.0				
Bromochloromethane	0.2253 0.1898	0.1814 0.1967	0.1972 0.1875	0.1974	0.1859	Ave		0.1952			6.9		15.0				
Tetrahydrofuran	++++ 0.0661	0.0659 0.0675	0.0643 0.0632	0.0702	0.0640	Ave		0.0659			3.6		15.0				
Chloroform	0.4163 0.3870	0.3680 0.3969	0.3950 0.3776	0.4099	0.3908	Ave		0.3927			4.0		15.0				
1,1,1-Trichloroethane	0.3505 0.3422	0.3170 0.3502	0.3508 0.3326	0.3489	0.3385	Ave		0.3413			3.5		15.0				
Cyclohexane	0.4393 0.3806	0.3856 0.3918	0.3927 0.3762	0.4019	0.3891	Ave		0.3946			5.0		15.0				
1,1-Dichloropropene	0.3492 0.2963	0.2732 0.3054	0.3149 0.2916	0.3106	0.2989	Ave		0.3050			7.2		15.0				

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 Savannah

Job No.: 680-110788-1

Analy Batch No.: 376722

SDG No.: _____

Instrument ID: CMSP2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 13:41

Calibration End Date: 03/30/2015 16:12

Calibration ID: 38292

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								
	LVL 6	LVL 7	LVL 8														
Carbon tetrachloride	0.3020 0.2898	0.2581 0.3056	0.2808 0.2957	0.2904	0.2841	Ave		0.2883			5.1		15.0				
Isobutanol	0.0101 0.0099	0.0086 0.0106	0.0092 0.0104	0.0101	0.0095	Ave		0.0098			6.8		15.0				
Benzene	1.0761 0.9628	0.9831 1.0026	1.0136 0.9547	1.0291	0.9667	Ave		0.9986			4.1		15.0				
1,2-Dichloroethane	0.3402 0.3026	0.2888 0.3068	0.3056 0.2871	0.3158	0.2922	Ave		0.3049			5.7		15.0				
n-Heptane	0.4416 0.3612	0.3844 0.3694	0.3921 0.3491	0.3882	0.3775	Ave		0.3829			7.2		15.0				
Trichloroethene	0.3691 0.3076	0.3161 0.3221	0.3077 0.3146	0.3117	0.2998	Ave		0.3186			6.7		15.0				
Methylcyclohexane	0.5546 0.5135	0.4915 0.5288	0.5160 0.5079	0.5379	0.5236	Ave		0.5217			3.7		15.0				
1,2-Dichloropropane	0.2550 0.2286	0.2176 0.2393	0.2324 0.2225	0.2389	0.2263	Ave		0.2326			5.1		15.0				
1,4-Dioxane	0.0033 0.0040	0.0034 0.0042	0.0038 0.0041	0.0039	0.0038	Ave		0.0038			8.3		15.0				
Dibromomethane	0.1805 0.1582	0.1507 0.1647	0.1604 0.1553	0.1686	0.1549	Ave		0.1617			5.9		15.0				
Bromodichloromethane	0.3153 0.3201	0.2715 0.3410	0.2985 0.3224	0.3219	0.3048	Ave		0.3119			6.6		15.0				
2-Chloroethyl vinyl ether	0.1934 0.1850	0.1541 0.1958	0.1654 0.1892	0.1818	0.1717	Ave		0.1796			8.1		15.0				
cis-1,3-Dichloropropene	0.3912 0.3943	0.3545 0.4305	0.3698 0.4106	0.3974	0.3772	Ave		0.3907			6.1		15.0				
Methyl isobutyl ketone (MIBK)	0.2377 0.2211	0.2013 0.2240	0.2115 0.2004	0.2311	0.2140	Ave		0.2176			6.2		15.0				
Toluene	0.7712 0.7037	0.6836 0.7216	0.7136 0.6850	0.7358	0.7087	Ave		0.7154			4.0		15.0				
trans-1,3-Dichloropropene	0.3673 0.3569	0.3210 0.3832	0.3342 0.3706	0.3445	0.3342	Ave		0.3515			6.1		15.0				
Ethyl methacrylate	0.3483 0.3621	0.3042 0.3852	0.3378 0.3609	0.3588	0.3432	Ave		0.3501			6.7		15.0				
1,1,2-Trichloroethane	0.2243 0.2070	0.1914 0.2180	0.2149 0.2073	0.2159	0.2021	Ave		0.2101			4.9		15.0				
Tetrachloroethene	0.3607 0.3073	0.3088 0.3191	0.3218 0.3045	0.3270	0.3069	Ave		0.3195			5.8		15.0				
1,3-Dichloropropane	0.4705 0.4119	0.4053 0.4314	0.4095 0.4060	0.4308	0.3984	Ave		0.4205			5.6		15.0				

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 Savannah

Job No.: 680-110788-1

Analy Batch No.: 376722

SDG No.: _____

Instrument ID: CMSP2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 13:41

Calibration End Date: 03/30/2015 16:12

Calibration ID: 38292

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								
	LVL 6	LVL 7	LVL 8	LVL 5													
2-Hexanone	0.1697 0.1554	0.1405 0.1592	0.1511 0.1417	0.1653	0.1520	Ave		0.1543			6.7		15.0				
Dibromochloromethane	0.2943 0.3040	0.2541 0.3296	0.2660 0.3219	0.2939	0.2857	Ave		0.2937			8.7		15.0				
1,2-Dibromoethane	0.3202 0.2930	0.2650 0.3093	0.2865 0.2988	0.2960	0.2791	Ave		0.2935			5.9		15.0				
Chlorobenzene	2.2397 1.9516	1.9565 1.9980	2.0191 1.9189	2.0944	1.9790	Ave		2.0197		0.3000	5.1		15.0				
1,1,1,2-Tetrachloroethane	0.6888 0.6511	0.5543 0.6733	0.6147 0.6408	0.6687	0.6429	Ave		0.6418			6.6		15.0				
Ethylbenzene	3.5212 3.0989	3.0912 3.0721	3.2616 2.8631	3.3430	3.1728	Ave		3.1780			6.3		15.0				
m-Xylene & p-Xylene	2.8807 2.4891	2.5015 2.5165	2.5946 2.3677	2.6547	2.5246	Ave		2.5662			5.9		15.0				
o-Xylene	2.7771 2.5507	2.4276 2.5770	2.6330 2.4250	2.7306	2.6028	Ave		2.5905			4.9		15.0				
Styrene	2.4335 2.2137	2.0734 2.2222	2.2443 2.0772	2.3888	2.2542	Ave		2.2384			5.7		15.0				
Bromoform	0.5445 0.5803	0.4516 0.6301	0.4957 0.6266	0.5469	0.5408	Ave		0.5521		0.1000	11.0		15.0				
Isopropylbenzene	3.8024 3.4339	3.3872 3.4371	3.5447 3.2696	3.6636	3.5203	Ave		3.5074			4.8		15.0				
1,1,2,2-Tetrachloroethane	0.8270 0.7654	0.7345 0.7886	0.7644 0.7325	0.8347	0.7578	Ave		0.7756		0.3000	5.0		15.0				
Bromobenzene	1.1738 1.0146	1.0006 1.0334	1.0550 0.9836	1.1131	1.0379	Ave		1.0515			6.0		15.0				
trans-1,4-Dichloro-2-butene	0.1765 0.1891	0.1738 0.1965	0.1722 0.1849	0.1931	0.1887	Ave		0.1844			5.0		15.0				
1,2,3-Trichloropropane	1.1183 0.9749	0.9153 1.0001	0.9462 0.9469	1.0106	0.9612	Ave		0.9842			6.3		15.0				
N-Propylbenzene	4.4396 3.8041	3.7256 3.8036	4.1103 3.5796	4.2176	3.9632	Ave		3.9555			7.2		15.0				
2-Chlorotoluene	2.6854 2.2332	2.3184 2.2516	2.3543 2.1048	2.4654	2.2827	Ave		2.3370			7.5		15.0				
1,3,5-Trimethylbenzene	3.1973 2.8163	2.8043 2.8624	2.9485 2.7051	3.1052	2.8936	Ave		2.9166			5.6		15.0				
4-Chlorotoluene	3.1343 2.5660	2.6065 2.5571	2.7166 2.3524	2.8644	2.6444	Ave		2.6802			8.7		15.0				
tert-Butylbenzene	3.0476 2.6916	2.6399 2.7121	2.7572 2.5818	2.8958	2.7656	Ave		2.7614			5.4		15.0				

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 Savannah

Job No.: 680-110788-1

Analy Batch No.: 376722

SDG No.: _____

Instrument ID: CMSP2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 13:41

Calibration End Date: 03/30/2015 16:12

Calibration ID: 38292

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								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	3.2448 2.7913	2.7489 2.8554	2.9542 2.6970	3.0566	2.8537	Ave		2.9003			6.2		15.0				
sec-Butylbenzene	4.3490 3.9131	3.8238 3.8982	4.0911 3.6620	4.2480	4.0226	Ave		4.0010			5.6		15.0				
1,3-Dichlorobenzene	1.8113 1.5187	1.5453 1.5691	1.5602 1.4990	1.6369	1.5685	Ave		1.5886			6.2		15.0				
p-Isopropyltoluene	2.9997 2.7107	2.6433 2.7630	2.8202 2.6272	2.9393	2.8006	Ave		2.7880			4.7		15.0				
1,4-Dichlorobenzene	1.8783 1.4754	1.5027 1.5350	1.5595 1.4862	1.6112	1.5224	Ave		1.5713			8.4		15.0				
n-Butylbenzene	2.3659 2.2069	2.0675 2.2479	2.2112 2.1238	2.3055	2.2623	Ave		2.2239			4.3		15.0				
1,2-Dichlorobenzene	1.7170 1.4536	1.4267 1.4866	1.4722 1.3921	1.5475	1.4671	Ave		1.4954			6.7		15.0				
1,2-Dibromo-3-Chloropropane	0.1773 0.1820	0.1374 0.2009	0.1555 0.2061	0.1645	0.1691	Ave		0.1741			13.1		15.0				
1,2,4-Trichlorobenzene	1.2343 0.9885	0.9380 1.0703	0.9306 1.0764	1.0106	0.9675	Ave		1.0270			9.7		15.0				
Hexachlorobutadiene	++++ 0.6426	0.6455 0.6663	0.6458 0.6529	0.6755	0.6703	Ave		0.6570			2.0		15.0				
Naphthalene	++++ 1.5350	1.2837 1.6658	1.3458 1.7128	1.5141	1.4849	Ave		1.5060			10.3		15.0				
1,2,3-Trichlorobenzene	1.0238 0.8314	0.7477 0.8887	0.7894 0.8969	0.8658	0.8202	Ave		0.8580			9.8		15.0				
Dibromofluoromethane (Surr)	0.2634 0.2381	0.2242 0.2470	0.2376 0.2341	0.2501	0.2354	Ave		0.2412			5.0		15.0				
1,2-Dichloroethane-d4 (Surr)	0.3247 0.2532	0.2479 0.2620	0.2681 0.2427	0.2652	0.2474	Ave		0.2639			9.9		15.0				
Toluene-d8 (Surr)	2.8401 2.3747	2.4627 2.3891	2.4809 2.2815	2.5798	2.4298	Ave		2.4798			6.8		15.0				
4-Bromofluorobenzene (Surr)	1.0690 0.7700	0.7645 0.7980	0.7878 0.7604	0.8065	0.7860	Ave		0.8178			12.6		15.0				

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 Savannah Job No.: 680-110788-1 Analy Batch No.: 376722

SDG No.: _____

Instrument ID: CMSP2 GC Column: Rtx-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 13:41 Calibration End Date: 03/30/2015 16:12 Calibration ID: 38292

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-376722/4	PC3004Q.D
Level 2	IC 680-376722/5	PC3005Q.D
Level 3	IC 680-376722/6	PC3006Q.D
Level 4	IC 680-376722/7	PC3007Q.D
Level 5	IC 680-376722/8	PC3008Q.D
Level 6	ICIS 680-376722/9	PC3009Q.D
Level 7	IC 680-376722/10	PC3010Q.D
Level 8	IC 680-376722/11	PC3011Q.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
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	FB	Ave	2571 110734	4956 222315	11792 443287	23003	48538	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Chloromethane	FB	LinF	2266 87128	3761 181157	9386 369442	17854	36682	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	2247 97209	4241 193849	10816 383220	20706	42140	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Butadiene	FB	Ave	++++ 80066	3688 156715	9053 303592	16184	35349	++++ 50.0	2.00 100	5.00 200	10.0	20.0
Bromomethane	FB	Qua	++++ 56329	1673 96576	6878 ++++	11911	28453	++++ 50.0	2.00 100	5.00 ++++	10.0	20.0
Chloroethane	FB	Ave	1168 50069	1941 92083	6218 150644	11395	22319	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	3317 152676	5813 298412	17616 559935	33485	66700	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	3269 142459	5988 211532	16116 400437	32016	64678	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	1658 78764	3099 152322	8311 284586	16690	32471	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Acrolein	FB	QuaF	2278 125468	4534 251243	++++ 713474	19779	49213	20.0 1000	40.0 2000	++++ 4000	200	400
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2202 98232	4289 187748	11321 351938	21912	43428	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1-Dichloroethene	FB	Ave	2164 86629	4024 177263	10402 345643	19342	39606	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Acetone	FB	Ave	++++ 44179	2021 89792	4812 169760	10099	18785	++++ 250	10.0 500	25.0 1000	50.0	100
Iodomethane	FB	QuaF	++++ 114588	1852 259976	7410 521965	16132	39393	++++ 50.0	2.00 100	5.00 200	10.0	20.0
Carbon disulfide	FB	Ave	7285 269863	12533 529870	32026 988280	60010	120445	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 376722

SDG No.: _____

Instrument ID: CMS2 GC Column: Rtx-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 13:41 Calibration End Date: 03/30/2015 16:12 Calibration ID: 38292

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methyl acetate	FB	Ave	8290 330420	14581 642568	37037 1176993	72806	138514	5.00 250	10.0 500	25.0 1000	50.0	100
Allyl chloride	FB	Ave	1867 73872	3023 143666	8186 304169	16102	30383	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methylene Chloride	FB	Ave	2331 100841	4541 197818	11421 381331	22312	43858	1.00 50.0	2.00 100	5.00 200	10.0	20.0
tert-Butyl alcohol	FB	Ave	2114 103586	3907 210924	10353 422138	21417	42446	10.0 500	20.0 1000	50.0 2000	100	200
Acrylonitrile	FB	Ave	9076 378593	16348 733463	42283 1361798	82229	157163	10.0 500	20.0 1000	50.0 2000	100	200
Methyl tert-butyl ether	FB	Ave	7151 291516	12555 574712	32446 1049126	62569	121441	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	2479 95667	4390 184842	11576 345387	21524	42906	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Hexane	FB	Ave	++++ 144991	7174 279398	17718 543500	32009	63965	++++ 50.0	2.00 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	8546 342963	14772 679925	38899 1238060	75031	143084	2.00 100	4.00 200	10.0 400	20.0	40.0
1,1-Dichloroethane	FB	Ave	3795 151124	6819 298020	17892 562759	33787	67073	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methyl ethyl ketone (MEK)	FB	Ave	1624 68018	2753 138250	7347 265496	14742	28168	5.00 250	10.0 500	25.0 1000	50.0	100
cis-1,2-Dichloroethene	FB	Ave	3670 133826	6181 264052	15669 493662	29594	58400	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	2829 127112	5460 246074	14154 468324	27130	55017	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	1999 77864	3404 155265	8992 297269	16824	33136	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	++++ 54226	2471 106584	5861 200417	11965	22825	++++ 100	4.00 200	10.0 400	20.0	40.0
Chloroform	FB	Ave	3693 158762	6904 313292	18008 598679	34938	69649	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	3109 140418	5948 276370	15997 527376	29741	60324	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	3897 156141	7234 309217	17903 596504	34259	69346	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	3098 121561	5126 241057	14357 462281	26474	53277	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	2679 118909	4842 241160	12805 468858	24756	50635	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Isobutanol	FB	Ave	2249 101296	4053 209678	10434 412227	21477	42246	25.0 1250	50.0 2500	125 5000	250	500

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

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

Analy Batch No.: 376722

SDG No.: _____

Instrument ID: CMSP2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 13:41

Calibration End Date: 03/30/2015 16:12

Calibration ID: 38292

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	9546 395041	18444 791331	46215 1513743	87719	172287	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloroethane	FB	Ave	3018 124140	5419 242155	13936 455190	26919	52077	1.00 50.0	2.00 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	3917 148182	7211 291532	17876 553554	33089	67290	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	3274 126224	5931 254207	14028 498864	26568	53435	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	4920 210699	9221 417350	23529 805355	45849	93325	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	2262 93790	4083 188839	10596 352794	20361	40327	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,4-Dioxane	FB	Ave	577 32624	1282 65732	3488 128439	6712	13398	20.0 1000	40.0 2000	100 4000	200	400
Dibromomethane	FB	Ave	1601 64925	2827 129989	7312 246286	14369	27610	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromodichloromethane	FB	Ave	2797 131343	5094 269110	13609 511222	27437	54327	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	1716 75913	2891 154498	7543 299922	15499	30595	1.00 50.0	2.00 100	5.00 200	10.0	20.0
cis-1,3-Dichloropropene	FB	Ave	3470 161771	6650 339774	16860 650938	33874	67223	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methyl isobutyl ketone (MIBK)	FB	Ave	10542 453602	18880 884058	48208 1588609	98514	190691	5.00 250	10.0 500	25.0 1000	50.0	100
Toluene	FB	Ave	6841 288700	12825 569554	32536 1086106	62717	126317	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	FB	Ave	3258 146443	6023 302411	15237 587588	29366	59567	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethyl methacrylate	FB	Ave	3090 148548	5708 304026	15402 572240	30580	61173	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	FB	Ave	1990 84913	3590 172093	9797 328669	18407	36023	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Tetrachloroethene	FB	Ave	3200 126066	5794 251824	14672 482720	27874	54692	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Dichloropropane	FB	Ave	4174 168983	7604 340497	18671 643794	36720	71015	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Hexanone	FB	Ave	7528 318764	13178 628072	34443 1123286	70438	135437	5.00 250	10.0 500	25.0 1000	50.0	100
Dibromochloromethane	FB	Ave	2611 124744	4768 260177	12128 510377	25055	50923	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dibromoethane	FB	Ave	2840 120208	4971 244135	13064 473677	25233	49748	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

Analy Batch No.: 376722

SDG No.: _____

Instrument ID: CMSP2

GC Column: Rtx-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 13:41

Calibration End Date: 03/30/2015 16:12

Calibration ID: 38292

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBZ	Ave	8428 352675	15611 711450	39181 1371078	75990	151161	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	2592 117668	4423 239756	11928 457868	24261	49103	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethylbenzene	CBZ	Ave	13250 559998	24665 1093898	63291 2045741	121294	242349	1.00 50.0	2.00 100	5.00 200	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	10840 449802	19960 896057	50347 1691746	96319	192838	1.00 50.0	2.00 100	5.00 200	10.0	20.0
o-Xylene	CBZ	Ave	10450 460931	19370 917604	51092 1732653	99072	198812	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Styrene	CBZ	Ave	9157 400041	16544 791260	43550 1484210	86671	172180	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromoform	CBZ	Ave	2049 104864	3603 224378	9618 447677	19844	41307	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Isopropylbenzene	CBZ	Ave	14308 620531	27027 1223889	68784 2336164	132927	268892	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	3112 138323	5861 280797	14832 523377	30287	57885	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromobenzene	CBZ	Ave	4417 183342	7984 367980	20471 702768	40388	79275	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	CBZ	Ave	664 34181	1387 69972	3342 132131	7006	14412	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	CBZ	Ave	4208 176173	7303 356105	18360 676555	36667	73416	1.00 50.0	2.00 100	5.00 200	10.0	20.0
N-Propylbenzene	CBZ	Ave	16706 687439	29727 1354366	79759 2557666	153026	302723	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Chlorotoluene	CBZ	Ave	10105 403559	18499 801755	45685 1503893	89453	174362	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	CBZ	Ave	12031 508926	22376 1019238	57214 1932822	112666	221023	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Chlorotoluene	CBZ	Ave	11794 463700	20798 910530	52715 1680777	103930	201989	1.00 50.0	2.00 100	5.00 200	10.0	20.0
tert-Butylbenzene	CBZ	Ave	11468 486389	21064 965710	53503 1844683	105068	211247	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	CBZ	Ave	12210 504419	21934 1016747	57325 1927059	110903	217976	1.00 50.0	2.00 100	5.00 200	10.0	20.0
sec-Butylbenzene	CBZ	Ave	16365 707132	30511 1388076	79386 2616533	154128	307255	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	8899 343605	15836 691120	38762 1308986	76261	149330	1.00 50.0	2.00 100	5.00 200	10.0	20.0
p-Isopropyltoluene	DCB	Ave	14738 613318	27088 1217010	70064 2294129	136941	266631	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 376722

SDG No.: _____

Instrument ID: CMSP2 GC Column: Rtx-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 13:41 Calibration End Date: 03/30/2015 16:12 Calibration ID: 38292

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	9228 333809	15399 676123	38744 1297825	75065	144945	1.00 50.0	2.00 100	5.00 200	10.0	20.0
n-Butylbenzene	DCB	Ave	11624 499322	21187 990136	54933 1854604	107410	215382	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	8436 328877	14621 654816	36574 1215641	72096	139681	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	871 41167	1408 88499	3862 180014	7663	16099	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	6064 223644	9613 471412	23119 939966	47081	92112	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCB	Ave	++++ 145393	6615 293477	16043 570133	31470	63814	++++ 50.0	2.00 100	5.00 200	10.0	20.0
Naphthalene	DCB	Ave	++++ 347296	13155 733746	33435 1495653	70540	141376	++++ 50.0	2.00 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	5030 188102	7662 391448	19611 783161	40338	78089	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	2337 97704	4206 194963	10832 371182	21317	41960	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	2880 103886	4650 206777	12222 384780	22605	44100	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	10687 429138	19650 850704	48142 1630178	93601	185592	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCB	Ave	5252 174215	7834 351502	19572 663992	37575	74836	1.00 50.0	2.00 100	5.00 200	10.0	20.0

Curve Type Legend:

<p>Ave = Average ISTD LinF = Linear ISTD forced zero Qua = Quadratic ISTD QuaF = Quadratic ISTD forced zero</p>

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3004Q.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 30-Mar-2015 13:41:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018304-004
 Misc. Info.: IC
 Operator ID: MT Instrument ID: CMSP2
 Sublist: chrom-2014_MSP2*sub5
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 19:29:18 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: keimd

Date: 30-Mar-2015 19:27:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.191	1.185	0.006	67	2571	1.00	1.06	
3 Chloromethane	50	1.319	1.319	0.000	96	2266	1.00	1.11	
2 Vinyl chloride	62	1.356	1.350	0.006	96	2247	1.00	1.06	
4 Butadiene	54	1.374	1.368	0.006	96	1896	1.00	1.09	
5 Bromomethane	94	1.538	1.532	0.006	90	899	1.00	1.04	M
6 Chloroethane	64	1.599	1.587	0.012	97	1168	1.00	1.09	
7 Dichlorofluoromethane	67	1.709	1.703	0.006	98	3317	1.00	1.02	
8 Trichlorofluoromethane	101	1.739	1.733	0.006	94	3269	1.00	1.11	
10 Ethyl ether	59	1.897	1.897	0.000	90	1658	1.00	1.01	
13 Acrolein	56	1.988	1.989	0.000	92	2278	20.0	23.6	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.055	0.006	80	2202	1.00	1.03	
15 1,1-Dichloroethene	96	2.061	2.062	-0.001	96	2164	1.00	1.09	
16 Acetone	58	2.080	2.074	0.006	88	1542	5.00	7.95	
17 Iodomethane	142	2.177	2.171	0.006	90	1100	1.00	0.4223	
18 Carbon disulfide	76	2.232	2.232	0.000	98	7285	1.00	1.19	
20 Methyl acetate	43	2.280	2.274	0.006	97	8290	5.00	5.74	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	91	1867	1.00	1.15	
22 Methylene Chloride	84	2.390	2.384	0.006	83	2331	1.00	1.05	
23 2-Methyl-2-propanol	59	2.426	2.427	-0.001	98	2114	10.0	9.78	
26 Acrylonitrile	53	2.536	2.530	0.006	93	9076	10.0	11.1	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	7151	1.00	1.13	
25 trans-1,2-Dichloroethene	96	2.579	2.573	0.006	91	2479	1.00	1.15	
27 Hexane	57	2.761	2.755	0.006	89	4205	1.00	1.30	
30 Vinyl acetate	43	2.858	2.858	0.000	99	8546	2.00	2.28	
29 1,1-Dichloroethane	63	2.877	2.871	0.006	99	3795	1.00	1.12	
36 2-Butanone (MEK)	72	3.248	3.242	0.006	95	1624	5.00	5.50	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	98	3670	1.00	1.21	
34 2,2-Dichloropropane	77	3.272	3.272	0.000	94	2829	1.00	1.04	
38 Chlorobromomethane	130	3.436	3.436	0.000	79	1999	1.00	1.15	
39 Tetrahydrofuran	42	3.448	3.442	0.006	84	2178	2.00	3.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.497	3.497	0.000	98	3693	1.00	1.06	
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	91	2337	1.00	1.09	
43 1,1,1-Trichloroethane	97	3.631	3.631	0.000	98	3109	1.00	1.03	
42 Cyclohexane	84	3.686	3.686	0.000	86	3897	1.00	1.11	
47 1,1-Dichloropropene	75	3.740	3.734	0.006	95	3098	1.00	1.14	
45 Carbon tetrachloride	117	3.747	3.741	0.006	85	2679	1.00	1.05	
50 Isobutyl alcohol	43	3.771	3.771	0.000	93	2249	25.0	25.9	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.856	3.862	-0.006	94	2880	1.00	1.23	
51 Benzene	78	3.880	3.880	0.000	95	9546	1.00	1.08	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	96	3018	1.00	1.12	
54 n-Heptane	43	4.081	4.081	0.000	86	3917	1.00	1.15	
* 55 Fluorobenzene	96	4.087	4.093	-0.006	0	443539	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	92	3274	1.00	1.16	
59 Methylcyclohexane	83	4.531	4.531	0.000	94	4920	1.00	1.06	
60 1,2-Dichloropropane	63	4.544	4.544	0.000	91	2262	1.00	1.10	
62 1,4-Dioxane	88	4.610	4.598	0.012	31	577	20.0	17.1	
63 Dibromomethane	93	4.610	4.611	-0.001	87	1601	1.00	1.12	
64 Dichlorobromomethane	83	4.732	4.732	0.000	96	2797	1.00	1.01	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	1716	1.00	1.08	
67 cis-1,3-Dichloropropene	75	5.055	5.055	0.000	92	3470	1.00	1.00	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	93	10542	5.00	5.46	
\$ 69 Toluene-d8 (Surr)	98	5.261	5.268	-0.007	99	10687	1.00	1.15	
70 Toluene	92	5.316	5.316	0.000	91	6841	1.00	1.08	
71 trans-1,3-Dichloropropene	75	5.486	5.487	-0.001	93	3258	1.00	1.04	
72 Ethyl methacrylate	69	5.523	5.523	0.000	86	3090	1.00	1.00	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	94	1990	1.00	1.07	
74 Tetrachloroethene	164	5.712	5.718	-0.006	93	3200	1.00	1.13	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	90	4174	1.00	1.12	
77 2-Hexanone	43	5.797	5.791	0.006	93	7528	5.00	5.50	
78 Chlorodibromomethane	129	5.937	5.943	-0.006	95	2611	1.00	1.00	
79 Ethylene Dibromide	107	6.040	6.040	0.000	52	2840	1.00	1.09	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	188146	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	97	8428	1.00	1.11	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	90	2592	1.00	1.07	
83 Ethylbenzene	91	6.496	6.496	0.000	97	13250	1.00	1.11	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	91	10840	1.00	1.12	
87 o-Xylene	91	6.916	6.916	0.000	94	10450	1.00	1.07	
88 Styrene	104	6.928	6.928	0.000	97	9157	1.00	1.09	
89 Bromoform	173	7.080	7.080	0.000	97	2049	1.00	0.9864	
90 Isopropylbenzene	105	7.208	7.214	-0.006	94	14308	1.00	1.08	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	86	5252	1.00	1.31	
94 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	96	3112	1.00	1.07	
93 Bromobenzene	156	7.476	7.470	0.006	89	4417	1.00	1.12	
97 trans-1,4-Dichloro-2-buten	53	7.488	7.494	-0.006	86	664	1.00	0.9571	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	93	4208	1.00	1.14	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	16706	1.00	1.12	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	10105	1.00	1.15	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	93	12031	1.00	1.10	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	11794	1.00	1.17	
103 tert-Butylbenzene	119	7.969	7.963	0.006	96	11468	1.00	1.10	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	12210	1.00	1.12	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	16365	1.00	1.09	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 1,3-Dichlorobenzene	146	8.248	8.249	0.000	99	8899	1.00	1.14	
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	14738	1.00	1.08	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	97	245654	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	95	9228	1.00	1.20	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	11624	1.00	1.06	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	8436	1.00	1.15	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.283	0.006	83	871	1.00	1.02	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	92	6064	1.00	1.20	
118 Hexachlorobutadiene	225	10.098	10.092	0.006	97	3731	1.00	1.16	
119 Naphthalene	128	10.195	10.189	0.006	99	8101	1.00	1.09	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	94	5030	1.00	1.19	
S 122 1,2-Dichloroethene, Total	1				0		2.00	2.36	
S 123 Xylenes, Total	1				0		2.00	2.19	
S 124 1,3-Dichloropropene, Total	1				0		2.00	2.05	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VM_Acrolein_00033

Amount Added: 0.10

Units: uL

VM_MMIX_01723

Amount Added: 0.10

Units: uL

DOD ISTD_00034

Amount Added: 5.00

Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3004Q.D

Injection Date: 30-Mar-2015 13:41:30

Instrument ID: CMSP2

Operator ID: MT

Lims ID: IC

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL/100g

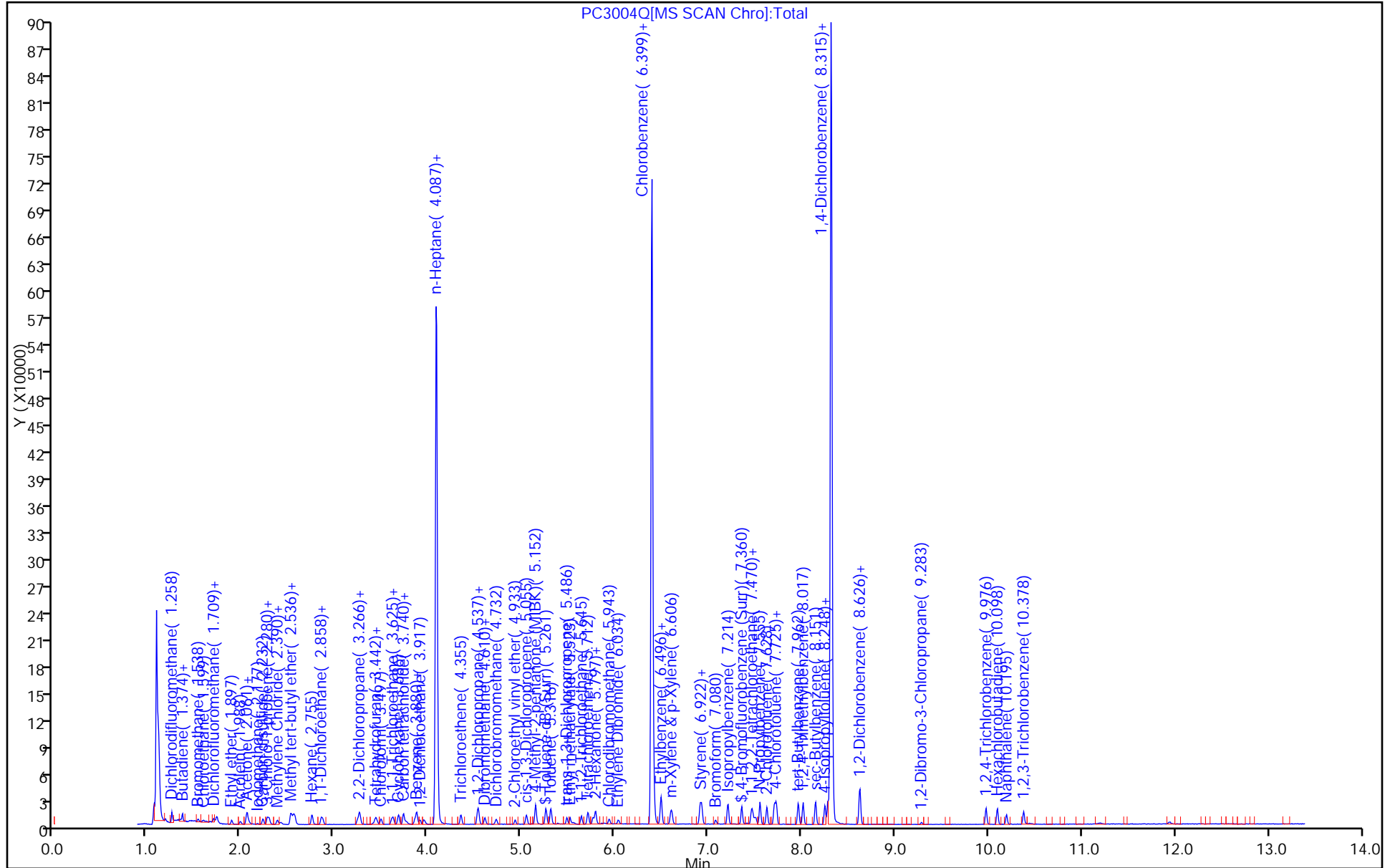
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



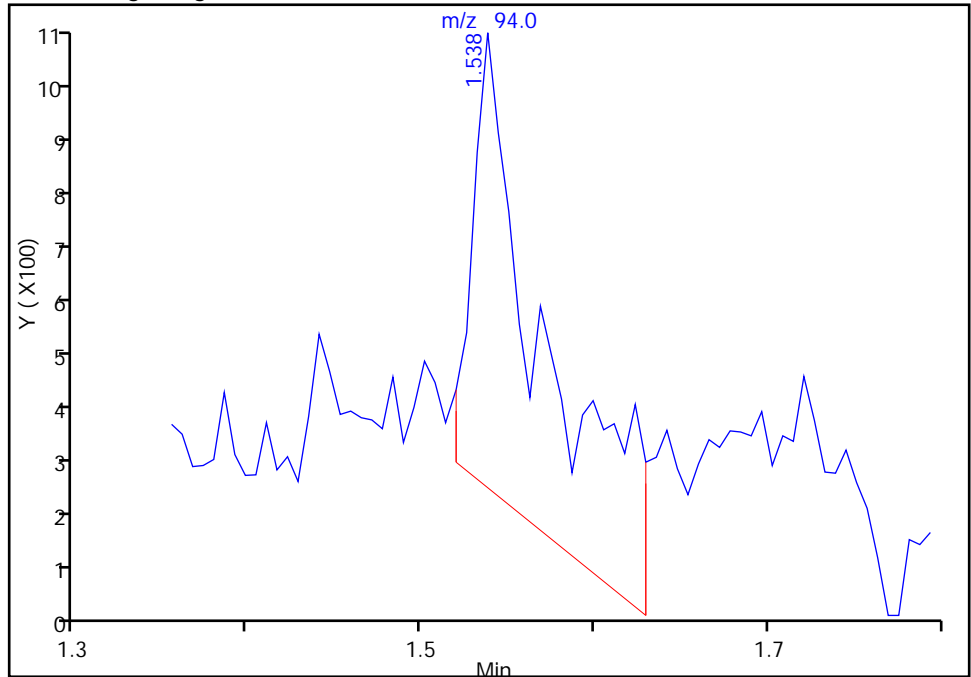
TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3004Q.D
Injection Date: 30-Mar-2015 13:41:30 Instrument ID: CMSP2
Lims ID: IC
Client ID:
Operator ID: MT ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
Method: 2014_MSP2 Limit Group: 8260B
Column: Rtx-624 (0.18 mm) Detector: MS SCAN

5 Bromomethane, CAS: 74-83-9

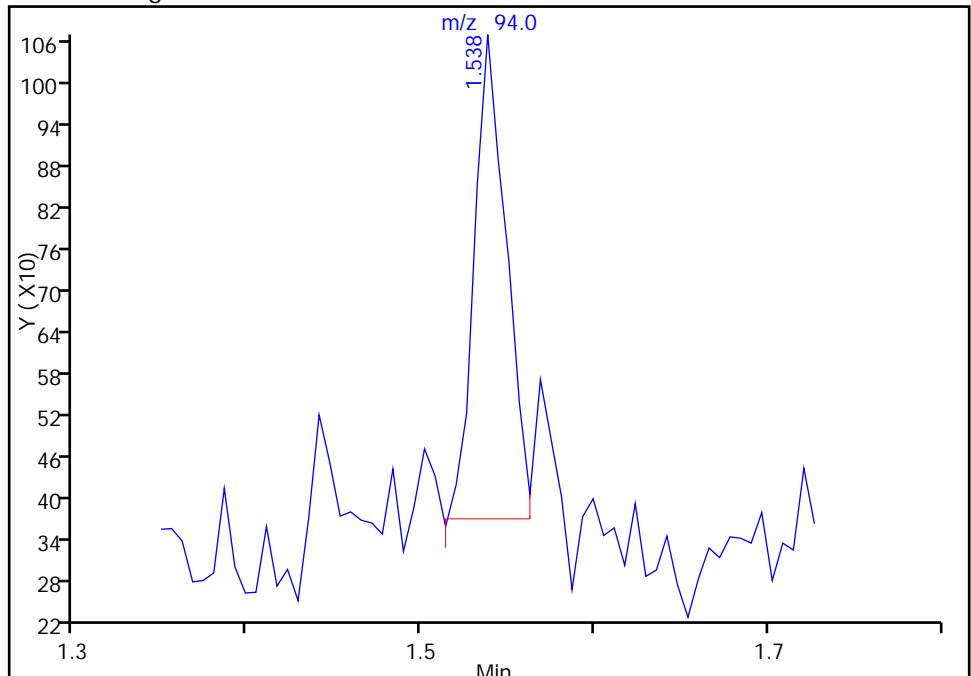
RT: 1.54
Area: 2488
Amount: 2.072366
Amount Units: ug/l

Processing Integration Results



RT: 1.54
Area: 899
Amount: 1.038985
Amount Units: ug/l

Manual Integration Results



Reviewer: keimd, 30-Mar-2015 19:27:46
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3005Q.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 30-Mar-2015 14:03:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018304-005
 Misc. Info.: IC
 Operator ID: MT Instrument ID: CMSP2
 Sublist: chrom-2014_MSP2*sub5
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 19:29:20 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: tippinsm

Date: 30-Mar-2015 15:54:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.191	1.185	0.006	97	4956	2.00	1.93	
3 Chloromethane	50	1.319	1.319	0.000	98	3761	2.00	1.73	
2 Vinyl chloride	62	1.350	1.350	0.000	98	4241	2.00	1.88	
4 Butadiene	54	1.368	1.368	0.000	96	3688	2.00	2.01	
5 Bromomethane	94	1.538	1.532	0.006	95	1673	2.00	1.53	
6 Chloroethane	64	1.593	1.587	0.006	98	1941	2.00	1.72	
7 Dichlorofluoromethane	67	1.709	1.703	0.006	100	5813	2.00	1.69	
8 Trichlorofluoromethane	101	1.739	1.733	0.006	97	5988	2.00	1.93	
10 Ethyl ether	59	1.897	1.897	0.000	92	3099	2.00	1.79	
13 Acrolein	56	1.995	1.989	0.006	93	4534	40.0	44.1	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.055	0.006	90	4289	2.00	1.90	
15 1,1-Dichloroethene	96	2.061	2.062	-0.001	95	4024	2.00	1.92	
16 Acetone	58	2.080	2.074	0.006	88	2021	10.0	9.85	
17 Iodomethane	142	2.177	2.171	0.006	96	1852	2.00	0.6722	
18 Carbon disulfide	76	2.232	2.232	0.000	98	12533	2.00	1.93	
20 Methyl acetate	43	2.280	2.274	0.006	98	14581	10.0	9.54	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	91	3023	2.00	1.76	
22 Methylene Chloride	84	2.390	2.384	0.006	85	4541	2.00	1.94	
23 2-Methyl-2-propanol	59	2.426	2.427	-0.001	99	3907	20.0	17.1	
26 Acrylonitrile	53	2.530	2.530	0.000	93	16348	20.0	18.9	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	12555	2.00	1.88	
25 trans-1,2-Dichloroethene	96	2.579	2.573	0.006	88	4390	2.00	1.92	
27 Hexane	57	2.761	2.755	0.006	91	7174	2.00	2.09	
30 Vinyl acetate	43	2.858	2.858	0.000	99	14772	4.00	3.72	
29 1,1-Dichloroethane	63	2.877	2.871	0.006	99	6819	2.00	1.90	
36 2-Butanone (MEK)	72	3.248	3.242	0.006	96	2753	10.0	8.82	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	97	6181	2.00	1.93	
34 2,2-Dichloropropane	77	3.272	3.272	0.000	94	5460	2.00	1.89	
38 Chlorobromomethane	130	3.442	3.436	0.006	74	3404	2.00	1.86	
39 Tetrahydrofuran	42	3.448	3.442	0.006	87	2471	4.00	4.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.497	3.497	0.000	99	6904	2.00	1.87	
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	95	4206	2.00	1.86	
43 1,1,1-Trichloroethane	97	3.631	3.631	0.000	97	5948	2.00	1.86	
42 Cyclohexane	84	3.686	3.686	0.000	86	7234	2.00	1.95	
47 1,1-Dichloropropene	75	3.740	3.734	0.006	94	5126	2.00	1.79	
45 Carbon tetrachloride	117	3.740	3.741	-0.001	96	4842	2.00	1.79	
50 Isobutyl alcohol	43	3.771	3.771	0.000	96	4053	50.0	44.1	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	93	4650	2.00	1.88	
51 Benzene	78	3.880	3.880	0.000	93	18444	2.00	1.97	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	97	5419	2.00	1.89	
54 n-Heptane	43	4.081	4.081	0.000	37	7211	2.00	2.01	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	469026	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	91	5931	2.00	1.98	
59 Methylcyclohexane	83	4.531	4.531	0.000	92	9221	2.00	1.88	
60 1,2-Dichloropropane	63	4.544	4.544	0.000	88	4083	2.00	1.87	
62 1,4-Dioxane	88	4.617	4.598	0.019	1	1282	40.0	36.0	
63 Dibromomethane	93	4.610	4.611	-0.001	88	2827	2.00	1.86	
64 Dichlorobromomethane	83	4.732	4.732	0.000	96	5094	2.00	1.74	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	2891	2.00	1.72	
67 cis-1,3-Dichloropropene	75	5.061	5.055	0.006	89	6650	2.00	1.81	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	93	18880	10.0	9.25	
\$ 69 Toluene-d8 (Surr)	98	5.267	5.268	-0.001	98	19650	2.00	1.99	
70 Toluene	92	5.316	5.316	0.000	92	12825	2.00	1.91	
71 trans-1,3-Dichloropropene	75	5.486	5.487	-0.001	94	6023	2.00	1.83	
72 Ethyl methacrylate	69	5.523	5.523	0.000	87	5708	2.00	1.74	
73 1,1,2-Trichloroethane	83	5.639	5.645	-0.006	95	3590	2.00	1.82	
74 Tetrachloroethene	164	5.712	5.718	-0.006	93	5794	2.00	1.93	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	91	7604	2.00	1.93	
77 2-Hexanone	43	5.797	5.791	0.006	95	13178	10.0	9.10	
78 Chlorodibromomethane	129	5.943	5.943	0.000	97	4768	2.00	1.73	
79 Ethylene Dibromide	107	6.040	6.040	0.000	98	4971	2.00	1.81	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	199479	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	97	15611	2.00	1.94	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	93	4423	2.00	1.73	
83 Ethylbenzene	91	6.496	6.496	0.000	97	24665	2.00	1.95	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	90	19960	2.00	1.95	
87 o-Xylene	91	6.916	6.916	0.000	95	19370	2.00	1.87	
88 Styrene	104	6.934	6.928	0.006	97	16544	2.00	1.85	
89 Bromoform	173	7.080	7.080	0.000	98	3603	2.00	1.64	
90 Isopropylbenzene	105	7.214	7.214	0.000	94	27027	2.00	1.93	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	84	7834	2.00	1.87	
94 1,1,2,2-Tetrachloroethane	83	7.464	7.458	0.006	96	5861	2.00	1.89	
93 Bromobenzene	156	7.476	7.470	0.006	88	7984	2.00	1.90	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.494	0.000	72	1387	2.00	1.89	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	96	7303	2.00	1.86	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	29727	2.00	1.88	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	18499	2.00	1.98	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	94	22376	2.00	1.92	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	20798	2.00	1.95	
103 tert-Butylbenzene	119	7.962	7.963	-0.001	95	21064	2.00	1.91	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	21934	2.00	1.90	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	30511	2.00	1.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 1,3-Dichlorobenzene	146	8.248	8.249	0.000	99	15836	2.00	1.95	
107 4-Isopropyltoluene	119	8.279	8.279	0.000	99	27088	2.00	1.90	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	97	256197	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	95	15399	2.00	1.91	
113 n-Butylbenzene	91	8.620	8.620	0.000	97	21187	2.00	1.86	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	14621	2.00	1.91	
115 1,2-Dibromo-3-Chloropropan	157	9.283	9.283	0.000	86	1408	2.00	1.58	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	9613	2.00	1.83	
118 Hexachlorobutadiene	225	10.098	10.092	0.006	98	6615	2.00	1.97	
119 Naphthalene	128	10.195	10.189	0.006	99	13155	2.00	1.70	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	7662	2.00	1.74	
S 122 1,2-Dichloroethene, Total	1				0		4.00	3.85	
S 123 Xylenes, Total	1				0		4.00	3.82	
S 124 1,3-Dichloropropene, Total	1				0		4.00	3.64	

Reagents:

VM_Acrolein_00033	Amount Added: 0.20	Units: uL
VM_MMIX_01723	Amount Added: 0.20	Units: uL
DOD ISTD_00034	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3005Q.D

Injection Date: 30-Mar-2015 14:03:30

Instrument ID: CMSP2

Operator ID: MT

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL/100g

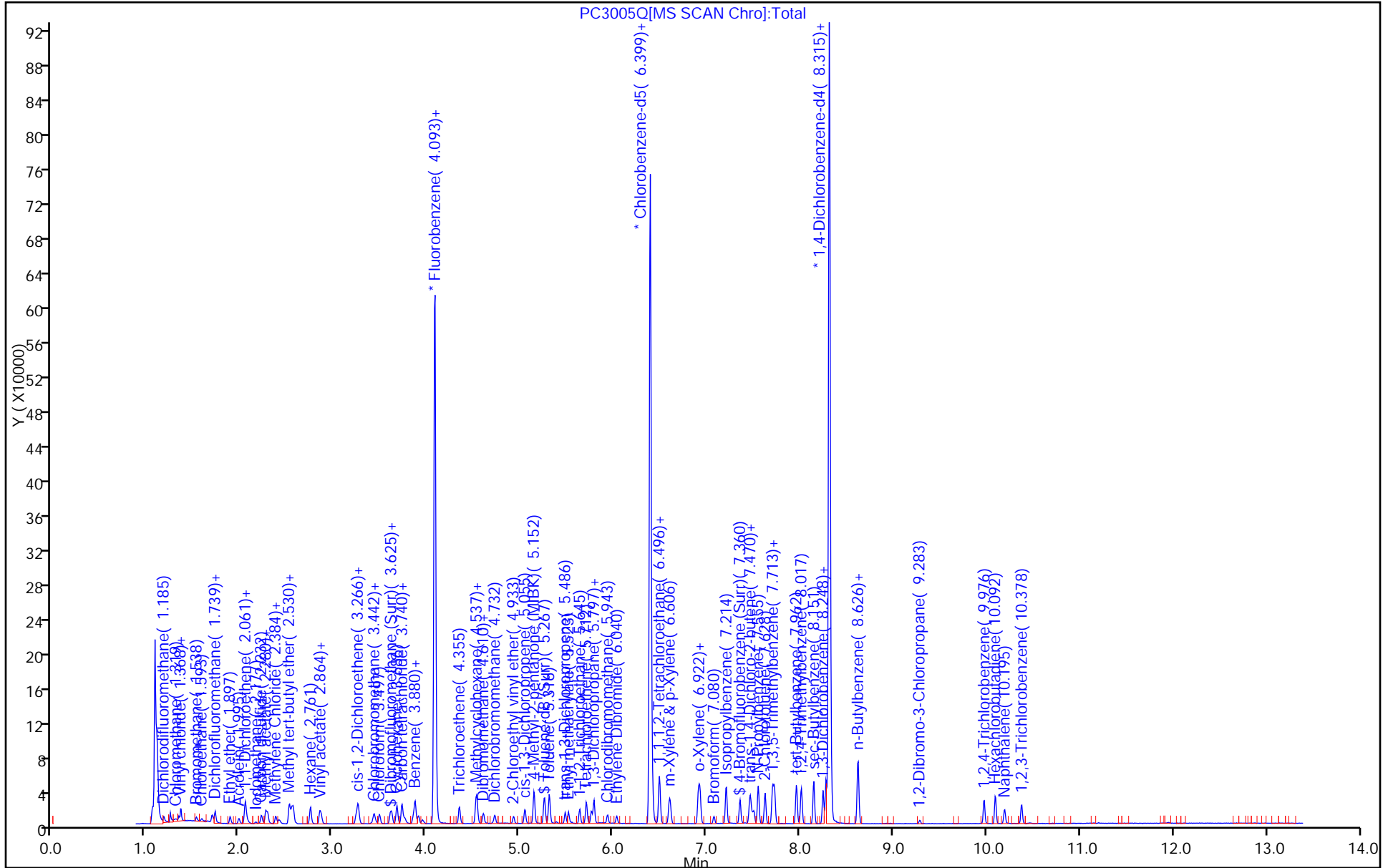
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3006Q.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 30-Mar-2015 14:24:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018304-006
 Misc. Info.: IC
 Operator ID: MT Instrument ID: CMSP2
 Sublist: chrom-2014_MSP2*sub5
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 19:29:21 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: tippinsm

Date: 30-Mar-2015 15:54:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.191	1.185	0.006	99	11792	5.00	4.73	
3 Chloromethane	50	1.319	1.319	0.000	98	9386	5.00	4.45	
2 Vinyl chloride	62	1.350	1.350	0.000	97	10816	5.00	4.94	
4 Butadiene	54	1.368	1.368	0.000	94	9053	5.00	5.08	
5 Bromomethane	94	1.538	1.532	0.006	99	6878	5.00	5.21	
6 Chloroethane	64	1.593	1.587	0.006	97	6218	5.00	5.66	
7 Dichlorofluoromethane	67	1.702	1.703	-0.001	100	17616	5.00	5.26	
8 Trichlorofluoromethane	101	1.739	1.733	0.006	97	16116	5.00	5.34	
10 Ethyl ether	59	1.897	1.897	0.000	94	8311	5.00	4.94	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.055	0.006	94	11321	5.00	5.16	
15 1,1-Dichloroethene	96	2.061	2.062	-0.001	95	10402	5.00	5.10	
16 Acetone	58	2.073	2.074	-0.001	87	4812	25.0	24.1	
17 Iodomethane	142	2.177	2.171	0.006	96	7410	5.00	2.76	
18 Carbon disulfide	76	2.232	2.232	0.000	98	32026	5.00	5.09	
20 Methyl acetate	43	2.280	2.274	0.006	98	37037	25.0	24.9	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	92	8186	5.00	4.90	
22 Methylene Chloride	84	2.390	2.384	0.006	82	11421	5.00	5.01	
23 2-Methyl-2-propanol	59	2.426	2.427	-0.001	99	10353	50.0	46.6	
26 Acrylonitrile	53	2.530	2.530	0.000	94	42283	50.0	50.3	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	32446	5.00	4.99	
25 trans-1,2-Dichloroethene	96	2.578	2.573	0.005	90	11576	5.00	5.22	
27 Hexane	57	2.761	2.755	0.006	91	17718	5.00	5.32	
30 Vinyl acetate	43	2.858	2.858	0.000	99	38899	10.0	10.1	
29 1,1-Dichloroethane	63	2.876	2.871	0.005	99	17892	5.00	5.13	
36 2-Butanone (MEK)	72	3.242	3.242	0.000	99	7347	25.0	24.2	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	99	15669	5.00	5.03	
34 2,2-Dichloropropane	77	3.272	3.272	0.000	94	14154	5.00	5.04	
38 Chlorobromomethane	130	3.436	3.436	0.000	78	8992	5.00	5.05	
39 Tetrahydrofuran	42	3.448	3.442	0.006	87	5861	10.0	9.76	
41 Chloroform	83	3.497	3.497	0.000	100	18008	5.00	5.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	10832	5.00	4.92	
43 1,1,1-Trichloroethane	97	3.625	3.631	-0.006	97	15997	5.00	5.14	
42 Cyclohexane	84	3.686	3.686	0.000	87	17903	5.00	4.97	
47 1,1-Dichloropropene	75	3.740	3.734	0.006	96	14357	5.00	5.16	
45 Carbon tetrachloride	117	3.740	3.741	-0.001	96	12805	5.00	4.87	
50 Isobutyl alcohol	43	3.765	3.771	-0.006	96	10434	125.0	116.8	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	95	12222	5.00	5.08	
51 Benzene	78	3.880	3.880	0.000	94	46215	5.00	5.08	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	13936	5.00	5.01	
54 n-Heptane	43	4.081	4.081	0.000	83	17876	5.00	5.12	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	455951	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	14028	5.00	4.83	
59 Methylcyclohexane	83	4.531	4.531	0.000	94	23529	5.00	4.95	
60 1,2-Dichloropropane	63	4.543	4.544	-0.001	93	10596	5.00	5.00	
62 1,4-Dioxane	88	4.598	4.598	0.000	39	3488	100.0	100.7	
63 Dibromomethane	93	4.610	4.611	-0.001	87	7312	5.00	4.96	
64 Dichlorobromomethane	83	4.732	4.732	0.000	98	13609	5.00	4.78	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	7543	5.00	4.61	
67 cis-1,3-Dichloropropene	75	5.054	5.055	-0.001	90	16860	5.00	4.73	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	92	48208	25.0	24.3	
\$ 69 Toluene-d8 (Surr)	98	5.267	5.268	-0.001	100	48142	5.00	5.00	
70 Toluene	92	5.316	5.316	0.000	93	32536	5.00	4.99	
71 trans-1,3-Dichloropropene	75	5.486	5.487	-0.001	95	15237	5.00	4.75	
72 Ethyl methacrylate	69	5.523	5.523	0.000	85	15402	5.00	4.82	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	96	9797	5.00	5.11	
74 Tetrachloroethene	164	5.718	5.718	0.000	94	14672	5.00	5.04	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	92	18671	5.00	4.87	
77 2-Hexanone	43	5.797	5.791	0.006	92	34443	25.0	24.5	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	12128	5.00	4.53	
79 Ethylene Dibromide	107	6.040	6.040	0.000	98	13064	5.00	4.88	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	194047	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	98	39181	5.00	5.00	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	93	11928	5.00	4.79	
83 Ethylbenzene	91	6.496	6.496	0.000	97	63291	5.00	5.13	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	90	50347	5.00	5.06	
87 o-Xylene	91	6.916	6.916	0.000	95	51092	5.00	5.08	
88 Styrene	104	6.934	6.928	0.006	97	43550	5.00	5.01	
89 Bromoform	173	7.080	7.080	0.000	98	9618	5.00	4.49	
90 Isopropylbenzene	105	7.214	7.214	0.000	95	68784	5.00	5.05	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	85	19572	5.00	4.82	
94 1,1,2,2-Tetrachloroethane	83	7.457	7.458	-0.001	96	14832	5.00	4.93	
93 Bromobenzene	156	7.476	7.470	0.006	88	20471	5.00	5.02	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.494	0.000	79	3342	5.00	4.67	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	96	18360	5.00	4.81	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	79759	5.00	5.20	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	45685	5.00	5.04	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	94	57214	5.00	5.05	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	52715	5.00	5.07	
103 tert-Butylbenzene	119	7.962	7.963	-0.001	96	53503	5.00	4.99	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	57325	5.00	5.09	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	79386	5.00	5.11	
109 1,3-Dichlorobenzene	146	8.248	8.249	0.000	99	38762	5.00	4.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	70064	5.00	5.06	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	96	248435	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	97	38744	5.00	4.96	
113 n-Butylbenzene	91	8.619	8.620	-0.001	97	54933	5.00	4.97	
114 1,2-Dichlorobenzene	146	8.625	8.626	-0.001	99	36574	5.00	4.92	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.283	0.006	87	3862	5.00	4.46	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	23119	5.00	4.53	
118 Hexachlorobutadiene	225	10.098	10.092	0.006	99	16043	5.00	4.91	
119 Naphthalene	128	10.195	10.189	0.006	99	33435	5.00	4.47	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	19611	5.00	4.60	
S 122 1,2-Dichloroethene, Total	1				0		10.0	10.2	
S 123 Xylenes, Total	1				0		10.0	10.1	
S 124 1,3-Dichloropropene, Total	1				0		10.0	9.49	

Reagents:

VM_Acrolein_00033	Amount Added: 0.50	Units: uL
VM_MMIX_01723	Amount Added: 0.50	Units: uL
DOD ISTD_00034	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3006Q.D

Injection Date: 30-Mar-2015 14:24:30

Instrument ID: CMSP2

Operator ID: MT

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL/100g

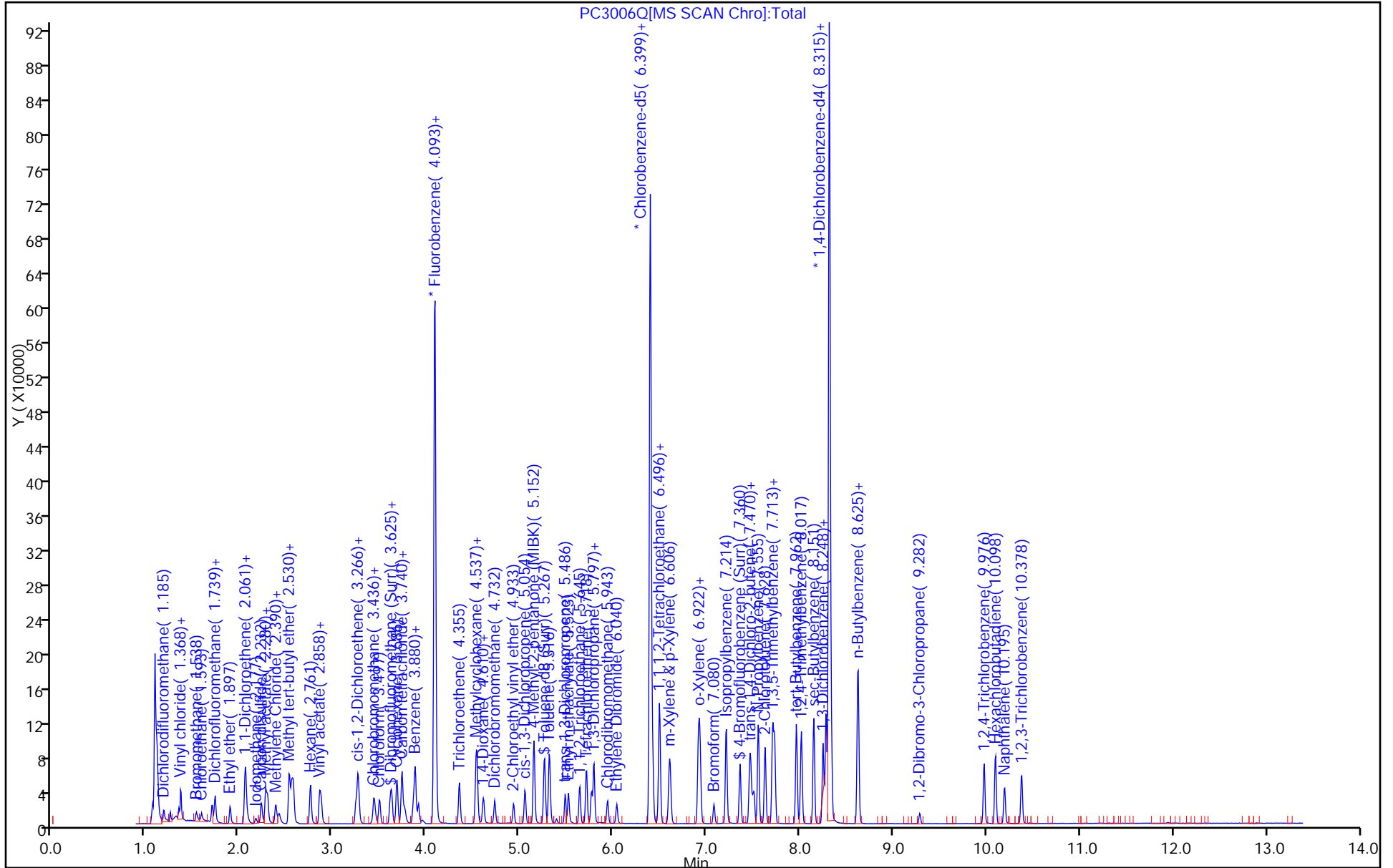
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3007Q.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 30-Mar-2015 14:46:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018304-007
 Misc. Info.: IC
 Operator ID: MT Instrument ID: CMSP2
 Sublist: chrom-2014_MSP2*sub5
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 19:29:23 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: tippinsm

Date: 30-Mar-2015 15:55:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	98	23003	10.0	9.88	
3 Chloromethane	50	1.319	1.319	0.000	99	17854	10.0	9.06	
2 Vinyl chloride	62	1.350	1.350	0.000	98	20706	10.0	10.1	
4 Butadiene	54	1.368	1.368	0.000	95	16184	10.0	9.71	
5 Bromomethane	94	1.538	1.532	0.006	99	11911	10.0	9.40	
6 Chloroethane	64	1.593	1.587	0.006	99	11395	10.0	11.1	
7 Dichlorofluoromethane	67	1.702	1.703	-0.001	100	33485	10.0	10.7	
8 Trichlorofluoromethane	101	1.739	1.733	0.006	98	32016	10.0	11.3	
10 Ethyl ether	59	1.897	1.897	0.000	94	16690	10.0	10.6	
13 Acrolein	56	1.988	1.989	0.000	95	19779	200.0	203.1	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.055	0.006	93	21912	10.0	10.7	
15 1,1-Dichloroethene	96	2.061	2.062	-0.001	95	19342	10.0	10.1	
16 Acetone	58	2.074	2.074	0.000	87	10099	50.0	54.2	
17 Iodomethane	142	2.177	2.171	0.006	95	16132	10.0	6.42	
18 Carbon disulfide	76	2.232	2.232	0.000	98	60010	10.0	10.2	
20 Methyl acetate	43	2.280	2.274	0.006	97	72806	50.0	52.4	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	92	16102	10.0	10.3	
22 Methylene Chloride	84	2.390	2.384	0.006	83	22312	10.0	10.5	
23 2-Methyl-2-propanol	59	2.426	2.427	-0.001	99	21417	100.0	103.1	
26 Acrylonitrile	53	2.530	2.530	0.000	94	82229	100.0	104.6	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	97	62569	10.0	10.3	
25 trans-1,2-Dichloroethene	96	2.578	2.573	0.005	89	21524	10.0	10.4	
27 Hexane	57	2.761	2.755	0.006	90	32009	10.0	10.3	
30 Vinyl acetate	43	2.858	2.858	0.000	99	75031	20.0	20.8	
29 1,1-Dichloroethane	63	2.870	2.871	-0.001	99	33787	10.0	10.4	
36 2-Butanone (MEK)	72	3.248	3.242	0.006	98	14742	50.0	52.0	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	98	29594	10.0	10.2	
34 2,2-Dichloropropane	77	3.272	3.272	0.000	95	27130	10.0	10.3	
38 Chlorobromomethane	130	3.436	3.436	0.000	79	16824	10.0	10.1	
39 Tetrahydrofuran	42	3.448	3.442	0.006	88	11965	20.0	21.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.497	3.497	0.000	99	34938	10.0	10.4	
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	21317	10.0	10.4	
43 1,1,1-Trichloroethane	97	3.625	3.631	-0.006	97	29741	10.0	10.2	
42 Cyclohexane	84	3.686	3.686	0.000	87	34259	10.0	10.2	
47 1,1-Dichloropropene	75	3.734	3.734	0.000	97	26474	10.0	10.2	
45 Carbon tetrachloride	117	3.740	3.741	-0.001	97	24756	10.0	10.1	
50 Isobutyl alcohol	43	3.765	3.771	-0.006	98	21477	250.0	257.1	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	94	22605	10.0	10.0	
51 Benzene	78	3.880	3.880	0.000	95	87719	10.0	10.3	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	26919	10.0	10.4	
54 n-Heptane	43	4.081	4.081	0.000	85	33089	10.0	10.1	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	426195	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	26568	10.0	9.78	
59 Methylcyclohexane	83	4.531	4.531	0.000	93	45849	10.0	10.3	
60 1,2-Dichloropropane	63	4.543	4.544	-0.001	92	20361	10.0	10.3	
62 1,4-Dioxane	88	4.604	4.598	0.006	29	6712	200.0	207.4	
63 Dibromomethane	93	4.610	4.611	-0.001	87	14369	10.0	10.4	
64 Dichlorobromomethane	83	4.732	4.732	0.000	98	27437	10.0	10.3	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	15499	10.0	10.1	
67 cis-1,3-Dichloropropene	75	5.054	5.055	-0.001	90	33874	10.0	10.2	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	92	98514	50.0	53.1	
\$ 69 Toluene-d8 (Surr)	98	5.267	5.268	-0.001	99	93601	10.0	10.4	
70 Toluene	92	5.316	5.316	0.000	93	62717	10.0	10.3	
71 trans-1,3-Dichloropropene	75	5.486	5.487	-0.001	94	29366	10.0	9.80	
72 Ethyl methacrylate	69	5.523	5.523	0.000	86	30580	10.0	10.2	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	95	18407	10.0	10.3	
74 Tetrachloroethene	164	5.718	5.718	0.000	93	27874	10.0	10.2	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	91	36720	10.0	10.2	
77 2-Hexanone	43	5.797	5.791	0.006	92	70438	50.0	53.5	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	25055	10.0	10.0	
79 Ethylene Dibromide	107	6.040	6.040	0.000	99	25233	10.0	10.1	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	181414	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	98	75990	10.0	10.4	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	94	24261	10.0	10.4	
83 Ethylbenzene	91	6.496	6.496	0.000	98	121294	10.0	10.5	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	91	96319	10.0	10.3	
87 o-Xylene	91	6.916	6.916	0.000	95	99072	10.0	10.5	
88 Styrene	104	6.928	6.928	0.000	98	86671	10.0	10.7	
89 Bromoform	173	7.080	7.080	0.000	99	19844	10.0	9.91	
90 Isopropylbenzene	105	7.214	7.214	0.000	95	132927	10.0	10.4	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	86	37575	10.0	9.86	
94 1,1,2,2-Tetrachloroethane	83	7.457	7.458	-0.001	97	30287	10.0	10.8	
93 Bromobenzene	156	7.470	7.470	0.000	87	40388	10.0	10.6	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.494	0.000	89	7006	10.0	10.5	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	97	36667	10.0	10.3	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	153026	10.0	10.7	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	89453	10.0	10.5	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	93	112666	10.0	10.6	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	103930	10.0	10.7	
103 tert-Butylbenzene	119	7.962	7.963	-0.001	96	105068	10.0	10.5	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	110903	10.0	10.5	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	154128	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 1,3-Dichlorobenzene	146	8.248	8.249	0.000	99	76261	10.0	10.3	
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	136941	10.0	10.5	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	96	232947	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	96	75065	10.0	10.3	
113 n-Butylbenzene	91	8.619	8.620	-0.001	98	107410	10.0	10.4	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	72096	10.0	10.3	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.283	0.006	90	7663	10.0	9.45	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	47081	10.0	9.84	
118 Hexachlorobutadiene	225	10.098	10.092	0.006	98	31470	10.0	10.3	
119 Naphthalene	128	10.189	10.189	0.000	99	70540	10.0	10.1	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	40338	10.0	10.1	
S 122 1,2-Dichloroethene, Total	1				0		20.0	20.5	
S 123 Xylenes, Total	1				0		20.0	20.9	
S 124 1,3-Dichloropropene, Total	1				0		20.0	20.0	

Reagents:

VM_Acrolein_00033	Amount Added: 1.00	Units: uL
VM_MMIX_01723	Amount Added: 1.00	Units: uL
DOD ISTD_00034	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3007Q.D

Injection Date: 30-Mar-2015 14:46:30

Instrument ID: CMSP2

Operator ID: MT

Lims ID: IC

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL/100g

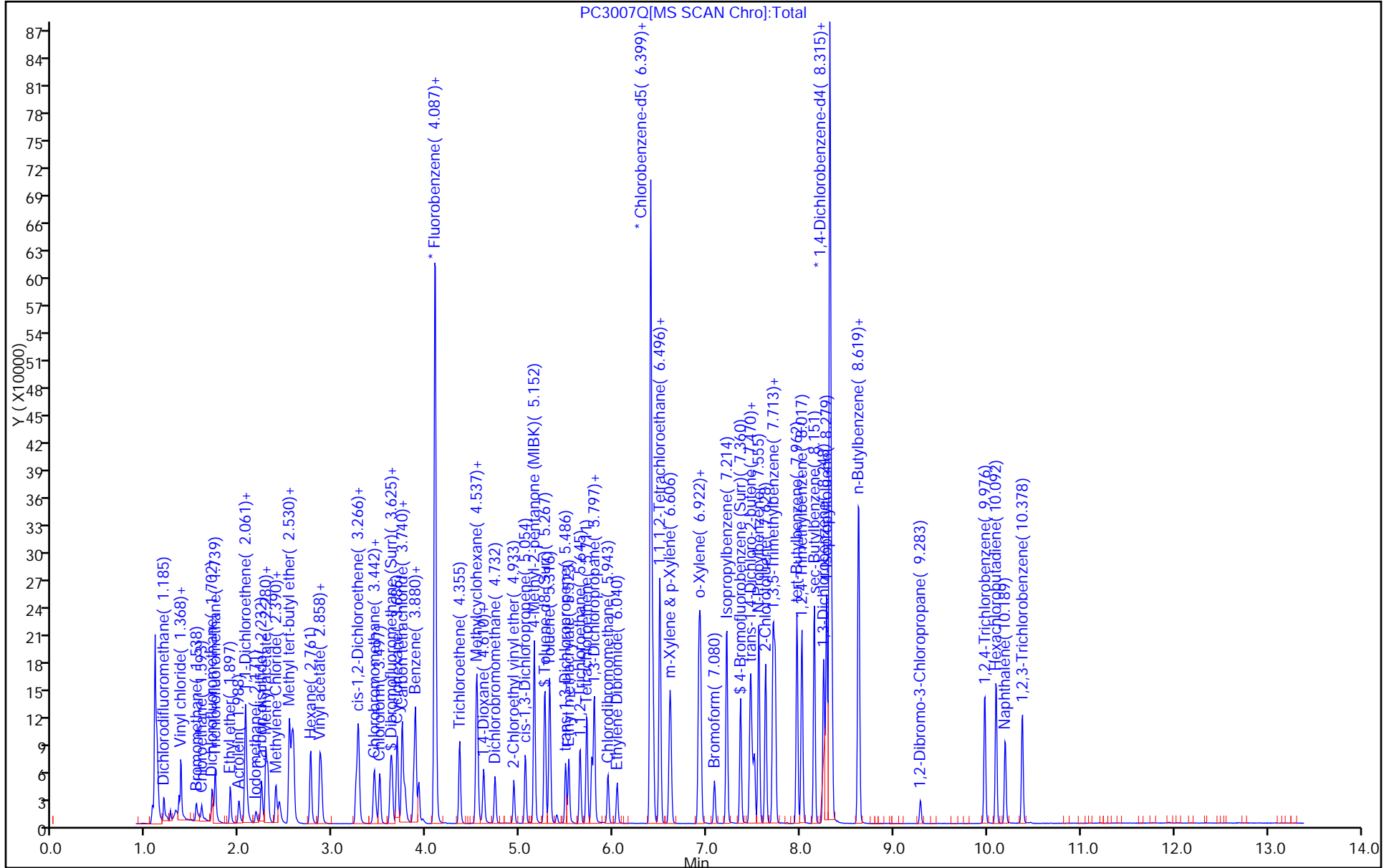
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3008Q.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 30-Mar-2015 15:07:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018304-008
 Misc. Info.: IC
 Operator ID: MT Instrument ID: CMSP2
 Sublist: chrom-2014_MSP2*sub5
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 19:29:24 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: tippinsm

Date: 30-Mar-2015 15:55:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	99	48538	20.0	19.9	
3 Chloromethane	50	1.319	1.319	0.000	99	36682	20.0	17.8	
2 Vinyl chloride	62	1.350	1.350	0.000	97	42140	20.0	19.7	
4 Butadiene	54	1.368	1.368	0.000	95	35349	20.0	20.3	
5 Bromomethane	94	1.532	1.532	0.000	99	28453	20.0	21.6	
6 Chloroethane	64	1.593	1.593	0.000	99	22319	20.0	20.8	
7 Dichlorofluoromethane	67	1.702	1.702	0.000	100	66700	20.0	20.4	
8 Trichlorofluoromethane	101	1.739	1.739	0.000	98	64678	20.0	21.9	
10 Ethyl ether	59	1.897	1.897	0.000	94	32471	20.0	19.7	
13 Acrolein	56	1.988	1.988	0.000	96	49213	400.0	454.4	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.061	0.000	97	43428	20.0	20.3	
15 1,1-Dichloroethene	96	2.061	2.061	0.000	94	39606	20.0	19.9	
16 Acetone	58	2.080	2.080	0.000	87	18785	100.0	96.4	
17 Iodomethane	142	2.177	2.177	0.000	96	39393	20.0	14.9	
18 Carbon disulfide	76	2.232	2.232	0.000	98	120445	20.0	19.6	
20 Methyl acetate	43	2.280	2.280	0.000	97	138514	100.0	95.4	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	92	30383	20.0	18.6	
22 Methylene Chloride	84	2.384	2.384	0.000	83	43858	20.0	19.7	
23 2-Methyl-2-propanol	59	2.426	2.426	0.000	99	42446	200.0	195.5	
26 Acrylonitrile	53	2.530	2.530	0.000	94	157163	200.0	191.2	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	121441	20.0	19.1	
25 trans-1,2-Dichloroethene	96	2.579	2.579	0.000	90	42906	20.0	19.8	
27 Hexane	57	2.761	2.761	0.000	90	63965	20.0	19.7	
30 Vinyl acetate	43	2.858	2.858	0.000	99	143084	40.0	38.0	
29 1,1-Dichloroethane	63	2.871	2.871	0.000	99	67073	20.0	19.7	
36 2-Butanone (MEK)	72	3.242	3.242	0.000	95	28168	100.0	95.0	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	98	58400	20.0	19.2	
34 2,2-Dichloropropane	77	3.278	3.278	0.000	94	55017	20.0	20.0	
38 Chlorobromomethane	130	3.436	3.436	0.000	77	33136	20.0	19.1	
39 Tetrahydrofuran	42	3.448	3.448	0.000	88	22825	40.0	38.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.497	3.497	0.000	99	69649	20.0	19.9	
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	41960	20.0	19.5	
43 1,1,1-Trichloroethane	97	3.631	3.631	0.000	97	60324	20.0	19.8	
42 Cyclohexane	84	3.686	3.686	0.000	86	69346	20.0	19.7	
47 1,1-Dichloropropene	75	3.740	3.740	0.000	97	53277	20.0	19.6	
45 Carbon tetrachloride	117	3.740	3.740	0.000	97	50635	20.0	19.7	
50 Isobutyl alcohol	43	3.771	3.771	0.000	97	42246	500.0	483.7	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	94	44100	20.0	18.8	
51 Benzene	78	3.880	3.880	0.000	95	172287	20.0	19.4	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	52077	20.0	19.2	
54 n-Heptane	43	4.081	4.081	0.000	88	67290	20.0	19.7	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	445577	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	53435	20.0	18.8	
59 Methylcyclohexane	83	4.531	4.531	0.000	93	93325	20.0	20.1	
60 1,2-Dichloropropane	63	4.543	4.543	0.000	92	40327	20.0	19.5	
62 1,4-Dioxane	88	4.598	4.598	0.000	89	13398	400.0	395.9	
63 Dibromomethane	93	4.610	4.610	0.000	88	27610	20.0	19.2	
64 Dichlorobromomethane	83	4.732	4.732	0.000	98	54327	20.0	19.5	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	30595	20.0	19.1	
67 cis-1,3-Dichloropropene	75	5.055	5.055	0.000	90	67223	20.0	19.3	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	92	190691	100.0	98.3	
\$ 69 Toluene-d8 (Surr)	98	5.267	5.267	0.000	99	185592	20.0	19.6	
70 Toluene	92	5.316	5.316	0.000	93	126317	20.0	19.8	
71 trans-1,3-Dichloropropene	75	5.486	5.486	0.000	94	59567	20.0	19.0	
72 Ethyl methacrylate	69	5.523	5.523	0.000	86	61173	20.0	19.6	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	95	36023	20.0	19.2	
74 Tetrachloroethene	164	5.712	5.712	0.000	93	54692	20.0	19.2	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	92	71015	20.0	19.0	
77 2-Hexanone	43	5.791	5.791	0.000	92	135437	100.0	98.5	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	50923	20.0	19.5	
79 Ethylene Dibromide	107	6.040	6.040	0.000	98	49748	20.0	19.0	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	190957	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	98	151161	20.0	19.6	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	94	49103	20.0	20.0	
83 Ethylbenzene	91	6.496	6.496	0.000	97	242349	20.0	20.0	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	90	192838	20.0	19.7	
87 o-Xylene	91	6.916	6.916	0.000	95	198812	20.0	20.1	
88 Styrene	104	6.934	6.934	0.000	97	172180	20.0	20.1	
89 Bromoform	173	7.080	7.080	0.000	99	41307	20.0	19.6	
90 Isopropylbenzene	105	7.208	7.208	0.000	94	268892	20.0	20.1	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	85	74836	20.0	19.2	
94 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	97	57885	20.0	19.5	
93 Bromobenzene	156	7.476	7.476	0.000	87	79275	20.0	19.7	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.494	0.000	87	14412	20.0	20.5	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	95	73416	20.0	19.5	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	302723	20.0	20.0	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	174362	20.0	19.5	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	94	221023	20.0	19.8	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	201989	20.0	19.7	
103 tert-Butylbenzene	119	7.962	7.962	0.000	96	211247	20.0	20.0	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	217976	20.0	19.7	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	307255	20.0	20.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 1,3-Dichlorobenzene	146	8.248	8.248	0.000	99	149330	20.0	19.7	
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	266631	20.0	20.1	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	97	238015	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	96	144945	20.0	19.4	
113 n-Butylbenzene	91	8.619	8.619	0.000	98	215382	20.0	20.3	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	139681	20.0	19.6	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	89	16099	20.0	19.4	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	92112	20.0	18.8	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	98	63814	20.0	20.4	
119 Naphthalene	128	10.195	10.195	0.000	99	141376	20.0	19.7	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	78089	20.0	19.1	
S 122 1,2-Dichloroethene, Total	1				0		40.0	39.0	
S 123 Xylenes, Total	1				0		40.0	39.8	
S 124 1,3-Dichloropropene, Total	1				0		40.0	38.3	

Reagents:

VM_Acrolein_00033	Amount Added: 2.00	Units: uL
VM_MMIX_01723	Amount Added: 2.00	Units: uL
DOD ISTD_00034	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3008Q.D

Injection Date: 30-Mar-2015 15:07:30

Instrument ID: CMSP2

Operator ID: MT

Lims ID: IC

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL/100g

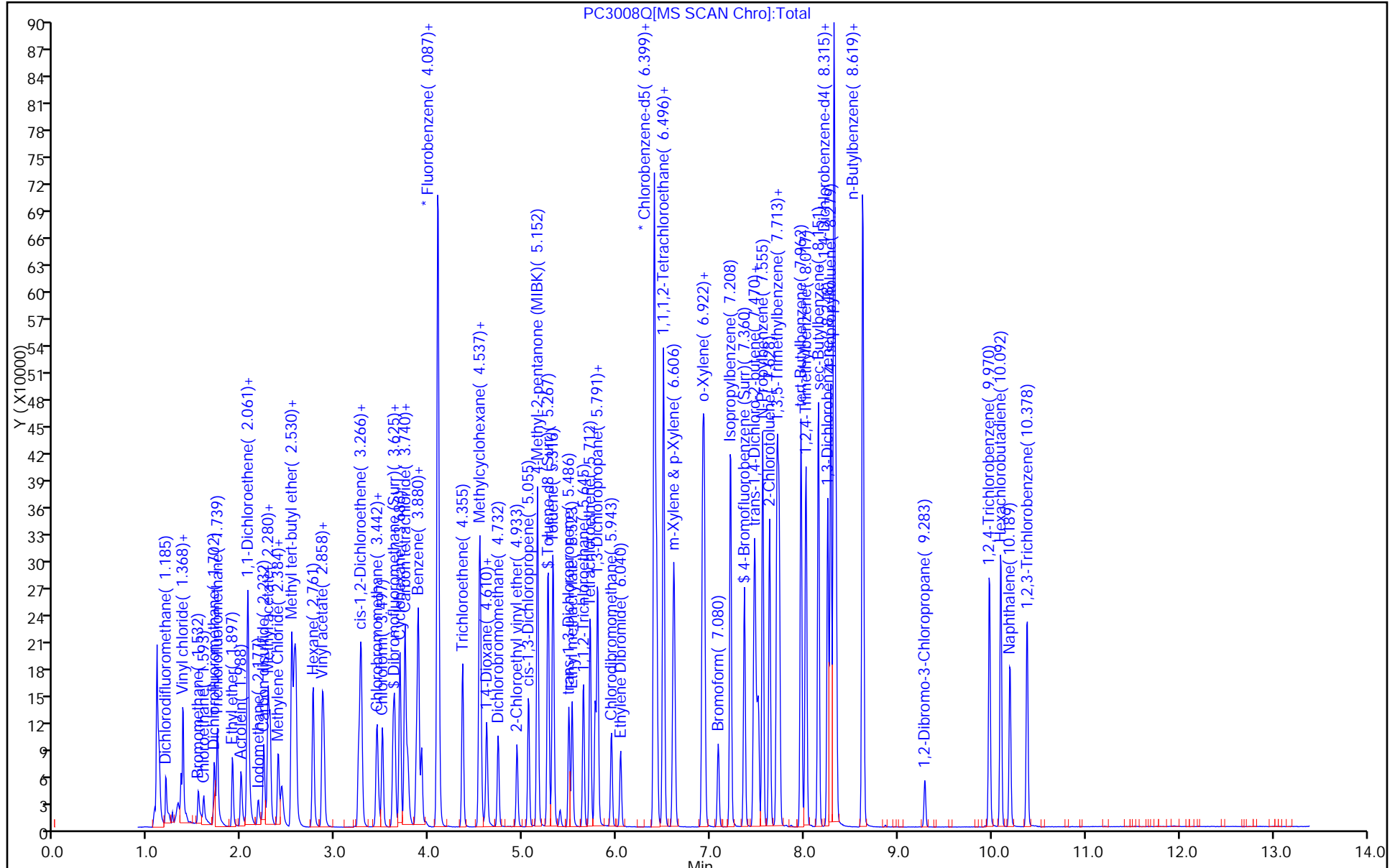
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3009Q.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 30-Mar-2015 15:29:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018304-009
 Misc. Info.: ICIS
 Operator ID: MT Instrument ID: CMSP2
 Sublist: chrom-2014_MSP2*sub5
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 19:29:25 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: keimd

Date: 30-Mar-2015 19:28:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	99	110734	50.0	49.4	
3 Chloromethane	50	1.319	1.319	0.000	99	87128	50.0	45.9	
2 Vinyl chloride	62	1.350	1.350	0.000	98	97209	50.0	49.4	
4 Butadiene	54	1.368	1.368	0.000	96	80066	50.0	49.9	
5 Bromomethane	94	1.532	1.532	0.000	99	56329	50.0	49.1	
6 Chloroethane	64	1.587	1.587	0.000	99	50069	50.0	50.6	
7 Dichlorofluoromethane	67	1.703	1.703	0.000	99	152676	50.0	50.6	
8 Trichlorofluoromethane	101	1.733	1.733	0.000	98	142459	50.0	52.5	
10 Ethyl ether	59	1.897	1.897	0.000	94	78764	50.0	52.0	
13 Acrolein	56	1.989	1.989	0.000	96	125468	1000.0	1092.0	
12 1,1,2-Trichloro-1,2,2-trif	151	2.055	2.055	0.000	95	98232	50.0	49.7	
15 1,1-Dichloroethene	96	2.062	2.062	0.000	94	86629	50.0	47.2	
16 Acetone	58	2.074	2.074	0.000	87	44179	250.0	246.1	
17 Iodomethane	142	2.171	2.171	0.000	95	114588	50.0	46.2	
18 Carbon disulfide	76	2.232	2.232	0.000	98	269863	50.0	47.6	
20 Methyl acetate	43	2.274	2.274	0.000	97	330420	250.0	247.1	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	92	73872	50.0	49.2	
22 Methylene Chloride	84	2.384	2.384	0.000	83	100841	50.0	49.2	
23 2-Methyl-2-propanol	59	2.427	2.427	0.000	99	103586	500.0	518.2	
26 Acrylonitrile	53	2.530	2.530	0.000	94	378593	500.0	500.2	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	291516	50.0	49.8	
25 trans-1,2-Dichloroethene	96	2.573	2.573	0.000	90	95667	50.0	47.9	
27 Hexane	57	2.755	2.755	0.000	90	144991	50.0	48.4	
30 Vinyl acetate	43	2.858	2.858	0.000	99	342963	100.0	98.8	
29 1,1-Dichloroethane	63	2.871	2.871	0.000	99	151124	50.0	48.2	
36 2-Butanone (MEK)	72	3.242	3.242	0.000	94	68018	250.0	249.2	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	98	133826	50.0	47.7	
34 2,2-Dichloropropane	77	3.272	3.272	0.000	94	127112	50.0	50.3	
38 Chlorobromomethane	130	3.436	3.436	0.000	77	77864	50.0	48.6	
39 Tetrahydrofuran	42	3.442	3.442	0.000	87	54226	100.0	100.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.497	3.497	0.000	99	158762	50.0	49.3	
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	97704	50.0	49.4	
43 1,1,1-Trichloroethane	97	3.631	3.631	0.000	98	140418	50.0	50.1	
42 Cyclohexane	84	3.686	3.686	0.000	85	156141	50.0	48.2	
47 1,1-Dichloropropene	75	3.734	3.734	0.000	98	121561	50.0	48.6	
45 Carbon tetrachloride	117	3.741	3.741	0.000	97	118909	50.0	50.3	
50 Isobutyl alcohol	43	3.771	3.771	0.000	98	101296	1250.0	1259.7	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	94	103886	50.0	48.0	
51 Benzene	78	3.880	3.880	0.000	96	395041	50.0	48.2	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	124140	50.0	49.6	
54 n-Heptane	43	4.081	4.081	0.000	88	148182	50.0	47.2	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	410286	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	126224	50.0	48.3	
59 Methylcyclohexane	83	4.531	4.531	0.000	93	210699	50.0	49.2	
60 1,2-Dichloropropane	63	4.544	4.544	0.000	93	93790	50.0	49.1	
62 1,4-Dioxane	88	4.598	4.598	0.000	86	32624	1000.0	1046.9	
63 Dibromomethane	93	4.611	4.611	0.000	88	64925	50.0	48.9	
64 Dichlorobromomethane	83	4.732	4.732	0.000	98	131343	50.0	51.3	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	75913	50.0	51.5	
67 cis-1,3-Dichloropropene	75	5.055	5.055	0.000	89	161771	50.0	50.5	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	92	453602	250.0	254.0	
\$ 69 Toluene-d8 (Surr)	98	5.268	5.268	0.000	99	429138	50.0	47.9	
70 Toluene	92	5.316	5.316	0.000	93	288700	50.0	49.2	
71 trans-1,3-Dichloropropene	75	5.487	5.487	0.000	94	146443	50.0	50.8	
72 Ethyl methacrylate	69	5.523	5.523	0.000	85	148548	50.0	51.7	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	95	84913	50.0	49.2	
74 Tetrachloroethene	164	5.718	5.718	0.000	94	126066	50.0	48.1	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	91	168983	50.0	49.0	
77 2-Hexanone	43	5.791	5.791	0.000	92	318764	250.0	251.7	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	124744	50.0	51.8	
79 Ethylene Dibromide	107	6.040	6.040	0.000	98	120208	50.0	49.9	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	180709	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	98	352675	50.0	48.3	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	94	117668	50.0	50.7	
83 Ethylbenzene	91	6.496	6.496	0.000	97	559998	50.0	48.8	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	90	449802	50.0	48.5	
87 o-Xylene	91	6.916	6.916	0.000	95	460931	50.0	49.2	
88 Styrene	104	6.928	6.928	0.000	97	400041	50.0	49.4	
89 Bromoform	173	7.080	7.080	0.000	99	104864	50.0	52.6	
90 Isopropylbenzene	105	7.214	7.214	0.000	94	620531	50.0	49.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	85	174215	50.0	47.1	
94 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	97	138323	50.0	49.3	
93 Bromobenzene	156	7.470	7.470	0.000	87	183342	50.0	48.2	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.494	0.000	92	34181	50.0	51.3	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	97	176173	50.0	49.5	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	687439	50.0	48.1	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	403559	50.0	47.8	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	94	508926	50.0	48.3	
100 4-Chlorotoluene	91	7.731	7.731	0.000	96	463700	50.0	47.9	
103 tert-Butylbenzene	119	7.963	7.963	0.000	96	486389	50.0	48.7	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	504419	50.0	48.1	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	707132	50.0	48.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 1,3-Dichlorobenzene	146	8.249	8.249	0.000	99	343605	50.0	47.8	
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	613318	50.0	48.6	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	94	226254	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	96	333809	50.0	46.9	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	499322	50.0	49.6	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	100	328877	50.0	48.6	
115 1,2-Dibromo-3-Chloropropan	157	9.283	9.283	0.000	88	41167	50.0	52.3	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	92	223644	50.0	48.1	
118 Hexachlorobutadiene	225	10.092	10.092	0.000	98	145393	50.0	48.9	
119 Naphthalene	128	10.189	10.189	0.000	99	347296	50.0	51.0	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	188102	50.0	48.4	
S 122 1,2-Dichloroethene, Total	1				0		100.0	95.7	
S 123 Xylenes, Total	1				0		100.0	97.7	
S 124 1,3-Dichloropropene, Total	1				0		100.0	101.2	

Reagents:

VM_Acrolein_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01723	Amount Added: 5.00	Units: uL
DOD ISTD_00034	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3009Q.D

Injection Date: 30-Mar-2015 15:29:30

Instrument ID: CMSP2

Operator ID: MT

Lims ID: ICIS

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL/100g

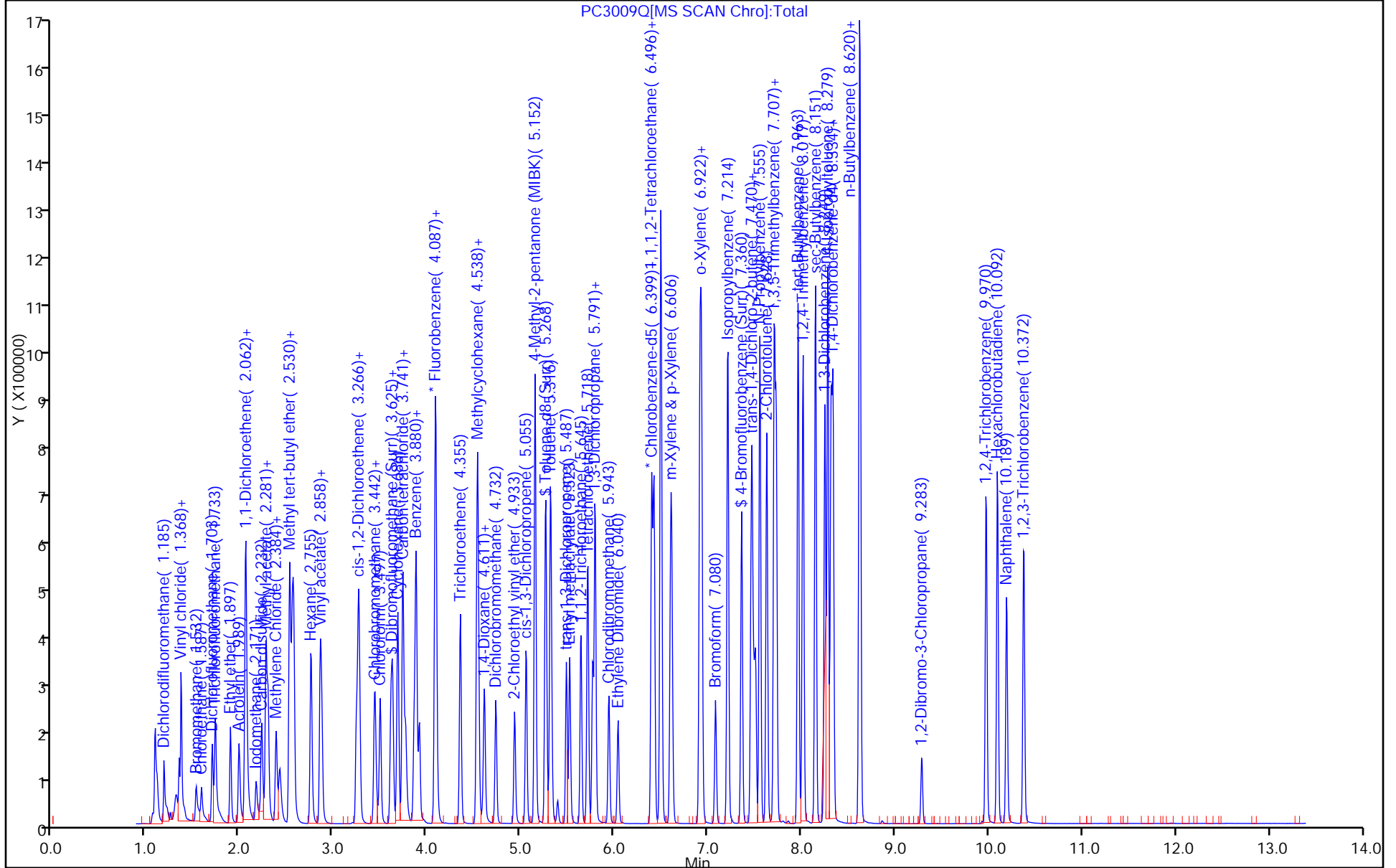
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3010Q.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 30-Mar-2015 15:50:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018304-010
 Misc. Info.: IC
 Operator ID: MT Instrument ID: CMSP2
 Sublist: chrom-2014_MSP2*sub5
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 19:29:27 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK014

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	99	222315	100.0	103.1	
3 Chloromethane	50	1.313	1.319	-0.006	99	181157	100.0	99.3	
2 Vinyl chloride	62	1.350	1.350	0.000	98	193849	100.0	102.3	
4 Butadiene	54	1.368	1.368	0.000	95	156715	100.0	101.6	
5 Bromomethane	94	1.526	1.532	-0.006	98	96576	100.0	100.2	
6 Chloroethane	64	1.581	1.587	-0.006	98	92083	100.0	96.8	
7 Dichlorofluoromethane	67	1.696	1.703	-0.007	100	298412	100.0	102.9	
8 Trichlorofluoromethane	101	1.733	1.733	0.000	98	211532	100.0	81.0	
10 Ethyl ether	59	1.891	1.897	-0.006	95	152322	100.0	104.5	
13 Acrolein	56	1.988	1.989	0.000	96	251243	2000.0	1935.4	
12 1,1,2-Trichloro-1,2,2-trif	151	2.055	2.055	0.000	96	187748	100.0	98.9	
15 1,1-Dichloroethene	96	2.061	2.062	-0.001	94	177263	100.0	100.4	
16 Acetone	58	2.074	2.074	0.000	87	89792	500.0	520.1	
17 Iodomethane	142	2.171	2.171	0.000	95	259976	100.0	105.2	
18 Carbon disulfide	76	2.226	2.232	-0.006	98	529870	100.0	97.2	
20 Methyl acetate	43	2.274	2.274	0.000	97	642568	500.0	499.7	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	92	143666	100.0	99.4	
22 Methylene Chloride	84	2.384	2.384	0.000	83	197818	100.0	100.3	
23 2-Methyl-2-propanol	59	2.426	2.427	-0.001	99	210924	1000.0	1097.0	
26 Acrylonitrile	53	2.530	2.530	0.000	94	733463	1000.0	1007.5	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	574712	100.0	102.2	
25 trans-1,2-Dichloroethene	96	2.572	2.573	-0.001	90	184842	100.0	96.3	
27 Hexane	57	2.755	2.755	0.000	90	279398	100.0	97.0	
30 Vinyl acetate	43	2.858	2.858	0.000	99	679925	200.0	203.7	
29 1,1-Dichloroethane	63	2.871	2.871	-0.001	99	298020	100.0	98.8	
36 2-Butanone (MEK)	72	3.242	3.242	0.000	94	138250	500.0	526.7	
35 cis-1,2-Dichloroethene	61	3.260	3.266	-0.006	98	264052	100.0	97.9	
34 2,2-Dichloropropane	77	3.272	3.272	0.000	93	246074	100.0	101.2	
38 Chlorobromomethane	130	3.436	3.436	0.000	76	155265	100.0	100.8	
39 Tetrahydrofuran	42	3.442	3.442	0.000	86	106584	200.0	205.0	
41 Chloroform	83	3.497	3.497	0.000	99	313292	100.0	101.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.607	3.613	-0.006	96	194963	100.0	102.4	
43 1,1,1-Trichloroethane	97	3.625	3.631	-0.006	97	276370	100.0	102.6	
42 Cyclohexane	84	3.686	3.686	0.000	85	309217	100.0	99.3	
47 1,1-Dichloropropene	75	3.734	3.734	0.000	98	241057	100.0	100.1	
45 Carbon tetrachloride	117	3.740	3.741	-0.001	97	241160	100.0	106.0	
50 Isobutyl alcohol	43	3.771	3.771	0.000	98	209678	2500.0	2711.0	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.856	3.862	-0.006	94	206777	100.0	99.3	
51 Benzene	78	3.880	3.880	0.000	95	791331	100.0	100.4	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	242155	100.0	100.6	
54 n-Heptane	43	4.081	4.081	0.000	88	291532	100.0	96.5	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	394627	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	254207	100.0	101.1	
59 Methylcyclohexane	83	4.531	4.531	0.000	92	417350	100.0	101.4	
60 1,2-Dichloropropane	63	4.543	4.544	-0.001	93	188839	100.0	102.9	
62 1,4-Dioxane	88	4.598	4.598	0.000	87	65732	2000.0	2193.1	
63 Dibromomethane	93	4.610	4.611	-0.001	90	129989	100.0	101.9	
64 Dichlorobromomethane	83	4.732	4.732	0.000	99	269110	100.0	109.3	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	154498	100.0	109.0	
67 cis-1,3-Dichloropropene	75	5.055	5.055	-0.001	89	339774	100.0	110.2	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	92	884058	500.0	514.7	
\$ 69 Toluene-d8 (Surr)	98	5.267	5.268	-0.001	99	850704	100.0	96.3	
70 Toluene	92	5.316	5.316	0.000	93	569554	100.0	100.9	
71 trans-1,3-Dichloropropene	75	5.486	5.487	-0.001	93	302411	100.0	109.0	
72 Ethyl methacrylate	69	5.523	5.523	0.000	85	304026	100.0	110.0	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	95	172093	100.0	103.8	
74 Tetrachloroethene	164	5.718	5.718	0.000	94	251824	100.0	99.9	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	91	340497	100.0	102.6	
77 2-Hexanone	43	5.797	5.791	0.006	91	628072	500.0	515.6	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	260177	100.0	112.2	
79 Ethylene Dibromide	107	6.040	6.040	0.000	98	244135	100.0	105.4	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	81	178039	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	98	711450	100.0	98.9	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	94	239756	100.0	104.9	
83 Ethylbenzene	91	6.496	6.496	0.000	97	1093898	100.0	96.7	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	90	896057	100.0	98.1	
87 o-Xylene	91	6.916	6.916	0.000	95	917604	100.0	99.5	
88 Styrene	104	6.928	6.928	0.000	97	791260	100.0	99.3	
89 Bromoform	173	7.080	7.080	0.000	99	224378	100.0	114.1	
90 Isopropylbenzene	105	7.214	7.214	0.000	94	1223889	100.0	98.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	85	351502	100.0	97.6	
94 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	97	280797	100.0	101.7	
93 Bromobenzene	156	7.470	7.470	0.000	86	367980	100.0	98.3	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.494	0.000	76	69972	100.0	106.6	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	97	356105	100.0	101.6	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	1354366	100.0	96.2	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	801755	100.0	96.3	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	94	1019238	100.0	98.1	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	910530	100.0	95.4	
103 tert-Butylbenzene	119	7.962	7.963	-0.001	96	965710	100.0	98.2	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	1016747	100.0	98.5	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	1388076	100.0	97.4	
109 1,3-Dichlorobenzene	146	8.248	8.249	0.000	99	691120	100.0	98.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	1217010	100.0	99.1	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	95	220234	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	96	676123	100.0	97.7	
113 n-Butylbenzene	91	8.619	8.620	-0.001	97	990136	100.0	101.1	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	654816	100.0	99.4	
115 1,2-Dibromo-3-Chloropropan	157	9.283	9.283	0.000	87	88499	100.0	115.4	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	471412	100.0	104.2	
118 Hexachlorobutadiene	225	10.098	10.092	0.006	98	293477	100.0	101.4	
119 Naphthalene	128	10.189	10.189	0.000	99	733746	100.0	110.6	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	391448	100.0	103.6	
S 122 1,2-Dichloroethene, Total	1				0		200.0	194.2	
S 123 Xylenes, Total	1				0		200.0	197.5	
S 124 1,3-Dichloropropene, Total	1				0		200.0	219.2	

Reagents:

VM_Acrolein_00033	Amount Added: 10.00	Units: uL
VM_MMIX_01723	Amount Added: 10.00	Units: uL
DOD ISTD_00034	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3010Q.D

Injection Date: 30-Mar-2015 15:50:30

Instrument ID: CMSP2

Operator ID: MT

Lims ID: IC

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL/100g

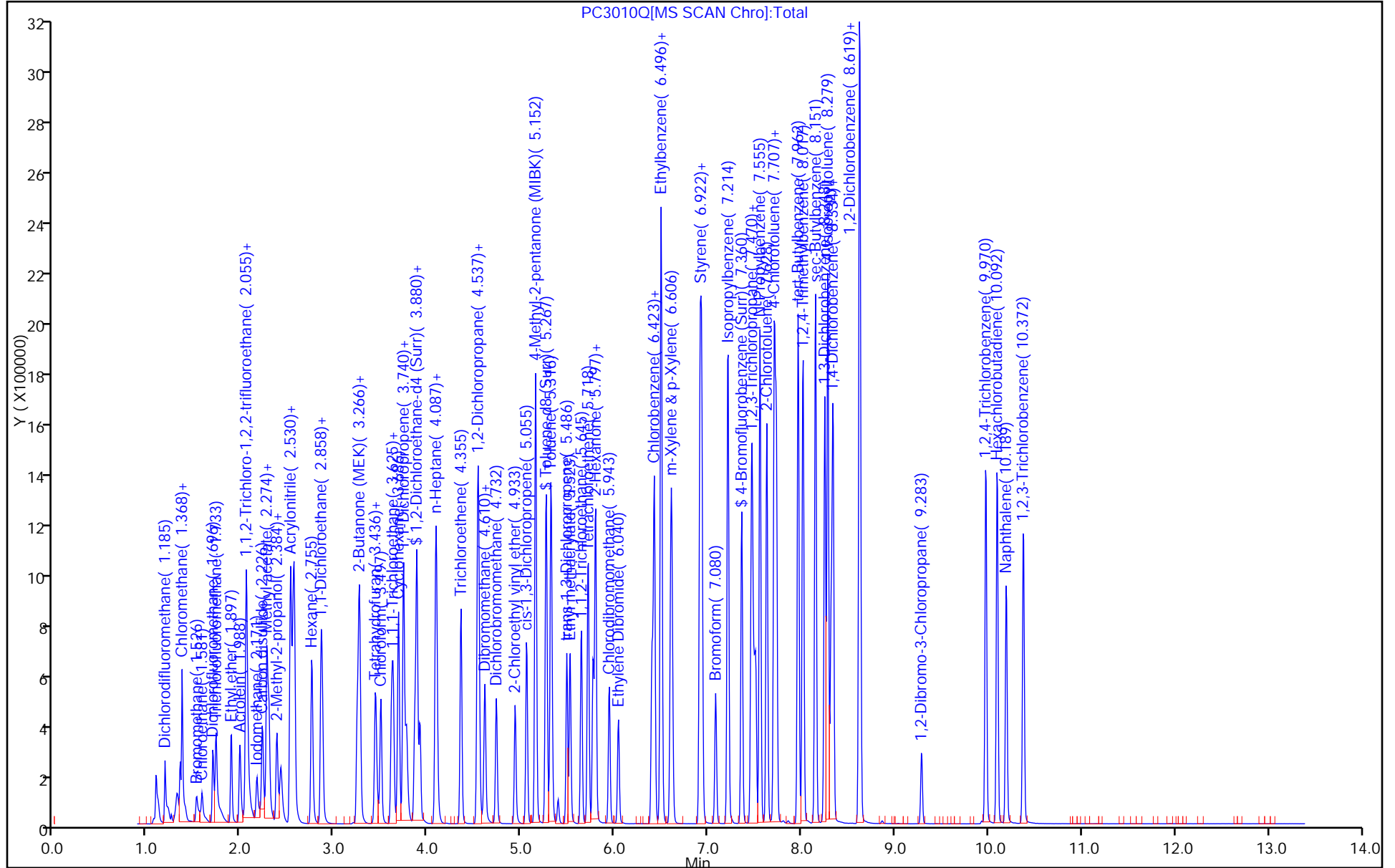
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 30-Mar-2015 16:12:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018304-011
 Misc. Info.: ICI
 Operator ID: MT Instrument ID: CMSP2
 Sublist: chrom-2014_MSP2*sub5
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 19:29:29 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: tippinsm

Date: 30-Mar-2015 16:52:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	99	443287	200.0	204.6	
3 Chloromethane	50	1.319	1.319	0.000	99	369442	200.0	201.6	
2 Vinyl chloride	62	1.344	1.350	-0.006	98	383220	200.0	201.4	
4 Butadiene	54	1.368	1.368	0.000	95	303592	200.0	195.9	
5 Bromomethane	94	1.514	1.532	-0.018	100	133293	200.0	178.4	M
6 Chloroethane	64	1.569	1.587	-0.018	98	150644	200.0	157.7	
7 Dichlorofluoromethane	67	1.690	1.703	-0.013	100	559935	200.0	192.2	
8 Trichlorofluoromethane	101	1.721	1.733	-0.012	98	400437	200.0	152.6	
10 Ethyl ether	59	1.891	1.897	-0.006	94	284586	200.0	194.5	
13 Acrolein	56	1.982	1.989	-0.006	95	713474	4000.0	4007.5	
12 1,1,2-Trichloro-1,2,2-trif	151	2.049	2.055	-0.006	93	351938	200.0	184.5	
15 1,1-Dichloroethene	96	2.055	2.062	-0.007	94	345643	200.0	194.9	
16 Acetone	58	2.074	2.074	0.000	87	169760	1000.0	978.9	
17 Iodomethane	142	2.165	2.171	-0.006	95	521965	200.0	199.1	
18 Carbon disulfide	76	2.220	2.232	-0.012	98	988280	200.0	180.5	
20 Methyl acetate	43	2.274	2.274	0.000	97	1176993	1000.0	911.2	
19 3-Chloro-1-propene	76	2.293	2.299	-0.006	91	304169	200.0	209.6	
22 Methylene Chloride	84	2.378	2.384	-0.006	83	381331	200.0	192.4	
23 2-Methyl-2-propanol	59	2.432	2.427	0.005	99	422138	2000.0	2185.7	
26 Acrylonitrile	53	2.530	2.530	0.000	94	1361798	2000.0	1862.3	
24 Methyl tert-butyl ether	73	2.554	2.560	-0.006	96	1049126	200.0	185.6	
25 trans-1,2-Dichloroethene	96	2.566	2.573	-0.007	89	345387	200.0	179.1	
27 Hexane	57	2.755	2.755	0.000	89	543500	200.0	187.8	
30 Vinyl acetate	43	2.852	2.858	-0.006	99	1238060	400.0	369.4	
29 1,1-Dichloroethane	63	2.871	2.871	-0.001	99	562759	200.0	185.8	
36 2-Butanone (MEK)	72	3.242	3.242	0.000	97	265496	1000.0	1007.0	
35 cis-1,2-Dichloroethene	61	3.260	3.266	-0.006	98	493662	200.0	182.2	
34 2,2-Dichloropropane	77	3.272	3.272	0.000	94	468324	200.0	191.8	
38 Chlorobromomethane	130	3.436	3.436	0.000	76	297269	200.0	192.1	
39 Tetrahydrofuran	42	3.442	3.442	0.000	86	200417	400.0	383.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.497	3.497	0.000	99	598679	200.0	192.3	
\$ 44 Dibromofluoromethane (Surr	113	3.607	3.613	-0.006	96	371182	200.0	194.1	
43 1,1,1-Trichloroethane	97	3.625	3.631	-0.006	97	527376	200.0	194.9	
42 Cyclohexane	84	3.686	3.686	0.000	84	596504	200.0	190.7	
47 1,1-Dichloropropene	75	3.734	3.734	0.000	98	462281	200.0	191.2	
45 Carbon tetrachloride	117	3.740	3.741	-0.001	97	468858	200.0	205.1	
50 Isobutyl alcohol	43	3.777	3.771	0.006	97	412227	5000.0	5306.2	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.856	3.862	-0.006	94	384780	200.0	183.9	
51 Benzene	78	3.880	3.880	0.000	94	1513743	200.0	191.2	
53 1,2-Dichloroethane	62	3.911	3.917	-0.006	98	455190	200.0	188.3	
54 n-Heptane	43	4.081	4.081	0.000	89	553554	200.0	182.4	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	396379	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	498864	200.0	197.5	
59 Methylcyclohexane	83	4.531	4.531	0.000	95	805355	200.0	194.7	
60 1,2-Dichloropropane	63	4.543	4.544	-0.001	93	352794	200.0	191.4	
62 1,4-Dioxane	88	4.610	4.598	0.012	30	128439	4000.0	4266.4	
63 Dibromomethane	93	4.604	4.611	-0.007	86	246286	200.0	192.2	
64 Dichlorobromomethane	83	4.732	4.732	0.000	98	511222	200.0	206.7	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	299922	200.0	210.7	
67 cis-1,3-Dichloropropene	75	5.055	5.055	-0.001	89	650938	200.0	210.2	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	91	1588609	1000.0	920.8	
\$ 69 Toluene-d8 (Surr)	98	5.267	5.268	-0.001	99	1630178	200.0	184.0	
70 Toluene	92	5.316	5.316	0.000	93	1086106	200.0	191.5	
71 trans-1,3-Dichloropropene	75	5.486	5.487	-0.001	93	587588	200.0	210.9	
72 Ethyl methacrylate	69	5.523	5.523	0.000	84	572240	200.0	206.2	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	95	328669	200.0	197.3	
74 Tetrachloroethene	164	5.718	5.718	0.000	94	482720	200.0	190.6	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	90	643794	200.0	193.1	
77 2-Hexanone	43	5.797	5.791	0.006	90	1123286	1000.0	918.0	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	510377	200.0	219.2	
79 Ethylene Dibromide	107	6.040	6.040	0.000	98	473677	200.0	203.6	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	81	178627	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	98	1371078	200.0	190.0	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	94	457868	200.0	199.7	
83 Ethylbenzene	91	6.496	6.496	0.000	97	2045741	200.0	180.2	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	90	1691746	200.0	184.5	
87 o-Xylene	91	6.910	6.916	-0.006	95	1732653	200.0	187.2	
88 Styrene	104	6.928	6.928	0.000	97	1484210	200.0	185.6	
89 Bromoform	173	7.080	7.080	0.000	99	447677	200.0	227.0	
90 Isopropylbenzene	105	7.214	7.214	0.000	94	2336164	200.0	186.4	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	84	663992	200.0	186.0	
94 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	97	523377	200.0	188.9	
93 Bromobenzene	156	7.476	7.470	0.006	85	702768	200.0	187.1	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.494	0.000	90	132131	200.0	200.6	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	97	676555	200.0	192.4	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	2557666	200.0	181.0	
98 2-Chlorotoluene	91	7.628	7.628	0.000	95	1503893	200.0	180.1	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	95	1932822	200.0	185.5	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	1680777	200.0	175.5	
103 tert-Butylbenzene	119	7.962	7.963	-0.001	96	1844683	200.0	187.0	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	95	1927059	200.0	186.0	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	2616533	200.0	183.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 1,3-Dichlorobenzene	146	8.248	8.249	0.000	99	1308986	200.0	188.7	
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	2294129	200.0	188.5	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	95	218308	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	96	1297825	200.0	189.2	
113 n-Butylbenzene	91	8.619	8.620	-0.001	97	1854604	200.0	191.0	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	1215641	200.0	186.2	
115 1,2-Dibromo-3-Chloropropan	157	9.283	9.283	0.000	87	180014	200.0	236.8	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	92	939966	200.0	209.6	
118 Hexachlorobutadiene	225	10.098	10.092	0.006	98	570133	200.0	198.8	
119 Naphthalene	128	10.195	10.189	0.006	99	1495653	200.0	227.5	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	783161	200.0	209.1	
S 122 1,2-Dichloroethene, Total	1				0		400.0	361.4	
S 123 Xylenes, Total	1				0		400.0	371.8	
S 124 1,3-Dichloropropene, Total	1				0		400.0	421.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VM_Acrolein_00033

Amount Added: 20.00

Units: uL

VM_MMIX_01723

Amount Added: 20.00

Units: uL

DOD ISTD_00034

Amount Added: 5.00

Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D

Injection Date: 30-Mar-2015 16:12:30

Instrument ID: CMSP2

Operator ID: MT

Lims ID: IC

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL/100g

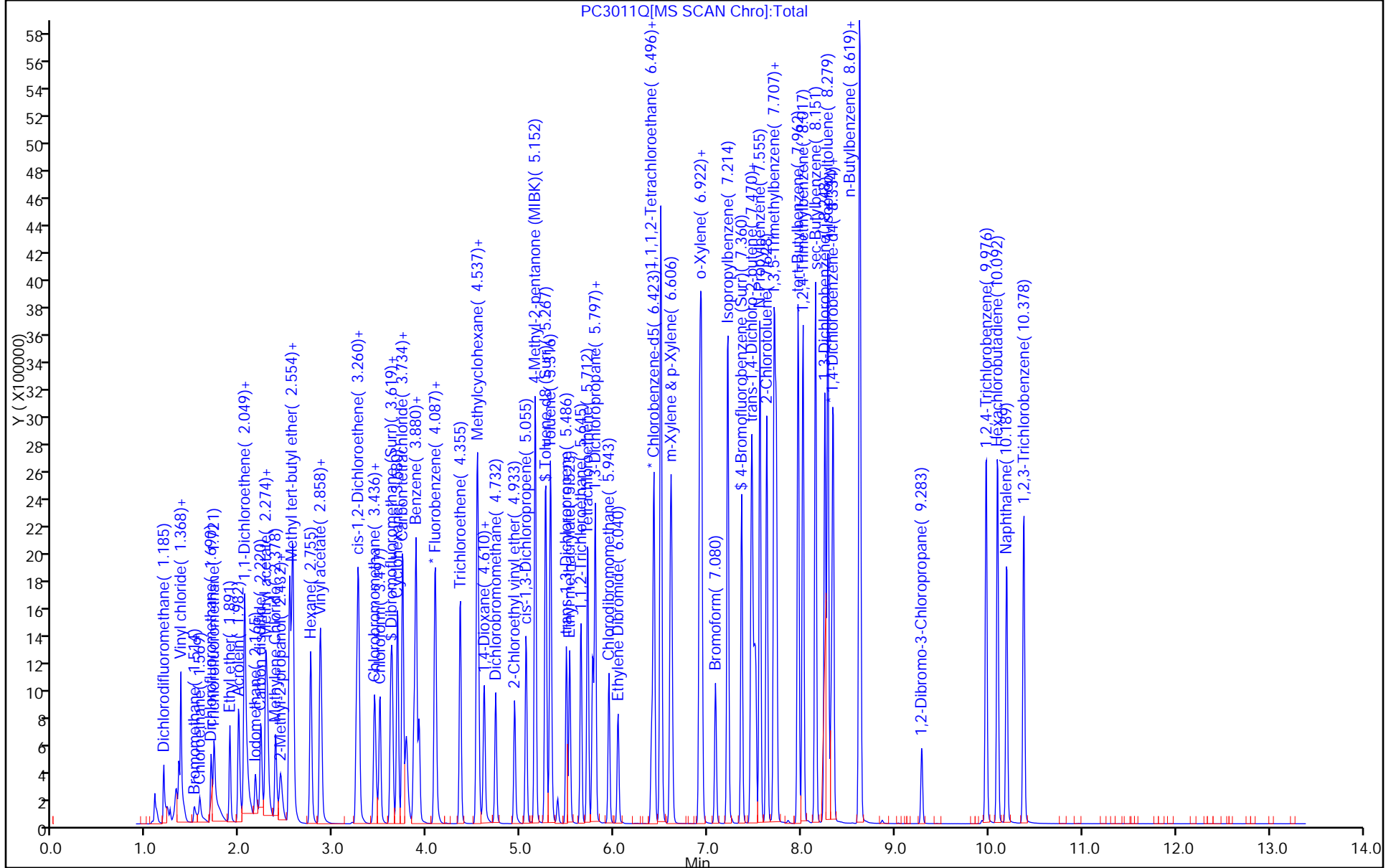
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



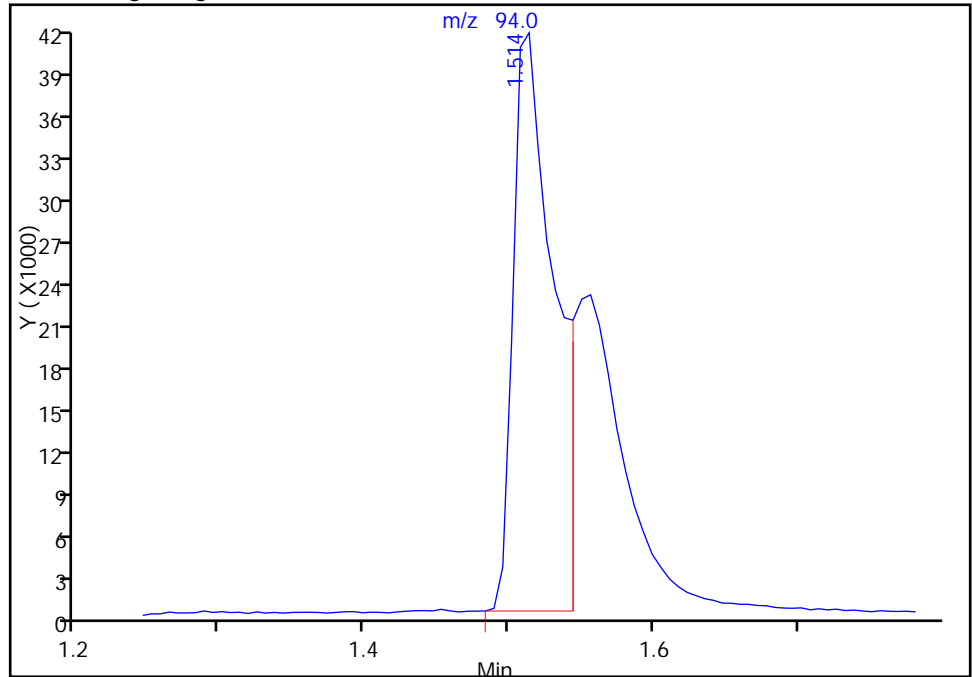
TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
Injection Date: 30-Mar-2015 16:12:30 Instrument ID: CMSP2
Lims ID: IC
Client ID:
Operator ID: MT ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
Method: 2014_MSP2 Limit Group: 8260B
Column: Rtx-624 (0.18 mm) Detector: MS SCAN

5 Bromomethane, CAS: 74-83-9

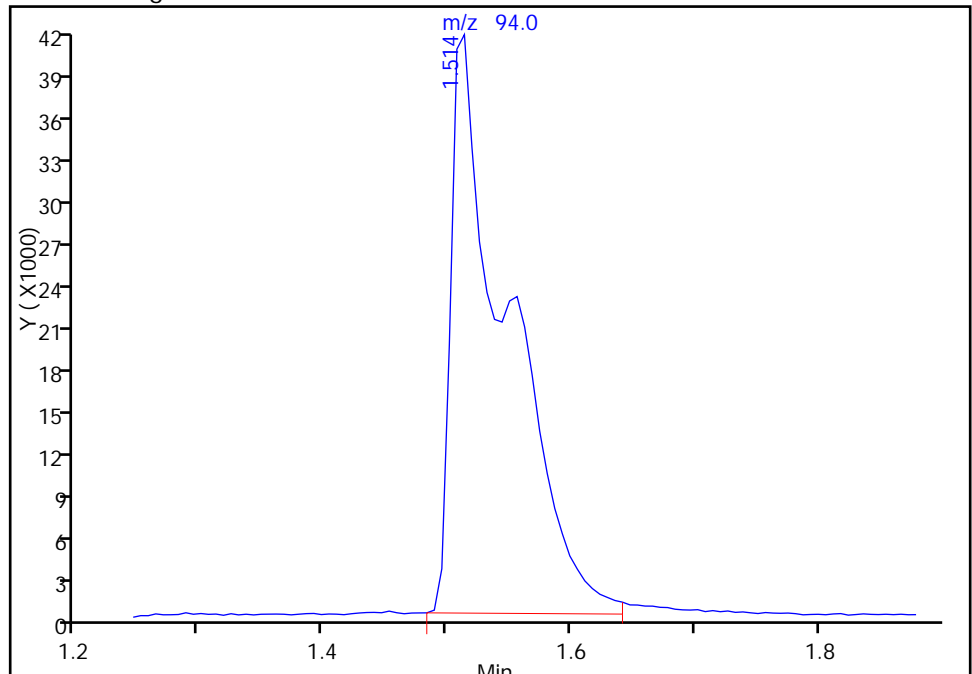
RT: 1.51
Area: 83828
Amount: 83.179275
Amount Units: ug/l

Processing Integration Results



RT: 1.51
Area: 133293
Amount: 178.4106
Amount Units: ug/l

Manual Integration Results



Reviewer: tippinsm, 30-Mar-2015 16:52:44
Audit Action: Assigned New Baseline
Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: ICV 680-376029/14 Calibration Date: 03/25/2015 23:45
 Instrument ID: CMSAC Calib Start Date: 03/25/2015 20:21
 GC Column: RTX-VMS ID: 0.18 (mm) Calib End Date: 03/25/2015 23:00
 Lab File ID: ACC2514.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	0.2331	0.2138		45.9	50.0	-8.3	60.0
Chloromethane	LinF		0.1515	0.1000	49.5	50.0	-1.1	60.0
Vinyl chloride	Ave	0.2697	0.2392		44.3	50.0	-11.3	60.0
1,3-Butadiene	Ave	0.2979	0.2750		46.2	50.0	-7.7	60.0
Bromomethane	Ave	0.0652	0.0724		55.5	50.0	11.0	60.0
Chloroethane	Ave	0.1342	0.1226		45.7	50.0	-8.7	60.0
Dichlorofluoromethane	Ave	0.3812	0.3592		47.1	50.0	-5.8	60.0
Trichlorofluoromethane	Ave	0.4078	0.3907		47.9	50.0	-4.2	60.0
Ethyl ether	Ave	0.1745	0.1751		50.2	50.0	0.3	60.0
Acrolein	Ave	0.0153	0.0148		965	1000	-3.5	60.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2369	0.2334		49.3	50.0	-1.5	60.0
1,1-Dichloroethene	Ave	0.2640	0.2458		46.5	50.0	-6.9	60.0
Acetone	Ave	0.0176	0.0147		208	250	-16.6	60.0
Iodomethane	LinF		0.2024		44.4	50.0	-11.1	60.0
Carbon disulfide	QuaF		0.8118		51.3	50.0	2.6	60.0
Methyl acetate	Ave	0.1313	0.1459		278	250	11.1	60.0
Allyl chloride	Ave	0.2111	0.1743		41.3	50.0	-17.4	60.0
Methylene Chloride	Ave	0.2471	0.2323		47.0	50.0	-6.0	60.0
tert-Butyl alcohol	Ave	0.0151	0.0148		491	500	-1.9	60.0
Acrylonitrile	Ave	0.0708	0.0654		461	500	-7.7	60.0
Methyl tert-butyl ether	Ave	0.5464	0.5588		51.1	50.0	2.3	60.0
trans-1,2-Dichloroethene	Ave	0.2687	0.2651		49.3	50.0	-1.3	60.0
Hexane	Ave	0.3656	0.3723		50.9	50.0	1.8	60.0
Vinyl acetate	Ave	0.3540	0.1647		46.5	100	-53.5	60.0
1,1-Dichloroethane	Ave	0.5048	0.4822	0.1000	47.8	50.0	-4.5	60.0
2-Butanone	Ave	0.0207	0.0209		253	250	1.0	60.0
cis-1,2-Dichloroethene	LinF		0.4155		51.7	50.0	3.3	60.0
2,2-Dichloropropane	Ave	0.3988	0.3769		47.3	50.0	-5.5	60.0
Bromochloromethane	Ave	0.2017	0.1935		48.0	50.0	-4.1	60.0
Tetrahydrofuran	Lin		0.0498		92.1	100	-7.9	60.0
Chloroform	Ave	0.4599	0.4494		48.9	50.0	-2.3	60.0
1,1,1-Trichloroethane	Ave	0.4024	0.4072		50.6	50.0	1.2	60.0
Cyclohexane	Ave	0.3977	0.4030		50.7	50.0	1.3	60.0
1,1-Dichloropropene	Ave	0.3237	0.3632		56.1	50.0	12.2	60.0
Carbon tetrachloride	Ave	0.3539	0.3773		53.3	50.0	6.6	60.0
Isobutanol	LinF	0.0075	0.0069		1310	1250	4.5	60.0
Benzene	Ave	1.060	1.056		49.8	50.0	-0.3	60.0
1,2-Dichloroethane	Ave	0.3016	0.3012		49.9	50.0	-0.1	60.0
n-Heptane	Ave	0.3638	0.3277		45.0	50.0	-9.9	60.0
Trichloroethene	LinF		0.3078		49.6	50.0	-0.8	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: ICV 680-376029/14 Calibration Date: 03/25/2015 23:45
 Instrument ID: CMSAC Calib Start Date: 03/25/2015 20:21
 GC Column: RTX-VMS ID: 0.18 (mm) Calib End Date: 03/25/2015 23:00
 Lab File ID: ACC2514.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
Methylcyclohexane	Ave	0.4717	0.4736		50.2	50.0	0.4	60.0
1,2-Dichloropropane	Ave	0.2660	0.2721		51.1	50.0	2.3	60.0
1,4-Dioxane	Ave	0.0014	0.0013		936	1000	-6.4	60.0
Dibromomethane	Ave	0.1536	0.1504		49.0	50.0	-2.1	60.0
Bromodichloromethane	Ave	0.3253	0.3342		51.4	50.0	2.7	60.0
2-Chloroethyl vinyl ether	Ave	0.1291	0.1372		53.2	50.0	6.3	60.0
cis-1,3-Dichloropropene	Ave	0.3945	0.4205		53.3	50.0	6.6	60.0
4-Methyl-2-pentanone	Ave	0.1684	0.1673		248	250	-0.6	60.0
Toluene	Ave	0.6502	0.6249		48.1	50.0	-3.9	60.0
trans-1,3-Dichloropropene	Ave	0.3304	0.3722		56.3	50.0	12.6	60.0
Ethyl methacrylate	Ave	0.2817	0.2761		49.0	50.0	-2.0	60.0
1,1,2-Trichloroethane	Ave	0.1724	0.1735		50.3	50.0	0.6	60.0
Tetrachloroethene	Ave	0.2596	0.2598		50.0	50.0	0.0	60.0
1,3-Dichloropropane	Ave	0.3479	0.3455		49.6	50.0	-0.7	60.0
2-Hexanone	Ave	0.1229	0.1128		229	250	-8.2	60.0
Dibromochloromethane	Ave	0.2454	0.2649		54.0	50.0	7.9	60.0
1,2-Dibromoethane	Ave	0.2150	0.2182		50.7	50.0	1.5	60.0
Chlorobenzene	Ave	1.891	1.890	0.3000	50.0	50.0	-0.0	60.0
1,1,1,2-Tetrachloroethane	Ave	0.6626	0.7292		55.0	50.0	10.1	60.0
Ethylbenzene	Ave	2.883	2.947		51.1	50.0	2.2	60.0
m-Xylene & p-Xylene	Ave	2.066	2.050		49.6	50.0	-0.8	60.0
o-Xylene	Ave	2.021	2.056		50.9	50.0	1.7	60.0
Styrene	Ave	1.670	1.623		48.6	50.0	-2.9	60.0
Bromoform	Ave	0.4141	0.4801	0.1000	58.0	50.0	15.9	60.0
Isopropylbenzene	Ave	2.608	2.663		51.1	50.0	2.1	60.0
1,1,2,2-Tetrachloroethane	Ave	0.5410	0.5728	0.3000	52.9	50.0	5.9	60.0
Bromobenzene	Ave	0.7272	0.7482		51.4	50.0	2.9	60.0
trans-1,4-Dichloro-2-butene	Ave	0.1462	0.1614		55.2	50.0	10.3	60.0
1,2,3-Trichloropropane	Ave	0.6506	0.6816		52.4	50.0	4.8	60.0
N-Propylbenzene	Ave	2.663	2.703		50.7	50.0	1.5	60.0
2-Chlorotoluene	Ave	1.564	1.573		50.3	50.0	0.6	60.0
1,3,5-Trimethylbenzene	Ave	1.677	1.679		50.1	50.0	0.1	60.0
4-Chlorotoluene	Ave	1.737	1.747		50.3	50.0	0.5	60.0
tert-Butylbenzene	Ave	1.647	1.670		50.7	50.0	1.4	60.0
1,2,4-Trimethylbenzene	Ave	1.610	1.549		48.1	50.0	-3.8	60.0
sec-Butylbenzene	Ave	2.218	2.264		51.0	50.0	2.1	60.0
1,3-Dichlorobenzene	Ave	1.539	1.539		50.0	50.0	-0.0	60.0
p-Isopropyltoluene	Ave	2.637	2.602		49.3	50.0	-1.3	60.0
1,4-Dichlorobenzene	Ave	1.528	1.535		50.2	50.0	0.4	60.0
n-Butylbenzene	Ave	1.978	1.965		49.7	50.0	-0.7	60.0
1,2-Dichlorobenzene	Ave	1.361	1.354		49.7	50.0	-0.5	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: ICV 680-376029/14 Calibration Date: 03/25/2015 23:45
 Instrument ID: CMSAC Calib Start Date: 03/25/2015 20:21
 GC Column: RTX-VMS ID: 0.18 (mm) Calib End Date: 03/25/2015 23:00
 Lab File ID: ACC2514.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
1,2-Dibromo-3-Chloropropane	Ave	0.1088	0.1201		55.2	50.0	10.3	60.0
1,2,4-Trichlorobenzene	Ave	0.8851	0.8605		48.6	50.0	-2.8	60.0
Hexachlorobutadiene	Ave	0.4913	0.5051		51.4	50.0	2.8	60.0
Naphthalene	Ave	1.423	1.327		46.6	50.0	-6.7	60.0
1,2,3-Trichlorobenzene	Ave	0.7699	0.7660		49.7	50.0	-0.5	60.0
Dibromofluoromethane (Surr)	Ave	0.2655	0.2559		48.2	50.0	-3.6	60.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2500	0.2436		48.7	50.0	-2.6	60.0
Toluene-d8 (Surr)	Ave	0.9727	0.9265		47.6	50.0	-4.8	60.0
4-Bromofluorobenzene (Surr)	Ave	1.130	1.091		48.3	50.0	-3.4	60.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2514.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 25-Mar-2015 23:45:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018150-014
 Misc. Info.: ICV
 Operator ID: DK Instrument ID: CMSAC
 Sublist:
 Method: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 26-Mar-2015 14:17:38 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.137	1.137	0.000	99	145854	50.0	45.9	
2 Chloromethane	50	1.253	1.253	0.000	99	103350	50.0	49.5	
3 Vinyl chloride	62	1.302	1.302	0.000	98	163185	50.0	44.3	
4 Butadiene	54	1.320	1.320	0.000	95	187652	50.0	46.2	
5 Bromomethane	94	1.478	1.478	0.000	99	49377	50.0	55.5	
6 Chloroethane	64	1.539	1.539	0.000	99	83644	50.0	45.7	
7 Dichlorofluoromethane	67	1.655	1.655	0.000	0	245112	50.0	47.1	
8 Trichlorofluoromethane	101	1.679	1.679	0.000	99	266587	50.0	47.9	
10 Ethyl ether	59	1.837	1.837	0.000	94	119437	50.0	50.2	
11 Acrolein	56	1.934	1.934	0.000	96	201923	1000.0	964.7	
12 1,1,2-Trichloro-1,2,2-trif	151	1.995	1.995	0.000	98	159238	50.0	49.3	
13 1,1-Dichloroethene	96	2.001	2.001	0.000	98	167695	50.0	46.5	
14 Acetone	58	2.026	2.026	0.000	87	49967	250.0	208.4	
17 Iodomethane	142	2.117	2.117	0.000	97	138085	50.0	44.4	
18 Carbon disulfide	76	2.172	2.172	0.000	99	553881	50.0	51.3	
20 Methyl acetate	43	2.226	2.226	0.000	99	497628	250.0	277.6	
21 3-Chloro-1-propene	76	2.245	2.245	0.000	93	118914	50.0	41.3	
22 Methylene Chloride	84	2.336	2.336	0.000	92	158489	50.0	47.0	
23 2-Methyl-2-propanol	59	2.372	2.372	0.000	98	101102	500.0	490.7	
24 Acrylonitrile	53	2.488	2.488	0.000	95	446020	500.0	461.5	
25 Methyl tert-butyl ether	73	2.506	2.506	0.000	97	381280	50.0	51.1	
26 trans-1,2-Dichloroethene	96	2.518	2.518	0.000	94	180884	50.0	49.3	
27 Hexane	57	2.701	2.701	0.000	93	254010	50.0	50.9	
28 Vinyl acetate	43	2.804	2.804	0.000	100	224712	100.0	46.5	
29 1,1-Dichloroethane	63	2.823	2.823	0.000	100	328977	50.0	47.8	
33 2-Butanone (MEK)	72	3.206	3.206	0.000	98	71362	250.0	252.6	
34 cis-1,2-Dichloroethene	61	3.218	3.218	0.000	99	283521	50.0	51.7	
36 2,2-Dichloropropane	77	3.224	3.224	0.000	96	257195	50.0	47.3	
39 Chlorobromomethane	130	3.394	3.394	0.000	86	132027	50.0	48.0	
40 Tetrahydrofuran	42	3.401	3.400	0.000	92	67960	100.0	92.1	
41 Chloroform	83	3.455	3.455	0.000	99	306651	50.0	48.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.571	3.571	0.000	97	174615	50.0	48.2	
43 1,1,1-Trichloroethane	97	3.583	3.583	0.000	98	277818	50.0	50.6	
44 Cyclohexane	84	3.638	3.638	0.000	90	274985	50.0	50.7	
46 Carbon tetrachloride	117	3.693	3.692	0.001	98	257462	50.0	53.3	
45 1,1-Dichloropropene	75	3.693	3.692	0.001	95	247804	50.0	56.1	
47 Isobutyl alcohol	43	3.735	3.741	-0.006	97	117261	1250.0	1306.4	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.820	3.820	0.000	96	166181	50.0	48.7	
50 Benzene	78	3.839	3.838	0.000	97	720637	50.0	49.8	
51 1,2-Dichloroethane	62	3.881	3.881	0.000	98	205507	50.0	49.9	
54 n-Heptane	43	4.039	4.039	0.000	91	223596	50.0	45.0	
* 55 Fluorobenzene	96	4.058	4.057	0.001	0	682316	50.0	50.0	
57 Trichloroethene	132	4.319	4.319	0.000	96	210029	50.0	49.6	
59 Methylcyclohexane	83	4.496	4.496	0.000	96	323146	50.0	50.2	
60 1,2-Dichloropropane	63	4.514	4.514	0.000	94	185656	50.0	51.1	
62 1,4-Dioxane	88	4.562	4.569	-0.006	92	18214	1000.0	935.7	
63 Dibromomethane	93	4.581	4.581	0.000	92	102619	50.0	49.0	
64 Dichlorobromomethane	83	4.708	4.708	0.000	99	227997	50.0	51.4	
66 2-Chloroethyl vinyl ether	63	4.915	4.915	0.000	0	93644	50.0	53.2	
67 cis-1,3-Dichloropropene	75	5.037	5.037	0.000	92	286913	50.0	53.3	
68 4-Methyl-2-pentanone (MIBK	43	5.140	5.140	0.000	96	570869	250.0	248.4	
\$ 69 Toluene-d8 (Surr)	98	5.244	5.244	0.000	99	632131	50.0	47.6	
70 Toluene	92	5.292	5.299	-0.007	93	426408	50.0	48.1	
71 trans-1,3-Dichloropropene	75	5.475	5.475	0.000	96	253930	50.0	56.3	
72 Ethyl methacrylate	69	5.511	5.511	0.000	89	188388	50.0	49.0	
73 1,1,2-Trichloroethane	83	5.627	5.627	0.000	96	118382	50.0	50.3	
74 Tetrachloroethene	164	5.694	5.694	0.000	97	177275	50.0	50.0	
75 1,3-Dichloropropane	76	5.755	5.755	0.000	94	235705	50.0	49.6	
76 2-Hexanone	43	5.791	5.791	0.000	96	384753	250.0	229.4	
78 Chlorodibromomethane	129	5.925	5.925	0.000	98	180714	50.0	54.0	
79 Ethylene Dibromide	107	6.022	6.022	0.000	99	148863	50.0	50.7	
* 80 Chlorobenzene-d5	82	6.387	6.387	0.000	85	245057	50.0	50.0	
82 Chlorobenzene	112	6.412	6.412	0.000	96	463266	50.0	50.0	
83 1,1,1,2-Tetrachloroethane	131	6.485	6.485	0.000	96	178701	50.0	55.0	
84 Ethylbenzene	91	6.485	6.491	-0.006	98	722221	50.0	51.1	
85 m-Xylene & p-Xylene	91	6.594	6.594	0.000	91	502279	50.0	49.6	
86 o-Xylene	91	6.905	6.905	0.000	94	503866	50.0	50.9	
88 Styrene	104	6.923	6.923	0.000	96	397615	50.0	48.6	
89 Bromoform	173	7.075	7.075	0.000	99	117649	50.0	58.0	
90 Isopropylbenzene	105	7.209	7.203	0.006	95	652628	50.0	51.1	
\$ 92 4-Bromofluorobenzene (Surr	95	7.355	7.355	0.000	88	182354	50.0	48.3	
93 1,1,2,2-Tetrachloroethane	83	7.464	7.464	0.000	98	140363	50.0	52.9	
94 Bromobenzene	156	7.464	7.464	0.000	91	183351	50.0	51.4	
95 trans-1,4-Dichloro-2-buten	53	7.495	7.495	0.000	92	39539	50.0	55.2	
96 1,2,3-Trichloropropane	75	7.507	7.507	0.000	96	167037	50.0	52.4	
97 N-Propylbenzene	91	7.549	7.549	0.000	100	662325	50.0	50.7	
98 2-Chlorotoluene	91	7.622	7.622	0.000	97	385510	50.0	50.3	
99 1,3,5-Trimethylbenzene	105	7.708	7.708	0.000	93	411460	50.0	50.1	
100 4-Chlorotoluene	91	7.726	7.726	0.000	97	428069	50.0	50.3	
102 tert-Butylbenzene	119	7.963	7.963	0.000	95	409135	50.0	50.7	
105 1,2,4-Trimethylbenzene	105	8.012	8.012	0.000	97	379609	50.0	48.1	
106 sec-Butylbenzene	105	8.146	8.146	0.000	99	554894	50.0	51.0	
107 1,3-Dichlorobenzene	146	8.243	8.243	0.000	98	257255	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	8.279	8.279	0.000	98	435131	50.0	49.3	
* 109 1,4-Dichlorobenzene-d4	152	8.316	8.310	0.006	98	167210	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.334	8.334	0.000	96	256700	50.0	50.2	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	328516	50.0	49.7	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	98	226376	50.0	49.7	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	92	20073	50.0	55.2	
117 1,2,4-Trichlorobenzene	180	9.977	9.977	0.000	94	143891	50.0	48.6	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	98	84456	50.0	51.4	
119 Naphthalene	128	10.196	10.196	0.000	99	221945	50.0	46.6	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	128081	50.0	49.7	
S 122 1,2-Dichloroethene, Total	1				0		100.0	101.0	
S 123 Xylenes, Total	1				0		100.0	100.5	
S 124 1,3-Dichloropropene, Total	1				0		100.0	109.6	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_MMIX2nd_00830	Amount Added: 5.00	Units: uL
VM_ACROLEIN2_00019	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2514.D

Injection Date: 25-Mar-2015 23:45:30

Instrument ID: CMSAC

Operator ID: DK

Lims ID: ICV

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

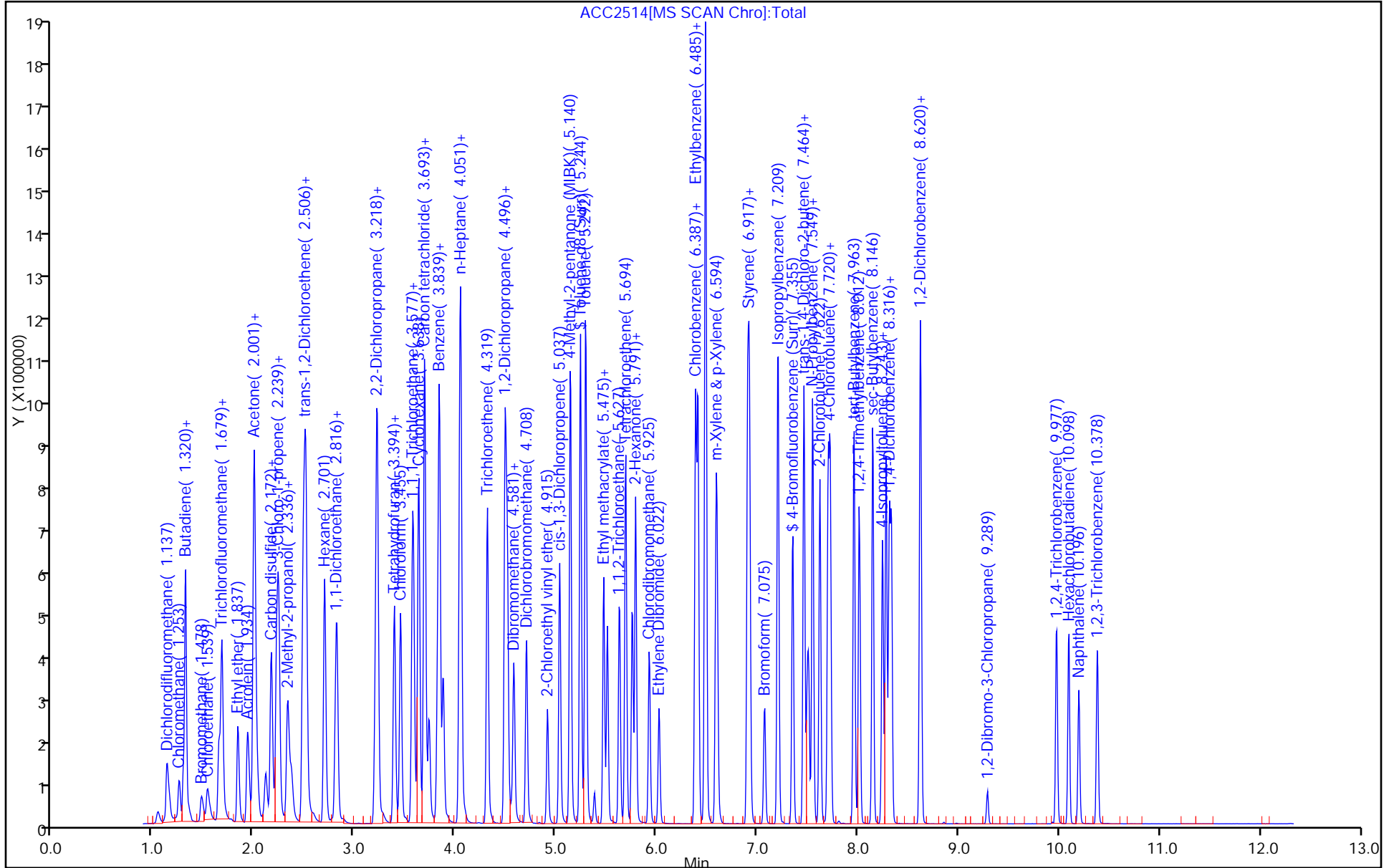
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-376701/3 Calibration Date: 03/30/2015 12:01
 Instrument ID: CMSAC Calib Start Date: 03/25/2015 20:21
 GC Column: RTX-VMS ID: 0.18 (mm) Calib End Date: 03/25/2015 23:00
 Lab File ID: ACC3003.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	0.2331	0.2193		47.0	50.0	-5.9	60.0
Chloromethane	LinF		0.1562	0.1000	51.0	50.0	2.0	60.0
Vinyl chloride	Ave	0.2697	0.2365		43.8	50.0	-12.3	20.0
1,3-Butadiene	Ave	0.2979	0.2629		44.1	50.0	-11.7	60.0
Bromomethane	Ave	0.0652	0.0703		53.9	50.0	7.8	60.0
Chloroethane	Ave	0.1342	0.1269		47.3	50.0	-5.5	60.0
Dichlorofluoromethane	Ave	0.3812	0.3548		46.5	50.0	-6.9	60.0
Trichlorofluoromethane	Ave	0.4078	0.3871		47.5	50.0	-5.1	60.0
Ethyl ether	Ave	0.1745	0.1816		52.0	50.0	4.1	60.0
Acrolein	Ave	0.0153	0.0164		1070	1000	7.0	60.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2369	0.2321		49.0	50.0	-2.0	60.0
1,1-Dichloroethene	Ave	0.2640	0.2442		46.2	50.0	-7.5	20.0
Acetone	Ave	0.0176	0.0167		238	250	-4.9	60.0
Iodomethane	LinF		0.2157		52.8	50.0	5.6	60.0
Carbon disulfide	QuaF		0.8268		52.3	50.0	4.6	60.0
Methyl acetate	Ave	0.1313	0.1266		241	250	-3.6	60.0
Allyl chloride	Ave	0.2111	0.1845		43.7	50.0	-12.6	60.0
Methylene Chloride	Ave	0.2471	0.2379		48.1	50.0	-3.7	60.0
tert-Butyl alcohol	Ave	0.0151	0.0137		452	500	-9.6	60.0
Acrylonitrile	Ave	0.0708	0.0693		489	500	-2.1	60.0
Methyl tert-butyl ether	Ave	0.5464	0.5581		51.1	50.0	2.1	60.0
trans-1,2-Dichloroethene	Ave	0.2687	0.2606		48.5	50.0	-3.0	60.0
Hexane	Ave	0.3656	0.3632		49.7	50.0	-0.6	60.0
Vinyl acetate	Ave	0.3540	0.3765		106	100	6.4	60.0
1,1-Dichloroethane	Ave	0.5048	0.4724	0.1000	46.8	50.0	-6.4	60.0
2-Butanone	Ave	0.0207	0.0218		264	250	5.5	60.0
cis-1,2-Dichloroethene	LinF		0.4089		50.8	50.0	1.7	60.0
2,2-Dichloropropane	Ave	0.3988	0.3751		47.0	50.0	-5.9	60.0
Bromochloromethane	Ave	0.2017	0.2042		50.6	50.0	1.2	60.0
Tetrahydrofuran	Lin		0.0498		92.0	100	-8.0	60.0
Chloroform	Ave	0.4599	0.4586		49.9	50.0	-0.3	20.0
1,1,1-Trichloroethane	Ave	0.4024	0.3802		47.2	50.0	-5.5	60.0
Cyclohexane	Ave	0.3977	0.3888		48.9	50.0	-2.2	60.0
1,1-Dichloropropene	Ave	0.3237	0.3182		49.1	50.0	-1.7	60.0
Carbon tetrachloride	Ave	0.3539	0.3404		48.1	50.0	-3.8	60.0
Isobutanol	LinF	0.0075	0.0066		1240	1250	-0.4	60.0
Benzene	Ave	1.060	1.056		49.8	50.0	-0.3	60.0
1,2-Dichloroethane	Ave	0.3016	0.3044		50.5	50.0	0.9	60.0
n-Heptane	Ave	0.3638	0.3259		44.8	50.0	-10.4	60.0
Trichloroethene	LinF		0.2972		47.9	50.0	-4.2	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-376701/3 Calibration Date: 03/30/2015 12:01
 Instrument ID: CMSAC Calib Start Date: 03/25/2015 20:21
 GC Column: RTX-VMS ID: 0.18 (mm) Calib End Date: 03/25/2015 23:00
 Lab File ID: ACC3003.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
Methylcyclohexane	Ave	0.4717	0.4648		49.3	50.0	-1.5	60.0
1,2-Dichloropropane	Ave	0.2660	0.2731		51.3	50.0	2.6	20.0
1,4-Dioxane	Ave	0.0014	0.0014		988	1000	-1.2	60.0
Dibromomethane	Ave	0.1536	0.1519		49.5	50.0	-1.1	60.0
Bromodichloromethane	Ave	0.3253	0.3338		51.3	50.0	2.6	60.0
2-Chloroethyl vinyl ether	Ave	0.1291	0.1356		52.5	50.0	5.1	60.0
cis-1,3-Dichloropropene	Ave	0.3945	0.4102		52.0	50.0	4.0	60.0
4-Methyl-2-pentanone	Ave	0.1684	0.1633		243	250	-3.0	60.0
Toluene	Ave	0.6502	0.6143		47.2	50.0	-5.5	20.0
trans-1,3-Dichloropropene	Ave	0.3304	0.3405		51.5	50.0	3.1	60.0
Ethyl methacrylate	Ave	0.2817	0.2674		47.5	50.0	-5.1	60.0
1,1,2-Trichloroethane	Ave	0.1724	0.1754		50.9	50.0	1.7	60.0
Tetrachloroethene	Ave	0.2596	0.2513		48.4	50.0	-3.2	60.0
1,3-Dichloropropane	Ave	0.3479	0.3551		51.0	50.0	2.1	60.0
2-Hexanone	Ave	0.1229	0.1091		222	250	-11.2	60.0
Dibromochloromethane	Ave	0.2454	0.2565		52.3	50.0	4.5	60.0
1,2-Dibromoethane	Ave	0.2150	0.2227		51.8	50.0	3.6	60.0
Chlorobenzene	Ave	1.891	1.896	0.3000	50.1	50.0	0.3	60.0
1,1,1,2-Tetrachloroethane	Ave	0.6626	0.7066		53.3	50.0	6.6	60.0
Ethylbenzene	Ave	2.883	2.846		49.4	50.0	-1.3	20.0
m-Xylene & p-Xylene	Ave	2.066	1.972		47.7	50.0	-4.5	60.0
o-Xylene	Ave	2.021	1.984		49.1	50.0	-1.8	60.0
Styrene	Ave	1.670	1.694		50.7	50.0	1.4	60.0
Bromoform	Ave	0.4141	0.4428	0.1000	53.5	50.0	7.0	60.0
Isopropylbenzene	Ave	2.608	2.571		49.3	50.0	-1.4	60.0
1,1,2,2-Tetrachloroethane	Ave	0.5410	0.5721	0.3000	52.9	50.0	5.8	60.0
Bromobenzene	Ave	0.7272	0.7462		51.3	50.0	2.6	60.0
trans-1,4-Dichloro-2-butene	Ave	0.1462	0.1501		51.3	50.0	2.7	60.0
1,2,3-Trichloropropane	Ave	0.6506	0.6813		52.4	50.0	4.7	60.0
N-Propylbenzene	Ave	2.663	2.609		49.0	50.0	-2.0	60.0
2-Chlorotoluene	Ave	1.564	1.527		48.8	50.0	-2.3	60.0
1,3,5-Trimethylbenzene	Ave	1.677	1.657		49.4	50.0	-1.2	60.0
4-Chlorotoluene	Ave	1.737	1.704		49.0	50.0	-1.9	60.0
tert-Butylbenzene	Ave	1.647	1.618		49.1	50.0	-1.8	60.0
1,2,4-Trimethylbenzene	Ave	1.610	1.572		48.8	50.0	-2.3	60.0
sec-Butylbenzene	Ave	2.218	2.195		49.5	50.0	-1.0	60.0
1,3-Dichlorobenzene	Ave	1.539	1.483		48.2	50.0	-3.6	60.0
p-Isopropyltoluene	Ave	2.637	2.490		47.2	50.0	-5.6	60.0
1,4-Dichlorobenzene	Ave	1.528	1.471		48.1	50.0	-3.8	60.0
n-Butylbenzene	Ave	1.978	1.880		47.5	50.0	-4.9	60.0
1,2-Dichlorobenzene	Ave	1.361	1.318		48.4	50.0	-3.2	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-376701/3 Calibration Date: 03/30/2015 12:01
 Instrument ID: CMSAC Calib Start Date: 03/25/2015 20:21
 GC Column: RTX-VMS ID: 0.18 (mm) Calib End Date: 03/25/2015 23:00
 Lab File ID: ACC3003.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
1,2-Dibromo-3-Chloropropane	Ave	0.1088	0.1030		47.3	50.0	-5.4	60.0
1,2,4-Trichlorobenzene	Ave	0.8851	0.8543		48.3	50.0	-3.5	60.0
Hexachlorobutadiene	Ave	0.4913	0.4586		46.7	50.0	-6.7	60.0
Naphthalene	Ave	1.423	1.258		44.2	50.0	-11.6	60.0
1,2,3-Trichlorobenzene	Ave	0.7699	0.7305		47.4	50.0	-5.1	60.0
Dibromofluoromethane (Surr)	Ave	0.2655	0.2589		48.8	50.0	-2.5	60.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2500	0.2477		49.5	50.0	-0.9	60.0
Toluene-d8 (Surr)	Ave	0.9727	0.9163		47.1	50.0	-5.8	60.0
4-Bromofluorobenzene (Surr)	Ave	1.130	1.040		46.0	50.0	-8.0	60.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3003.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 30-Mar-2015 12:01:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018298-003
 Misc. Info.: CCVIS
 Operator ID: JK Instrument ID: CMSAC
 Sublist: chrom-2014_MSAC*sub6
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 12:26:16 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tippinsm

Date: 30-Mar-2015 12:26:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.137	1.137	0.000	99	140129	50.0	47.0	
2 Chloromethane	50	1.253	1.253	0.000	99	99833	50.0	51.0	
3 Vinyl chloride	62	1.302	1.302	0.000	98	151140	50.0	43.8	
4 Butadiene	54	1.320	1.320	0.000	95	168014	50.0	44.1	
5 Bromomethane	94	1.478	1.478	0.000	99	44924	50.0	53.9	
6 Chloroethane	64	1.539	1.539	0.000	99	81073	50.0	47.3	
7 Dichlorofluoromethane	67	1.648	1.648	0.000	0	226732	50.0	46.5	
8 Trichlorofluoromethane	101	1.679	1.679	0.000	99	247406	50.0	47.5	
10 Ethyl ether	59	1.837	1.837	0.000	95	116031	50.0	52.0	
11 Acrolein	56	1.934	1.934	0.000	95	209775	1000.0	1070.0	
12 1,1,2-Trichloro-1,2,2-trif	151	1.995	1.995	0.000	96	148302	50.0	49.0	
13 1,1-Dichloroethene	96	2.001	2.001	0.000	98	156023	50.0	46.2	
14 Acetone	58	2.020	2.020	0.000	87	53394	250.0	237.7	
17 Iodomethane	142	2.117	2.117	0.000	98	137838	50.0	52.8	
18 Carbon disulfide	76	2.172	2.172	0.000	99	528352	50.0	52.3	
20 Methyl acetate	43	2.220	2.220	0.000	99	404649	250.0	241.0	
21 3-Chloro-1-propene	76	2.245	2.245	0.000	93	117927	50.0	43.7	
22 Methylene Chloride	84	2.336	2.336	0.000	90	152044	50.0	48.1	
23 2-Methyl-2-propanol	59	2.372	2.372	0.000	99	87269	500.0	452.2	
24 Acrylonitrile	53	2.488	2.488	0.000	95	443051	500.0	489.4	
25 Methyl tert-butyl ether	73	2.500	2.500	0.000	97	356633	50.0	51.1	
26 trans-1,2-Dichloroethene	96	2.518	2.518	0.000	94	166562	50.0	48.5	
27 Hexane	57	2.701	2.701	0.000	93	232120	50.0	49.7	
28 Vinyl acetate	43	2.804	2.804	0.000	100	481234	100.0	106.4	
29 1,1-Dichloroethane	63	2.823	2.823	0.000	100	301865	50.0	46.8	
33 2-Butanone (MEK)	72	3.200	3.200	0.000	98	69762	250.0	263.7	
34 cis-1,2-Dichloroethene	61	3.218	3.218	0.000	99	261329	50.0	50.8	
36 2,2-Dichloropropane	77	3.224	3.224	0.000	95	239728	50.0	47.0	
39 Chlorobromomethane	130	3.388	3.388	0.000	85	130465	50.0	50.6	
40 Tetrahydrofuran	42	3.394	3.394	0.000	91	63602	100.0	92.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	3.455	3.455	0.000	100	293096	50.0	49.9	
\$ 42 Dibromofluoromethane (Surr	113	3.571	3.571	0.000	97	165439	50.0	48.8	
43 1,1,1-Trichloroethane	97	3.583	3.583	0.000	98	242988	50.0	47.2	
44 Cyclohexane	84	3.632	3.632	0.000	90	248476	50.0	48.9	
46 Carbon tetrachloride	117	3.693	3.693	0.000	97	217522	50.0	48.1	
45 1,1-Dichloropropene	75	3.693	3.693	0.000	96	203324	50.0	49.1	
47 Isobutyl alcohol	43	3.735	3.735	0.000	95	104640	1250.0	1244.7	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.820	3.820	0.000	96	158296	50.0	49.5	
50 Benzene	78	3.839	3.839	0.000	96	675005	50.0	49.8	
51 1,2-Dichloroethane	62	3.875	3.875	0.000	98	194519	50.0	50.5	
54 n-Heptane	43	4.039	4.039	0.000	94	208280	50.0	44.8	
* 55 Fluorobenzene	96	4.051	4.051	0.000	0	639056	50.0	50.0	
57 Trichloroethene	132	4.319	4.319	0.000	96	189915	50.0	47.9	
59 Methylcyclohexane	83	4.496	4.496	0.000	95	297003	50.0	49.3	
60 1,2-Dichloropropane	63	4.514	4.514	0.000	94	174495	50.0	51.3	
62 1,4-Dioxane	88	4.562	4.562	0.000	95	18022	1000.0	988.5	
63 Dibromomethane	93	4.581	4.581	0.000	90	97094	50.0	49.5	
64 Dichlorobromomethane	83	4.702	4.702	0.000	99	213321	50.0	51.3	
66 2-Chloroethyl vinyl ether	63	4.915	4.915	0.000	0	86677	50.0	52.5	
67 cis-1,3-Dichloropropene	75	5.037	5.037	0.000	91	262117	50.0	52.0	
68 4-Methyl-2-pentanone (MIBK	43	5.140	5.140	0.000	95	521922	250.0	242.5	
\$ 69 Toluene-d8 (Surr)	98	5.244	5.244	0.000	99	585593	50.0	47.1	
70 Toluene	92	5.292	5.292	0.000	93	392563	50.0	47.2	
71 trans-1,3-Dichloropropene	75	5.475	5.475	0.000	97	217585	50.0	51.5	
72 Ethyl methacrylate	69	5.511	5.511	0.000	89	170897	50.0	47.5	
73 1,1,2-Trichloroethane	83	5.627	5.627	0.000	96	112096	50.0	50.9	
74 Tetrachloroethene	164	5.688	5.688	0.000	97	160561	50.0	48.4	
75 1,3-Dichloropropane	76	5.755	5.755	0.000	94	226922	50.0	51.0	
76 2-Hexanone	43	5.791	5.791	0.000	94	348648	250.0	222.0	
78 Chlorodibromomethane	129	5.925	5.925	0.000	98	163928	50.0	52.3	
79 Ethylene Dibromide	107	6.022	6.022	0.000	99	142335	50.0	51.8	
* 80 Chlorobenzene-d5	82	6.387	6.387	0.000	84	230077	50.0	50.0	
82 Chlorobenzene	112	6.412	6.412	0.000	97	436113	50.0	50.1	
83 1,1,1,2-Tetrachloroethane	131	6.479	6.479	0.000	96	162578	50.0	53.3	
84 Ethylbenzene	91	6.485	6.485	0.000	98	654728	50.0	49.4	
85 m-Xylene & p-Xylene	91	6.594	6.594	0.000	91	453641	50.0	47.7	
86 o-Xylene	91	6.905	6.905	0.000	95	456570	50.0	49.1	
88 Styrene	104	6.923	6.923	0.000	96	389827	50.0	50.7	
89 Bromoform	173	7.069	7.069	0.000	99	101887	50.0	53.5	
90 Isopropylbenzene	105	7.203	7.203	0.000	95	591607	50.0	49.3	
\$ 92 4-Bromofluorobenzene (Surr	95	7.349	7.349	0.000	89	170889	50.0	46.0	
93 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	98	131634	50.0	52.9	
94 Bromobenzene	156	7.464	7.464	0.000	91	171688	50.0	51.3	
95 trans-1,4-Dichloro-2-buten	53	7.495	7.495	0.000	87	34537	50.0	51.3	
96 1,2,3-Trichloropropane	75	7.507	7.507	0.000	97	156758	50.0	52.4	
97 N-Propylbenzene	91	7.549	7.549	0.000	100	600250	50.0	49.0	
98 2-Chlorotoluene	91	7.622	7.622	0.000	97	351371	50.0	48.8	
99 1,3,5-Trimethylbenzene	105	7.702	7.702	0.000	93	381204	50.0	49.4	
100 4-Chlorotoluene	91	7.726	7.726	0.000	96	392007	50.0	49.0	
102 tert-Butylbenzene	119	7.957	7.957	0.000	96	372223	50.0	49.1	
105 1,2,4-Trimethylbenzene	105	8.012	8.012	0.000	96	361781	50.0	48.8	
106 sec-Butylbenzene	105	8.146	8.146	0.000	99	505061	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,3-Dichlorobenzene	146	8.243	8.243	0.000	98	243733	50.0	48.2	
108 4-Isopropyltoluene	119	8.279	8.279	0.000	98	409338	50.0	47.2	
* 109 1,4-Dichlorobenzene-d4	152	8.310	8.310	0.000	95	164375	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.328	8.328	0.000	96	241756	50.0	48.1	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	309101	50.0	47.5	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	98	216616	50.0	48.4	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	93	16925	50.0	47.3	
117 1,2,4-Trichlorobenzene	180	9.971	9.971	0.000	93	140419	50.0	48.3	
118 Hexachlorobutadiene	225	10.092	10.092	0.000	98	75379	50.0	46.7	
119 Naphthalene	128	10.196	10.196	0.000	99	206753	50.0	44.2	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	120081	50.0	47.4	
S 122 1,2-Dichloroethene, Total	1				0		100.0	99.3	
S 123 Xylenes, Total	1				0		100.0	96.8	
S 124 1,3-Dichloropropene, Total	1				0		100.0	103.5	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01720	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3003.D

Injection Date: 30-Mar-2015 12:01:30

Instrument ID: CMSAC

Operator ID: JK

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

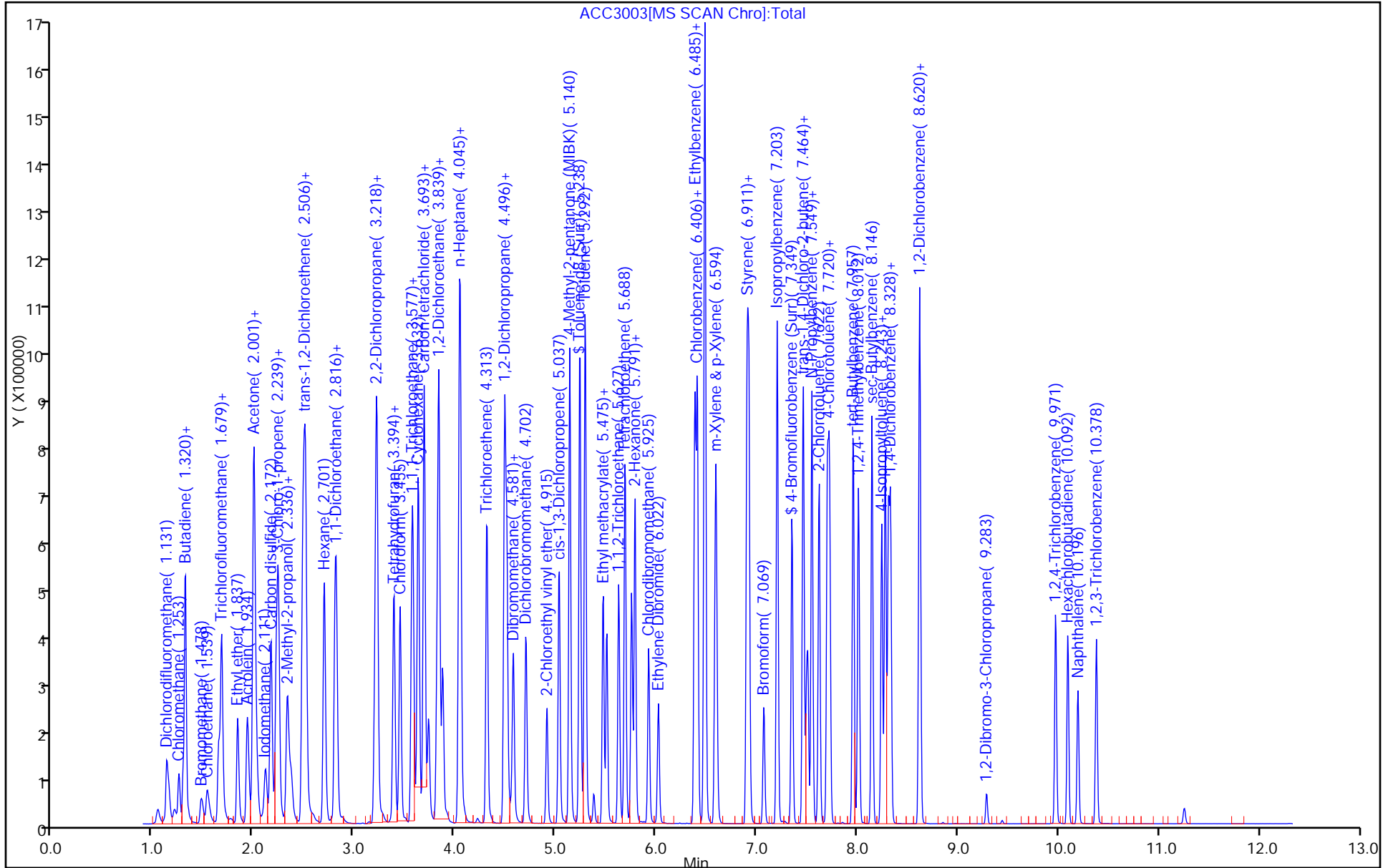
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: ICV 680-376722/13 Calibration Date: 03/30/2015 17:23
 Instrument ID: CMSP2 Calib Start Date: 03/30/2015 13:41
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/30/2015 16:12
 Lab File ID: PC3013Q.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	0.2732	0.2888		52.9	50.0	5.7	60.0
Chloromethane	LinF		0.2224	0.1000	48.1	50.0	-3.8	60.0
Vinyl chloride	Ave	0.2400	0.2432		50.7	50.0	1.3	60.0
1,3-Butadiene	Ave	0.1955	0.2030		51.9	50.0	3.8	60.0
Bromomethane	Qua	0.1332	0.1467		52.9	50.0	5.9	60.0
Chloroethane	Ave	0.1205	0.1260		52.3	50.0	4.6	60.0
Dichlorofluoromethane	Ave	0.3676	0.3854		52.4	50.0	4.8	60.0
Trichlorofluoromethane	Ave	0.3309	0.3427		51.8	50.0	3.6	60.0
Ethyl ether	Ave	0.1846	0.1873		50.7	50.0	1.5	60.0
Acrolein	QuaF		0.0234		1530	1000	53.3	60.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2406	0.2194		45.6	50.0	-8.8	60.0
1,1-Dichloroethene	Ave	0.2237	0.1949		43.6	50.0	-12.9	60.0
Acetone	Ave	0.0219	0.0217		248	250	-1.0	60.0
Iodomethane	QuaF		0.2707		44.8	50.0	-10.3	60.0
Carbon disulfide	Ave	0.6905	0.5733		41.5	50.0	-17.0	60.0
Methyl acetate	Ave	0.1629	0.1805		277	250	10.8	60.0
Allyl chloride	Ave	0.1831	0.1654		45.2	50.0	-9.7	60.0
Methylene Chloride	Ave	0.2500	0.2453		49.1	50.0	-1.9	60.0
tert-Butyl alcohol	Ave	0.0244	0.0256		526	500	5.2	60.0
Acrylonitrile	Ave	0.0922	0.0918		498	500	-0.5	60.0
Methyl tert-butyl ether	Ave	0.7128	0.7017		49.2	50.0	-1.6	60.0
trans-1,2-Dichloroethene	Ave	0.2432	0.2280		46.9	50.0	-6.2	60.0
Hexane	Ave	0.3651	0.3124		42.8	50.0	-14.4	60.0
Vinyl acetate	Ave	0.4228	0.2521		59.6	100	-40.4	60.0
1,1-Dichloroethane	Ave	0.3822	0.3710	0.1000	48.5	50.0	-2.9	60.0
Methyl ethyl ketone (MEK)	Ave	0.0333	0.0338		254	250	1.7	60.0
cis-1,2-Dichloroethene	Ave	0.3417	0.3262		47.7	50.0	-4.5	60.0
2,2-Dichloropropane	Ave	0.3080	0.3204		52.0	50.0	4.0	60.0
Bromochloromethane	Ave	0.1952	0.1883		48.2	50.0	-3.5	60.0
Tetrahydrofuran	Ave	0.0659	0.0632		96.0	100	-4.0	60.0
Chloroform	Ave	0.3927	0.3895		49.6	50.0	-0.8	60.0
1,1,1-Trichloroethane	Ave	0.3413	0.3307		48.4	50.0	-3.1	60.0
Cyclohexane	Ave	0.3946	0.3274		41.5	50.0	-17.0	60.0
1,1-Dichloropropene	Ave	0.3050	0.2968		48.7	50.0	-2.7	60.0
Carbon tetrachloride	Ave	0.2883	0.2828		49.0	50.0	-1.9	60.0
Isobutanol	Ave	0.0098	0.0101		1290	1250	3.0	60.0
Benzene	Ave	0.999	0.9378		47.0	50.0	-6.1	60.0
1,2-Dichloroethane	Ave	0.3049	0.2961		48.6	50.0	-2.9	60.0
n-Heptane	Ave	0.3829	0.3154		41.2	50.0	-17.6	60.0
Trichloroethene	Ave	0.3186	0.2950		46.3	50.0	-7.4	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: ICV 680-376722/13 Calibration Date: 03/30/2015 17:23
 Instrument ID: CMS2 Calib Start Date: 03/30/2015 13:41
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/30/2015 16:12
 Lab File ID: PC3013Q.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
Methylcyclohexane	Ave	0.5217	0.4495		43.1	50.0	-13.8	60.0
1,2-Dichloropropane	Ave	0.2326	0.2278		49.0	50.0	-2.1	60.0
1,4-Dioxane	Ave	0.0038	0.0038		1010	1000	1.2	60.0
Dibromomethane	Ave	0.1617	0.1578		48.8	50.0	-2.4	60.0
Bromodichloromethane	Ave	0.3119	0.3171		50.8	50.0	1.7	60.0
2-Chloroethyl vinyl ether	Ave	0.1796	0.1858		51.7	50.0	3.5	60.0
cis-1,3-Dichloropropene	Ave	0.3907	0.4084		52.3	50.0	4.5	60.0
Methyl isobutyl ketone (MIBK)	Ave	0.2176	0.2212		254	250	1.6	60.0
Toluene	Ave	0.7154	0.6816		47.6	50.0	-4.7	60.0
trans-1,3-Dichloropropene	Ave	0.3515	0.3905		55.5	50.0	11.1	60.0
Ethyl methacrylate	Ave	0.3501	0.3608		51.5	50.0	3.1	60.0
1,1,2-Trichloroethane	Ave	0.2101	0.2068		49.2	50.0	-1.6	60.0
Tetrachloroethene	Ave	0.3195	0.2881		45.1	50.0	-9.8	60.0
1,3-Dichloropropane	Ave	0.4205	0.4004		47.6	50.0	-4.8	60.0
2-Hexanone	Ave	0.1543	0.1556		252	250	0.8	60.0
Dibromochloromethane	Ave	0.2937	0.3047		51.9	50.0	3.7	60.0
1,2-Dibromoethane	Ave	0.2935	0.2869		48.9	50.0	-2.2	60.0
Chlorobenzene	Ave	2.020	1.915	0.3000	47.4	50.0	-5.2	60.0
1,1,1,2-Tetrachloroethane	Ave	0.6418	0.6540		50.9	50.0	1.9	60.0
Ethylbenzene	Ave	3.178	2.980		46.9	50.0	-6.2	60.0
m-Xylene & p-Xylene	Ave	2.566	2.398		46.7	50.0	-6.6	60.0
o-Xylene	Ave	2.590	2.510		48.4	50.0	-3.1	60.0
Styrene	Ave	2.238	2.107		47.1	50.0	-5.9	60.0
Bromoform	Ave	0.5521	0.5851	0.1000	53.0	50.0	6.0	60.0
Isopropylbenzene	Ave	3.507	3.356		47.8	50.0	-4.3	60.0
1,1,2,2-Tetrachloroethane	Ave	0.7756	0.7819	0.3000	50.4	50.0	0.8	60.0
Bromobenzene	Ave	1.051	1.006		47.8	50.0	-4.3	60.0
trans-1,4-Dichloro-2-butene	Ave	0.1844	0.2001		54.3	50.0	8.5	60.0
1,2,3-Trichloropropane	Ave	0.9842	0.996		50.6	50.0	1.2	60.0
N-Propylbenzene	Ave	3.955	3.725		47.1	50.0	-5.8	60.0
2-Chlorotoluene	Ave	2.337	2.175		46.5	50.0	-6.9	60.0
1,3,5-Trimethylbenzene	Ave	2.917	2.753		47.2	50.0	-5.6	60.0
4-Chlorotoluene	Ave	2.680	2.503		46.7	50.0	-6.6	60.0
tert-Butylbenzene	Ave	2.761	2.643		47.8	50.0	-4.3	60.0
1,2,4-Trimethylbenzene	Ave	2.900	2.712		46.8	50.0	-6.5	60.0
sec-Butylbenzene	Ave	4.001	3.805		47.6	50.0	-4.9	60.0
1,3-Dichlorobenzene	Ave	1.589	1.521		47.9	50.0	-4.2	60.0
p-Isopropyltoluene	Ave	2.788	2.628		47.1	50.0	-5.7	60.0
1,4-Dichlorobenzene	Ave	1.571	1.515		48.2	50.0	-3.6	60.0
n-Butylbenzene	Ave	2.224	2.156		48.5	50.0	-3.1	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: ICV 680-376722/13 Calibration Date: 03/30/2015 17:23
 Instrument ID: CMSP2 Calib Start Date: 03/30/2015 13:41
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/30/2015 16:12
 Lab File ID: PC3013Q.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
1,2-Dichlorobenzene	Ave	1.495	1.460		48.8	50.0	-2.4	60.0
1,2-Dibromo-3-Chloropropane	Ave	0.1741	0.1902		54.6	50.0	9.3	60.0
1,2,4-Trichlorobenzene	Ave	1.027	0.9850		48.0	50.0	-4.1	60.0
Hexachlorobutadiene	Ave	0.6570	0.6373		48.5	50.0	-3.0	60.0
Naphthalene	Ave	1.506	1.534		50.9	50.0	1.9	60.0
1,2,3-Trichlorobenzene	Ave	0.8580	0.8143		47.5	50.0	-5.1	60.0
Dibromofluoromethane (Surr)	Ave	0.2412	0.2370		49.1	50.0	-1.8	60.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2639	0.2538		48.1	50.0	-3.8	60.0
Toluene-d8 (Surr)	Ave	2.480	2.408		48.5	50.0	-2.9	60.0
4-Bromofluorobenzene (Surr)	Ave	0.8178	0.7985		48.8	50.0	-2.4	60.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3013Q.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 30-Mar-2015 17:23:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018304-013
 Misc. Info.: ICV
 Operator ID: MT Instrument ID: CMSP2
 Sublist:
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 19:32:53 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK014

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	99	120983	50.0	52.9	
3 Chloromethane	50	1.319	1.319	0.000	98	93167	50.0	48.1	
2 Vinyl chloride	62	1.350	1.350	0.000	98	101890	50.0	50.7	
4 Butadiene	54	1.374	1.368	0.006	95	85024	50.0	51.9	
5 Bromomethane	94	1.532	1.532	0.000	99	61434	50.0	52.9	
6 Chloroethane	64	1.587	1.587	0.000	99	52784	50.0	52.3	
7 Dichlorofluoromethane	67	1.703	1.703	0.000	99	161419	50.0	52.4	
8 Trichlorofluoromethane	101	1.739	1.733	0.006	98	143557	50.0	51.8	
10 Ethyl ether	59	1.897	1.897	0.000	95	78474	50.0	50.7	
13 Acrolein	56	1.988	1.989	0.000	96	196294	1000.0	1533.3	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.055	0.006	95	91921	50.0	45.6	
15 1,1-Dichloroethene	96	2.061	2.062	-0.001	94	81654	50.0	43.6	
16 Acetone	58	2.074	2.074	0.000	87	45363	250.0	247.5	
17 Iodomethane	142	2.171	2.171	0.000	95	113400	50.0	44.8	
18 Carbon disulfide	76	2.232	2.232	0.000	98	240132	50.0	41.5	
20 Methyl acetate	43	2.280	2.274	0.006	97	377995	250.0	276.9	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	93	69268	50.0	45.2	
22 Methylene Chloride	84	2.384	2.384	0.000	83	102751	50.0	49.1	
23 2-Methyl-2-propanol	59	2.426	2.427	-0.001	99	107355	500.0	526.0	
26 Acrylonitrile	53	2.530	2.530	0.000	94	384541	500.0	497.6	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	293924	50.0	49.2	
25 trans-1,2-Dichloroethene	96	2.579	2.573	0.006	90	95521	50.0	46.9	
27 Hexane	57	2.761	2.755	0.006	90	130862	50.0	42.8	
30 Vinyl acetate	43	2.858	2.858	0.000	99	211193	100.0	59.6	
29 1,1-Dichloroethane	63	2.871	2.871	0.000	99	155400	50.0	48.5	
36 2-Butanone (MEK)	72	3.242	3.242	0.000	94	70823	250.0	254.2	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	98	136636	50.0	47.7	
34 2,2-Dichloropropane	77	3.278	3.272	0.006	94	134209	50.0	52.0	
38 Chlorobromomethane	130	3.436	3.436	0.000	76	78865	50.0	48.2	
39 Tetrahydrofuran	42	3.442	3.442	0.000	88	52975	100.0	96.0	
41 Chloroform	83	3.497	3.497	0.000	99	163133	50.0	49.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	99269	50.0	49.1	
43 1,1,1-Trichloroethane	97	3.631	3.631	0.000	97	138543	50.0	48.4	
42 Cyclohexane	84	3.686	3.686	0.000	85	137153	50.0	41.5	
47 1,1-Dichloropropene	75	3.734	3.734	0.000	98	124317	50.0	48.7	
45 Carbon tetrachloride	117	3.741	3.741	0.000	97	118456	50.0	49.0	
50 Isobutyl alcohol	43	3.771	3.771	0.000	97	105734	1250.0	1287.9	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	94	106290	50.0	48.1	
51 Benzene	78	3.880	3.880	0.000	96	392839	50.0	47.0	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	124030	50.0	48.6	
54 n-Heptane	43	4.081	4.081	0.000	87	132113	50.0	41.2	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	418884	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	123589	50.0	46.3	
59 Methylcyclohexane	83	4.531	4.531	0.000	92	188288	50.0	43.1	
60 1,2-Dichloropropane	63	4.544	4.544	0.000	92	95400	50.0	49.0	
62 1,4-Dioxane	88	4.598	4.598	0.000	89	32201	1000.0	1012.2	
63 Dibromomethane	93	4.610	4.611	-0.001	87	66094	50.0	48.8	
64 Dichlorobromomethane	83	4.732	4.732	0.000	98	132842	50.0	50.8	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	77822	50.0	51.7	
67 cis-1,3-Dichloropropene	75	5.055	5.055	0.000	89	171077	50.0	52.3	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	92	463247	250.0	254.1	
\$ 69 Toluene-d8 (Surr)	98	5.268	5.268	0.000	99	442791	50.0	48.5	
70 Toluene	92	5.316	5.316	0.000	93	285517	50.0	47.6	
71 trans-1,3-Dichloropropene	75	5.487	5.487	0.000	94	163571	50.0	55.5	
72 Ethyl methacrylate	69	5.523	5.523	0.000	85	151149	50.0	51.5	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	95	86612	50.0	49.2	
74 Tetrachloroethene	164	5.712	5.718	-0.006	94	120668	50.0	45.1	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	91	167738	50.0	47.6	
77 2-Hexanone	43	5.797	5.791	0.006	92	325902	250.0	252.0	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	127636	50.0	51.9	
79 Ethylene Dibromide	107	6.040	6.040	0.000	99	120174	50.0	48.9	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	183913	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	98	352184	50.0	47.4	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	95	120279	50.0	50.9	
83 Ethylbenzene	91	6.496	6.496	0.000	97	548032	50.0	46.9	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	90	441003	50.0	46.7	
87 o-Xylene	91	6.916	6.916	0.000	95	461599	50.0	48.4	
88 Styrene	104	6.928	6.928	0.000	97	387463	50.0	47.1	
89 Bromoform	173	7.080	7.080	0.000	99	107605	50.0	53.0	
90 Isopropylbenzene	105	7.214	7.214	0.000	94	617194	50.0	47.8	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	85	181926	50.0	48.8	
94 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	97	143796	50.0	50.4	
93 Bromobenzene	156	7.476	7.470	0.006	86	184991	50.0	47.8	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.494	0.000	89	36801	50.0	54.3	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	95	183116	50.0	50.6	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	685075	50.0	47.1	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	400092	50.0	46.5	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	94	506272	50.0	47.2	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	460346	50.0	46.7	
103 tert-Butylbenzene	119	7.963	7.963	0.000	96	486020	50.0	47.8	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	498820	50.0	46.8	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	699778	50.0	47.6	
109 1,3-Dichlorobenzene	146	8.248	8.249	0.000	99	346609	50.0	47.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	598884	50.0	47.1	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	95	227846	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	97	345095	50.0	48.2	
113 n-Butylbenzene	91	8.620	8.620	0.000	97	491213	50.0	48.5	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	332568	50.0	48.8	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.283	0.006	88	43342	50.0	54.6	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	224424	50.0	48.0	
118 Hexachlorobutadiene	225	10.098	10.092	0.006	98	145212	50.0	48.5	
119 Naphthalene	128	10.195	10.189	0.006	99	349561	50.0	50.9	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	185527	50.0	47.5	
S 122 1,2-Dichloroethene, Total	1				0		100.0	94.6	
S 123 Xylenes, Total	1				0		100.0	95.2	
S 124 1,3-Dichloropropene, Total	1				0		100.0	107.8	

Reagents:

VM_MMIX2nd_00832	Amount Added: 5.00	Units: uL
VM_ACROLEIN2_00020	Amount Added: 5.00	Units: uL
DOD ISTD_00034	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3013Q.D

Injection Date: 30-Mar-2015 17:23:30

Instrument ID: CMSP2

Operator ID: MT

Lims ID: ICV

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL/100g

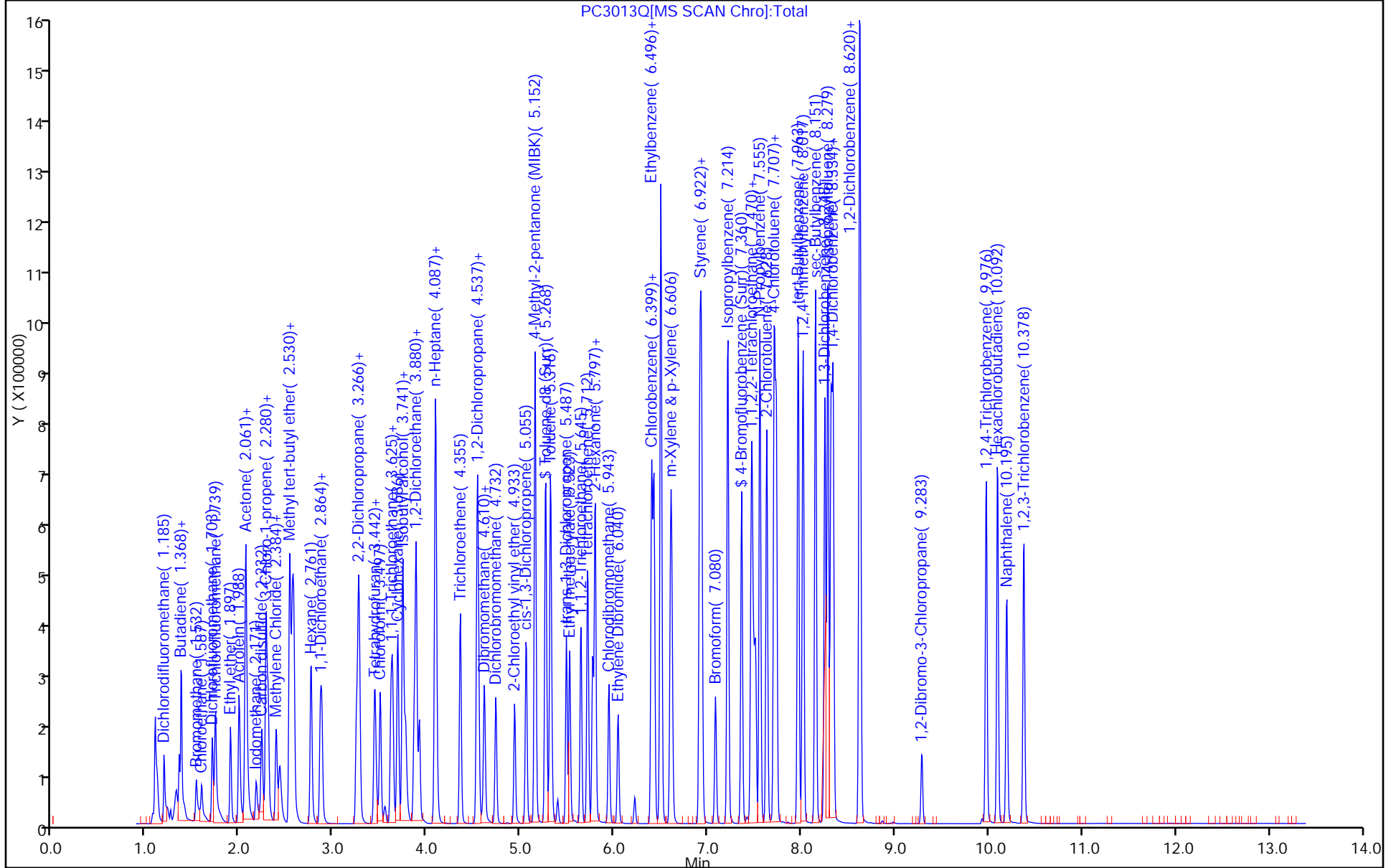
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-376775/2 Calibration Date: 03/30/2015 18:16
 Instrument ID: CMSP2 Calib Start Date: 03/30/2015 13:41
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/30/2015 16:12
 Lab File ID: PC3002Q.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	0.2732	0.2610		47.8	50.0	-4.5	60.0
Chloromethane	LinF		0.2193	0.1000	47.4	50.0	-5.1	60.0
Vinyl chloride	Ave	0.2400	0.2410		50.2	50.0	0.4	20.0
1,3-Butadiene	Ave	0.1955	0.1963		50.2	50.0	0.4	60.0
Bromomethane	Qua	0.1332	0.1387		49.7	50.0	-0.6	60.0
Chloroethane	Ave	0.1205	0.1194		49.5	50.0	-0.9	60.0
Dichlorofluoromethane	Ave	0.3676	0.3792		51.6	50.0	3.2	60.0
Trichlorofluoromethane	Ave	0.3309	0.3497		52.8	50.0	5.7	60.0
Ethyl ether	Ave	0.1846	0.1906		51.6	50.0	3.3	60.0
Acrolein	QuaF		0.0219		1460	1000	45.6	60.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2406	0.2366		49.2	50.0	-1.7	60.0
1,1-Dichloroethene	Ave	0.2237	0.2142		47.9	50.0	-4.2	20.0
Acetone	Ave	0.0219	0.0214		245	250	-2.0	60.0
Iodomethane	QuaF		0.2833		46.9	50.0	-6.3	60.0
Carbon disulfide	Ave	0.6905	0.6461		46.8	50.0	-6.4	60.0
Methyl acetate	Ave	0.1629	0.1618		248	250	-0.7	60.0
Allyl chloride	Ave	0.1831	0.1977		54.0	50.0	8.0	60.0
Methylene Chloride	Ave	0.2500	0.2444		48.9	50.0	-2.2	60.0
tert-Butyl alcohol	Ave	0.0244	0.0262		538	500	7.5	60.0
Acrylonitrile	Ave	0.0922	0.0922		500	500	-0.0	60.0
Methyl tert-butyl ether	Ave	0.7128	0.6993		49.0	50.0	-1.9	60.0
trans-1,2-Dichloroethene	Ave	0.2432	0.2359		48.5	50.0	-3.0	60.0
Hexane	Ave	0.3651	0.3564		48.8	50.0	-2.4	60.0
Vinyl acetate	Ave	0.4228	0.4320		102	100	2.2	60.0
1,1-Dichloroethane	Ave	0.3822	0.3704	0.1000	48.5	50.0	-3.1	60.0
Methyl ethyl ketone (MEK)	Ave	0.0333	0.0333		250	250	0.0	60.0
cis-1,2-Dichloroethene	Ave	0.3417	0.3316		48.5	50.0	-3.0	60.0
2,2-Dichloropropane	Ave	0.3080	0.3267		53.0	50.0	6.1	60.0
Bromochloromethane	Ave	0.1952	0.1893		48.5	50.0	-3.0	60.0
Tetrahydrofuran	Ave	0.0659	0.0676		103	100	2.6	60.0
Chloroform	Ave	0.3927	0.3888		49.5	50.0	-1.0	20.0
1,1,1-Trichloroethane	Ave	0.3413	0.3405		49.9	50.0	-0.2	60.0
Cyclohexane	Ave	0.3946	0.3759		47.6	50.0	-4.8	60.0
1,1-Dichloropropene	Ave	0.3050	0.2922		47.9	50.0	-4.2	60.0
Carbon tetrachloride	Ave	0.2883	0.2869		49.8	50.0	-0.5	60.0
Isobutanol	Ave	0.0098	0.0101		1280	1250	2.6	60.0
Benzene	Ave	0.999	0.9596		48.0	50.0	-3.9	60.0
1,2-Dichloroethane	Ave	0.3049	0.2938		48.2	50.0	-3.6	60.0
n-Heptane	Ave	0.3829	0.3724		48.6	50.0	-2.8	60.0
Trichloroethene	Ave	0.3186	0.3022		47.4	50.0	-5.1	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-376775/2 Calibration Date: 03/30/2015 18:16
 Instrument ID: CMS2 Calib Start Date: 03/30/2015 13:41
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/30/2015 16:12
 Lab File ID: PC3002Q.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
Methylcyclohexane	Ave	0.5217	0.5110		49.0	50.0	-2.1	60.0
1,2-Dichloropropane	Ave	0.2326	0.2251		48.4	50.0	-3.2	20.0
1,4-Dioxane	Ave	0.0038	0.0042		1100	1000	9.9	60.0
Dibromomethane	Ave	0.1617	0.1565		48.4	50.0	-3.2	60.0
Bromodichloromethane	Ave	0.3119	0.3145		50.4	50.0	0.8	60.0
2-Chloroethyl vinyl ether	Ave	0.1796	0.1831		51.0	50.0	2.0	60.0
cis-1,3-Dichloropropene	Ave	0.3907	0.4038		51.7	50.0	3.4	60.0
Methyl isobutyl ketone (MIBK)	Ave	0.2176	0.2185		251	250	0.4	60.0
Toluene	Ave	0.7154	0.7068		49.4	50.0	-1.2	20.0
trans-1,3-Dichloropropene	Ave	0.3515	0.3611		51.4	50.0	2.7	60.0
Ethyl methacrylate	Ave	0.3501	0.3618		51.7	50.0	3.3	60.0
1,1,2-Trichloroethane	Ave	0.2101	0.2091		49.7	50.0	-0.5	60.0
Tetrachloroethene	Ave	0.3195	0.3116		48.8	50.0	-2.5	60.0
1,3-Dichloropropane	Ave	0.4205	0.4056		48.2	50.0	-3.5	60.0
2-Hexanone	Ave	0.1543	0.1546		250	250	0.2	60.0
Dibromochloromethane	Ave	0.2937	0.3013		51.3	50.0	2.6	60.0
1,2-Dibromoethane	Ave	0.2935	0.2927		49.9	50.0	-0.3	60.0
Chlorobenzene	Ave	2.020	1.930	0.3000	47.8	50.0	-4.5	60.0
1,1,1,2-Tetrachloroethane	Ave	0.6418	0.6458		50.3	50.0	0.6	60.0
Ethylbenzene	Ave	3.178	3.100		48.8	50.0	-2.5	20.0
m-Xylene & p-Xylene	Ave	2.566	2.492		48.5	50.0	-2.9	60.0
o-Xylene	Ave	2.590	2.578		49.8	50.0	-0.5	60.0
Styrene	Ave	2.238	2.214		49.5	50.0	-1.1	60.0
Bromoform	Ave	0.5521	0.5785	0.1000	52.4	50.0	4.8	60.0
Isopropylbenzene	Ave	3.507	3.439		49.0	50.0	-1.9	60.0
1,1,2,2-Tetrachloroethane	Ave	0.7756	0.7697	0.3000	49.6	50.0	-0.8	60.0
Bromobenzene	Ave	1.051	1.017		48.3	50.0	-3.3	60.0
trans-1,4-Dichloro-2-butene	Ave	0.1844	0.1937		52.5	50.0	5.0	60.0
1,2,3-Trichloropropane	Ave	0.9842	0.9827		49.9	50.0	-0.2	60.0
N-Propylbenzene	Ave	3.955	3.876		49.0	50.0	-2.0	60.0
2-Chlorotoluene	Ave	2.337	2.235		47.8	50.0	-4.4	60.0
1,3,5-Trimethylbenzene	Ave	2.917	2.896		49.7	50.0	-0.7	60.0
4-Chlorotoluene	Ave	2.680	2.573		48.0	50.0	-4.0	60.0
tert-Butylbenzene	Ave	2.761	2.710		49.1	50.0	-1.8	60.0
1,2,4-Trimethylbenzene	Ave	2.900	2.808		48.4	50.0	-3.2	60.0
sec-Butylbenzene	Ave	4.001	3.966		49.6	50.0	-0.9	60.0
1,3-Dichlorobenzene	Ave	1.589	1.548		48.7	50.0	-2.5	60.0
p-Isopropyltoluene	Ave	2.788	2.751		49.3	50.0	-1.3	60.0
1,4-Dichlorobenzene	Ave	1.571	1.483		47.2	50.0	-5.6	60.0
n-Butylbenzene	Ave	2.224	2.282		51.3	50.0	2.6	60.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-376775/2 Calibration Date: 03/30/2015 18:16
 Instrument ID: CMSP2 Calib Start Date: 03/30/2015 13:41
 GC Column: Rtx-624 ID: 0.18 (mm) Calib End Date: 03/30/2015 16:12
 Lab File ID: PC3002Q.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
1,2-Dichlorobenzene	Ave	1.495	1.457		48.7	50.0	-2.6	60.0
1,2-Dibromo-3-Chloropropane	Ave	0.1741	0.1878		53.9	50.0	7.9	60.0
1,2,4-Trichlorobenzene	Ave	1.027	1.028		50.1	50.0	0.1	60.0
Hexachlorobutadiene	Ave	0.6570	0.6906		52.6	50.0	5.1	60.0
Naphthalene	Ave	1.506	1.551		51.5	50.0	3.0	60.0
1,2,3-Trichlorobenzene	Ave	0.8580	0.8532		49.7	50.0	-0.6	60.0
Dibromofluoromethane (Surr)	Ave	0.2412	0.2335		48.4	50.0	-3.2	60.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2639	0.2500		47.4	50.0	-5.3	60.0
Toluene-d8 (Surr)	Ave	2.480	2.344		47.3	50.0	-5.5	60.0
4-Bromofluorobenzene (Surr)	Ave	0.8178	0.7679		46.9	50.0	-6.1	60.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3002Q.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 30-Mar-2015 18:16:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018314-002
 Misc. Info.: CCVIS
 Operator ID: DK Instrument ID: CMSP2
 Sublist: chrom-2014_MSP2*sub5
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 31-Mar-2015 09:56:36 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK050

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	99	111679	50.0	47.8	
3 Chloromethane	50	1.319	1.319	0.000	99	93858	50.0	47.4	
2 Vinyl chloride	62	1.350	1.350	0.000	98	103153	50.0	50.2	
4 Butadiene	54	1.374	1.374	0.000	95	83998	50.0	50.2	
5 Bromomethane	94	1.532	1.532	0.000	100	59367	50.0	49.7	
6 Chloroethane	64	1.587	1.587	0.000	99	51096	50.0	49.5	
7 Dichlorofluoromethane	67	1.702	1.702	0.000	99	162271	50.0	51.6	
8 Trichlorofluoromethane	101	1.733	1.733	0.000	98	149636	50.0	52.8	
10 Ethyl ether	59	1.897	1.897	0.000	95	81587	50.0	51.6	
13 Acrolein	56	1.988	1.988	0.000	96	187675	1000.0	1456.2	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.061	0.000	96	101260	50.0	49.2	
15 1,1-Dichloroethene	96	2.061	2.061	0.000	94	91674	50.0	47.9	
16 Acetone	58	2.074	2.074	0.000	88	45872	250.0	245.0	
17 Iodomethane	142	2.171	2.171	0.000	95	121255	50.0	46.9	
18 Carbon disulfide	76	2.232	2.232	0.000	98	276502	50.0	46.8	
20 Methyl acetate	43	2.280	2.280	0.000	97	346236	250.0	248.3	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	92	84604	50.0	54.0	
22 Methylene Chloride	84	2.384	2.384	0.000	83	104593	50.0	48.9	
23 2-Methyl-2-propanol	59	2.426	2.426	0.000	99	112120	500.0	537.7	
26 Acrylonitrile	53	2.530	2.530	0.000	94	394621	500.0	499.8	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	299253	50.0	49.0	
25 trans-1,2-Dichloroethene	96	2.572	2.572	0.000	90	100941	50.0	48.5	
27 Hexane	57	2.761	2.761	0.000	90	152519	50.0	48.8	
30 Vinyl acetate	43	2.858	2.858	0.000	99	369733	100.0	102.2	
29 1,1-Dichloroethane	63	2.871	2.871	0.000	99	158501	50.0	48.5	
36 2-Butanone (MEK)	72	3.242	3.242	0.000	94	71190	250.0	250.1	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	98	141920	50.0	48.5	
34 2,2-Dichloropropane	77	3.272	3.272	0.000	94	139809	50.0	53.0	
38 Chlorobromomethane	130	3.436	3.436	0.000	77	81028	50.0	48.5	
39 Tetrahydrofuran	42	3.442	3.442	0.000	88	57839	100.0	102.6	
41 Chloroform	83	3.497	3.497	0.000	99	166391	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	99906	50.0	48.4	
43 1,1,1-Trichloroethane	97	3.631	3.631	0.000	97	145728	50.0	49.9	
42 Cyclohexane	84	3.686	3.686	0.000	85	160866	50.0	47.6	
47 1,1-Dichloropropene	75	3.734	3.734	0.000	98	125041	50.0	47.9	
45 Carbon tetrachloride	117	3.740	3.740	0.000	97	122782	50.0	49.8	
50 Isobutyl alcohol	43	3.771	3.771	0.000	97	107579	1250.0	1282.6	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	94	106974	50.0	47.4	
51 Benzene	78	3.880	3.880	0.000	95	410680	50.0	48.0	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	125729	50.0	48.2	
54 n-Heptane	43	4.081	4.081	0.000	93	159368	50.0	48.6	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	427956	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	129338	50.0	47.4	
59 Methylcyclohexane	83	4.531	4.531	0.000	93	218686	50.0	49.0	
60 1,2-Dichloropropane	63	4.544	4.544	0.000	92	96318	50.0	48.4	
62 1,4-Dioxane	88	4.604	4.604	0.000	88	35706	1000.0	1098.5	
63 Dibromomethane	93	4.610	4.610	0.000	87	66984	50.0	48.4	
64 Dichlorobromomethane	83	4.732	4.732	0.000	99	134583	50.0	50.4	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	78345	50.0	51.0	
67 cis-1,3-Dichloropropene	75	5.055	5.055	0.000	89	172794	50.0	51.7	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	92	467577	250.0	251.0	
\$ 69 Toluene-d8 (Surr)	98	5.261	5.261	0.000	99	445850	50.0	47.3	
70 Toluene	92	5.316	5.316	0.000	93	302493	50.0	49.4	
71 trans-1,3-Dichloropropene	75	5.486	5.486	0.000	93	154545	50.0	51.4	
72 Ethyl methacrylate	69	5.523	5.523	0.000	86	154812	50.0	51.7	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	95	89468	50.0	49.7	
74 Tetrachloroethene	164	5.718	5.718	0.000	94	133357	50.0	48.8	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	91	173591	50.0	48.2	
77 2-Hexanone	43	5.791	5.791	0.000	92	330810	250.0	250.4	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	128924	50.0	51.3	
79 Ethylene Dibromide	107	6.040	6.040	0.000	98	125278	50.0	49.9	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	190238	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	98	367098	50.0	47.8	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	94	122859	50.0	50.3	
83 Ethylbenzene	91	6.496	6.496	0.000	97	589737	50.0	48.8	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	90	473982	50.0	48.5	
87 o-Xylene	91	6.916	6.916	0.000	95	490342	50.0	49.8	
88 Styrene	104	6.928	6.928	0.000	98	421240	50.0	49.5	
89 Bromoform	173	7.080	7.080	0.000	99	110043	50.0	52.4	
90 Isopropylbenzene	105	7.214	7.214	0.000	94	654273	50.0	49.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	84	182463	50.0	46.9	
94 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	98	146433	50.0	49.6	
93 Bromobenzene	156	7.476	7.476	0.000	87	193418	50.0	48.3	
97 trans-1,4-Dichloro-2-buten	53	7.488	7.488	0.000	87	36840	50.0	52.5	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	97	186943	50.0	49.9	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	737436	50.0	49.0	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	425135	50.0	47.8	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	94	550974	50.0	49.7	
100 4-Chlorotoluene	91	7.731	7.731	0.000	96	489551	50.0	48.0	
103 tert-Butylbenzene	119	7.962	7.962	0.000	96	515623	50.0	49.1	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	534240	50.0	48.4	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	754468	50.0	49.6	
109 1,3-Dichlorobenzene	146	8.248	8.248	0.000	99	367925	50.0	48.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	653657	50.0	49.3	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	94	237627	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	97	352393	50.0	47.2	
113 n-Butylbenzene	91	8.620	8.620	0.000	97	542304	50.0	51.3	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	98	346216	50.0	48.7	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	87	44630	50.0	53.9	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	244339	50.0	50.1	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	98	164093	50.0	52.6	
119 Naphthalene	128	10.195	10.195	0.000	99	368563	50.0	51.5	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	202745	50.0	49.7	
S 122 1,2-Dichloroethene, Total	1				0		100.0	97.0	
S 123 Xylenes, Total	1				0		100.0	98.3	
S 124 1,3-Dichloropropene, Total	1				0		100.0	103.0	

Reagents:

VM_Acrolein_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01723	Amount Added: 5.00	Units: uL
DOD ISTD_00034	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3002Q.D

Injection Date: 30-Mar-2015 18:16:30

Instrument ID: CMSP2

Operator ID: DK

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL/100g

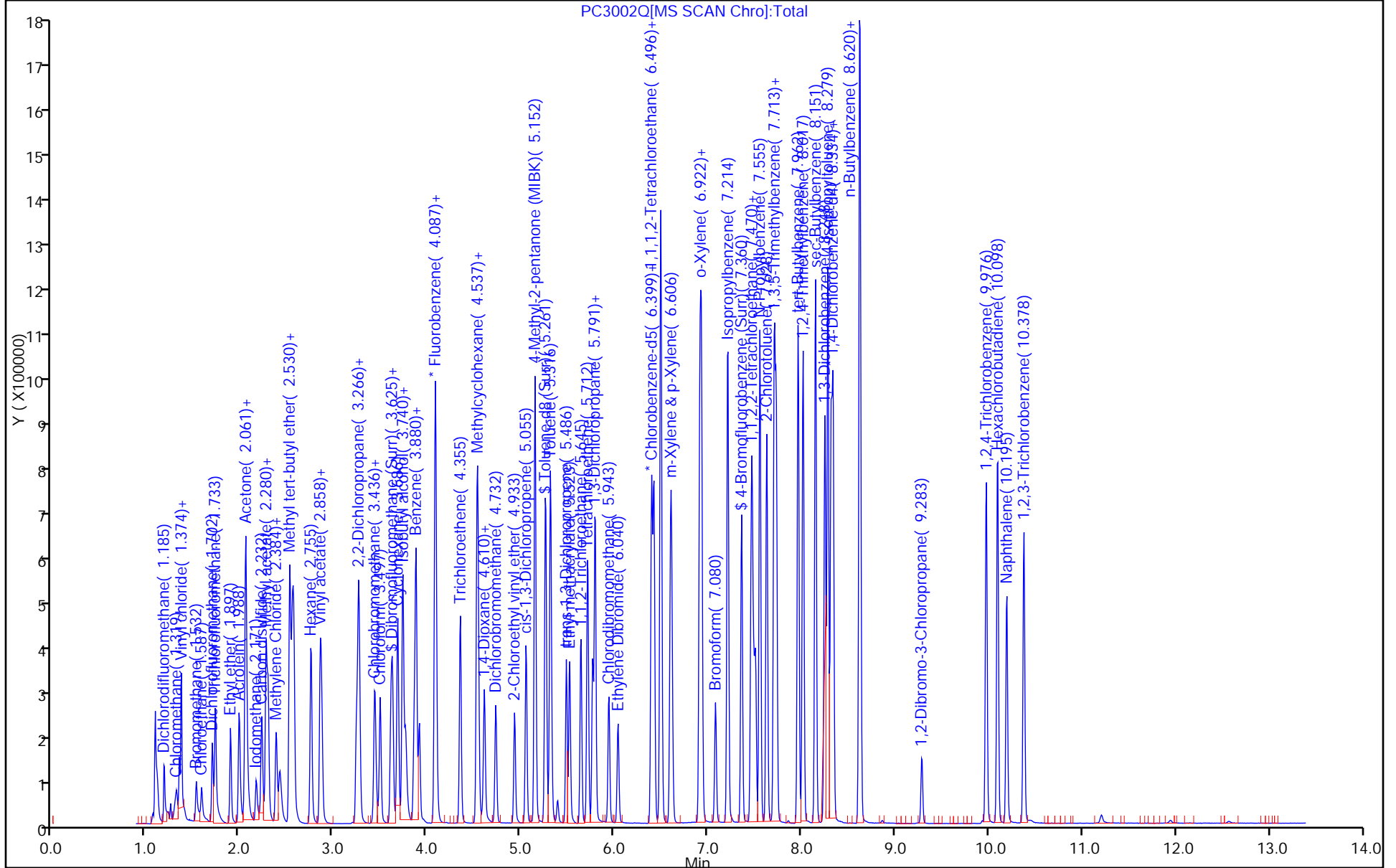
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2501T.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 25-Mar-2015 12:23:30 ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: 680-0018150-001
 Misc. Info.: BFB
 Operator ID: DK Instrument ID: CMSAC
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 25-Mar-2015 16:11:59 Calib Date: 18-Mar-2015 15:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150318-17956.b\ACC1812.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: tippinsm Date: 25-Mar-2015 16:11:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
----------	-----	-----------	---------------	---------------	---	----------	--------------	----------------	-------

\$ 127 BFB

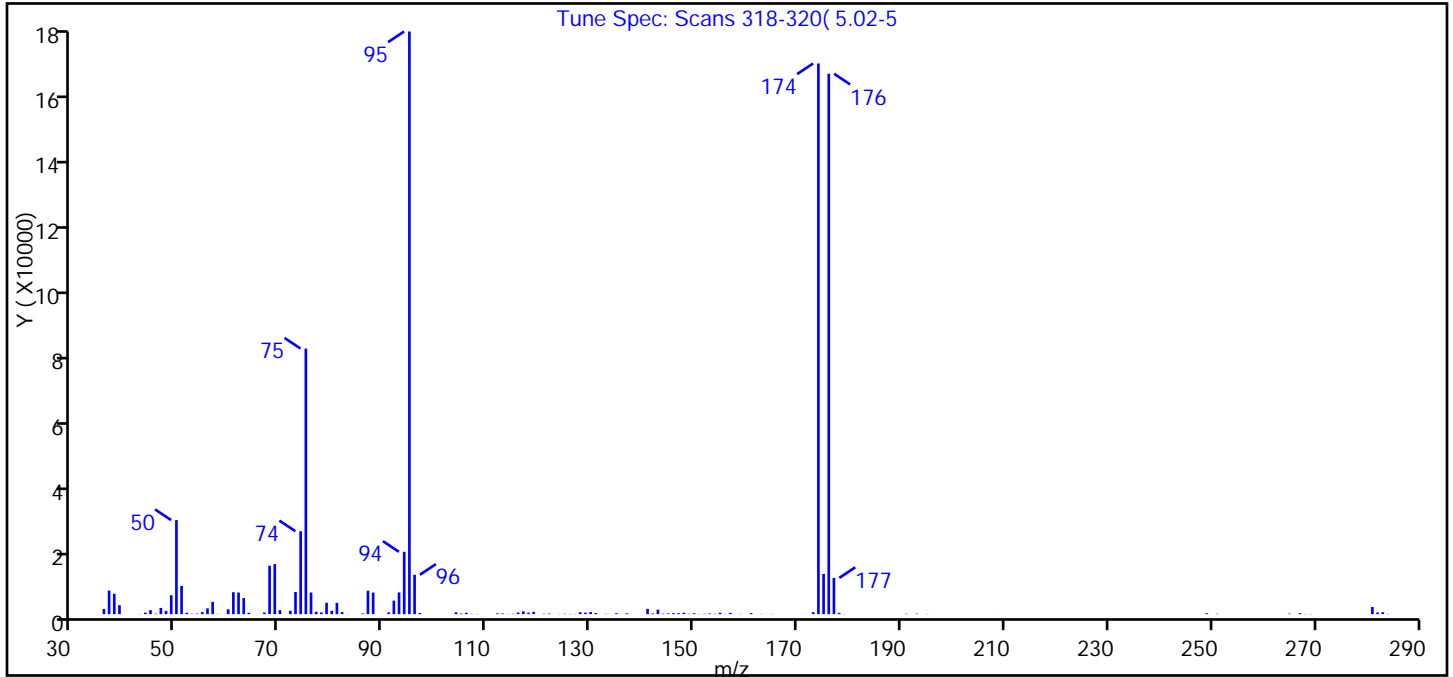
Reagents:

VM_bfb_00098 Amount Added: 2.00 Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2501T.D
 Injection Date: 25-Mar-2015 12:23:30 Instrument ID: CMSAC
 Lims ID: BFB
 Client ID:
 Operator ID: DK ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 2014_MSAC Limit Group: 8260B
 Tune Method: BFB Method CLP OLM4.2

\$ 127 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	base peak, 100 percent relative abundance	100
50	8.0-40.0 percent of mass 95	16.1
75	30.0-66.0 percent of mass 95	45.6
96	5.0-9.0 percent of mass 95	6.8
173	less than 2.0 percent of mass 174	0.3 (0.4)
174	50.0-120.0 percent of mass 95	94.5
175	4.0-9.0 percent of mass 174	6.9 (7.3)
176	93.0-101.0 percent of mass 174	92.7 (98.1)
177	5.0-9.0 percent of mass 176	6.2 (6.7)

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2501T.D\2014_MSAC.rsl\spectra.
 Injection Date: 25-Mar-2015 12:23:30
 Spectrum: Tune Spec: Scans 318-320(5.02-5
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1503	74.00	24216	116.00	477	155.00	437
37.00	6885	75.00	77560	117.00	817	156.00	54
38.00	5943	76.00	6318	118.00	428	157.00	383
39.00	2625	77.00	700	119.00	680	159.00	59
43.00	33	78.00	496	121.00	108	161.00	313
44.00	447	79.00	3321	122.00	155	163.00	57
45.00	1167	80.00	974	124.00	55	165.00	65
46.00	134	81.00	3303	125.00	113	173.00	582
47.00	1816	82.00	615	126.00	76	174.00	160832
48.00	948	83.00	34	127.00	51	175.00	11749
49.00	5517	86.00	204	128.00	574	176.00	157824
50.00	27472	87.00	6847	129.00	451	177.00	10579
51.00	8232	88.00	6300	130.00	603	178.00	393
52.00	419	91.00	517	131.00	329	179.00	65
53.00	108	92.00	3946	133.00	92	191.00	122
54.00	145	93.00	6343	135.00	274	193.00	134
55.00	595	94.00	18208	137.00	238	195.00	51
56.00	1682	95.00	170176	141.00	1541	208.00	14
57.00	3595	96.00	11498	142.00	219	249.00	271
58.00	76	97.00	331	143.00	1322	251.00	109
60.00	1410	98.00	2	144.00	141	265.00	163
61.00	6408	104.00	547	145.00	223	267.00	305
62.00	6310	105.00	177	146.00	292	268.00	54
63.00	4709	106.00	410	147.00	273	269.00	50
64.00	391	107.00	84	148.00	407	281.00	2089
67.00	486	108.00	55	149.00	109	282.00	495
68.00	14144	109.00	1	150.00	269	283.00	568
69.00	14613	112.00	238	151.00	51	284.00	77
70.00	1160	113.00	198	152.00	108		
72.00	994	114.00	57	153.00	194		
73.00	6477	115.00	121	154.00	101		

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3001T.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 30-Mar-2015 11:10:30 ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: 680-0018298-001
 Misc. Info.: BFB
 Operator ID: JK Instrument ID: CMSAC
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 11:26:41 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: kitchingsj Date: 30-Mar-2015 11:26:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
----------	-----	-----------	---------------	---------------	---	----------	--------------	----------------	-------

\$ 127 BFB

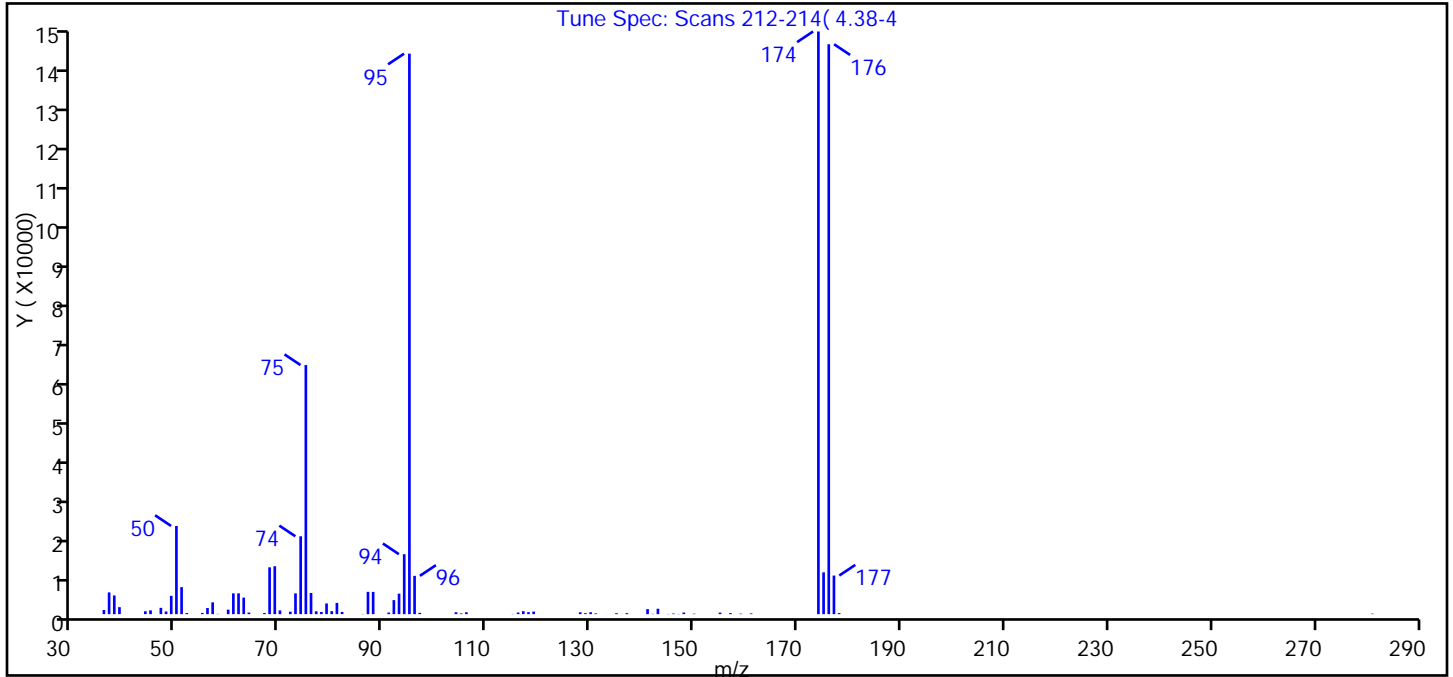
Reagents:

VM_bfb_00098 Amount Added: 2.00 Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3001T.D
 Injection Date: 30-Mar-2015 11:10:30 Instrument ID: CMSAC
 Lims ID: BFB
 Client ID:
 Operator ID: JK ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 2014_MSAC Limit Group: 8260B
 Tune Method: BFB Method CLP OLM4.2

\$ 127 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	base peak, 100 percent relative abundance	100
50	8.0-40.0 percent of mass 95	15.7
75	30.0-66.0 percent of mass 95	44.4
96	5.0-9.0 percent of mass 95	6.8
173	less than 2.0 percent of mass 174	0.0 (0.0)
174	50.0-120.0 percent of mass 95	104
175	4.0-9.0 percent of mass 174	7.5 (7.2)
176	93.0-101.0 percent of mass 174	102 (97.8)
177	5.0-9.0 percent of mass 176	6.9 (6.8)

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3001T.D\2014_MSAC.rslt\spectra.
 Injection Date: 30-Mar-2015 11:10:30
 Spectrum: Tune Spec: Scans 212-214(4.38-4
 Base Peak: 174.00
 Minimum % Base Peak: 0
 Number of Points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1016	64.00	391	92.00	3440	137.00	248
37.00	5332	67.00	283	93.00	5021	141.00	1228
38.00	4588	68.00	11485	94.00	14706	142.00	69
39.00	1714	69.00	11748	95.00	137472	143.00	1321
44.00	705	70.00	915	96.00	9394	145.00	50
45.00	930	72.00	597	97.00	325	146.00	153
47.00	1547	73.00	5099	104.00	469	147.00	50
48.00	655	74.00	19096	105.00	180	148.00	396
49.00	4491	75.00	61096	106.00	467	150.00	106
50.00	21632	76.00	5185	115.00	54	155.00	385
51.00	6621	77.00	697	116.00	405	157.00	256
52.00	267	78.00	530	117.00	721	159.00	122
55.00	305	79.00	2622	118.00	489	161.00	184
56.00	1503	80.00	729	119.00	627	174.00	142912
57.00	2888	81.00	2759	128.00	463	175.00	10251
58.00	67	82.00	540	129.00	235	176.00	139776
60.00	1104	86.00	51	130.00	468	177.00	9465
61.00	5100	87.00	5472	131.00	188	178.00	268
62.00	5099	88.00	5453	133.00	10	281.00	118
63.00	4055	91.00	385	135.00	233		

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3002T.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 30-Mar-2015 11:57:30 ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: 680-0018304-001
 Misc. Info.: BFB-TUNE
 Operator ID: MT Instrument ID: CMSP2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 19:29:30 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: kitchingsj Date: 30-Mar-2015 17:35:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
----------	-----	-----------	---------------	---------------	---	----------	--------------	----------------	-------

\$ 127 BFB

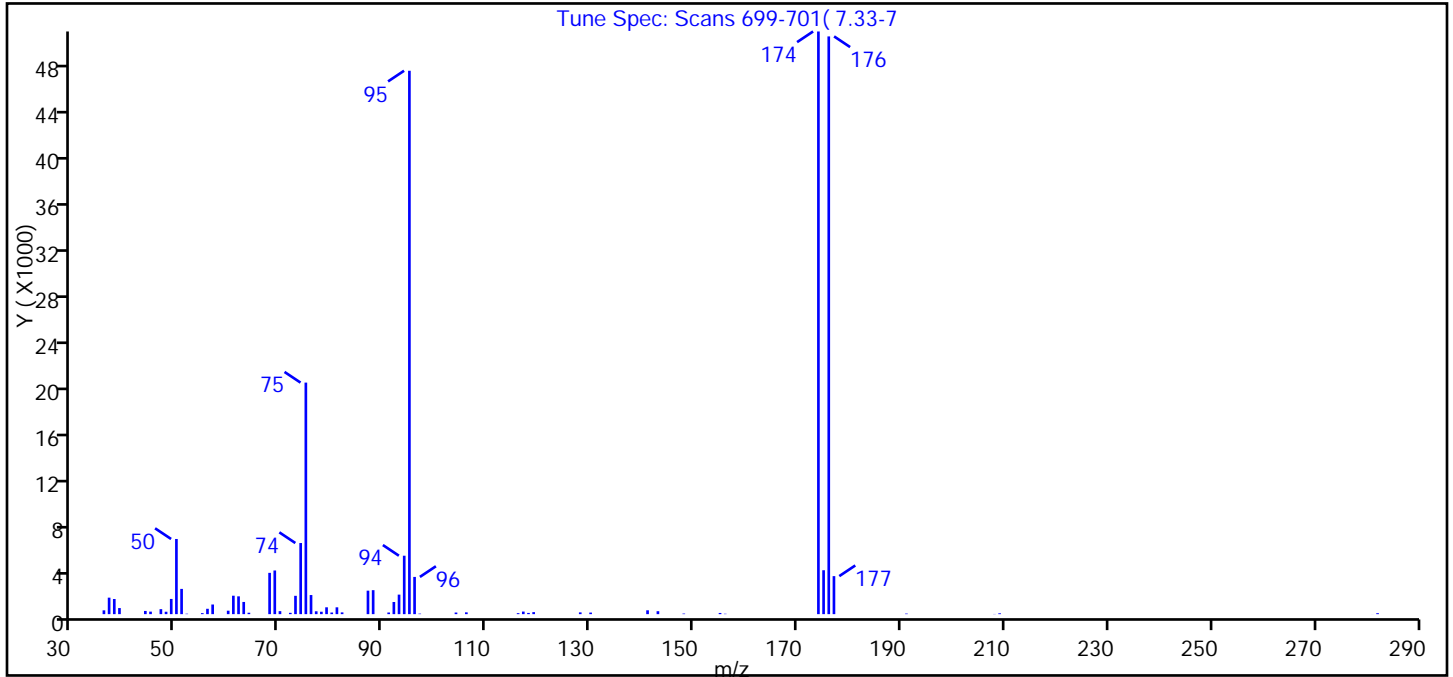
Reagents:

VM_bfb_00098 Amount Added: 2.00 Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3002T.D
 Injection Date: 30-Mar-2015 11:57:30 Instrument ID: CMSP2
 Lims ID: BFB
 Client ID:
 Operator ID: MT ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 2014_MSP2 Limit Group: 8260B
 Tune Method: BFB Method CLP OLM4.2

\$ 127 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	base peak, 100 percent relative abundance	100
50	8.0-40.0 percent of mass 95	13.8
75	30.0-66.0 percent of mass 95	42.6
96	5.0-9.0 percent of mass 95	6.9
173	less than 2.0 percent of mass 174	0.0 (0.0)
174	50.0-120.0 percent of mass 95	107
175	4.0-9.0 percent of mass 174	8.1 (7.5)
176	93.0-101.0 percent of mass 174	106 (99.2)
177	5.0-9.0 percent of mass 176	7.0 (6.6)

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3002T.D\2014_MSP2.rslt\spectra.d
Injection Date: 30-Mar-2015 11:57:30
Spectrum: Tune Spec: Scans 699-701(7.33-7
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 65

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	327	62.00	1531	87.00	2018	141.00	330
37.00	1417	63.00	1048	88.00	2061	143.00	253
38.00	1301	64.00	122	91.00	141	148.00	50
39.00	523	68.00	3549	92.00	1044	155.00	101
44.00	275	69.00	3754	93.00	1678	156.00	33
45.00	216	70.00	257	94.00	5023	174.00	50088
47.00	429	72.00	113	95.00	46712	175.00	3775
48.00	207	73.00	1575	96.00	3200	176.00	49664
49.00	1307	74.00	6114	97.00	44	177.00	3268
50.00	6461	75.00	19904	104.00	139	191.00	48
51.00	2170	76.00	1642	106.00	155	208.00	15
52.00	36	77.00	246	116.00	85	209.00	72
55.00	86	78.00	207	117.00	221	281.00	3
56.00	461	79.00	588	118.00	105	282.00	82
57.00	829	80.00	139	119.00	173		
60.00	296	81.00	587	128.00	152		
61.00	1584	82.00	151	130.00	136		

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3001T.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 30-Mar-2015 17:49:30 ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: 680-0018314-001
 Misc. Info.: BFB-TUNE
 Operator ID: DK Instrument ID: CMSP2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 31-Mar-2015 09:56:34 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: kitchingsj Date: 30-Mar-2015 18:01:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
----------	-----	-----------	---------------	---------------	---	----------	--------------	----------------	-------

\$ 127 BFB

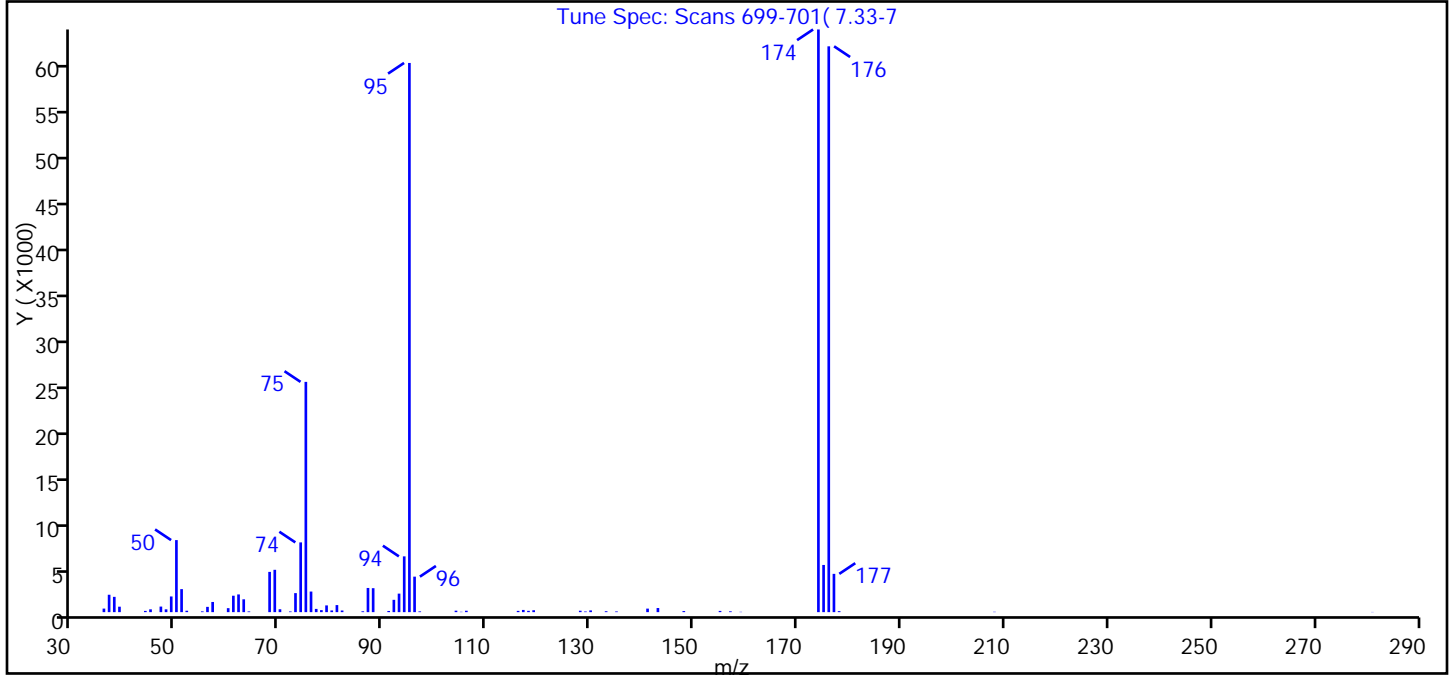
Reagents:

VM_bfb_00098 Amount Added: 2.00 Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3001T.D
 Injection Date: 30-Mar-2015 17:49:30 Instrument ID: CMSP2
 Lims ID: BFB
 Client ID:
 Operator ID: DK ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 2014_MSP2 Limit Group: 8260B
 Tune Method: BFB Method CLP OLM4.2

\$ 127 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	base peak, 100 percent relative abundance	100
50	8.0-40.0 percent of mass 95	13.1
75	30.0-66.0 percent of mass 95	41.9
96	5.0-9.0 percent of mass 95	6.5
173	less than 2.0 percent of mass 174	0.0 (0.0)
174	50.0-120.0 percent of mass 95	106
175	4.0-9.0 percent of mass 174	8.6 (8.1)
176	93.0-101.0 percent of mass 174	103 (97.1)
177	5.0-9.0 percent of mass 176	7.0 (6.8)

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3001T.D\2014_MSP2.rslt\spectra.d
Injection Date: 30-Mar-2015 17:49:30
Spectrum: Tune Spec: Scans 699-701(7.33-7
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	386	63.00	1396	88.00	2605	133.00	100
37.00	1892	64.00	79	91.00	128	135.00	76
38.00	1663	68.00	4378	92.00	1340	141.00	384
39.00	593	69.00	4603	93.00	2014	143.00	448
44.00	135	70.00	314	94.00	6065	148.00	117
45.00	305	72.00	74	95.00	59720	155.00	134
47.00	605	73.00	2069	96.00	3860	157.00	90
48.00	307	74.00	7584	97.00	82	159.00	34
49.00	1705	75.00	25040	104.00	159	174.00	63360
50.00	7834	76.00	2239	105.00	38	175.00	5131
51.00	2503	77.00	352	106.00	153	176.00	61528
52.00	153	78.00	218	116.00	138	177.00	4164
55.00	82	79.00	733	117.00	239	178.00	109
56.00	574	80.00	184	118.00	143	208.00	39
57.00	1106	81.00	767	119.00	207	281.00	21
60.00	433	82.00	178	128.00	155		
61.00	1786	86.00	93	129.00	71		
62.00	1926	87.00	2629	130.00	189		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-376701/9
 Matrix: Water Lab File ID: ACC3009.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 15:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
78-93-3	2-Butanone	ND		10	3.4
591-78-6	2-Hexanone	ND		10	2.0
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
67-64-1	Acetone	ND		10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
100-41-4	Ethylbenzene	ND		1.0	0.33
98-82-8	Isopropylbenzene	ND		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-376701/9
 Matrix: Water Lab File ID: ACC3009.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 15:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	1.8
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
100-42-5	Styrene	ND		1.0	0.27
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3009.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 30-Mar-2015 15:04:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018298-009
 Misc. Info.: MB
 Operator ID: JK Instrument ID: CMSAC
 Method: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150330-18298.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 15:29:58 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tippinsm Date: 30-Mar-2015 15:29:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.567	3.571	-0.004	97	183504	50.0	49.7	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.822	3.820	0.002	96	169954	50.0	48.9	
* 55 Fluorobenzene	96	4.053	4.051	0.002	0	695302	50.0	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.240	5.244	-0.004	99	679603	50.0	50.2	
* 80 Chlorobenzene-d5	82	6.383	6.387	-0.004	84	254516	50.0	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.350	7.349	0.001	90	188613	50.0	46.0	
* 109 1,4-Dichlorobenzene-d4	152	8.312	8.310	0.002	98	181660	50.0	50.0	
\$ 127 BFB									

Reagents:

DOD ISSU_00068 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3009.D

Injection Date: 30-Mar-2015 15:04:30

Instrument ID: CMSAC

Operator ID: JK

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

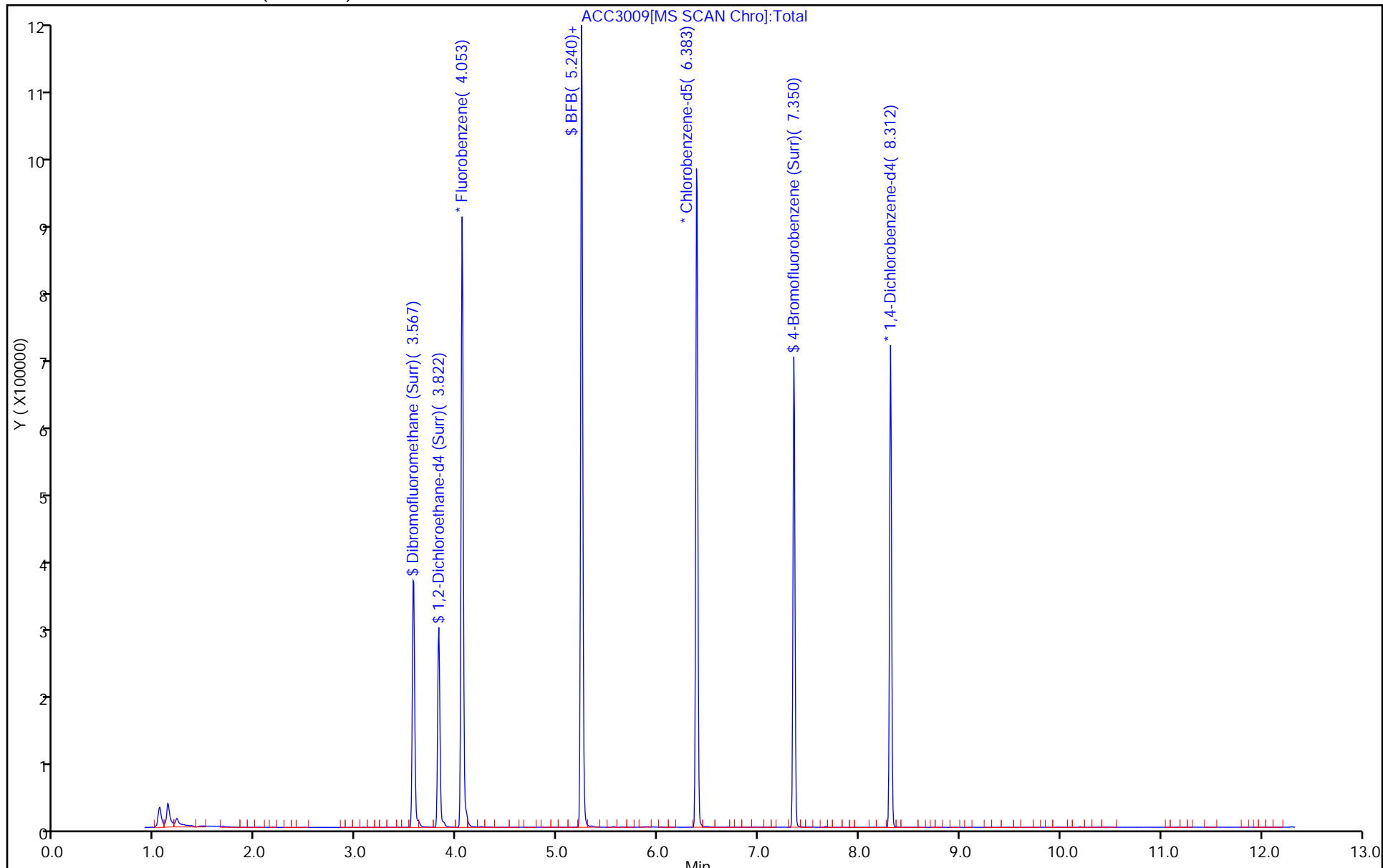
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-376775/7
 Matrix: Water Lab File ID: PC3007Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 20:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.33
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.1
106-93-4	1,2-Dibromoethane	ND		1.0	0.44
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.50
78-87-5	1,2-Dichloropropane	ND		1.0	0.67
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.43
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.46
78-93-3	2-Butanone	ND		10	3.4
591-78-6	2-Hexanone	ND		10	2.0
108-10-1	4-Methyl-2-pentanone	ND		10	2.1
67-64-1	Acetone	ND		10	7.0
71-43-2	Benzene	ND		1.0	0.43
75-27-4	Bromodichloromethane	ND		1.0	0.44
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		2.0	1.0
56-23-5	Carbon tetrachloride	ND		1.0	0.33
108-90-7	Chlorobenzene	ND		1.0	0.26
75-00-3	Chloroethane	ND		5.0	2.5
67-66-3	Chloroform	ND		1.0	0.50
74-87-3	Chloromethane	ND		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.40
110-82-7	Cyclohexane	ND		1.0	0.39
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.60
100-41-4	Ethylbenzene	ND		1.0	0.33
98-82-8	Isopropylbenzene	ND		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-376775/7
 Matrix: Water Lab File ID: PC3007Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 20:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	1.8
1634-04-4	Methyl tert-butyl ether	ND		10	0.30
108-87-2	Methylcyclohexane	ND		1.0	0.43
75-09-2	Methylene Chloride	ND		5.0	2.5
100-42-5	Styrene	ND		1.0	0.27
127-18-4	Tetrachloroethene	ND		1.0	0.74
108-88-3	Toluene	ND		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.42
79-01-6	Trichloroethene	ND		1.0	0.48
75-69-4	Trichlorofluoromethane	ND		1.0	0.42
75-01-4	Vinyl chloride	ND		1.0	0.50
1330-20-7	Xylenes, Total	ND		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3007Q.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 30-Mar-2015 20:03:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018314-007
 Misc. Info.: MB
 Operator ID: DK Instrument ID: CMSP2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 31-Mar-2015 09:37:18 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: derricoj Date: 31-Mar-2015 08:59:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	117216	50.0	48.5	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	94	123358	50.0	46.7	
53 1,2-Dichloroethane	62	3.911	3.917	-0.006	91	390		0.1278	
48 Isooctane	57	3.959	3.960	-0.001	71	3321		0.3575	7
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	500552	50.0	50.0	
\$ 69 Toluene-d8 (Surr)	98	5.267	5.261	0.006	99	516812	50.0	50.2	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	207638	50.0	50.0	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	85	205204	50.0	47.1	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	97	266157	50.0	50.0	
117 1,2,4-Trichlorobenzene	180	9.970	9.976	-0.006	91	1699		0.3108	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	94	1614		0.4615	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	94	1801		0.3943	
\$ 127 BFB									

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

DOD ISSU_00069

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3007Q.D

Injection Date: 30-Mar-2015 20:03:30

Instrument ID: CMSP2

Operator ID: DK

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL/100g

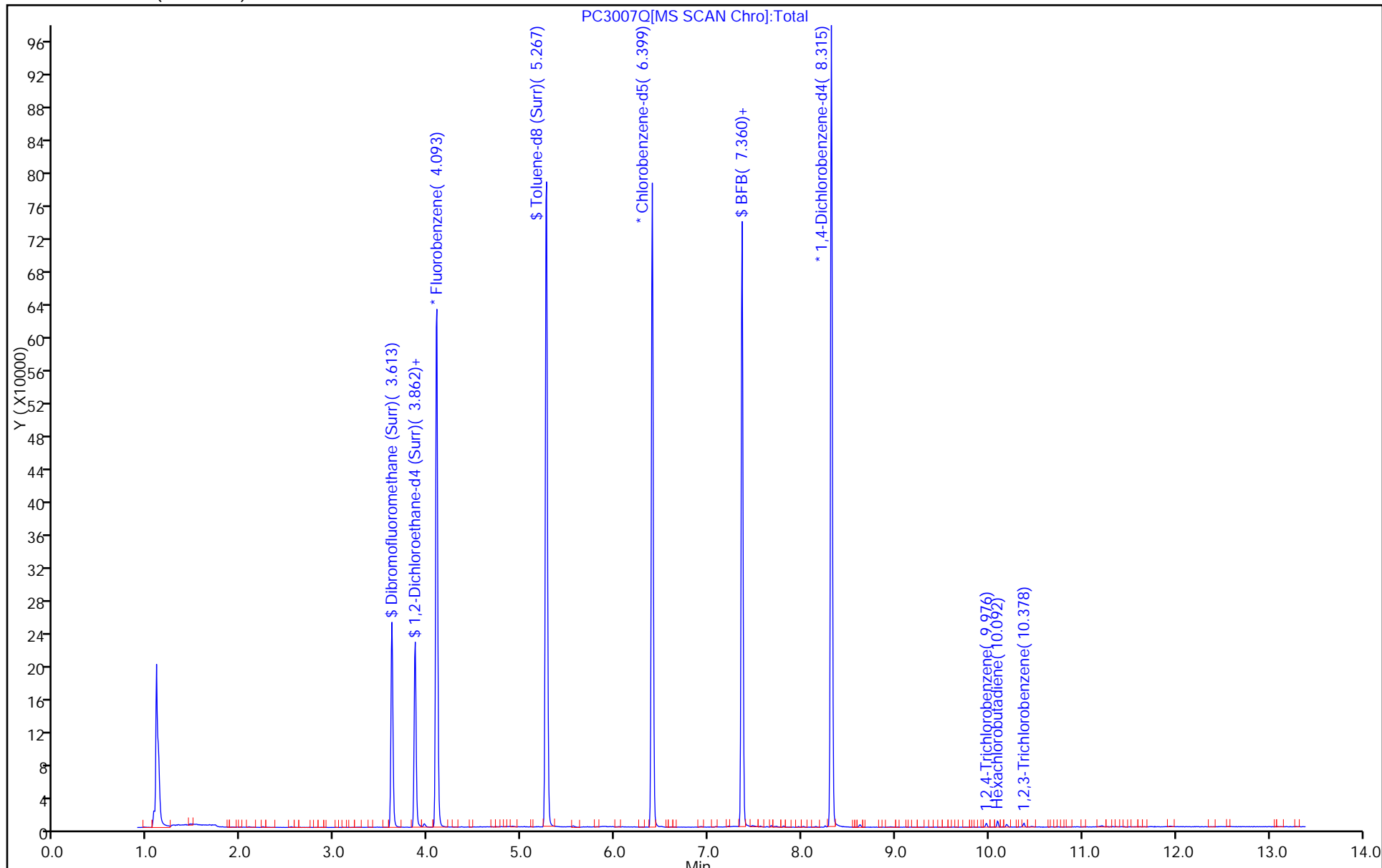
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-376701/4
 Matrix: Water Lab File ID: ACC3004.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 12:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	50.5		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	53.0		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	52.8		1.0	0.36
79-00-5	1,1,2-Trichloroethane	50.8		1.0	0.33
75-34-3	1,1-Dichloroethane	47.4		1.0	0.38
75-35-4	1,1-Dichloroethene	48.7		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	49.9		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	50.2		5.0	1.1
106-93-4	1,2-Dibromoethane	51.5		1.0	0.44
95-50-1	1,2-Dichlorobenzene	49.7		1.0	0.37
107-06-2	1,2-Dichloroethane	49.9		1.0	0.50
78-87-5	1,2-Dichloropropane	51.7		1.0	0.67
541-73-1	1,3-Dichlorobenzene	49.2		1.0	0.43
106-46-7	1,4-Dichlorobenzene	49.4		1.0	0.46
78-93-3	2-Butanone	262		10	3.4
591-78-6	2-Hexanone	224		10	2.0
108-10-1	4-Methyl-2-pentanone	242		10	2.1
67-64-1	Acetone	241		10	7.0
71-43-2	Benzene	50.8		1.0	0.43
75-27-4	Bromodichloromethane	51.7		1.0	0.44
75-25-2	Bromoform	53.8		1.0	0.43
74-83-9	Bromomethane	58.2		5.0	2.5
75-15-0	Carbon disulfide	54.5		2.0	1.0
56-23-5	Carbon tetrachloride	51.0		1.0	0.33
108-90-7	Chlorobenzene	50.4		1.0	0.26
75-00-3	Chloroethane	48.7		5.0	2.5
67-66-3	Chloroform	49.0		1.0	0.50
74-87-3	Chloromethane	52.3		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	51.7		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	51.2		1.0	0.40
110-82-7	Cyclohexane	51.9		1.0	0.39
124-48-1	Dibromochloromethane	52.0		1.0	0.32
75-71-8	Dichlorodifluoromethane	50.1		1.0	0.60
100-41-4	Ethylbenzene	51.1		1.0	0.33
98-82-8	Isopropylbenzene	50.8		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-376701/4
 Matrix: Water Lab File ID: ACC3004.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 12:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	244		5.0	1.8
1634-04-4	Methyl tert-butyl ether	51.5		10	0.30
108-87-2	Methylcyclohexane	51.0		1.0	0.43
75-09-2	Methylene Chloride	47.9		5.0	2.5
100-42-5	Styrene	51.0		1.0	0.27
127-18-4	Tetrachloroethene	50.2		1.0	0.74
108-88-3	Toluene	47.3		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	50.0		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	51.2		1.0	0.42
79-01-6	Trichloroethene	49.3		1.0	0.48
75-69-4	Trichlorofluoromethane	50.2		1.0	0.42
75-01-4	Vinyl chloride	46.0		1.0	0.50
1330-20-7	Xylenes, Total	99.0		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3004.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-Mar-2015 12:23:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018298-004
 Misc. Info.: LCS
 Operator ID: JK Instrument ID: CMSAC
 Method: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 13:24:27 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tippinsm

Date: 30-Mar-2015 13:24:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.137	1.137	0.000	99	154824	50.0	50.1	
2 Chloromethane	50	1.253	1.253	0.000	98	106026	50.0	52.3	
3 Vinyl chloride	62	1.301	1.302	-0.001	98	164301	50.0	46.0	
4 Butadiene	54	1.319	1.320	-0.001	95	185211	50.0	46.9	
5 Bromomethane	94	1.478	1.478	0.000	99	50248	50.0	58.2	
6 Chloroethane	64	1.538	1.539	-0.001	99	86560	50.0	48.7	
7 Dichlorofluoromethane	67	1.654	1.648	0.006	0	239431	50.0	47.4	
8 Trichlorofluoromethane	101	1.678	1.679	-0.001	100	271225	50.0	50.2	
10 Ethyl ether	59	1.837	1.837	0.000	95	119404	50.0	51.7	
11 Acrolein	56	1.934	1.934	0.000	95	219962	1000.0	1082.7	
12 1,1,2-Trichloro-1,2,2-trif	151	1.995	1.995	0.000	98	165663	50.0	52.8	
13 1,1-Dichloroethene	96	2.001	2.001	0.000	98	170190	50.0	48.7	
14 Acetone	58	2.019	2.020	-0.001	87	56087	250.0	241.0	
17 Iodomethane	142	2.116	2.117	-0.001	97	153889	50.0	56.9	
18 Carbon disulfide	76	2.171	2.172	-0.001	99	568897	50.0	54.5	
20 Methyl acetate	43	2.226	2.220	0.006	99	424441	250.0	244.0	
21 3-Chloro-1-propene	76	2.244	2.245	-0.001	93	122582	50.0	43.8	
22 Methylene Chloride	84	2.335	2.336	-0.001	89	156659	50.0	47.9	
23 2-Methyl-2-propanol	59	2.372	2.372	0.000	99	97770	500.0	488.9	
24 Acrylonitrile	53	2.487	2.488	-0.001	95	437801	500.0	466.7	
25 Methyl tert-butyl ether	73	2.506	2.500	0.006	97	372420	50.0	51.5	
26 trans-1,2-Dichloroethene	96	2.518	2.518	0.000	94	177912	50.0	50.0	
27 Hexane	57	2.700	2.701	-0.001	93	250597	50.0	51.8	
28 Vinyl acetate	43	2.804	2.804	0.000	100	500277	100.0	106.7	
29 1,1-Dichloroethane	63	2.822	2.823	-0.001	100	316838	50.0	47.4	
33 2-Butanone (MEK)	72	3.205	3.200	0.005	98	71823	250.0	262.0	
34 cis-1,2-Dichloroethene	61	3.218	3.218	0.000	99	275161	50.0	51.7	
36 2,2-Dichloropropane	77	3.224	3.224	0.000	95	258416	50.0	48.9	
39 Chlorobromomethane	130	3.394	3.388	0.006	84	134240	50.0	50.3	
40 Tetrahydrofuran	42	3.400	3.394	0.006	93	68826	100.0	96.0	
41 Chloroform	83	3.455	3.455	0.000	100	298432	50.0	49.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.570	3.571	-0.001	97	177561	50.0	50.5	
43 1,1,1-Trichloroethane	97	3.583	3.583	-0.001	98	269056	50.0	50.5	
44 Cyclohexane	84	3.637	3.632	0.005	90	273532	50.0	51.9	
46 Carbon tetrachloride	117	3.692	3.693	-0.001	98	239246	50.0	51.0	
45 1,1-Dichloropropene	75	3.692	3.693	-0.001	95	225878	50.0	52.7	
47 Isobutyl alcohol	43	3.735	3.735	0.000	97	115357	1250.0	1324.1	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.820	3.820	0.000	96	162763	50.0	49.2	
50 Benzene	78	3.838	3.839	0.000	96	713506	50.0	50.8	
51 1,2-Dichloroethane	62	3.881	3.875	0.006	98	199456	50.0	49.9	
54 n-Heptane	43	4.039	4.039	0.000	92	220870	50.0	45.8	
* 55 Fluorobenzene	96	4.051	4.051	0.000	0	662254	50.0	50.0	
57 Trichloroethene	132	4.319	4.319	0.000	96	202430	50.0	49.3	
59 Methylcyclohexane	83	4.495	4.496	-0.001	95	318584	50.0	51.0	
60 1,2-Dichloropropane	63	4.513	4.514	-0.001	94	182285	50.0	51.7	
62 1,4-Dioxane	88	4.562	4.562	0.000	92	20998	1000.0	1111.4	
63 Dibromomethane	93	4.580	4.581	-0.001	90	100105	50.0	49.2	
64 Dichlorobromomethane	83	4.708	4.702	0.006	99	222838	50.0	51.7	
66 2-Chloroethyl vinyl ether	63	4.915	4.915	0.000	0	89756	50.0	52.5	
67 cis-1,3-Dichloropropene	75	5.036	5.037	-0.001	91	267775	50.0	51.2	
68 4-Methyl-2-pentanone (MIBK	43	5.140	5.140	0.000	96	539293	250.0	241.8	
\$ 69 Toluene-d8 (Surr)	98	5.243	5.244	-0.001	99	610790	50.0	47.4	
70 Toluene	92	5.292	5.292	0.000	93	407268	50.0	47.3	
71 trans-1,3-Dichloropropene	75	5.474	5.475	-0.001	96	224125	50.0	51.2	
72 Ethyl methacrylate	69	5.511	5.511	0.000	88	174777	50.0	46.8	
73 1,1,2-Trichloroethane	83	5.627	5.627	0.000	96	116045	50.0	50.8	
74 Tetrachloroethene	164	5.693	5.688	0.005	97	172572	50.0	50.2	
75 1,3-Dichloropropane	76	5.754	5.755	-0.001	94	233310	50.0	50.6	
76 2-Hexanone	43	5.791	5.791	0.000	96	364857	250.0	224.1	
78 Chlorodibromomethane	129	5.925	5.925	0.000	98	169102	50.0	52.0	
79 Ethylene Dibromide	107	6.022	6.022	0.000	99	146699	50.0	51.5	
* 80 Chlorobenzene-d5	82	6.387	6.387	0.000	84	233522	50.0	50.0	
82 Chlorobenzene	112	6.411	6.412	-0.001	97	445403	50.0	50.4	
83 1,1,1,2-Tetrachloroethane	131	6.484	6.479	0.005	95	171592	50.0	55.5	
84 Ethylbenzene	91	6.484	6.485	-0.001	98	687791	50.0	51.1	
85 m-Xylene & p-Xylene	91	6.594	6.594	0.000	90	473927	50.0	49.1	
86 o-Xylene	91	6.904	6.905	-0.001	94	470820	50.0	49.9	
88 Styrene	104	6.922	6.923	-0.001	96	397663	50.0	51.0	
89 Bromoform	173	7.068	7.069	-0.001	99	104053	50.0	53.8	
90 Isopropylbenzene	105	7.202	7.203	-0.001	95	619139	50.0	50.8	
\$ 92 4-Bromofluorobenzene (Surr	95	7.348	7.349	-0.001	89	172155	50.0	46.6	
93 1,1,2,2-Tetrachloroethane	83	7.464	7.458	0.006	98	133939	50.0	53.0	
94 Bromobenzene	156	7.464	7.464	0.000	91	174810	50.0	51.5	
95 trans-1,4-Dichloro-2-buten	53	7.494	7.495	-0.001	88	35363	50.0	51.8	
96 1,2,3-Trichloropropane	75	7.506	7.507	-0.001	98	160423	50.0	52.8	
97 N-Propylbenzene	91	7.549	7.549	0.000	100	628101	50.0	50.5	
98 2-Chlorotoluene	91	7.622	7.622	0.000	96	360779	50.0	49.4	
99 1,3,5-Trimethylbenzene	105	7.701	7.702	-0.001	93	397414	50.0	50.7	
100 4-Chlorotoluene	91	7.725	7.726	-0.001	96	406423	50.0	50.1	
102 tert-Butylbenzene	119	7.963	7.957	0.006	97	387125	50.0	50.3	
105 1,2,4-Trimethylbenzene	105	8.011	8.012	-0.001	97	372296	50.0	49.5	
106 sec-Butylbenzene	105	8.145	8.146	-0.001	99	521684	50.0	50.3	
107 1,3-Dichlorobenzene	146	8.242	8.243	-0.001	98	247499	50.0	49.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	8.279	8.279	0.000	98	423168	50.0	49.1	
* 109 1,4-Dichlorobenzene-d4	152	8.309	8.310	-0.001	97	163554	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.334	8.328	0.006	96	247011	50.0	49.4	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	319374	50.0	49.4	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	221017	50.0	49.7	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	92	17885	50.0	50.2	
117 1,2,4-Trichlorobenzene	180	9.976	9.971	0.005	94	144545	50.0	49.9	
118 Hexachlorobutadiene	225	10.098	10.092	0.006	99	81427	50.0	50.7	
119 Naphthalene	128	10.195	10.196	-0.001	99	220767	50.0	47.4	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	96	125154	50.0	49.7	
S 122 1,2-Dichloroethene, Total	1				0		100.0	101.7	
S 123 Xylenes, Total	1				0		100.0	99.0	
S 124 1,3-Dichloropropene, Total	1				0		100.0	102.5	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01719	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3004.D

Injection Date: 30-Mar-2015 12:23:30

Instrument ID: CMSAC

Operator ID: JK

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

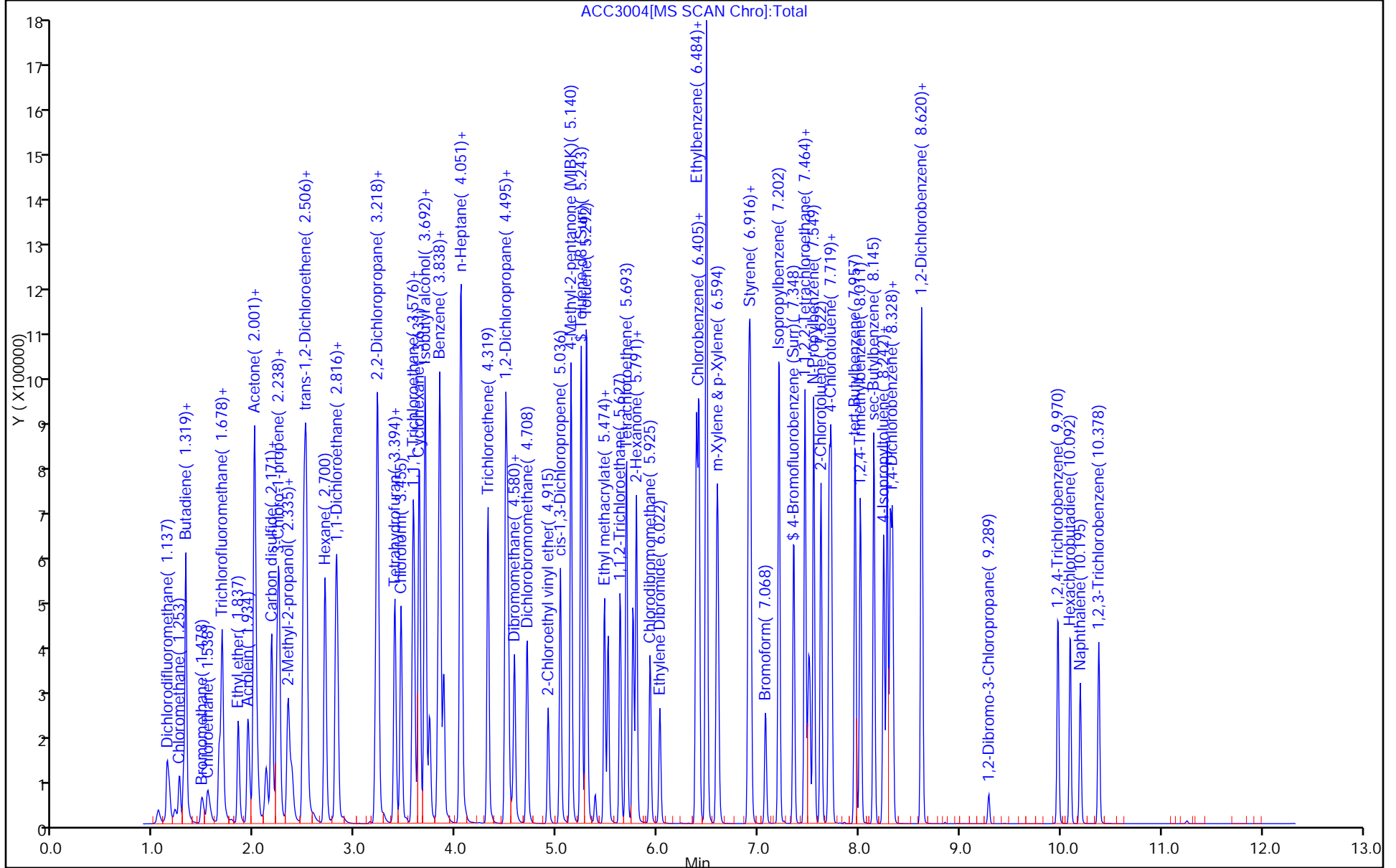
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-376775/3
 Matrix: Water Lab File ID: PC3003Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 18:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	45.2		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	44.7		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	45.2		1.0	0.36
79-00-5	1,1,2-Trichloroethane	43.2		1.0	0.33
75-34-3	1,1-Dichloroethane	43.4		1.0	0.38
75-35-4	1,1-Dichloroethene	42.7		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	44.6		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	48.3		5.0	1.1
106-93-4	1,2-Dibromoethane	43.5		1.0	0.44
95-50-1	1,2-Dichlorobenzene	44.2		1.0	0.37
107-06-2	1,2-Dichloroethane	42.6		1.0	0.50
78-87-5	1,2-Dichloropropane	43.7		1.0	0.67
541-73-1	1,3-Dichlorobenzene	44.2		1.0	0.43
106-46-7	1,4-Dichlorobenzene	43.0		1.0	0.46
78-93-3	2-Butanone	219		10	3.4
591-78-6	2-Hexanone	222		10	2.0
108-10-1	4-Methyl-2-pentanone	221		10	2.1
67-64-1	Acetone	219		10	7.0
71-43-2	Benzene	43.1		1.0	0.43
75-27-4	Bromodichloromethane	45.3		1.0	0.44
75-25-2	Bromoform	47.2		1.0	0.43
74-83-9	Bromomethane	44.5		5.0	2.5
75-15-0	Carbon disulfide	41.4		2.0	1.0
56-23-5	Carbon tetrachloride	45.8		1.0	0.33
108-90-7	Chlorobenzene	43.9		1.0	0.26
75-00-3	Chloroethane	44.7		5.0	2.5
67-66-3	Chloroform	44.5		1.0	0.50
74-87-3	Chloromethane	40.4		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	43.1		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	45.6		1.0	0.40
110-82-7	Cyclohexane	43.9		1.0	0.39
124-48-1	Dibromochloromethane	45.0		1.0	0.32
75-71-8	Dichlorodifluoromethane	42.6		1.0	0.60
100-41-4	Ethylbenzene	44.5		1.0	0.33
98-82-8	Isopropylbenzene	45.4		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-376775/3
 Matrix: Water Lab File ID: PC3003Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 18:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	215		5.0	1.8
1634-04-4	Methyl tert-butyl ether	43.5		10	0.30
108-87-2	Methylcyclohexane	45.0		1.0	0.43
75-09-2	Methylene Chloride	43.5		5.0	2.5
100-42-5	Styrene	45.4		1.0	0.27
127-18-4	Tetrachloroethene	43.8		1.0	0.74
108-88-3	Toluene	44.3		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	43.5		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	45.4		1.0	0.42
79-01-6	Trichloroethene	42.8		1.0	0.48
75-69-4	Trichlorofluoromethane	47.6		1.0	0.42
75-01-4	Vinyl chloride	44.1		1.0	0.50
1330-20-7	Xylenes, Total	90.8		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	88		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		70-130
1868-53-7	Dibromofluoromethane (Surr)	88		70-130
460-00-4	4-Bromofluorobenzene (Surr)	85		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3003Q.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-Mar-2015 18:37:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018314-003
 Misc. Info.: LCS
 Operator ID: DK Instrument ID: CMSP2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 31-Mar-2015 09:56:36 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK050

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	99	101930	50.0	42.6	
3 Chloromethane	50	1.319	1.319	0.000	99	81892	50.0	40.4	
2 Vinyl chloride	62	1.350	1.350	0.000	97	92820	50.0	44.1	
4 Butadiene	54	1.368	1.374	-0.006	94	76328	50.0	44.5	
5 Bromomethane	94	1.532	1.532	0.000	100	55121	50.0	44.5	
6 Chloroethane	64	1.587	1.587	0.000	99	47198	50.0	44.7	
7 Dichlorofluoromethane	67	1.702	1.702	0.000	100	145766	50.0	45.2	
8 Trichlorofluoromethane	101	1.739	1.733	0.006	98	137985	50.0	47.6	
10 Ethyl ether	59	1.897	1.897	0.000	94	73448	50.0	45.4	
13 Acrolein	56	1.988	1.988	0.000	96	180736	1000.0	1387.5	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.061	0.000	96	95308	50.0	45.2	
15 1,1-Dichloroethene	96	2.061	2.061	0.000	94	83661	50.0	42.7	
16 Acetone	58	2.074	2.074	0.000	88	41980	250.0	218.9	
17 Iodomethane	142	2.171	2.171	0.000	95	113369	50.0	42.9	
18 Carbon disulfide	76	2.232	2.232	0.000	98	250314	50.0	41.4	
20 Methyl acetate	43	2.280	2.280	0.000	97	307146	250.0	215.0	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	92	80200	50.0	50.0	
22 Methylene Chloride	84	2.384	2.384	0.000	83	95270	50.0	43.5	
23 2-Methyl-2-propanol	59	2.426	2.426	0.000	99	99632	500.0	466.5	
26 Acrylonitrile	53	2.530	2.530	0.000	94	349757	500.0	432.5	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	271640	50.0	43.5	
25 trans-1,2-Dichloroethene	96	2.578	2.572	0.006	90	92842	50.0	43.5	
27 Hexane	57	2.761	2.761	0.000	90	143838	50.0	44.9	
30 Vinyl acetate	43	2.858	2.858	0.000	99	330583	100.0	89.2	
29 1,1-Dichloroethane	63	2.870	2.871	-0.001	99	145301	50.0	43.4	
36 2-Butanone (MEK)	72	3.242	3.242	0.000	94	63977	250.0	219.4	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	98	129088	50.0	43.1	
34 2,2-Dichloropropane	77	3.272	3.272	0.000	93	129870	50.0	48.1	
38 Chlorobromomethane	130	3.436	3.436	0.000	77	73250	50.0	42.8	
39 Tetrahydrofuran	42	3.442	3.442	0.000	88	50761	100.0	87.9	
41 Chloroform	83	3.497	3.497	0.000	99	153077	50.0	44.5	
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	93053	50.0	44.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 1,1,1-Trichloroethane	97	3.631	3.631	0.000	97	135183	50.0	45.2	
42 Cyclohexane	84	3.686	3.686	0.000	85	151864	50.0	43.9	
47 1,1-Dichloropropene	75	3.734	3.734	0.000	97	116463	50.0	43.6	
45 Carbon tetrachloride	117	3.740	3.740	0.000	98	115654	50.0	45.8	
50 Isobutyl alcohol	43	3.771	3.771	0.000	96	96680	1250.0	1125.4	
\$ 52 1,2-Dichloroethane-d4 (Surr)	65	3.862	3.862	0.000	94	96945	50.0	41.9	
51 Benzene	78	3.880	3.880	0.000	95	377478	50.0	43.1	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	113980	50.0	42.6	
54 n-Heptane	43	4.081	4.081	0.000	88	148805	50.0	44.3	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	438321	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	119515	50.0	42.8	
59 Methylcyclohexane	83	4.531	4.531	0.000	93	205635	50.0	45.0	
60 1,2-Dichloropropane	63	4.543	4.544	-0.001	93	89072	50.0	43.7	
62 1,4-Dioxane	88	4.598	4.604	-0.006	88	30742	1000.0	923.4	
63 Dibromomethane	93	4.610	4.610	0.000	87	61262	50.0	43.2	
64 Dichlorobromomethane	83	4.732	4.732	0.000	98	123989	50.0	45.3	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	69980	50.0	44.5	
67 cis-1,3-Dichloropropene	75	5.054	5.055	-0.001	89	156207	50.0	45.6	
68 4-Methyl-2-pentanone (MIBK)	43	5.152	5.152	0.000	92	422407	250.0	221.4	
\$ 69 Toluene-d8 (Surr)	98	5.267	5.261	0.006	99	415060	50.0	44.1	
70 Toluene	92	5.316	5.316	0.000	93	277841	50.0	44.3	
71 trans-1,3-Dichloropropene	75	5.486	5.486	0.000	93	139771	50.0	45.4	
72 Ethyl methacrylate	69	5.523	5.523	0.000	85	140503	50.0	45.8	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	95	79509	50.0	43.2	
74 Tetrachloroethene	164	5.711	5.718	-0.007	93	122546	50.0	43.8	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	91	157850	50.0	42.8	
77 2-Hexanone	43	5.791	5.791	0.000	92	300417	250.0	222.0	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	115812	50.0	45.0	
79 Ethylene Dibromide	107	6.040	6.040	0.000	99	111860	50.0	43.5	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	189847	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	99	336575	50.0	43.9	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	94	110994	50.0	45.5	
83 Ethylbenzene	91	6.496	6.496	0.000	97	537229	50.0	44.5	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	91	441683	50.0	45.3	
87 o-Xylene	91	6.916	6.916	0.000	95	447185	50.0	45.5	
88 Styrene	104	6.928	6.928	0.000	97	385732	50.0	45.4	
89 Bromoform	173	7.080	7.080	0.000	99	98857	50.0	47.2	
90 Isopropylbenzene	105	7.214	7.214	0.000	94	605102	50.0	45.4	
\$ 92 4-Bromofluorobenzene (Surr)	95	7.360	7.360	0.000	85	164841	50.0	42.3	
94 1,1,2,2-Tetrachloroethane	83	7.457	7.458	-0.001	97	131521	50.0	44.7	
93 Bromobenzene	156	7.476	7.476	0.000	86	177450	50.0	44.4	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.488	0.006	88	33532	50.0	47.9	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	97	167427	50.0	44.8	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	676280	50.0	45.0	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	388446	50.0	43.8	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	93	499287	50.0	45.1	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	448855	50.0	44.1	
103 tert-Butylbenzene	119	7.962	7.962	0.000	96	475258	50.0	45.3	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	492804	50.0	44.8	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	690889	50.0	45.5	
109 1,3-Dichlorobenzene	146	8.248	8.248	0.000	99	334551	50.0	44.2	
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	604389	50.0	45.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	94	237993	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	96	321339	50.0	43.0	
113 n-Butylbenzene	91	8.619	8.620	-0.001	97	495443	50.0	46.8	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	314860	50.0	44.2	
115 1,2-Dibromo-3-Chloropropan	157	9.283	9.289	-0.006	87	40051	50.0	48.3	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	217868	50.0	44.6	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	98	149848	50.0	47.9	
119 Naphthalene	128	10.189	10.195	-0.006	99	341843	50.0	47.7	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	182254	50.0	44.6	
S 122 1,2-Dichloroethene, Total	1				0		100.0	86.6	
S 123 Xylenes, Total	1				0		100.0	90.8	
S 124 1,3-Dichloropropene, Total	1				0		100.0	91.0	

Reagents:

VM_Acrolein_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01723	Amount Added: 5.00	Units: uL
DOD ISTD_00034	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3003Q.D

Injection Date: 30-Mar-2015 18:37:30

Instrument ID: CMSP2

Operator ID: DK

Lims ID: LCS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL/100g

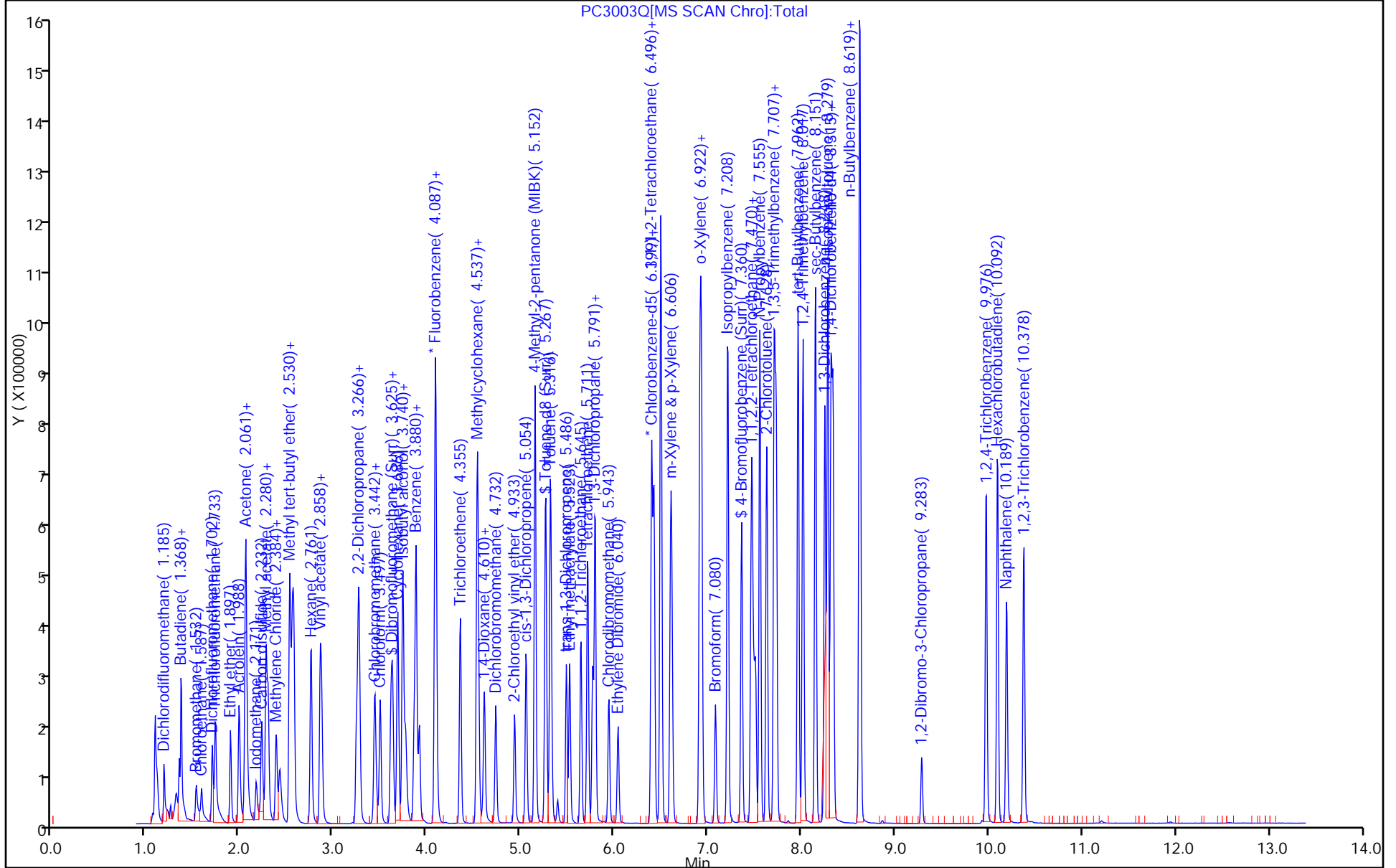
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-376701/5
 Matrix: Water Lab File ID: ACC3005.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 12:46
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	50.3		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	53.0		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	52.7		1.0	0.36
79-00-5	1,1,2-Trichloroethane	49.6		1.0	0.33
75-34-3	1,1-Dichloroethane	46.6		1.0	0.38
75-35-4	1,1-Dichloroethene	48.2		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	50.2		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	49.3		5.0	1.1
106-93-4	1,2-Dibromoethane	49.7		1.0	0.44
95-50-1	1,2-Dichlorobenzene	49.1		1.0	0.37
107-06-2	1,2-Dichloroethane	48.3		1.0	0.50
78-87-5	1,2-Dichloropropane	50.4		1.0	0.67
541-73-1	1,3-Dichlorobenzene	48.4		1.0	0.43
106-46-7	1,4-Dichlorobenzene	49.4		1.0	0.46
78-93-3	2-Butanone	261		10	3.4
591-78-6	2-Hexanone	217		10	2.0
108-10-1	4-Methyl-2-pentanone	235		10	2.1
67-64-1	Acetone	232		10	7.0
71-43-2	Benzene	49.8		1.0	0.43
75-27-4	Bromodichloromethane	50.7		1.0	0.44
75-25-2	Bromoform	54.3		1.0	0.43
74-83-9	Bromomethane	56.1		5.0	2.5
75-15-0	Carbon disulfide	53.6		2.0	1.0
56-23-5	Carbon tetrachloride	50.4		1.0	0.33
108-90-7	Chlorobenzene	50.7		1.0	0.26
75-00-3	Chloroethane	45.1		5.0	2.5
67-66-3	Chloroform	48.0		1.0	0.50
74-87-3	Chloromethane	50.5		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	50.5		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	50.4		1.0	0.40
110-82-7	Cyclohexane	51.9		1.0	0.39
124-48-1	Dibromochloromethane	50.6		1.0	0.32
75-71-8	Dichlorodifluoromethane	50.1		1.0	0.60
100-41-4	Ethylbenzene	51.2		1.0	0.33
98-82-8	Isopropylbenzene	51.2		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-376701/5
 Matrix: Water Lab File ID: ACC3005.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 12:46
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VMS ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	237		5.0	1.8
1634-04-4	Methyl tert-butyl ether	50.4		10	0.30
108-87-2	Methylcyclohexane	50.6		1.0	0.43
75-09-2	Methylene Chloride	46.6		5.0	2.5
100-42-5	Styrene	50.9		1.0	0.27
127-18-4	Tetrachloroethene	49.5		1.0	0.74
108-88-3	Toluene	46.5		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	49.5		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	49.8		1.0	0.42
79-01-6	Trichloroethene	48.4		1.0	0.48
75-69-4	Trichlorofluoromethane	49.4		1.0	0.42
75-01-4	Vinyl chloride	45.3		1.0	0.50
1330-20-7	Xylenes, Total	100		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3005.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 30-Mar-2015 12:46:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018298-005
 Misc. Info.: LCSD
 Operator ID: JK Instrument ID: CMSAC
 Method: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\2014_MSAC.m
 Limit Group: 8260B
 Last Update: 30-Mar-2015 13:25:19 Calib Date: 25-Mar-2015 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150325-18150.b\ACC2512.D
 Column 1 : Restek VMS column (0.18 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tippinsm

Date: 30-Mar-2015 13:25:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.137	1.137	0.000	99	158590	50.0	50.1	
2 Chloromethane	50	1.253	1.253	0.000	99	104965	50.0	50.5	
3 Vinyl chloride	62	1.302	1.302	0.000	98	166041	50.0	45.3	
4 Butadiene	54	1.320	1.320	0.000	94	189291	50.0	46.8	
5 Bromomethane	94	1.478	1.478	0.000	99	49620	50.0	56.1	
6 Chloroethane	64	1.533	1.539	-0.006	99	82132	50.0	45.1	
7 Dichlorofluoromethane	67	1.655	1.648	0.007	0	241695	50.0	46.7	
8 Trichlorofluoromethane	101	1.679	1.679	0.000	100	273484	50.0	49.4	
10 Ethyl ether	59	1.837	1.837	0.000	95	119774	50.0	50.6	
11 Acrolein	56	1.934	1.934	0.000	96	215157	1000.0	1033.1	
12 1,1,2-Trichloro-1,2,2-trif	151	1.995	1.995	0.000	96	169525	50.0	52.7	
13 1,1-Dichloroethene	96	2.001	2.001	0.000	98	172665	50.0	48.2	
14 Acetone	58	2.020	2.020	0.000	87	55288	250.0	231.7	
17 Iodomethane	142	2.117	2.117	0.000	97	154149	50.0	55.6	
18 Carbon disulfide	76	2.172	2.172	0.000	99	574631	50.0	53.6	
20 Methyl acetate	43	2.226	2.220	0.006	99	422264	250.0	236.8	
21 3-Chloro-1-propene	76	2.245	2.245	0.000	93	121795	50.0	42.5	
22 Methylene Chloride	84	2.336	2.336	0.000	90	156431	50.0	46.6	
23 2-Methyl-2-propanol	59	2.372	2.372	0.000	99	98286	500.0	479.4	
24 Acrylonitrile	53	2.488	2.488	0.000	96	450975	500.0	469.0	
25 Methyl tert-butyl ether	73	2.500	2.500	0.000	97	373966	50.0	50.4	
26 trans-1,2-Dichloroethene	96	2.518	2.518	0.000	94	180744	50.0	49.5	
27 Hexane	57	2.701	2.701	0.000	93	254454	50.0	51.3	
28 Vinyl acetate	43	2.804	2.804	0.000	100	492766	100.0	102.5	
29 1,1-Dichloroethane	63	2.823	2.823	0.000	100	319342	50.0	46.6	
33 2-Butanone (MEK)	72	3.206	3.200	0.006	98	73222	250.0	260.5	
34 cis-1,2-Dichloroethene	61	3.218	3.218	0.000	99	275848	50.0	50.5	
36 2,2-Dichloropropane	77	3.224	3.224	0.000	95	257158	50.0	47.5	
39 Chlorobromomethane	130	3.388	3.388	0.000	87	134495	50.0	49.1	
40 Tetrahydrofuran	42	3.401	3.394	0.007	92	68944	100.0	93.8	
41 Chloroform	83	3.455	3.455	0.000	100	299637	50.0	48.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 42 Dibromofluoromethane (Surr	113	3.571	3.571	0.000	97	173680	50.0	48.2	
43 1,1,1-Trichloroethane	97	3.583	3.583	0.000	98	274673	50.0	50.3	
44 Cyclohexane	84	3.638	3.632	0.006	90	280394	50.0	51.9	
46 Carbon tetrachloride	117	3.693	3.693	0.000	98	242004	50.0	50.4	
45 1,1-Dichloropropene	75	3.693	3.693	0.000	96	231589	50.0	52.7	
47 Isobutyl alcohol	43	3.735	3.735	0.000	95	117703	1250.0	1317.9	
\$ 48 1,2-Dichloroethane-d4 (Sur	65	3.820	3.820	0.000	96	164051	50.0	48.3	
50 Benzene	78	3.839	3.839	0.001	96	716885	50.0	49.8	
51 1,2-Dichloroethane	62	3.875	3.875	0.000	98	197938	50.0	48.3	
54 n-Heptane	43	4.039	4.039	0.000	91	222464	50.0	45.0	
* 55 Fluorobenzene	96	4.051	4.051	0.000	0	678869	50.0	50.0	
57 Trichloroethene	132	4.319	4.319	0.000	95	203834	50.0	48.4	
59 Methylcyclohexane	83	4.496	4.496	0.000	96	324307	50.0	50.6	
60 1,2-Dichloropropane	63	4.514	4.514	0.000	94	182058	50.0	50.4	
62 1,4-Dioxane	88	4.562	4.562	0.000	92	21695	1000.0	1120.2	
63 Dibromomethane	93	4.581	4.581	0.000	90	100612	50.0	48.2	
64 Dichlorobromomethane	83	4.702	4.702	0.000	99	224164	50.0	50.7	
66 2-Chloroethyl vinyl ether	63	4.915	4.915	0.000	0	89146	50.0	50.9	
67 cis-1,3-Dichloropropene	75	5.037	5.037	0.000	91	269979	50.0	50.4	
68 4-Methyl-2-pentanone (MIBK	43	5.140	5.140	0.000	95	537133	250.0	234.9	
\$ 69 Toluene-d8 (Surr)	98	5.244	5.244	0.000	99	610058	50.0	46.2	
70 Toluene	92	5.293	5.292	0.000	93	410189	50.0	46.5	
71 trans-1,3-Dichloropropene	75	5.475	5.475	0.000	96	223414	50.0	49.8	
72 Ethyl methacrylate	69	5.512	5.511	0.001	88	176964	50.0	46.3	
73 1,1,2-Trichloroethane	83	5.627	5.627	0.000	96	116217	50.0	49.6	
74 Tetrachloroethene	164	5.694	5.688	0.006	97	174425	50.0	49.5	
75 1,3-Dichloropropane	76	5.755	5.755	0.000	95	232711	50.0	49.3	
76 2-Hexanone	43	5.791	5.791	0.000	95	361886	250.0	216.9	
78 Chlorodibromomethane	129	5.925	5.925	0.000	98	168538	50.0	50.6	
79 Ethylene Dibromide	107	6.023	6.022	0.001	99	145126	50.0	49.7	
* 80 Chlorobenzene-d5	82	6.388	6.387	0.001	86	232723	50.0	50.0	
82 Chlorobenzene	112	6.412	6.412	0.000	98	446444	50.0	50.7	
83 1,1,1,2-Tetrachloroethane	131	6.479	6.479	0.000	96	169073	50.0	54.8	
84 Ethylbenzene	91	6.485	6.485	0.000	98	687378	50.0	51.2	
85 m-Xylene & p-Xylene	91	6.594	6.594	0.000	91	480363	50.0	50.0	
86 o-Xylene	91	6.905	6.905	0.000	94	470895	50.0	50.1	
88 Styrene	104	6.923	6.923	0.000	96	395484	50.0	50.9	
89 Bromoform	173	7.075	7.069	0.006	99	104586	50.0	54.3	
90 Isopropylbenzene	105	7.203	7.203	0.000	95	622066	50.0	51.2	
\$ 92 4-Bromofluorobenzene (Surr	95	7.349	7.349	0.000	90	173427	50.0	46.6	
93 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	98	133536	50.0	53.0	
94 Bromobenzene	156	7.464	7.464	0.000	90	173574	50.0	51.3	
95 trans-1,4-Dichloro-2-buten	53	7.495	7.495	0.000	86	34448	50.0	50.6	
96 1,2,3-Trichloropropane	75	7.507	7.507	0.000	97	159020	50.0	52.5	
97 N-Propylbenzene	91	7.549	7.549	0.000	100	632796	50.0	51.0	
98 2-Chlorotoluene	91	7.622	7.622	0.000	96	361147	50.0	49.6	
99 1,3,5-Trimethylbenzene	105	7.702	7.702	0.000	93	395325	50.0	50.6	
100 4-Chlorotoluene	91	7.726	7.726	0.000	96	408285	50.0	50.5	
102 tert-Butylbenzene	119	7.963	7.957	0.006	96	391206	50.0	51.0	
105 1,2,4-Trimethylbenzene	105	8.012	8.012	0.000	97	374078	50.0	49.9	
106 sec-Butylbenzene	105	8.146	8.146	0.000	99	531263	50.0	51.5	
107 1,3-Dichlorobenzene	146	8.243	8.243	0.000	98	245501	50.0	48.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	8.279	8.279	0.000	98	425521	50.0	48.9	
* 109 1,4-Dichlorobenzene-d4	152	8.310	8.310	0.000	97	164868	50.0	50.0	
110 1,4-Dichlorobenzene	146	8.334	8.328	0.006	96	248759	50.0	49.4	
113 n-Butylbenzene	91	8.620	8.620	0.000	97	321706	50.0	49.3	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	98	220206	50.0	49.1	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	94	17675	50.0	49.3	
117 1,2,4-Trichlorobenzene	180	9.977	9.971	0.006	93	146416	50.0	50.2	
118 Hexachlorobutadiene	225	10.098	10.092	0.006	98	82243	50.0	50.8	
119 Naphthalene	128	10.196	10.196	0.000	99	226746	50.0	48.3	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	127185	50.0	50.1	
S 122 1,2-Dichloroethene, Total	1				0		100.0	100.1	
S 123 Xylenes, Total	1				0		100.0	100.0	
S 124 1,3-Dichloropropene, Total	1				0		100.0	100.2	

Reagents:

DOD ISTD_00033	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01719	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSAC\20150330-18298.b\ACC3005.D

Injection Date: 30-Mar-2015 12:46:30

Instrument ID: CMSAC

Operator ID: JK

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

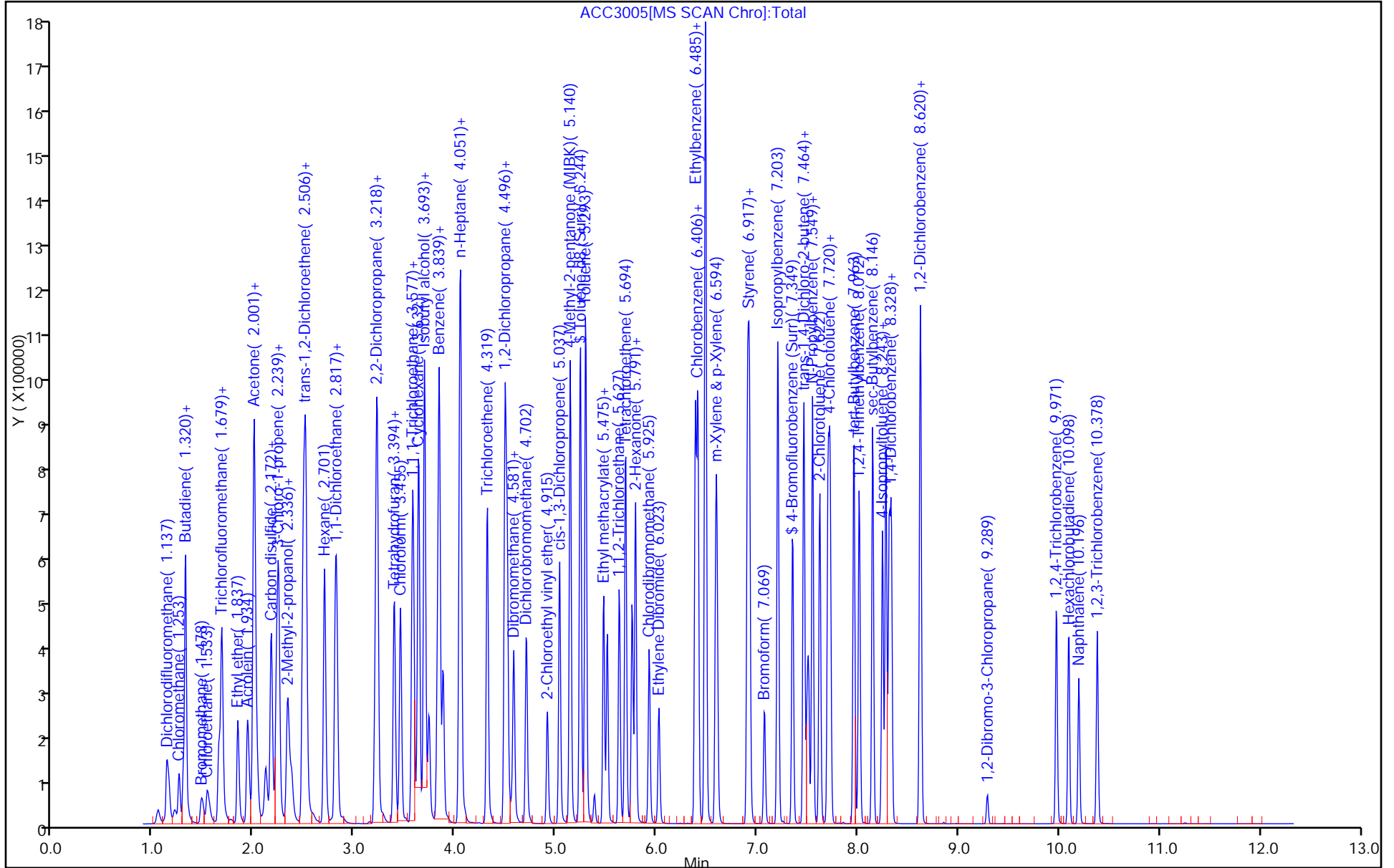
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 2014_MSAC

Limit Group: 8260B

Column: Restek VMS column (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-376775/4
 Matrix: Water Lab File ID: PC3004Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 18:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	45.3		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	44.4		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	45.4		1.0	0.36
79-00-5	1,1,2-Trichloroethane	43.5		1.0	0.33
75-34-3	1,1-Dichloroethane	43.2		1.0	0.38
75-35-4	1,1-Dichloroethene	42.4		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	44.9		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	47.6		5.0	1.1
106-93-4	1,2-Dibromoethane	43.9		1.0	0.44
95-50-1	1,2-Dichlorobenzene	44.3		1.0	0.37
107-06-2	1,2-Dichloroethane	42.8		1.0	0.50
78-87-5	1,2-Dichloropropane	43.6		1.0	0.67
541-73-1	1,3-Dichlorobenzene	44.5		1.0	0.43
106-46-7	1,4-Dichlorobenzene	43.9		1.0	0.46
78-93-3	2-Butanone	222		10	3.4
591-78-6	2-Hexanone	222		10	2.0
108-10-1	4-Methyl-2-pentanone	220		10	2.1
67-64-1	Acetone	228		10	7.0
71-43-2	Benzene	43.3		1.0	0.43
75-27-4	Bromodichloromethane	45.7		1.0	0.44
75-25-2	Bromoform	47.0		1.0	0.43
74-83-9	Bromomethane	43.5		5.0	2.5
75-15-0	Carbon disulfide	42.5		2.0	1.0
56-23-5	Carbon tetrachloride	45.6		1.0	0.33
108-90-7	Chlorobenzene	43.7		1.0	0.26
75-00-3	Chloroethane	44.5		5.0	2.5
67-66-3	Chloroform	43.9		1.0	0.50
74-87-3	Chloromethane	39.9		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	42.5		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	45.2		1.0	0.40
110-82-7	Cyclohexane	43.6		1.0	0.39
124-48-1	Dibromochloromethane	45.5		1.0	0.32
75-71-8	Dichlorodifluoromethane	42.7		1.0	0.60
100-41-4	Ethylbenzene	44.7		1.0	0.33
98-82-8	Isopropylbenzene	45.1		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-376775/4
 Matrix: Water Lab File ID: PC3004Q.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 18:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	214		5.0	1.8
1634-04-4	Methyl tert-butyl ether	43.5		10	0.30
108-87-2	Methylcyclohexane	44.6		1.0	0.43
75-09-2	Methylene Chloride	43.3		5.0	2.5
100-42-5	Styrene	45.1		1.0	0.27
127-18-4	Tetrachloroethene	43.7		1.0	0.74
108-88-3	Toluene	43.9		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	43.5		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	44.9		1.0	0.42
79-01-6	Trichloroethene	42.8		1.0	0.48
75-69-4	Trichlorofluoromethane	47.8		1.0	0.42
75-01-4	Vinyl chloride	44.0		1.0	0.50
1330-20-7	Xylenes, Total	89.9		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	88		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		70-130
1868-53-7	Dibromofluoromethane (Surr)	87		70-130
460-00-4	4-Bromofluorobenzene (Surr)	85		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3004Q.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 30-Mar-2015 18:59:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018314-004
 Misc. Info.: LCSD
 Operator ID: DK Instrument ID: CMSP2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 31-Mar-2015 09:56:36 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: derricoj

Date: 31-Mar-2015 09:37:35

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	99	102323	50.0	42.7	
3 Chloromethane	50	1.319	1.319	0.000	99	80937	50.0	39.9	
2 Vinyl chloride	62	1.349	1.350	-0.001	97	92570	50.0	44.0	
4 Butadiene	54	1.368	1.374	-0.006	96	75304	50.0	43.9	
5 Bromomethane	94	1.532	1.532	0.000	99	54096	50.0	43.5	
6 Chloroethane	64	1.587	1.587	0.000	99	47033	50.0	44.5	
7 Dichlorofluoromethane	67	1.702	1.702	0.000	100	147437	50.0	45.7	
8 Trichlorofluoromethane	101	1.739	1.733	0.006	98	138886	50.0	47.8	
10 Ethyl ether	59	1.897	1.897	0.000	94	72953	50.0	45.0	
13 Acrolein	56	1.988	1.988	0.000	96	182665	1000.0	1398.3	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.061	0.000	96	95780	50.0	45.4	
15 1,1-Dichloroethene	96	2.061	2.061	0.000	94	83141	50.0	42.4	
16 Acetone	58	2.073	2.074	-0.001	87	43725	250.0	227.8	
17 Iodomethane	142	2.171	2.171	0.000	95	113660	50.0	43.0	
18 Carbon disulfide	76	2.232	2.232	0.000	98	257367	50.0	42.5	
20 Methyl acetate	43	2.280	2.280	0.000	97	305982	250.0	214.1	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	92	73245	50.0	45.6	
22 Methylene Chloride	84	2.384	2.384	0.000	83	95053	50.0	43.3	
23 2-Methyl-2-propanol	59	2.426	2.426	0.000	99	99362	500.0	464.9	
26 Acrylonitrile	53	2.530	2.530	0.000	94	349477	500.0	431.9	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	272064	50.0	43.5	
25 trans-1,2-Dichloroethene	96	2.572	2.572	0.000	90	92714	50.0	43.5	
27 Hexane	57	2.761	2.761	0.000	90	142608	50.0	44.5	
30 Vinyl acetate	43	2.858	2.858	0.000	99	333920	100.0	90.0	
29 1,1-Dichloroethane	63	2.870	2.871	-0.001	99	144910	50.0	43.2	
36 2-Butanone (MEK)	72	3.248	3.242	0.006	94	64770	250.0	222.0	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	98	127542	50.0	42.5	
34 2,2-Dichloropropane	77	3.278	3.272	0.006	94	127670	50.0	47.2	
38 Chlorobromomethane	130	3.436	3.436	0.000	76	73516	50.0	42.9	
39 Tetrahydrofuran	42	3.448	3.442	0.006	87	50860	100.0	88.0	
41 Chloroform	83	3.497	3.497	0.000	99	151345	50.0	43.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	92379	50.0	43.6	
43 1,1,1-Trichloroethane	97	3.631	3.631	0.000	97	135662	50.0	45.3	
42 Cyclohexane	84	3.686	3.686	0.000	85	151053	50.0	43.6	
47 1,1-Dichloropropene	75	3.734	3.734	0.000	98	117355	50.0	43.9	
45 Carbon tetrachloride	117	3.740	3.740	0.000	97	115380	50.0	45.6	
50 Isobutyl alcohol	43	3.771	3.771	0.000	97	96973	1250.0	1127.9	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	94	96023	50.0	41.5	
51 Benzene	78	3.880	3.880	0.000	95	379085	50.0	43.3	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	114375	50.0	42.8	
54 n-Heptane	43	4.081	4.081	0.000	88	147335	50.0	43.9	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	438650	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	119680	50.0	42.8	
59 Methylcyclohexane	83	4.531	4.531	0.000	92	204035	50.0	44.6	
60 1,2-Dichloropropane	63	4.543	4.544	-0.001	93	89025	50.0	43.6	
62 1,4-Dioxane	88	4.598	4.604	-0.006	87	30506	1000.0	915.7	
63 Dibromomethane	93	4.610	4.610	0.000	87	61807	50.0	43.6	
64 Dichlorobromomethane	83	4.732	4.732	0.000	98	125123	50.0	45.7	
66 2-Chloroethyl vinyl ether	63	4.933	4.933	0.000	0	69751	50.0	44.3	
67 cis-1,3-Dichloropropene	75	5.054	5.055	-0.001	89	154854	50.0	45.2	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	92	420343	250.0	220.2	
\$ 69 Toluene-d8 (Surr)	98	5.267	5.261	0.006	99	414221	50.0	44.0	
70 Toluene	92	5.316	5.316	0.000	93	275689	50.0	43.9	
71 trans-1,3-Dichloropropene	75	5.486	5.486	0.000	93	138404	50.0	44.9	
72 Ethyl methacrylate	69	5.523	5.523	0.000	85	139473	50.0	45.4	
73 1,1,2-Trichloroethane	83	5.644	5.645	-0.001	95	80142	50.0	43.5	
74 Tetrachloroethene	164	5.711	5.718	-0.007	94	122598	50.0	43.7	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	91	157523	50.0	42.7	
77 2-Hexanone	43	5.797	5.791	0.006	92	300254	250.0	221.7	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	117197	50.0	45.5	
79 Ethylene Dibromide	107	6.040	6.040	0.000	98	113142	50.0	43.9	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	189666	50.0	50.0	
82 Chlorobenzene	112	6.423	6.423	0.000	98	334924	50.0	43.7	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	95	111493	50.0	45.8	
83 Ethylbenzene	91	6.496	6.496	0.000	97	539356	50.0	44.7	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	91	432742	50.0	44.5	
87 o-Xylene	91	6.916	6.916	0.000	95	447040	50.0	45.5	
88 Styrene	104	6.928	6.928	0.000	96	382735	50.0	45.1	
89 Bromoform	173	7.080	7.080	0.000	99	98424	50.0	47.0	
90 Isopropylbenzene	105	7.214	7.214	0.000	94	599526	50.0	45.1	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	85	165180	50.0	42.6	
94 1,1,2,2-Tetrachloroethane	83	7.457	7.458	-0.001	97	130505	50.0	44.4	
93 Bromobenzene	156	7.476	7.476	0.000	87	175854	50.0	44.1	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.488	0.006	86	33316	50.0	47.6	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	95	167371	50.0	44.8	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	669988	50.0	44.7	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	388373	50.0	43.8	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	94	493779	50.0	44.6	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	444493	50.0	43.7	
103 tert-Butylbenzene	119	7.962	7.962	0.000	96	473227	50.0	45.2	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	492935	50.0	44.8	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	685027	50.0	45.1	
109 1,3-Dichlorobenzene	146	8.248	8.248	0.000	99	334702	50.0	44.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	600229	50.0	45.4	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	94	236904	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	97	326649	50.0	43.9	
113 n-Butylbenzene	91	8.619	8.620	-0.001	97	491975	50.0	46.7	
114 1,2-Dichlorobenzene	146	8.625	8.626	-0.001	99	313923	50.0	44.3	
115 1,2-Dibromo-3-Chloropropan	157	9.282	9.289	-0.007	88	39272	50.0	47.6	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	218325	50.0	44.9	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	98	146444	50.0	47.0	
119 Naphthalene	128	10.195	10.195	0.000	99	339680	50.0	47.6	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	96	184895	50.0	45.5	
S 122 1,2-Dichloroethene, Total	1				0		100.0	86.0	
S 123 Xylenes, Total	1				0		100.0	89.9	
S 124 1,3-Dichloropropene, Total	1				0		100.0	90.1	

Reagents:

VM_Acrolein_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01723	Amount Added: 5.00	Units: uL
DOD ISTD_00034	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3004Q.D

Injection Date: 30-Mar-2015 18:59:30

Instrument ID: CMSP2

Operator ID: DK

Lims ID: LCSD

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL/100g

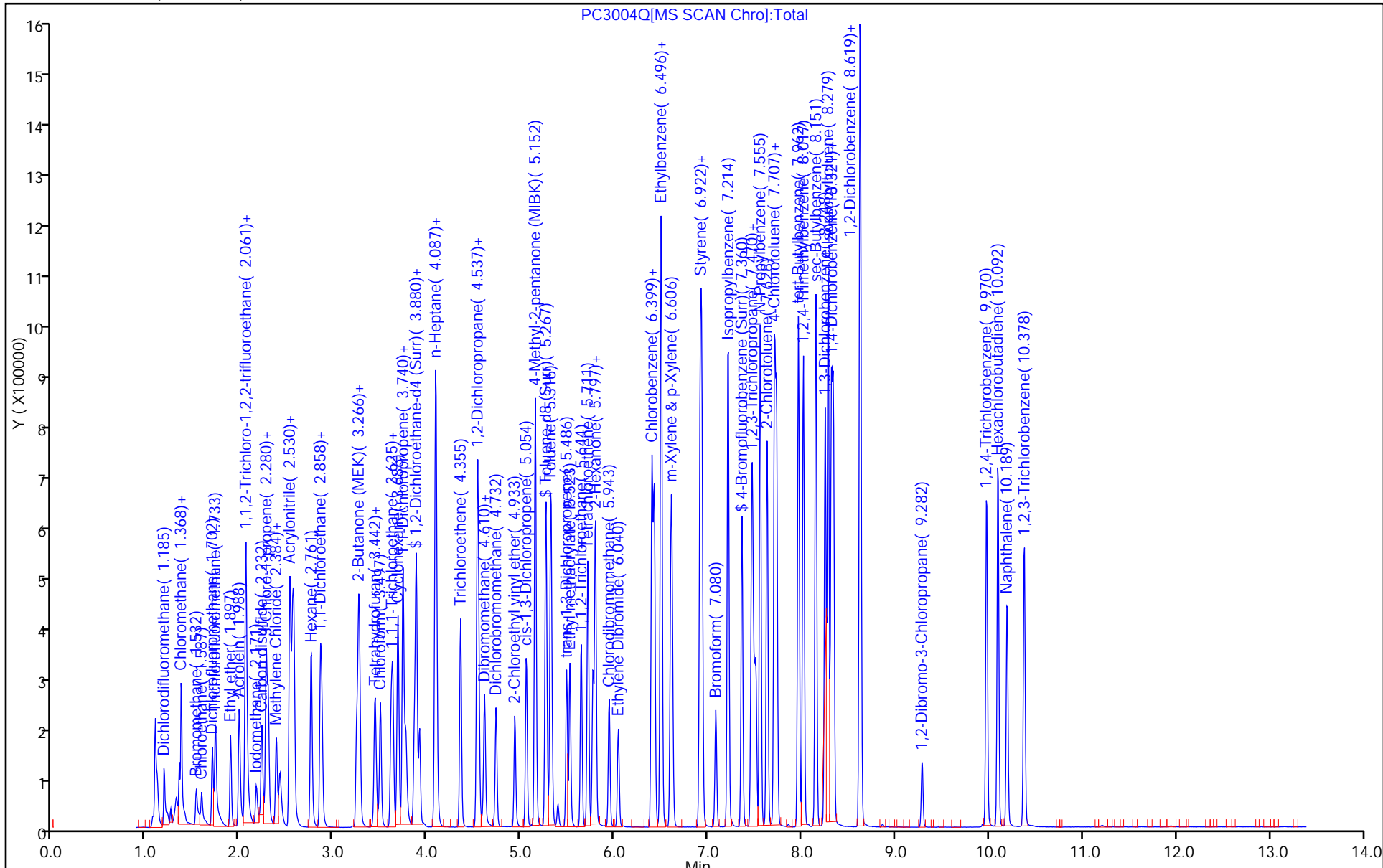
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114MS MS Lab Sample ID: 680-110788-2MS
 Matrix: Water Lab File ID: PC3025Q.D
 Analysis Method: 8260B Date Collected: 03/18/2015 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/31/2015 02:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	53.1		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	48.1		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	53.2		1.0	0.36
79-00-5	1,1,2-Trichloroethane	47.1		1.0	0.33
75-34-3	1,1-Dichloroethane	49.6		1.0	0.38
75-35-4	1,1-Dichloroethene	50.9		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	47.0		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	50.1		5.0	1.1
106-93-4	1,2-Dibromoethane	47.1		1.0	0.44
95-50-1	1,2-Dichlorobenzene	49.7		1.0	0.37
107-06-2	1,2-Dichloroethane	48.1		1.0	0.50
78-87-5	1,2-Dichloropropane	49.5		1.0	0.67
541-73-1	1,3-Dichlorobenzene	49.9		1.0	0.43
106-46-7	1,4-Dichlorobenzene	49.4		1.0	0.46
78-93-3	2-Butanone	231		10	3.4
591-78-6	2-Hexanone	234		10	2.0
108-10-1	4-Methyl-2-pentanone	239		10	2.1
67-64-1	Acetone	239		10	7.0
71-43-2	Benzene	49.4		1.0	0.43
75-27-4	Bromodichloromethane	51.0		1.0	0.44
75-25-2	Bromoform	51.2		1.0	0.43
74-83-9	Bromomethane	49.5		5.0	2.5
75-15-0	Carbon disulfide	51.2		2.0	1.0
56-23-5	Carbon tetrachloride	53.8		1.0	0.33
108-90-7	Chlorobenzene	49.7		1.0	0.26
75-00-3	Chloroethane	53.9		5.0	2.5
67-66-3	Chloroform	50.4		1.0	0.50
74-87-3	Chloromethane	50.2		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	48.7		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	48.9		1.0	0.40
110-82-7	Cyclohexane	51.6		1.0	0.39
124-48-1	Dibromochloromethane	50.4		1.0	0.32
75-71-8	Dichlorodifluoromethane	58.6		1.0	0.60
100-41-4	Ethylbenzene	50.9		1.0	0.33
98-82-8	Isopropylbenzene	51.3		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114MS MS Lab Sample ID: 680-110788-2MS
 Matrix: Water Lab File ID: PC3025Q.D
 Analysis Method: 8260B Date Collected: 03/18/2015 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/31/2015 02:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	219		5.0	1.8
1634-04-4	Methyl tert-butyl ether	47.5		10	0.30
108-87-2	Methylcyclohexane	51.3		1.0	0.43
75-09-2	Methylene Chloride	49.3		5.0	2.5
100-42-5	Styrene	50.4		1.0	0.27
127-18-4	Tetrachloroethene	50.0		1.0	0.74
108-88-3	Toluene	50.2		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	49.2		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	47.7		1.0	0.42
79-01-6	Trichloroethene	48.8		1.0	0.48
75-69-4	Trichlorofluoromethane	59.6		1.0	0.42
75-01-4	Vinyl chloride	55.1		1.0	0.50
1330-20-7	Xylenes, Total	102		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3025Q.D
 Lims ID: 680-110788-E-2 MS
 Client ID: 25LM20114MS
 Sample Type: MS
 Inject. Date: 31-Mar-2015 02:30:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018314-025
 Misc. Info.: 788-2 MS
 Operator ID: DK Instrument ID: CMSP2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 31-Mar-2015 09:37:18 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: derricoj

Date: 31-Mar-2015 09:23:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	99	139674	50.0	58.6	
3 Chloromethane	50	1.313	1.319	-0.006	99	101158	50.0	50.2	
2 Vinyl chloride	62	1.350	1.350	0.000	98	115199	50.0	55.1	
4 Butadiene	54	1.368	1.374	-0.006	96	95450	50.0	56.0	
5 Bromomethane	94	1.532	1.532	0.000	98	60313	50.0	49.5	
6 Chloroethane	64	1.587	1.587	0.000	99	56661	50.0	53.9	
7 Dichlorofluoromethane	67	1.703	1.702	0.001	100	170659	50.0	53.3	
8 Trichlorofluoromethane	101	1.739	1.733	0.006	98	172028	50.0	59.6	
10 Ethyl ether	59	1.897	1.897	0.000	95	78820	50.0	49.0	
11 Furan	68	1.733	1.915	-0.182	43	6363		NC	
13 Acrolein	56	1.988	1.988	0.000	96	149300	1000.0	1197.1	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.061	0.000	96	111681	50.0	53.2	
15 1,1-Dichloroethene	96	2.061	2.061	0.000	94	99335	50.0	50.9	
16 Acetone	58	2.074	2.074	0.000	88	45565	250.0	238.9	
14 Isopropyl alcohol	45	2.147	2.141	0.006	90	29397		212.5	
17 Iodomethane	142	2.171	2.171	0.000	96	109572	50.0	41.7	
18 Carbon disulfide	76	2.232	2.232	0.000	98	308081	50.0	51.2	
20 Methyl acetate	43	2.274	2.280	-0.006	97	310825	250.0	218.8	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	93	79995	50.0	50.1	
22 Methylene Chloride	84	2.384	2.384	0.000	83	107539	50.0	49.3	
23 2-Methyl-2-propanol	59	2.426	2.426	0.000	99	96282	500.0	453.3	
26 Acrylonitrile	53	2.530	2.530	0.000	93	366343	500.0	455.6	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	295098	50.0	47.5	
25 trans-1,2-Dichloroethene	96	2.573	2.572	0.000	90	104420	50.0	49.2	
27 Hexane	57	2.761	2.761	0.000	90	154303	50.0	48.5	
30 Vinyl acetate	43	2.858	2.858	0.000	99	338262	100.0	91.8	
29 1,1-Dichloroethane	63	2.871	2.871	0.000	99	165390	50.0	49.6	
36 2-Butanone (MEK)	72	3.242	3.242	0.000	96	66993	250.0	231.1	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	98	144992	50.0	48.7	
34 2,2-Dichloropropane	77	3.278	3.272	0.006	94	128948	50.0	48.0	
38 Chlorobromomethane	130	3.436	3.436	0.000	76	82447	50.0	48.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tetrahydrofuran	42	3.442	3.442	0.000	89	52837	100.0	92.0	
41 Chloroform	83	3.497	3.497	0.000	99	172484	50.0	50.4	
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	102401	50.0	48.7	
43 1,1,1-Trichloroethane	97	3.631	3.631	0.000	97	157986	50.0	53.1	
42 Cyclohexane	84	3.686	3.686	0.000	85	177630	50.0	51.6	
47 1,1-Dichloropropene	75	3.741	3.734	0.007	97	133995	50.0	50.4	
45 Carbon tetrachloride	117	3.741	3.740	0.001	97	135220	50.0	53.8	
50 Isobutyl alcohol	43	3.771	3.771	0.000	98	95360	1250.0	1116.2	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	94	106499	50.0	46.3	
51 Benzene	78	3.880	3.880	0.000	94	430227	50.0	49.4	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	127823	50.0	48.1	
48 Isooctane	57	3.960	3.960	0.000	71	4369		0.5400	
54 n-Heptane	43	4.081	4.081	0.000	88	153960	50.0	46.1	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	435875	50.0	50.0	
56 n-Butanol	56	4.306	4.245	0.061	24	38		0.5682	
58 Trichloroethene	132	4.355	4.355	0.000	94	135477	50.0	48.8	
59 Methylcyclohexane	83	4.531	4.531	0.000	93	233314	50.0	51.3	
60 1,2-Dichloropropane	63	4.544	4.544	0.000	93	100267	50.0	49.5	
62 1,4-Dioxane	88	4.598	4.604	-0.006	88	29934	1000.0	904.2	
63 Dibromomethane	93	4.610	4.610	0.000	87	66280	50.0	47.0	
64 Dichlorobromomethane	83	4.732	4.732	0.000	99	138639	50.0	51.0	
67 cis-1,3-Dichloropropene	75	5.055	5.055	0.000	89	166483	50.0	48.9	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	93	454123	250.0	239.4	
\$ 69 Toluene-d8 (Surr)	98	5.268	5.261	0.007	99	459216	50.0	49.4	
70 Toluene	92	5.316	5.316	0.000	93	312802	50.0	50.2	
71 trans-1,3-Dichloropropene	75	5.487	5.486	0.001	94	146193	50.0	47.7	
72 Ethyl methacrylate	69	5.523	5.523	0.000	86	148203	50.0	48.6	
73 1,1,2-Trichloroethane	83	5.639	5.645	-0.006	95	86263	50.0	47.1	
74 Tetrachloroethene	164	5.718	5.718	0.000	94	139200	50.0	50.0	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	85	172142	50.0	47.0	
77 2-Hexanone	43	5.791	5.791	0.000	91	315294	250.0	234.3	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	129161	50.0	50.4	
79 Ethylene Dibromide	107	6.040	6.040	0.000	98	120508	50.0	47.1	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	187388	50.0	50.0	
80 1-Chlorohexane	55	6.399	6.399	0.000	28	3508		1.59	
82 Chlorobenzene	112	6.423	6.423	0.000	98	376410	50.0	49.7	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	94	123883	50.0	51.5	
83 Ethylbenzene	91	6.496	6.496	0.000	97	605931	50.0	50.9	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	91	490855	50.0	51.0	
87 o-Xylene	91	6.916	6.916	0.000	95	498114	50.0	51.3	
88 Styrene	104	6.928	6.928	0.000	97	422474	50.0	50.4	
86 n-Butyl acrylate	55	6.922	6.971	-0.049	29	115		NC	
89 Bromoform	173	7.080	7.080	0.000	99	105892	50.0	51.2	
90 Isopropylbenzene	105	7.214	7.214	0.000	94	673847	50.0	51.3	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	85	181118	50.0	48.3	
94 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	97	139913	50.0	48.1	
93 Bromobenzene	156	7.476	7.476	0.000	87	193605	50.0	49.1	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.488	0.006	92	33422	50.0	48.4	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	97	172626	50.0	46.8	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	749274	50.0	50.5	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	434574	50.0	49.6	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	93	552313	50.0	50.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	489412	50.0	48.7	
103 tert-Butylbenzene	119	7.963	7.962	0.001	96	534492	50.0	51.6	
104 Pentachloroethane	167	7.987	7.987	0.000	60	1125		0.6164	7
102 Alpha Methyl Styrene	118	8.017	8.005	0.012	44	3562		NC	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	538156	50.0	49.5	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	767868	50.0	51.2	
109 1,3-Dichlorobenzene	146	8.248	8.248	0.000	99	363834	50.0	49.9	
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	655486	50.0	51.3	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	95	229348	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.334	8.340	-0.006	96	356403	50.0	49.4	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	524344	50.0	51.4	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	99	340732	50.0	49.7	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	88	39986	50.0	50.1	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	221190	50.0	47.0	
118 Hexachlorobutadiene	225	10.098	10.098	0.000	98	148408	50.0	49.2	
119 Naphthalene	128	10.195	10.195	0.000	99	335830	50.0	48.6	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	181832	50.0	46.2	
S 122 1,2-Dichloroethene, Total	1				0		100.0	97.9	
S 123 Xylenes, Total	1				0		100.0	102.3	
S 124 1,3-Dichloropropene, Total	1				0		100.0	96.6	
\$ 127 BFB									

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

DOD ISTD_00034	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01723	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3025Q.D

Injection Date: 31-Mar-2015 02:30:30

Instrument ID: CMSP2

Operator ID: DK

Lims ID: 680-110788-E-2 MS

Worklist Smp#: 25

Client ID: 25LM20114MS

Purge Vol: 5.000 mL/100g

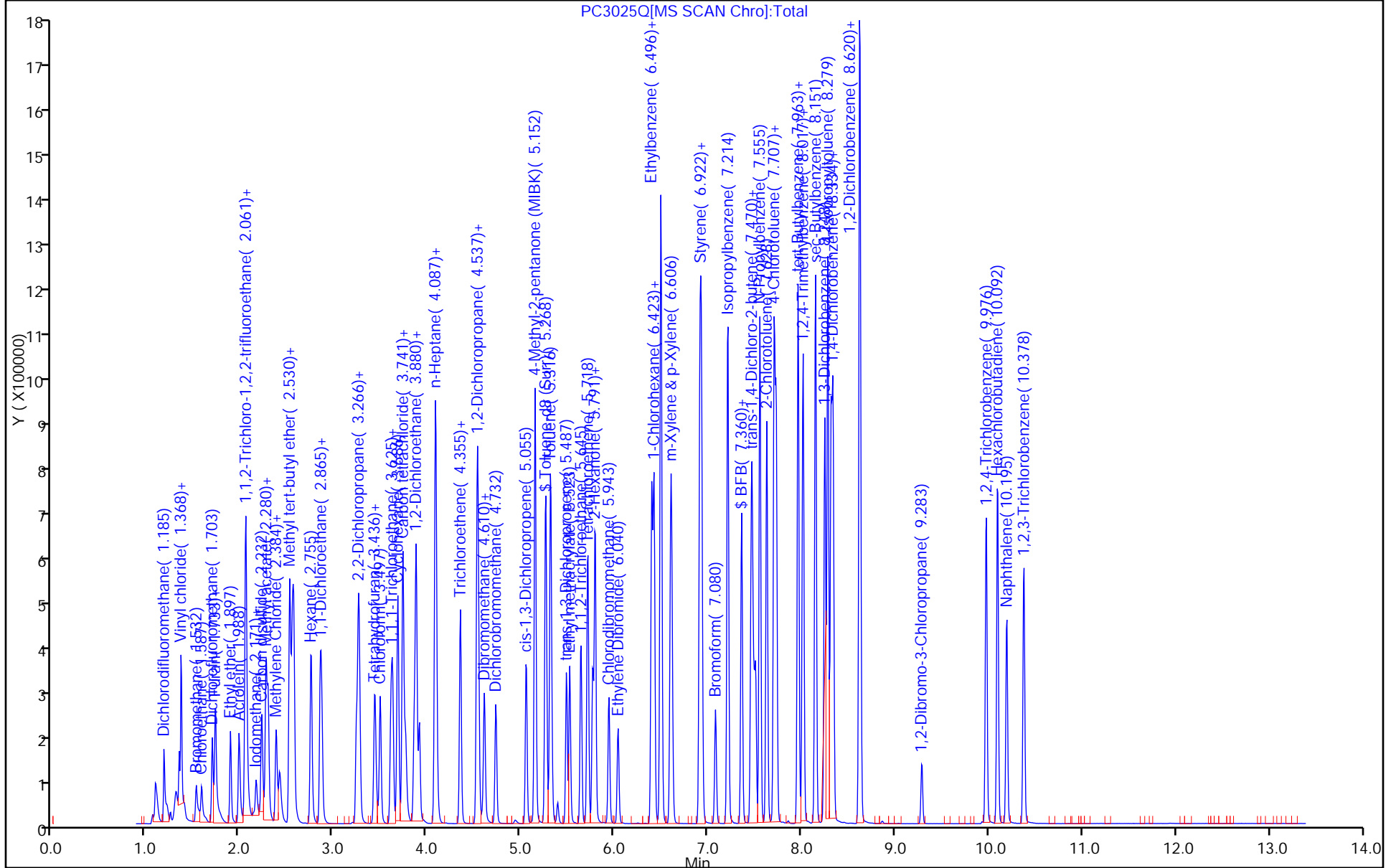
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114MSD MSD Lab Sample ID: 680-110788-2MSD
 Matrix: Water Lab File ID: PC3026Q.D
 Analysis Method: 8260B Date Collected: 03/18/2015 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/31/2015 02:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	54.0		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	49.7		1.0	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	52.6		1.0	0.36
79-00-5	1,1,2-Trichloroethane	49.6		1.0	0.33
75-34-3	1,1-Dichloroethane	50.3		1.0	0.38
75-35-4	1,1-Dichloroethene	51.1		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	48.0		5.0	2.5
96-12-8	1,2-Dibromo-3-Chloropropane	51.2		5.0	1.1
106-93-4	1,2-Dibromoethane	49.5		1.0	0.44
95-50-1	1,2-Dichlorobenzene	49.9		1.0	0.37
107-06-2	1,2-Dichloroethane	50.1		1.0	0.50
78-87-5	1,2-Dichloropropane	50.2		1.0	0.67
541-73-1	1,3-Dichlorobenzene	49.9		1.0	0.43
106-46-7	1,4-Dichlorobenzene	48.7		1.0	0.46
78-93-3	2-Butanone	243		10	3.4
591-78-6	2-Hexanone	245		10	2.0
108-10-1	4-Methyl-2-pentanone	248		10	2.1
67-64-1	Acetone	239		10	7.0
71-43-2	Benzene	50.5		1.0	0.43
75-27-4	Bromodichloromethane	52.5		1.0	0.44
75-25-2	Bromoform	53.4		1.0	0.43
74-83-9	Bromomethane	55.7		5.0	2.5
75-15-0	Carbon disulfide	51.2		2.0	1.0
56-23-5	Carbon tetrachloride	54.6		1.0	0.33
108-90-7	Chlorobenzene	50.1		1.0	0.26
75-00-3	Chloroethane	53.8		5.0	2.5
67-66-3	Chloroform	51.1		1.0	0.50
74-87-3	Chloromethane	51.0		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	48.6		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	50.6		1.0	0.40
110-82-7	Cyclohexane	51.8		1.0	0.39
124-48-1	Dibromochloromethane	51.9		1.0	0.32
75-71-8	Dichlorodifluoromethane	58.4		1.0	0.60
100-41-4	Ethylbenzene	51.2		1.0	0.33
98-82-8	Isopropylbenzene	51.6		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114MSD MSD Lab Sample ID: 680-110788-2MSD
 Matrix: Water Lab File ID: PC3026Q.D
 Analysis Method: 8260B Date Collected: 03/18/2015 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/31/2015 02:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 376775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	229		5.0	1.8
1634-04-4	Methyl tert-butyl ether	49.3		10	0.30
108-87-2	Methylcyclohexane	51.8		1.0	0.43
75-09-2	Methylene Chloride	50.8		5.0	2.5
100-42-5	Styrene	51.1		1.0	0.27
127-18-4	Tetrachloroethene	50.5		1.0	0.74
108-88-3	Toluene	51.2		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	50.6		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	49.4		1.0	0.42
79-01-6	Trichloroethene	49.4		1.0	0.48
75-69-4	Trichlorofluoromethane	60.0		1.0	0.42
75-01-4	Vinyl chloride	55.3		1.0	0.50
1330-20-7	Xylenes, Total	103		1.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3026Q.D
 Lims ID: 680-110788-F-2 MSD
 Client ID: 25LM20114MSD
 Sample Type: MSD
 Inject. Date: 31-Mar-2015 02:51:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 5.000 mL/100g Dil. Factor: 1.0000
 Sample Info: 680-0018314-026
 Misc. Info.: 788-2 MSD
 Operator ID: DK Instrument ID: CMSP2
 Method: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18314.b\2014_MSP2.m
 Limit Group: 8260B
 Last Update: 31-Mar-2015 09:37:18 Calib Date: 30-Mar-2015 16:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CMSP2\20150330-18304.b\PC3011Q.D
 Column 1 : Rtx-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: derricoj

Date: 31-Mar-2015 09:24:16

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.185	1.185	0.000	99	139576	50.0	58.4	
3 Chloromethane	50	1.313	1.319	-0.006	99	103038	50.0	51.0	
2 Vinyl chloride	62	1.350	1.350	0.000	98	116107	50.0	55.3	
4 Butadiene	54	1.368	1.374	-0.006	95	96515	50.0	56.5	
5 Bromomethane	94	1.532	1.532	0.000	99	66939	50.0	55.7	
6 Chloroethane	64	1.587	1.587	0.000	99	56687	50.0	53.8	
7 Dichlorofluoromethane	67	1.702	1.702	0.000	100	173007	50.0	53.9	
8 Trichlorofluoromethane	101	1.733	1.733	0.000	98	173426	50.0	60.0	
10 Ethyl ether	59	1.897	1.897	0.000	94	82734	50.0	51.3	
11 Furan	68	1.702	1.915	-0.213	16	1485		NC	
13 Acrolein	56	1.988	1.988	0.000	96	164454	1000.0	1290.7	
12 1,1,2-Trichloro-1,2,2-trif	151	2.061	2.061	0.000	95	110729	50.0	52.6	
15 1,1-Dichloroethene	96	2.061	2.061	0.000	94	99884	50.0	51.1	
16 Acetone	58	2.074	2.074	0.000	88	45706	250.0	239.0	
17 Iodomethane	142	2.171	2.171	0.000	96	136553	50.0	51.5	
18 Carbon disulfide	76	2.232	2.232	0.000	98	308778	50.0	51.2	
20 Methyl acetate	43	2.280	2.280	0.000	97	325480	250.0	228.6	
19 3-Chloro-1-propene	76	2.299	2.299	0.000	93	83918	50.0	52.5	
22 Methylene Chloride	84	2.384	2.384	0.000	83	110924	50.0	50.8	
23 2-Methyl-2-propanol	59	2.426	2.426	0.000	99	99775	500.0	468.6	
26 Acrylonitrile	53	2.530	2.530	0.000	94	383729	500.0	476.0	
24 Methyl tert-butyl ether	73	2.560	2.560	0.000	96	306921	50.0	49.3	
25 trans-1,2-Dichloroethene	96	2.572	2.572	0.000	90	107547	50.0	50.6	
27 Hexane	57	2.761	2.761	0.000	90	154071	50.0	48.3	
30 Vinyl acetate	43	2.858	2.858	0.000	99	350889	100.0	94.9	
29 1,1-Dichloroethane	63	2.871	2.871	0.000	99	168078	50.0	50.3	
28 Isopropyl ether	45	2.858	2.877	-0.019	30	2656		0.3977	
36 2-Butanone (MEK)	72	3.242	3.242	0.000	94	70650	250.0	243.0	
35 cis-1,2-Dichloroethene	61	3.266	3.266	0.000	98	145042	50.0	48.6	
34 2,2-Dichloropropane	77	3.272	3.272	0.000	94	129475	50.0	48.1	
38 Chlorobromomethane	130	3.436	3.436	0.000	76	84708	50.0	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tetrahydrofuran	42	3.442	3.442	0.000	88	54923	100.0	95.4	
41 Chloroform	83	3.497	3.497	0.000	99	175284	50.0	51.1	
\$ 44 Dibromofluoromethane (Surr	113	3.613	3.613	0.000	96	104101	50.0	49.4	
43 1,1,1-Trichloroethane	97	3.631	3.631	0.000	97	160984	50.0	54.0	
42 Cyclohexane	84	3.686	3.686	0.000	86	178682	50.0	51.8	
47 1,1-Dichloropropene	75	3.740	3.734	0.006	98	136163	50.0	51.1	
45 Carbon tetrachloride	117	3.740	3.740	0.000	97	137621	50.0	54.6	
50 Isobutyl alcohol	43	3.771	3.771	0.000	98	98431	1250.0	1149.2	
\$ 52 1,2-Dichloroethane-d4 (Sur	65	3.862	3.862	0.000	95	110339	50.0	47.8	
51 Benzene	78	3.880	3.880	0.000	95	440477	50.0	50.5	
53 1,2-Dichloroethane	62	3.917	3.917	0.000	98	133557	50.0	50.1	
48 Isooctane	57	3.959	3.960	-0.001	71	4623		0.5699	
54 n-Heptane	43	4.081	4.081	0.000	88	151010	50.0	45.1	
* 55 Fluorobenzene	96	4.093	4.093	0.000	0	437019	50.0	50.0	
58 Trichloroethene	132	4.355	4.355	0.000	93	137687	50.0	49.4	
59 Methylcyclohexane	83	4.531	4.531	0.000	93	236342	50.0	51.8	
60 1,2-Dichloropropane	63	4.544	4.544	0.000	92	102136	50.0	50.2	
62 1,4-Dioxane	88	4.598	4.604	-0.006	87	31364	1000.0	944.9	
63 Dibromomethane	93	4.610	4.610	0.000	88	69347	50.0	49.1	
64 Dichlorobromomethane	83	4.732	4.732	0.000	98	143243	50.0	52.5	
67 cis-1,3-Dichloropropene	75	5.061	5.055	0.006	89	172820	50.0	50.6	
68 4-Methyl-2-pentanone (MIBK	43	5.152	5.152	0.000	92	470833	250.0	247.5	
\$ 69 Toluene-d8 (Surr)	98	5.267	5.261	0.006	99	472955	50.0	50.2	
70 Toluene	92	5.316	5.316	0.000	93	320100	50.0	51.2	
71 trans-1,3-Dichloropropene	75	5.486	5.486	0.000	94	151748	50.0	49.4	
72 Ethyl methacrylate	69	5.523	5.523	0.000	85	153724	50.0	50.2	
73 1,1,2-Trichloroethane	83	5.645	5.645	0.000	95	91115	50.0	49.6	
74 Tetrachloroethene	164	5.718	5.718	0.000	94	141087	50.0	50.5	
76 1,3-Dichloropropane	76	5.766	5.766	0.000	91	179139	50.0	48.7	
77 2-Hexanone	43	5.797	5.791	0.006	91	330078	250.0	244.7	
78 Chlorodibromomethane	129	5.943	5.943	0.000	98	133170	50.0	51.9	
79 Ethylene Dibromide	107	6.040	6.040	0.000	98	126968	50.0	49.5	
* 81 Chlorobenzene-d5	82	6.399	6.399	0.000	82	189830	50.0	50.0	
80 1-Chlorohexane	55	6.399	6.399	0.000	28	3563		1.59	
82 Chlorobenzene	112	6.423	6.423	0.000	98	384138	50.0	50.1	
84 1,1,1,2-Tetrachloroethane	131	6.490	6.490	0.000	94	128550	50.0	52.8	
83 Ethylbenzene	91	6.496	6.496	0.000	97	617984	50.0	51.2	
85 m-Xylene & p-Xylene	91	6.606	6.606	0.000	90	496053	50.0	50.9	
87 o-Xylene	91	6.916	6.916	0.000	95	510221	50.0	51.9	
88 Styrene	104	6.928	6.928	0.000	97	434500	50.0	51.1	
89 Bromoform	173	7.080	7.080	0.000	99	111821	50.0	53.4	
90 Isopropylbenzene	105	7.214	7.214	0.000	94	687239	50.0	51.6	
\$ 92 4-Bromofluorobenzene (Surr	95	7.360	7.360	0.000	85	184970	50.0	48.0	
94 1,1,2,2-Tetrachloroethane	83	7.458	7.458	0.000	97	146394	50.0	49.7	
93 Bromobenzene	156	7.470	7.476	-0.006	87	199537	50.0	50.0	
97 trans-1,4-Dichloro-2-buten	53	7.494	7.488	0.006	74	34983	50.0	50.0	
96 1,2,3-Trichloropropane	75	7.506	7.506	0.000	97	181598	50.0	48.6	
95 N-Propylbenzene	91	7.555	7.555	0.000	100	754964	50.0	50.3	
98 2-Chlorotoluene	91	7.628	7.628	0.000	96	443330	50.0	50.0	
99 1,3,5-Trimethylbenzene	105	7.707	7.707	0.000	93	560970	50.0	50.7	
100 4-Chlorotoluene	91	7.731	7.731	0.000	95	501585	50.0	49.3	
103 tert-Butylbenzene	119	7.962	7.962	0.000	96	539520	50.0	51.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Pentachloroethane	167	7.987	7.987	0.000	71	1157		0.6165	7
102 Alpha Methyl Styrene	118	8.066	8.005	0.061	75	886		NC	
105 1,2,4-Trimethylbenzene	105	8.017	8.017	0.000	96	552860	50.0	50.2	
106 sec-Butylbenzene	105	8.151	8.151	0.000	99	771171	50.0	50.8	
109 1,3-Dichlorobenzene	146	8.248	8.248	0.000	99	373864	50.0	49.9	
107 4-Isopropyltoluene	119	8.279	8.279	0.000	98	667178	50.0	50.7	
* 110 1,4-Dichlorobenzene-d4	152	8.315	8.315	0.000	95	235839	50.0	50.0	
112 1,4-Dichlorobenzene	146	8.340	8.340	0.000	97	360586	50.0	48.7	
113 n-Butylbenzene	91	8.620	8.620	0.000	98	538259	50.0	51.3	
114 1,2-Dichlorobenzene	146	8.626	8.626	0.000	100	351679	50.0	49.9	
115 1,2-Dibromo-3-Chloropropan	157	9.289	9.289	0.000	88	42022	50.0	51.2	
117 1,2,4-Trichlorobenzene	180	9.976	9.976	0.000	93	232441	50.0	48.0	
118 Hexachlorobutadiene	225	10.092	10.098	-0.006	98	155256	50.0	50.1	
119 Naphthalene	128	10.195	10.195	0.000	99	369324	50.0	52.0	
120 1,2,3-Trichlorobenzene	180	10.378	10.378	0.000	95	193135	50.0	47.7	
S 122 1,2-Dichloroethene, Total	1				0		100.0	99.2	
S 123 Xylenes, Total	1				0		100.0	102.8	
S 124 1,3-Dichloropropene, Total	1				0		100.0	100.0	
\$ 127 BFB									

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

DOD ISTD_00034	Amount Added: 5.00	Units: uL
VM_Acrolein_00033	Amount Added: 5.00	Units: uL
VM_MMIX_01723	Amount Added: 5.00	Units: uL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CMSP2\20150330-18314.b\PC3026Q.D

Injection Date: 31-Mar-2015 02:51:30

Instrument ID: CMSP2

Operator ID: DK

Lims ID: 680-110788-F-2 MSD

Worklist Smp#: 26

Client ID: 25LM20114MSD

Purge Vol: 5.000 mL/100g

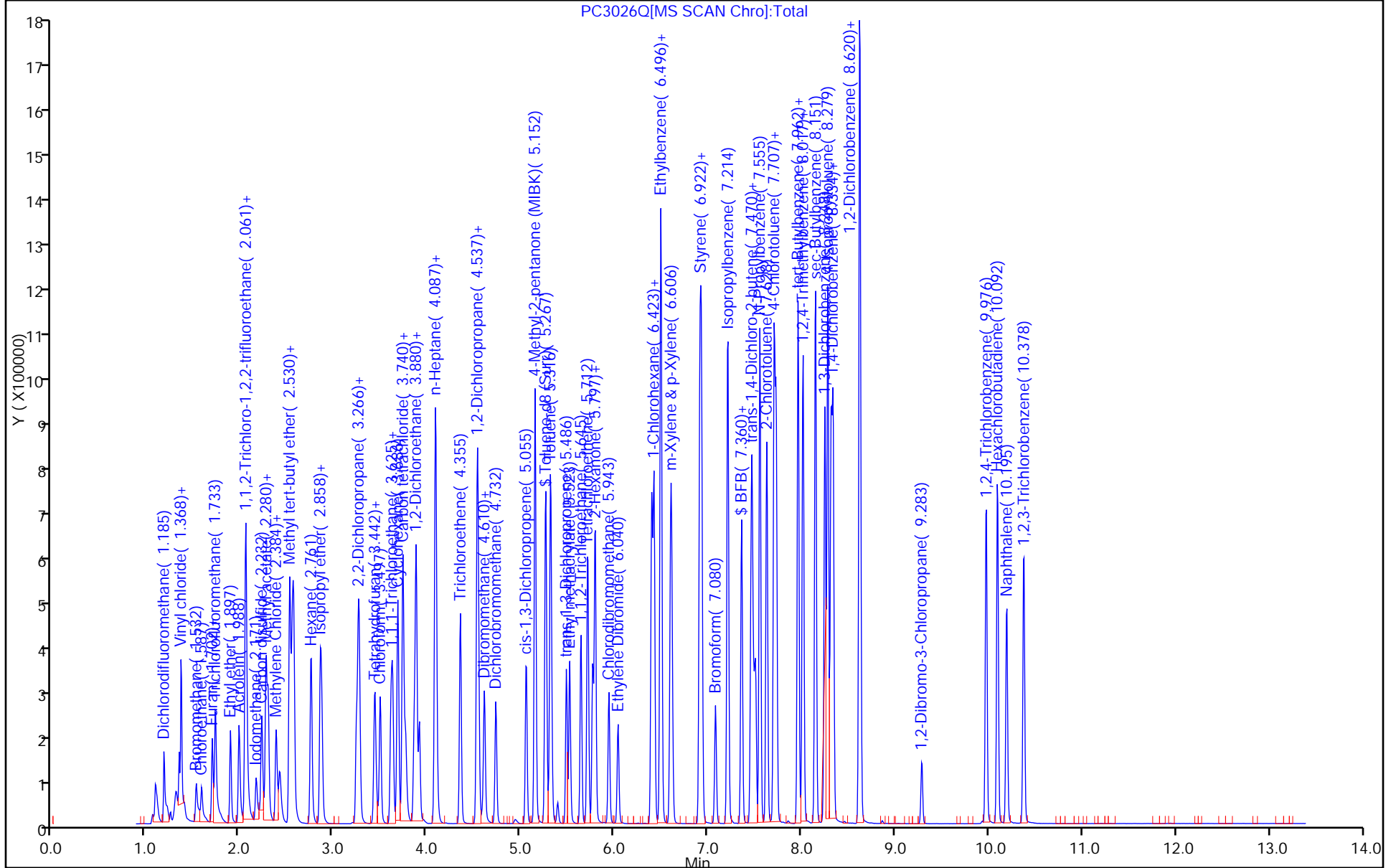
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: 2014_MSP2

Limit Group: 8260B

Column: Rtx-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CMSAC Start Date: 03/25/2015 12:23

Analysis Batch Number: 376029 End Date: 03/25/2015 23:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 680-376029/1		03/25/2015 12:23	1	ACC2501T.D	RTX-VMS 0.18 (mm)
IC 680-376029/5		03/25/2015 20:21	1	ACC2505.D	RTX-VMS 0.18 (mm)
IC 680-376029/6		03/25/2015 20:44	1	ACC2506.D	RTX-VMS 0.18 (mm)
IC 680-376029/7		03/25/2015 21:07	1	ACC2507.D	RTX-VMS 0.18 (mm)
IC 680-376029/8		03/25/2015 21:29	1	ACC2508.D	RTX-VMS 0.18 (mm)
IC 680-376029/9		03/25/2015 21:52	1	ACC2509.D	RTX-VMS 0.18 (mm)
ICIS 680-376029/10		03/25/2015 22:15	1	ACC2510.D	RTX-VMS 0.18 (mm)
IC 680-376029/11		03/25/2015 22:37	1	ACC2511.D	RTX-VMS 0.18 (mm)
IC 680-376029/12		03/25/2015 23:00	1	ACC2512.D	RTX-VMS 0.18 (mm)
ICV 680-376029/14		03/25/2015 23:45	1	ACC2514.D	RTX-VMS 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CMSAC Start Date: 03/30/2015 11:10

Analysis Batch Number: 376701 End Date: 03/31/2015 00:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 680-376701/1		03/30/2015 11:10	1	ACC3001T.D	RTX-VMS 0.18 (mm)
CCV 680-376701/2		03/30/2015 11:38	1		RTX-VMS 0.18 (mm)
CCVIS 680-376701/3		03/30/2015 12:01	1	ACC3003.D	RTX-VMS 0.18 (mm)
LCS 680-376701/4		03/30/2015 12:23	1	ACC3004.D	RTX-VMS 0.18 (mm)
LCSD 680-376701/5		03/30/2015 12:46	1	ACC3005.D	RTX-VMS 0.18 (mm)
MB 680-376701/9		03/30/2015 15:04	1	ACC3009.D	RTX-VMS 0.18 (mm)
680-110788-5	25LM00027	03/30/2015 17:16	1	ACC3010.D	RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 17:38	1		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 18:01	1		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 18:24	1		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 18:46	1		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 19:09	1		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 19:32	1		RTX-VMS 0.18 (mm)
680-110788-1	25LM20113	03/30/2015 19:54	1	ACC3017.D	RTX-VMS 0.18 (mm)
680-110788-2	25LM20114	03/30/2015 20:17	1	ACC3018.D	RTX-VMS 0.18 (mm)
680-110788-3	25LM20115	03/30/2015 20:40	1	ACC3019.D	RTX-VMS 0.18 (mm)
680-110788-4	25LM00112	03/30/2015 21:02	1	ACC3020.D	RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 21:25	200		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 21:47	5		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 22:10	50		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 22:33	5		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 22:55	10		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 23:18	1		RTX-VMS 0.18 (mm)
ZZZZZ		03/30/2015 23:40	1		RTX-VMS 0.18 (mm)
ZZZZZ		03/31/2015 00:03	20		RTX-VMS 0.18 (mm)
ZZZZZ		03/31/2015 00:26	1		RTX-VMS 0.18 (mm)
ZZZZZ		03/31/2015 00:48	1		RTX-VMS 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CMSP2 Start Date: 03/30/2015 11:57

Analysis Batch Number: 376722 End Date: 03/30/2015 17:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 680-376722/1		03/30/2015 11:57	1	PC3002T.D	Rtx-624 0.18 (mm)
IC 680-376722/4		03/30/2015 13:41	1	PC3004Q.D	Rtx-624 0.18 (mm)
IC 680-376722/5		03/30/2015 14:03	1	PC3005Q.D	Rtx-624 0.18 (mm)
IC 680-376722/6		03/30/2015 14:24	1	PC3006Q.D	Rtx-624 0.18 (mm)
IC 680-376722/7		03/30/2015 14:46	1	PC3007Q.D	Rtx-624 0.18 (mm)
IC 680-376722/8		03/30/2015 15:07	1	PC3008Q.D	Rtx-624 0.18 (mm)
ICIS 680-376722/9		03/30/2015 15:29	1	PC3009Q.D	Rtx-624 0.18 (mm)
IC 680-376722/10		03/30/2015 15:50	1	PC3010Q.D	Rtx-624 0.18 (mm)
IC 680-376722/11		03/30/2015 16:12	1	PC3011Q.D	Rtx-624 0.18 (mm)
ICV 680-376722/13		03/30/2015 17:23	1	PC3013Q.D	Rtx-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CMSP2 Start Date: 03/30/2015 17:49

Analysis Batch Number: 376775 End Date: 03/31/2015 02:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 680-376775/1		03/30/2015 17:49	1	PC3001T.D	Rtx-624 0.18 (mm)
CCVIS 680-376775/2		03/30/2015 18:16	1	PC3002Q.D	Rtx-624 0.18 (mm)
LCS 680-376775/3		03/30/2015 18:37	1	PC3003Q.D	Rtx-624 0.18 (mm)
LCSD 680-376775/4		03/30/2015 18:59	1	PC3004Q.D	Rtx-624 0.18 (mm)
MB 680-376775/7		03/30/2015 20:03	1	PC3007Q.D	Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 20:25	1		Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 20:46	1		Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 21:08	1		Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 21:29	1		Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 21:50	1		Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 22:12	500		Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 22:33	1		Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 22:55	1		Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 23:16	1		Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 23:38	1		Rtx-624 0.18 (mm)
ZZZZZ		03/30/2015 23:59	1		Rtx-624 0.18 (mm)
ZZZZZ		03/31/2015 00:21	1		Rtx-624 0.18 (mm)
ZZZZZ		03/31/2015 00:42	5		Rtx-624 0.18 (mm)
ZZZZZ		03/31/2015 01:04	5		Rtx-624 0.18 (mm)
ZZZZZ		03/31/2015 01:25	200		Rtx-624 0.18 (mm)
ZZZZZ		03/31/2015 01:47	10		Rtx-624 0.18 (mm)
ZZZZZ		03/31/2015 02:08	50		Rtx-624 0.18 (mm)
680-110788-2MS	25LM20114MS MS	03/31/2015 02:30	1	PC3025Q.D	Rtx-624 0.18 (mm)
680-110788-2MSD	25LM20114MSD MSD	03/31/2015 02:51	1	PC3026Q.D	Rtx-624 0.18 (mm)

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UC2410.d

Lab ID: LCS 680-375719/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	288	315	109	75-125	
Ethene	269	300	111	75-125	
Methane	154	174	113	75-125	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UC2411.d

Lab ID: LCSD 680-375719/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethane	288	332	115	5	30	75-125	
Ethene	269	313	116	4	30	75-125	
Methane	154	181	118	4	30	75-125	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UC2423.d
 Lab ID: 680-110788-2 MS Client ID: 25LM20114MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethane	288	ND	220	76	75-125	
Ethene	269	ND	208	77	75-125	
Methane	154	1.7	152	97	75-125	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UC2424.d

Lab ID: 680-110788-2 MSD Client ID: 25LM20114MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethane	288	224	78	2	30	75-125	
Ethene	269	214	79	3	30	75-125	
Methane	154	154	99	2	30	75-125	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: MB 680-375719/7
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) UC2412.d Lab File ID: (2) _____
 Date Analyzed: (1) 03/24/2015 12:49 Date Analyzed: (2) _____
 Instrument ID: (1) CVGU Instrument ID: (2) _____
 GC Column: (1) RESTEK RTU PL ID: 0.32 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-375719/5	03/24/2015 12:23	
	LCSD 680-375719/6	03/24/2015 12:36	
25LM20113	680-110788-1	03/24/2015 15:06	
25LM20115	680-110788-3	03/24/2015 15:19	
25LM00112	680-110788-4	03/24/2015 15:32	
25LM20114	680-110788-2	03/24/2015 15:45	
25LM20114MS MS	680-110788-2 MS	03/24/2015 15:57	
25LM20114MSD MSD	680-110788-2 MSD	03/24/2015 16:10	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20113 Lab Sample ID: 680-110788-1
 Matrix: Water Lab File ID: UC2419.d
 Analysis Method: RSK-175 Date Collected: 03/18/2015 11:00
 Sample wt/vol: 17(mL) Date Analyzed: 03/24/2015 15:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375719 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		1.1	0.55
74-85-1	Ethene	ND		1.0	0.50
74-82-8	Methane	4.2		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\UC2419.d
 Lims ID: 680-110788-G-1 Lab Sample ID: 680-110788-1
 Client ID: 25LM20113
 Sample Type: Client
 Inject. Date: 24-Mar-2015 15:06:35 ALS Bottle#: 19 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-014
 Operator ID: Instrument ID: CVGU

Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 15:15:38 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK030

First Level Reviewer: mcnamaraa Date: 24-Mar-2015 15:15:38

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

3 Methane
 1 1.648 1.649 -0.001 211291 4.24

TestAmerica Savannah

Data File: \\ChromNAIlg1\Savannah\ChromData\CVGU\20150323-18079.b\UC2419.d

Injection Date: 24-Mar-2015 15:06:35

Instrument ID: CVGU

Operator ID:

Lims ID: 680-110788-G-1

Lab Sample ID: 680-110788-1

Worklist Smp#: 14

Client ID: 25LM20113

Purge Vol: 5.000 mL

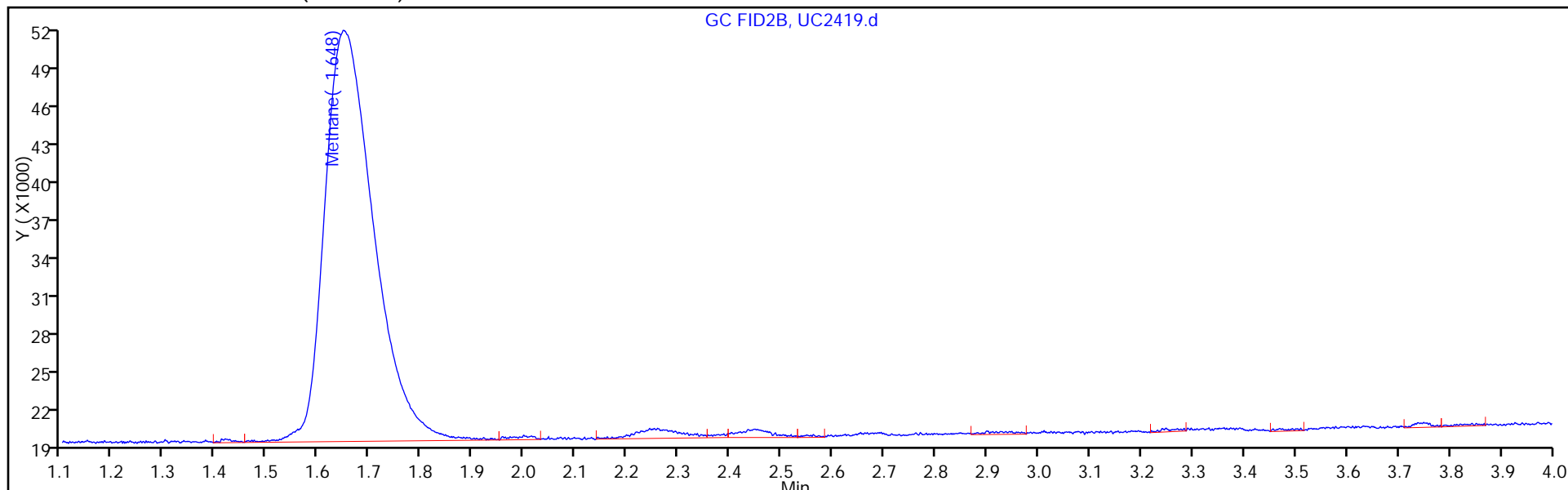
Dil. Factor: 1.0000

ALS Bottle#: 19

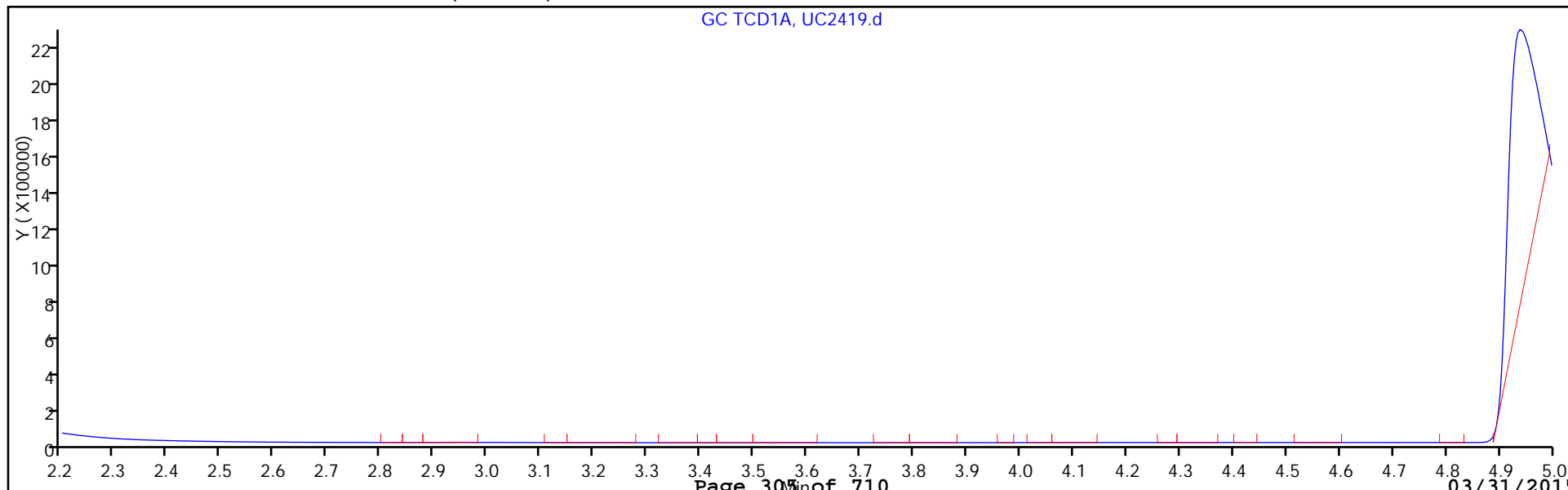
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114 Lab Sample ID: 680-110788-2
 Matrix: Water Lab File ID: UC2422.d
 Analysis Method: RSK-175 Date Collected: 03/18/2015 12:15
 Sample wt/vol: 17(mL) Date Analyzed: 03/24/2015 15:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375719 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		1.1	0.55
74-85-1	Ethene	ND		1.0	0.50
74-82-8	Methane	1.7		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\UC2422.d
 Lims ID: 680-110788-G-2 Lab Sample ID: 680-110788-2
 Client ID: 25LM20114
 Sample Type: Client
 Inject. Date: 24-Mar-2015 15:45:09 ALS Bottle#: 22 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-017
 Operator ID: Instrument ID: CVGU
 Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 15:59:08 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK030

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

3 Methane
 1 1.647 1.649 -0.002 85763 1.72

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CVGU\20150323-18079.b\UC2422.d

Injection Date: 24-Mar-2015 15:45:09

Instrument ID: CVGU

Operator ID:

Lims ID: 680-110788-G-2

Lab Sample ID: 680-110788-2

Worklist Smp#: 17

Client ID: 25LM20114

Purge Vol: 5.000 mL

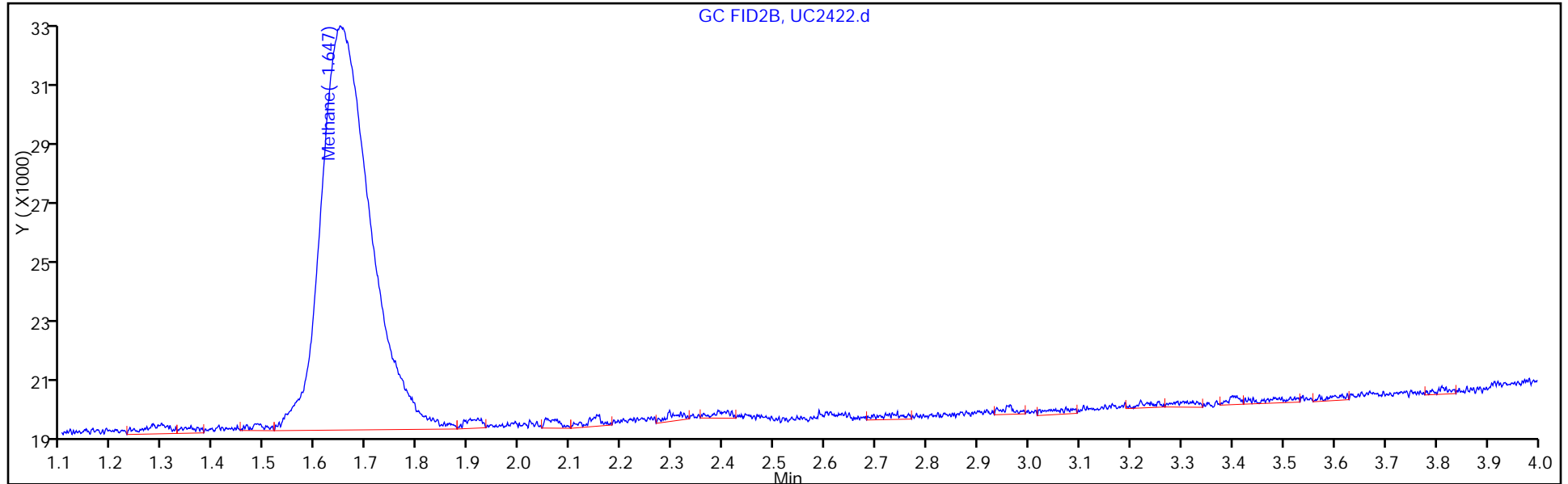
Dil. Factor: 1.0000

ALS Bottle#: 22

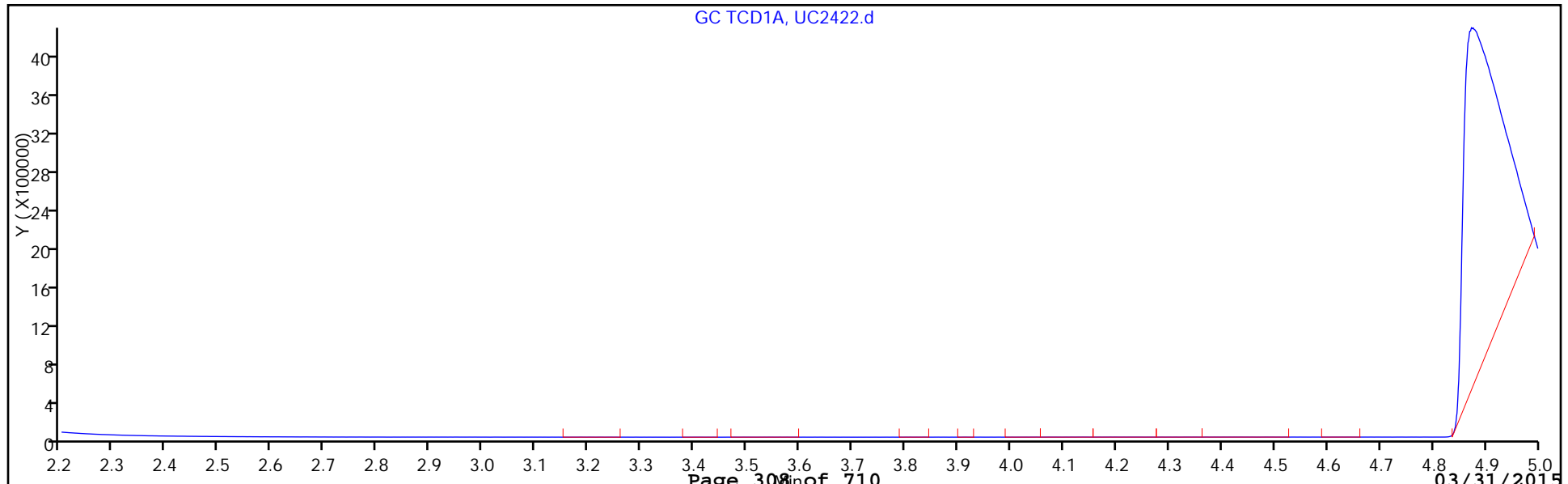
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20115 Lab Sample ID: 680-110788-3
 Matrix: Water Lab File ID: UC2420.d
 Analysis Method: RSK-175 Date Collected: 03/18/2015 12:15
 Sample wt/vol: 17(mL) Date Analyzed: 03/24/2015 15:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375719 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		1.1	0.55
74-85-1	Ethene	ND		1.0	0.50
74-82-8	Methane	2.0		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\UC2420.d
 Lims ID: 680-110788-G-3 Lab Sample ID: 680-110788-3
 Client ID: 25LM20115
 Sample Type: Client
 Inject. Date: 24-Mar-2015 15:19:26 ALS Bottle#: 20 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-015
 Operator ID: Instrument ID: CVGU

Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 17:21:28 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK036

First Level Reviewer: mcnamaraa Date: 24-Mar-2015 17:22:53

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

3 Methane
 1 1.646 1.648 -0.002 98178 1.97

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CVGU\20150323-18079.b\UC2420.d

Injection Date: 24-Mar-2015 15:19:26

Instrument ID: CVGU

Operator ID:

Lims ID: 680-110788-G-3

Lab Sample ID: 680-110788-3

Worklist Smp#: 15

Client ID: 25LM20115

Purge Vol: 5.000 mL

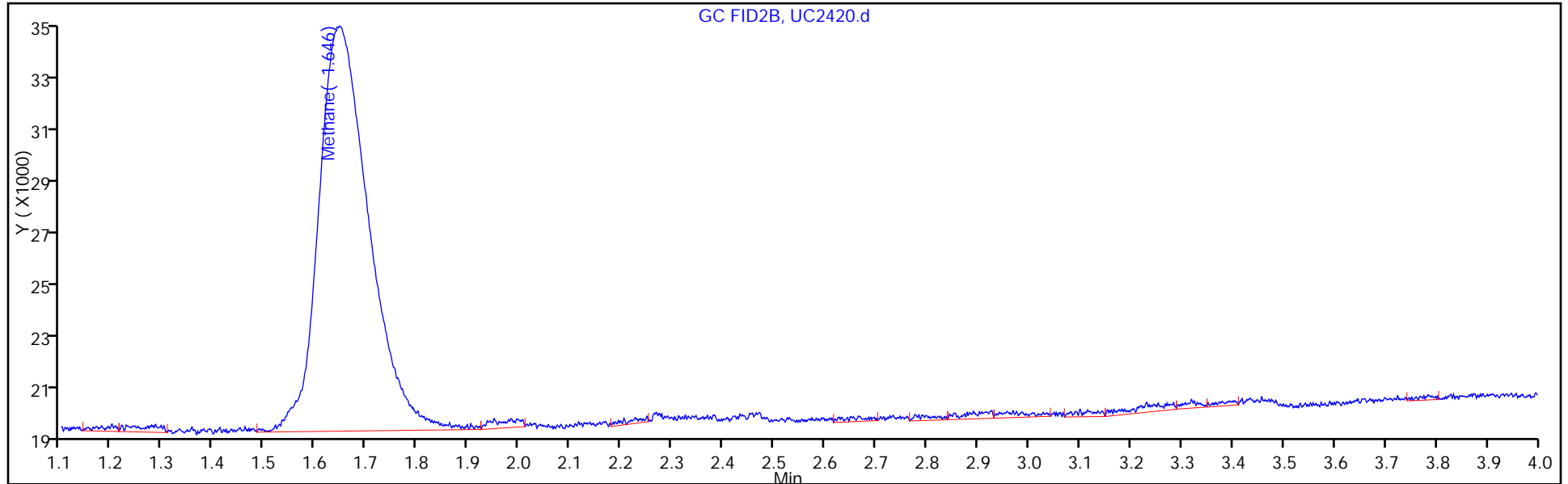
Dil. Factor: 1.0000

ALS Bottle#: 20

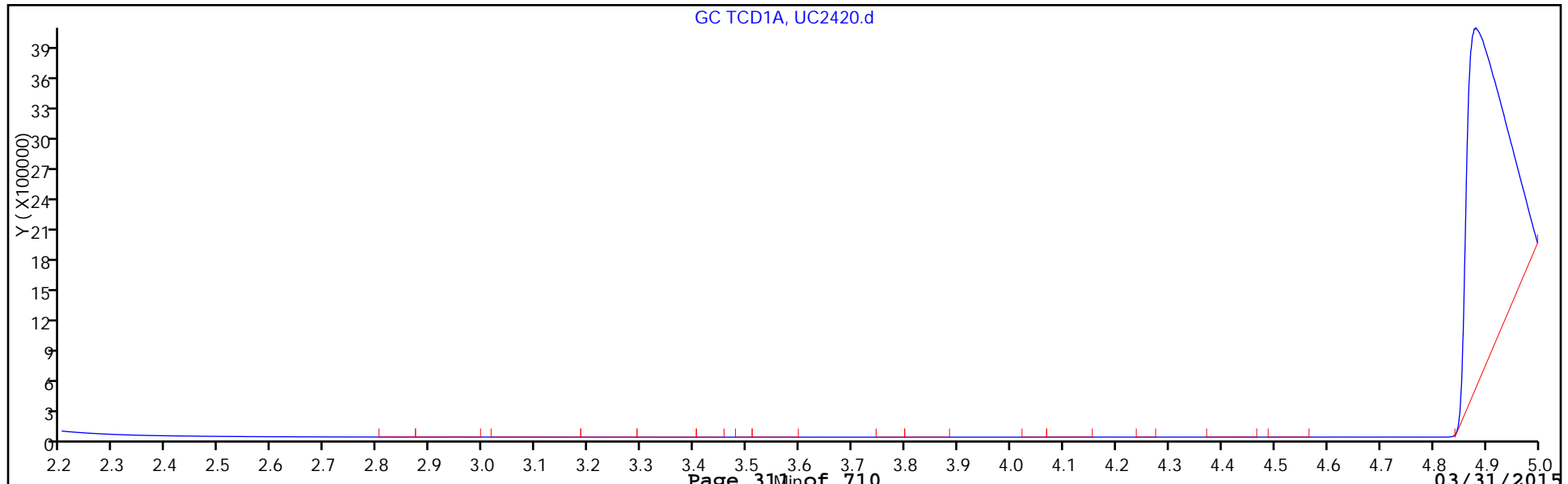
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM00112 Lab Sample ID: 680-110788-4
 Matrix: Water Lab File ID: UC2421.d
 Analysis Method: RSK-175 Date Collected: 03/18/2015 14:30
 Sample wt/vol: 17(mL) Date Analyzed: 03/24/2015 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375719 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		1.1	0.55
74-85-1	Ethene	ND		1.0	0.50
74-82-8	Methane	0.79		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\UC2421.d
 Lims ID: 680-110788-G-4 Lab Sample ID: 680-110788-4
 Client ID: 25LM00112
 Sample Type: Client
 Inject. Date: 24-Mar-2015 15:32:18 ALS Bottle#: 21 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-016
 Operator ID: Instrument ID: CVGU

Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 15:52:01 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK030

First Level Reviewer: mcnamaraa Date: 24-Mar-2015 15:52:21

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

3 Methane
 1 1.646 1.649 -0.003 39238 0.7876

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CVGU\20150323-18079.b\UC2421.d

Injection Date: 24-Mar-2015 15:32:18

Instrument ID: CVGU

Operator ID:

Lims ID: 680-110788-G-4

Lab Sample ID: 680-110788-4

Worklist Smp#: 16

Client ID: 25LM00112

Purge Vol: 5.000 mL

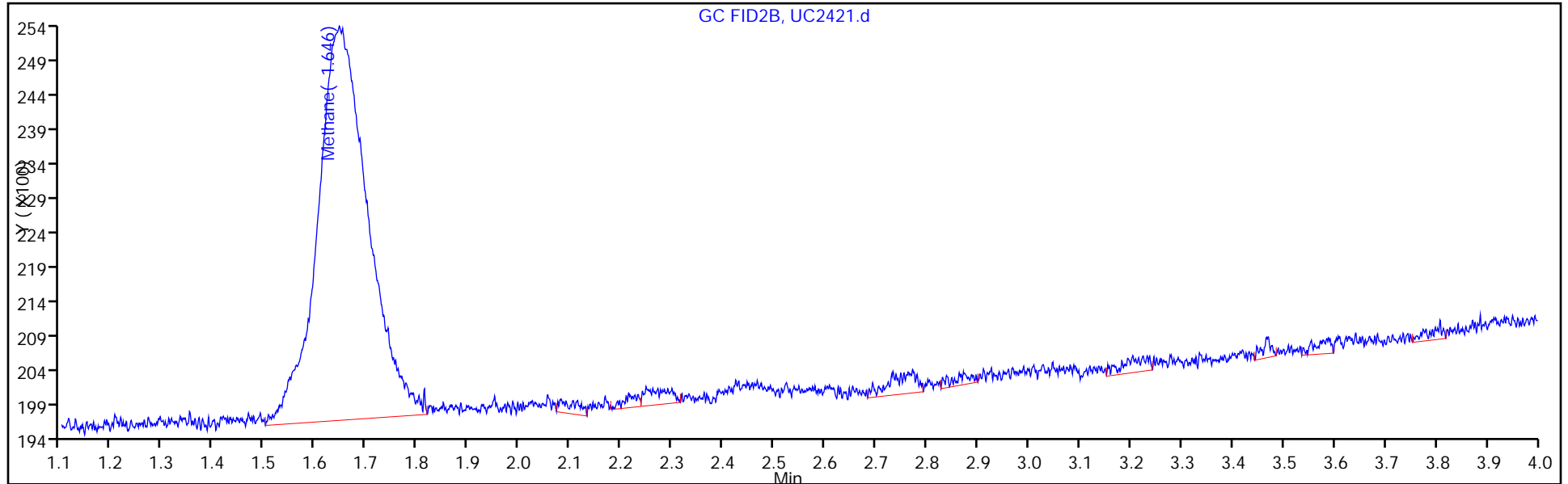
Dil. Factor: 1.0000

ALS Bottle#: 21

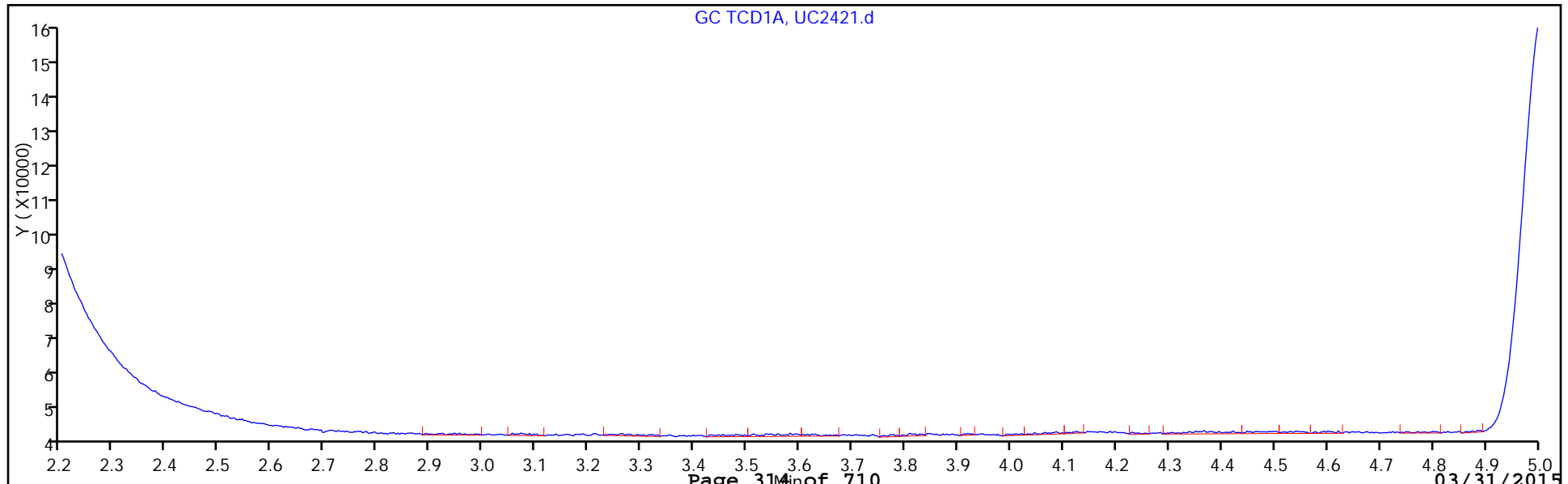
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 374176

SDG No.: _____

Instrument ID: CVGU GC Column: RESTEK RTU F ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 12:07 Calibration End Date: 03/11/2015 15:18 Calibration ID: 38045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-374176/11	Uc1121.d
Level 2	IC 680-374176/10	Uc1120.d
Level 3	IC 680-374176/9	Uc1119.d
Level 4	IC 680-374176/5	Uc1115.d
Level 5	IC 680-374176/12	Uc1122.d
Level 6	IC 680-374176/4	Uc1114.d
Level 7	IC 680-374176/3	Uc1113.d
Level 8	IC 680-374176/2	Uc1112.d
Level 9	IC 680-374176/1	Uc1111.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	RT WINDOW	AVG RT
Methane	1.644	1.645	1.648	1.649	1.646	1.644	1.647	1.650	1.646	1.614 - 1.680	1.647
Ethene	2.250	2.254	2.255	2.254	2.254	2.250	2.252	2.252	2.248	2.207 - 2.297	2.252
Ethane	2.430	2.427	2.426	2.429	2.427	2.424	2.424	2.424	2.419	2.376 - 2.473	2.426

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 374176

SDG No.: _____

Instrument ID: CVGU GC Column: RESTEK RTU F ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 12:07 Calibration End Date: 03/11/2015 15:18 Calibration ID: 38045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-374176/11	Uc1121.d
Level 2	IC 680-374176/10	Uc1120.d
Level 3	IC 680-374176/9	Uc1119.d
Level 4	IC 680-374176/5	Uc1115.d
Level 5	IC 680-374176/12	Uc1122.d
Level 6	IC 680-374176/4	Uc1114.d
Level 7	IC 680-374176/3	Uc1113.d
Level 8	IC 680-374176/2	Uc1112.d
Level 9	IC 680-374176/1	Uc1111.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	73535 28097 50009	57953 65984	52326 49831	98699 48858	LinF		49822.5248							0.9940		0.9900
Ethene	58624 29820 47963	47856 62216	46962 48035	93587 46773	Ave		48531.1011			19.8			25.0			
Ethane	63499 34470 51595	52203 67778	49768 53006	101340 50443	Ave		52845.0546			18.8			25.0			

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

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 374176

SDG No.: _____

Instrument ID: CVGU GC Column: RESTEK RTU F ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 12:07 Calibration End Date: 03/11/2015 15:18 Calibration ID: 38045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-374176/11	Uc1121.d
Level 2	IC 680-374176/10	Uc1120.d
Level 3	IC 680-374176/9	Uc1119.d
Level 4	IC 680-374176/5	Uc1115.d
Level 5	IC 680-374176/12	Uc1122.d
Level 6	IC 680-374176/4	Uc1114.d
Level 7	IC 680-374176/3	Uc1113.d
Level 8	IC 680-374176/2	Uc1112.d
Level 9	IC 680-374176/1	Uc1111.d

ANALYTE	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
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methane	LinF	42391	83521	150821	3795836	1080588	0.576	1.44	2.88	38.5	38.5
		5075315	7665832	15032184	19232820		76.9	154	308	385	
Ethene	Ave	59314	121048	237573	6299512	2007228	1.01	2.53	5.06	67.3	67.3
		8375737	12933174	25186721	32284906		135	269	538	673	
Ethane	Ave	68728	141254	269334	7308428	2485862	1.08	2.71	5.41	72.1	72.1
		9775967	15290555	29102650	37209015		144	288	577	721	

Curve Type Legend:

Ave = Average
LinF = Linear forced zero

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1111.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 11-Mar-2015 12:07:52 ALS Bottle#: 1 Worklist Smp#: 1
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-001
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:34:52 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.646	1.647	-0.001	19232820	384.6	386.0	
2 Ethylene							
1	2.248	2.252	-0.004	32284906	673.1	665.2	
1 Ethane							
1	2.419	2.424	-0.005	37209015	721.2	704.1	

Reagents:

RSK 23462_00031 Amount Added: 1.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1111.d

Injection Date: 11-Mar-2015 12:07:52

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 1

Client ID:

Purge Vol: 5.000 mL

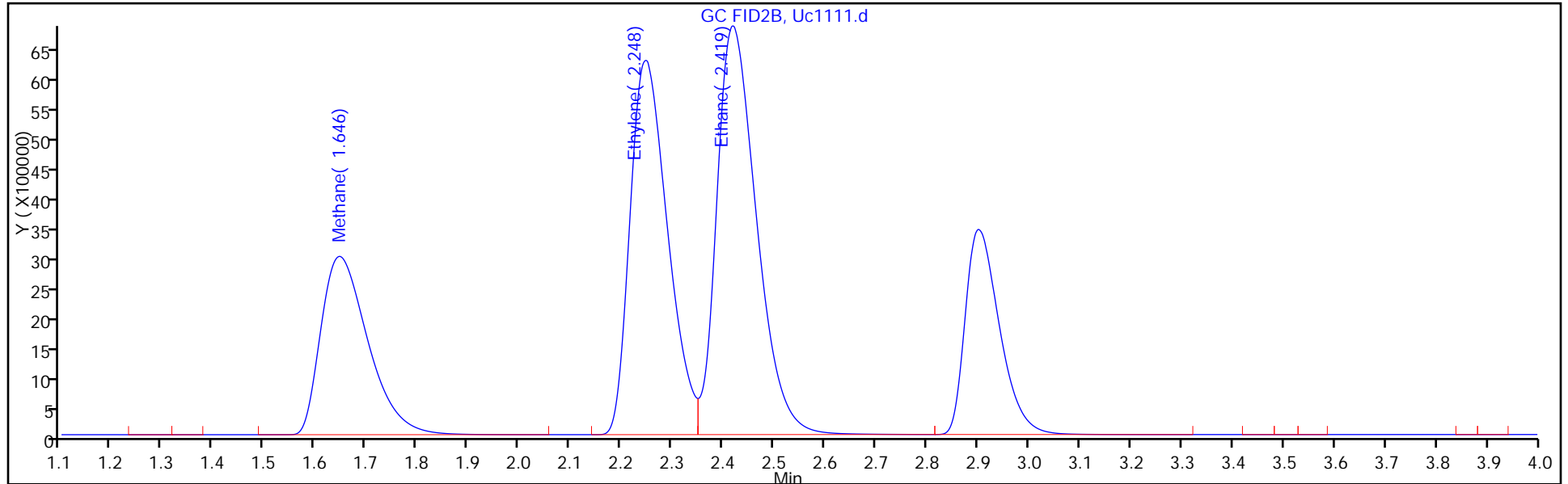
Dil. Factor: 1.0000

ALS Bottle#: 1

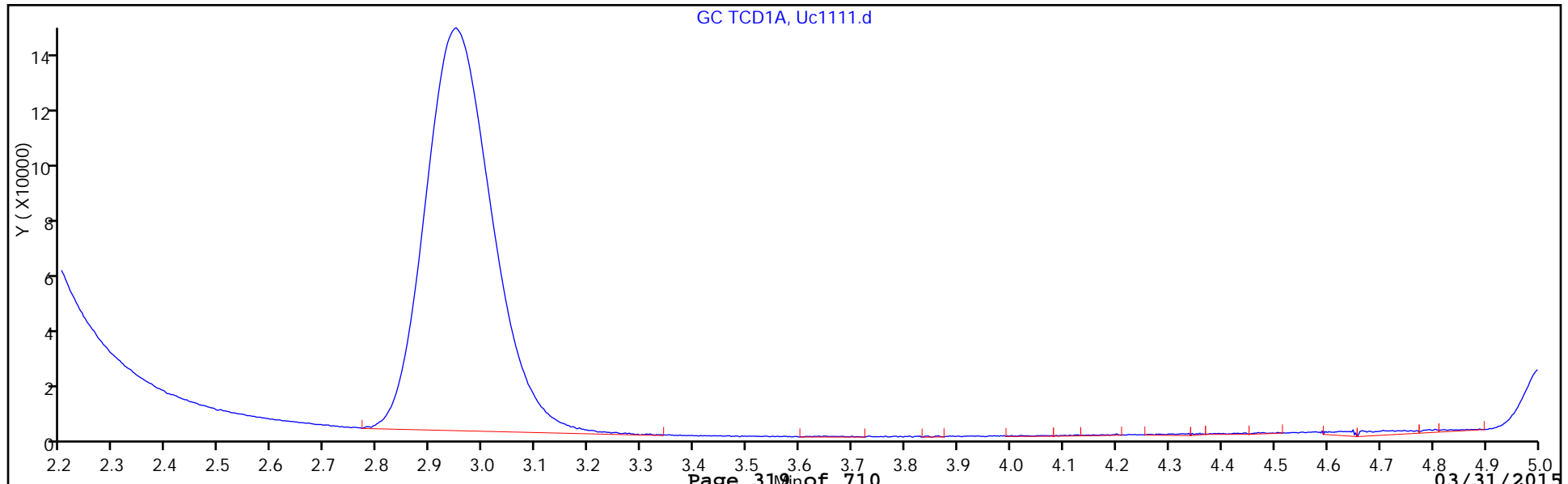
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1112.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-Mar-2015 12:20:43 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-002
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:34:53 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.650	1.647	0.003	15032184	307.7	301.7	
2 Ethylene							
1	2.252	2.252	0.000	25186721	538.5	519.0	
1 Ethane							
1	2.424	2.424	0.000	29102650	576.9	550.7	

Reagents:

RSK 23462_00031 Amount Added: 0.80 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1112.d

Injection Date: 11-Mar-2015 12:20:43

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

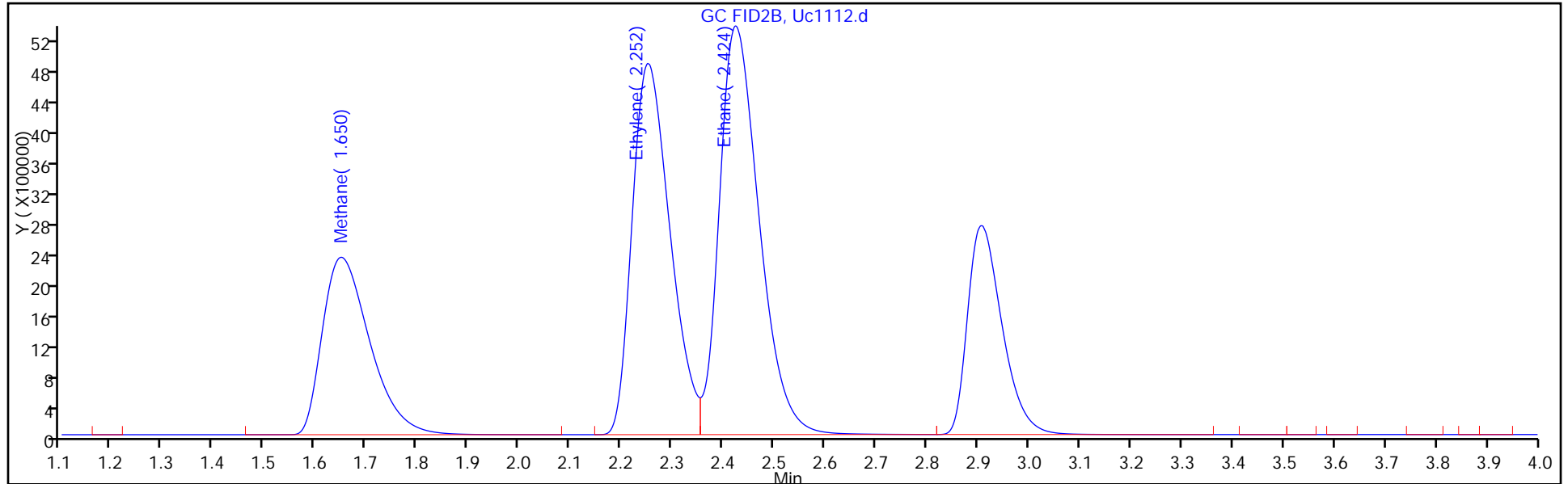
Dil. Factor: 1.0000

ALS Bottle#: 2

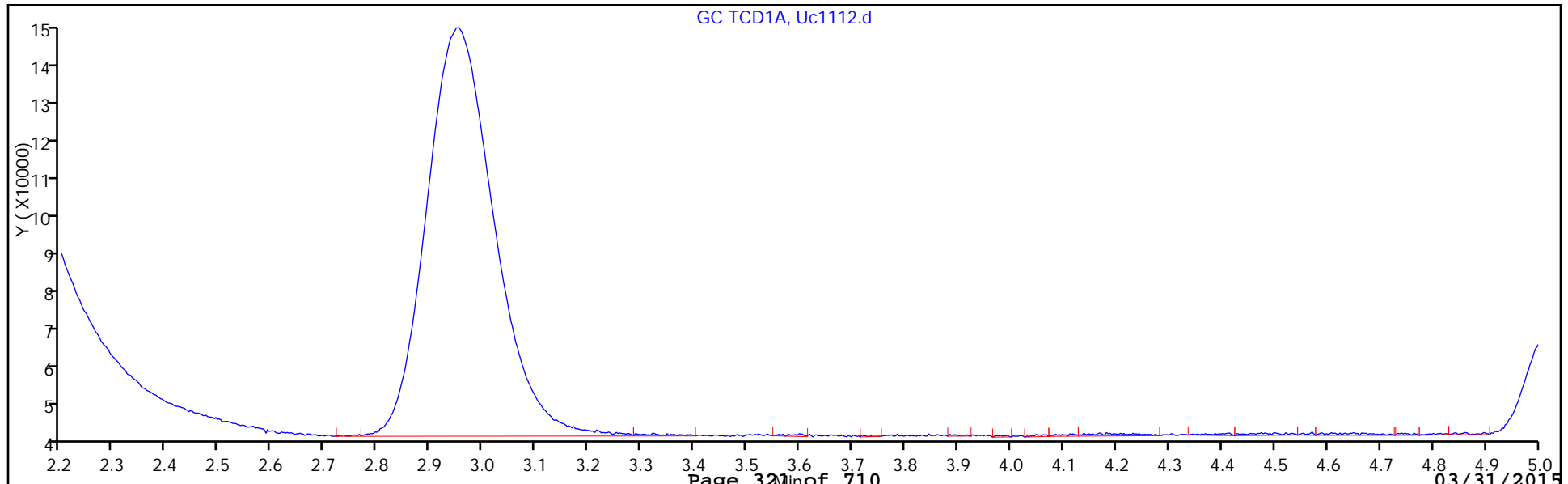
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1113.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-Mar-2015 12:33:34 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-003
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:34:53 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.647	1.647	0.000	7665832	153.8	153.9	
2 Ethylene							
1	2.252	2.252	0.000	12933174	269.2	266.5	
1 Ethane							
1	2.424	2.424	0.000	15290555	288.5	289.3	

Reagents:

RSK 23462_00031 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1113.d

Injection Date: 11-Mar-2015 12:33:34

Instrument ID: CVGU

Operator ID:

Lims ID: IC

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

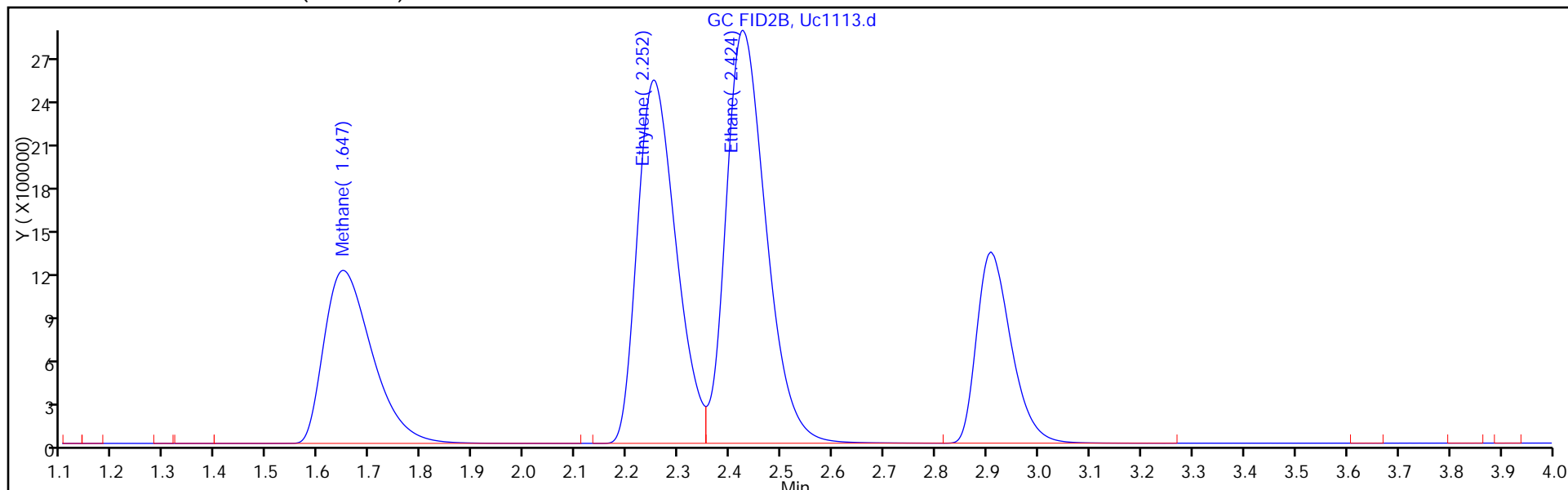
Dil. Factor: 1.0000

ALS Bottle#: 3

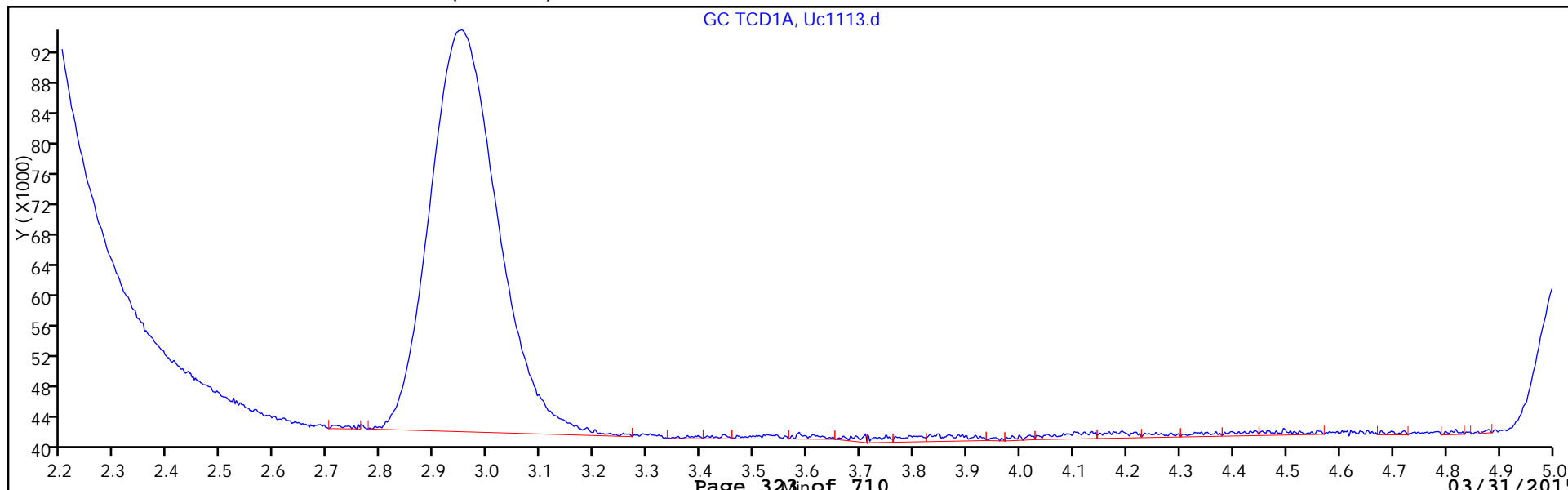
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1114.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Mar-2015 12:46:25 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-004
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:34:54 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.644	1.647	-0.003	5075315	76.9	101.9	
2 Ethylene							
1	2.250	2.252	-0.002	8375737	134.6	172.6	
1 Ethane							
1	2.424	2.424	0.000	9775967	144.2	185.0	

Reagents:

RSK 23462_00031 Amount Added: 0.20 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1114.d

Injection Date: 11-Mar-2015 12:46:25

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

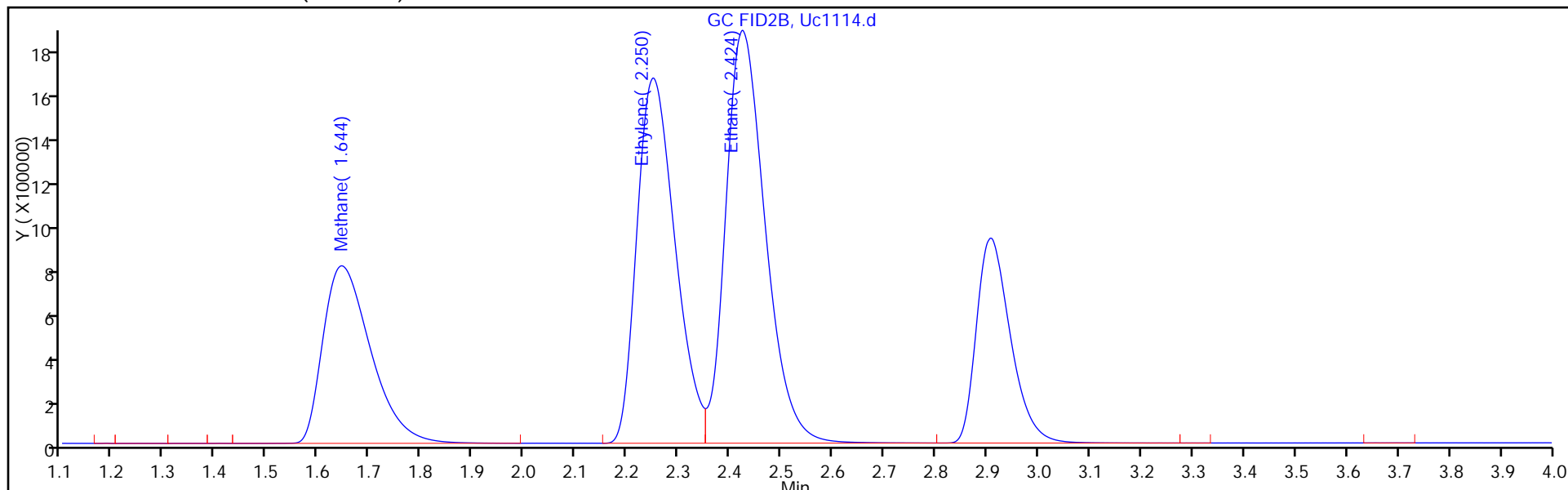
Dil. Factor: 1.0000

ALS Bottle#: 4

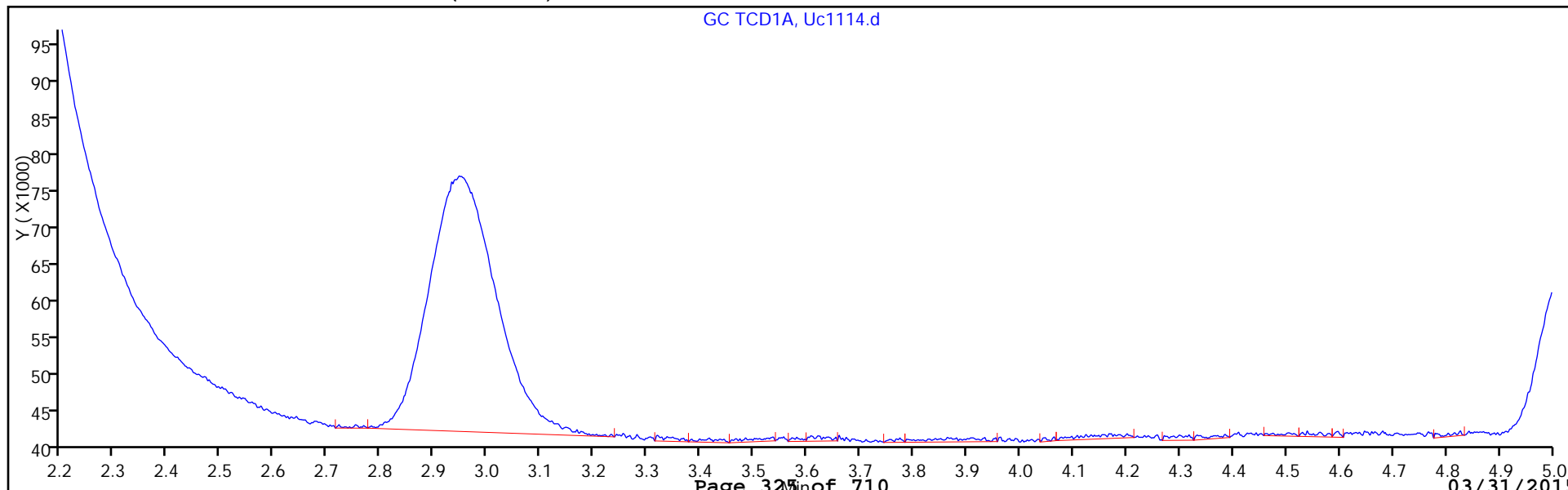
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1115.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Mar-2015 12:59:16 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-005
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:31:50 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.649	1.647	0.002	3795836	38.5	43.4	
2 Ethylene							
1	2.254	2.252	0.002	6299512	67.3	76.2	
1 Ethane							
1	2.429	2.424	0.005	7308428	72.1	80.5	

Reagents:

RSK 23462_00031 Amount Added: 0.10 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1115.d

Injection Date: 11-Mar-2015 12:59:16

Instrument ID: CVGU

Operator ID:

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

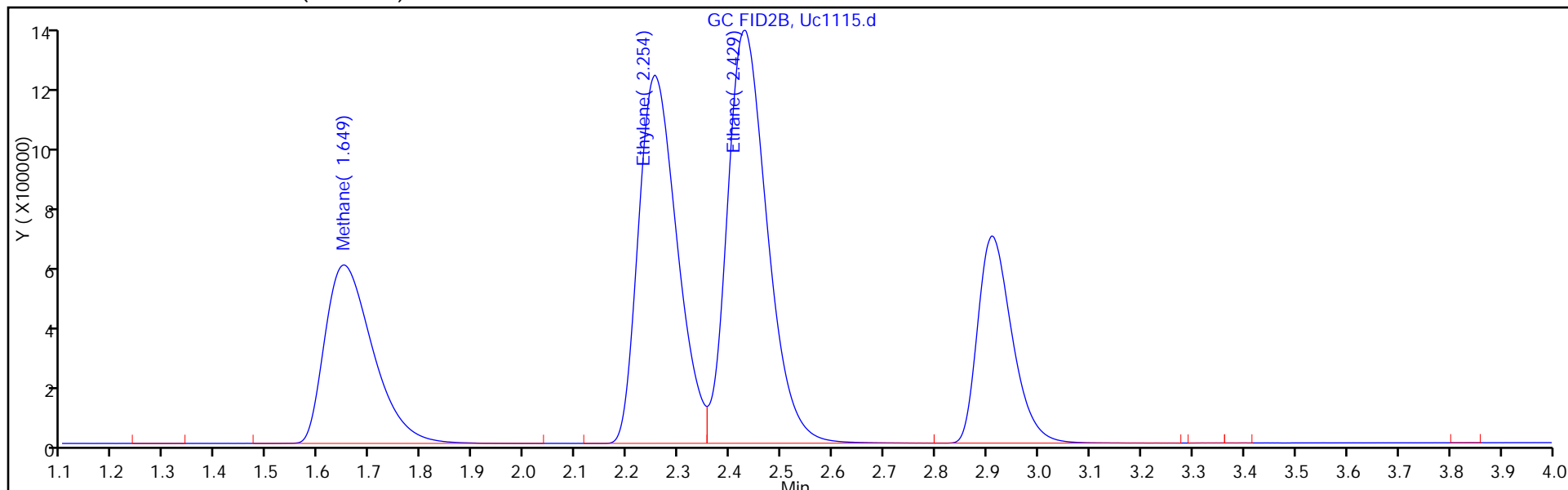
Dil. Factor: 1.0000

ALS Bottle#: 5

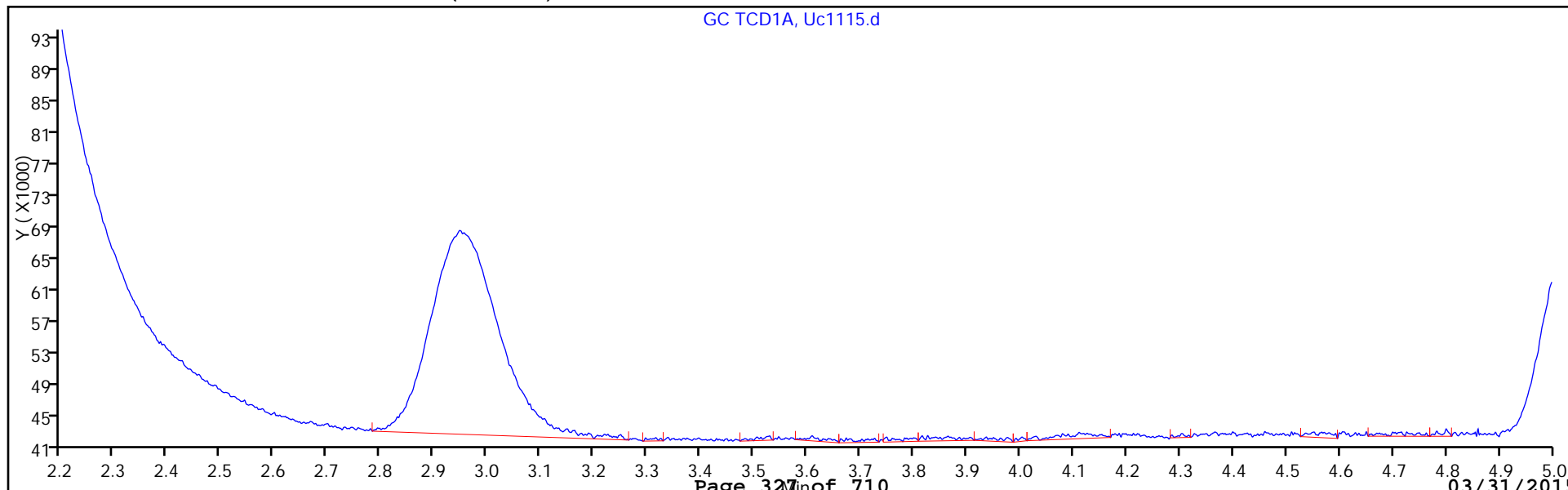
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1119.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Mar-2015 14:26:53 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-009
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:34:59 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.648	1.647	0.001	150821	2.88	3.03	
2 Ethylene							
1	2.255	2.252	0.003	237573	5.06	4.90	
1 Ethane							
1	2.426	2.424	0.002	269334	5.41	5.10	

Reagents:

RSK 23470_00008 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1119.d

Injection Date: 11-Mar-2015 14:26:53

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

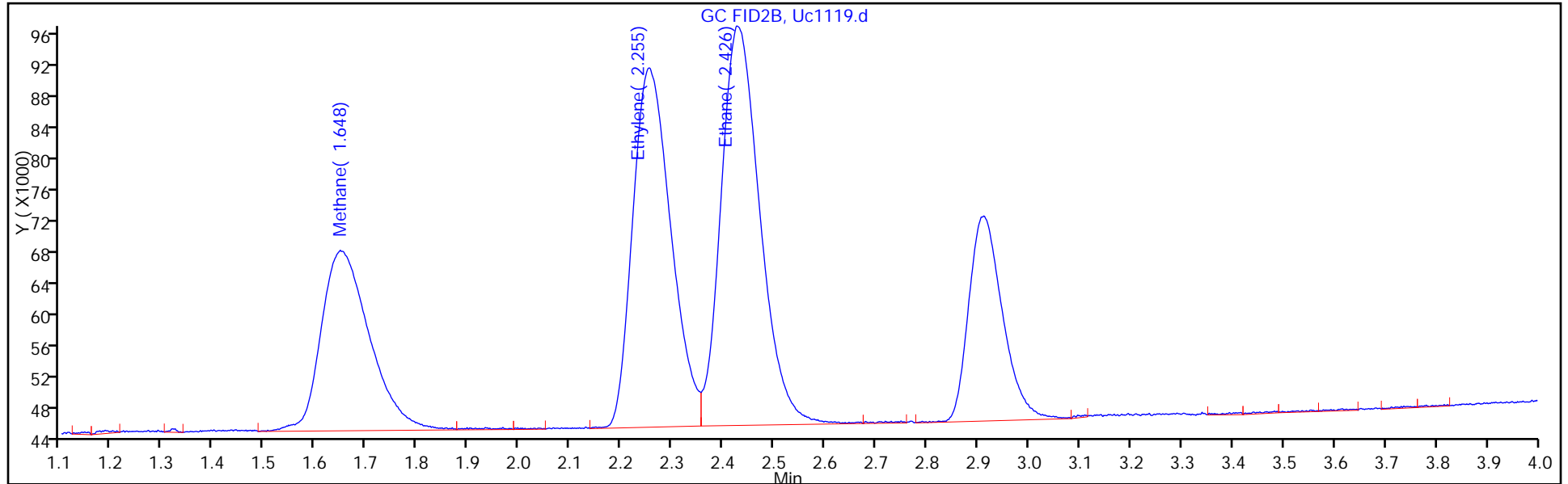
Dil. Factor: 1.0000

ALS Bottle#: 9

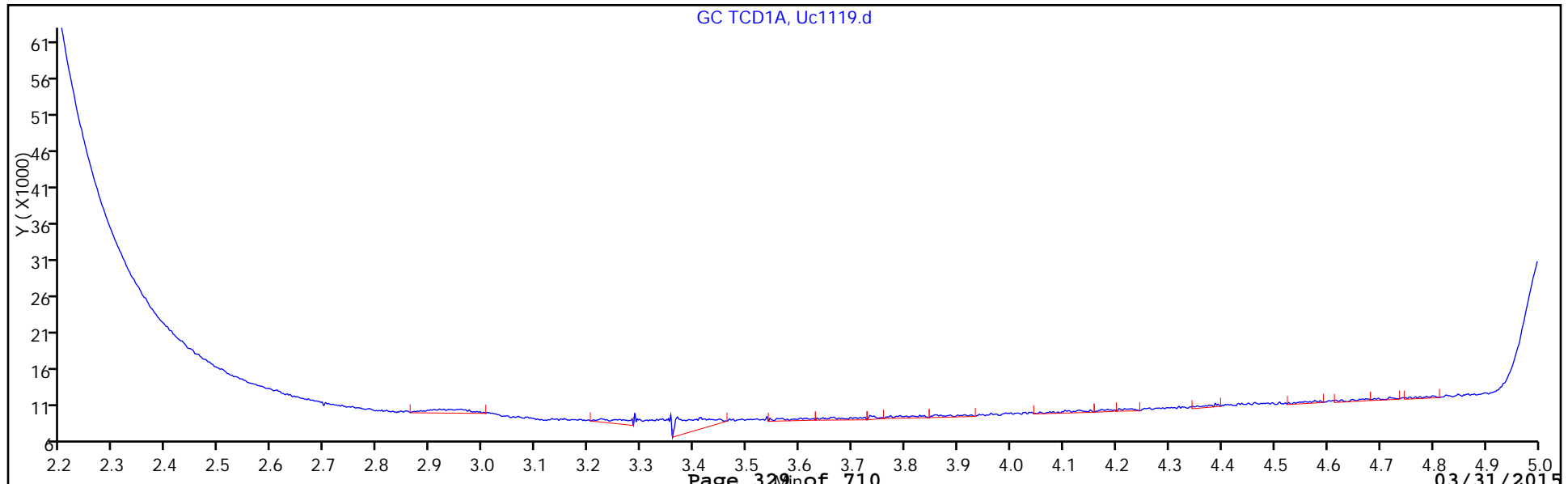
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1120.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Mar-2015 14:39:45 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-010
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:35:00 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.645	1.647	-0.002	83521	1.44	1.68	
2 Ethylene							
1	2.254	2.252	0.002	121048	2.53	2.49	
1 Ethane							
1	2.427	2.424	0.003	141254	2.71	2.67	

Reagents:

RSK 23470_00008 Amount Added: 2.50 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1120.d

Injection Date: 11-Mar-2015 14:39:45

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

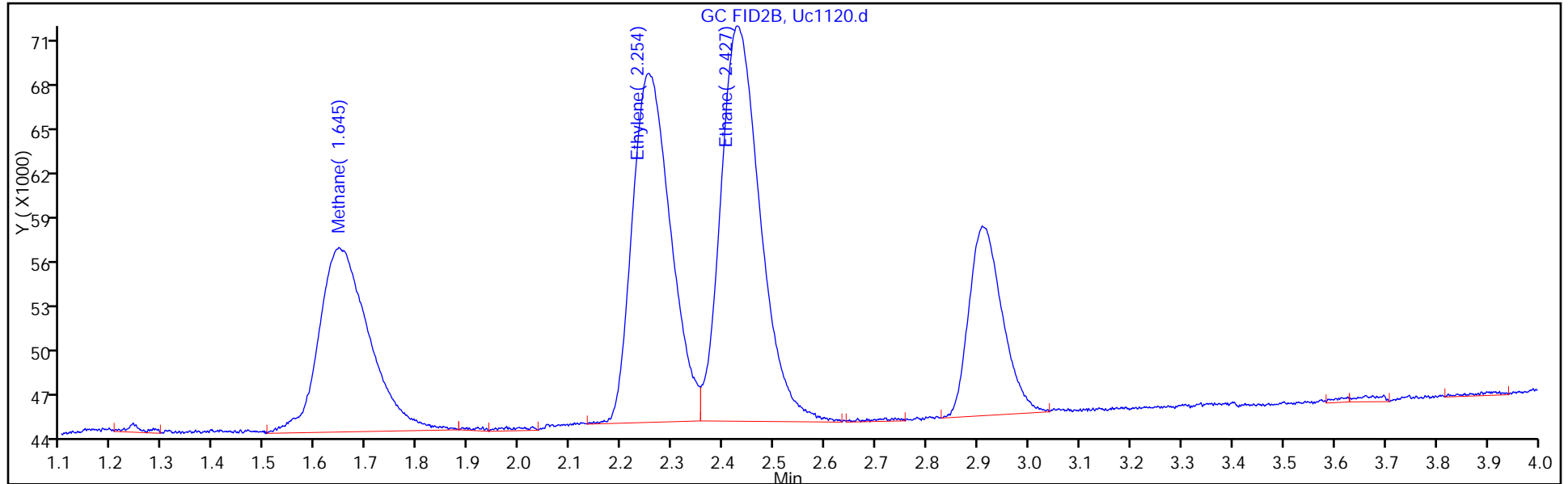
Dil. Factor: 1.0000

ALS Bottle#: 10

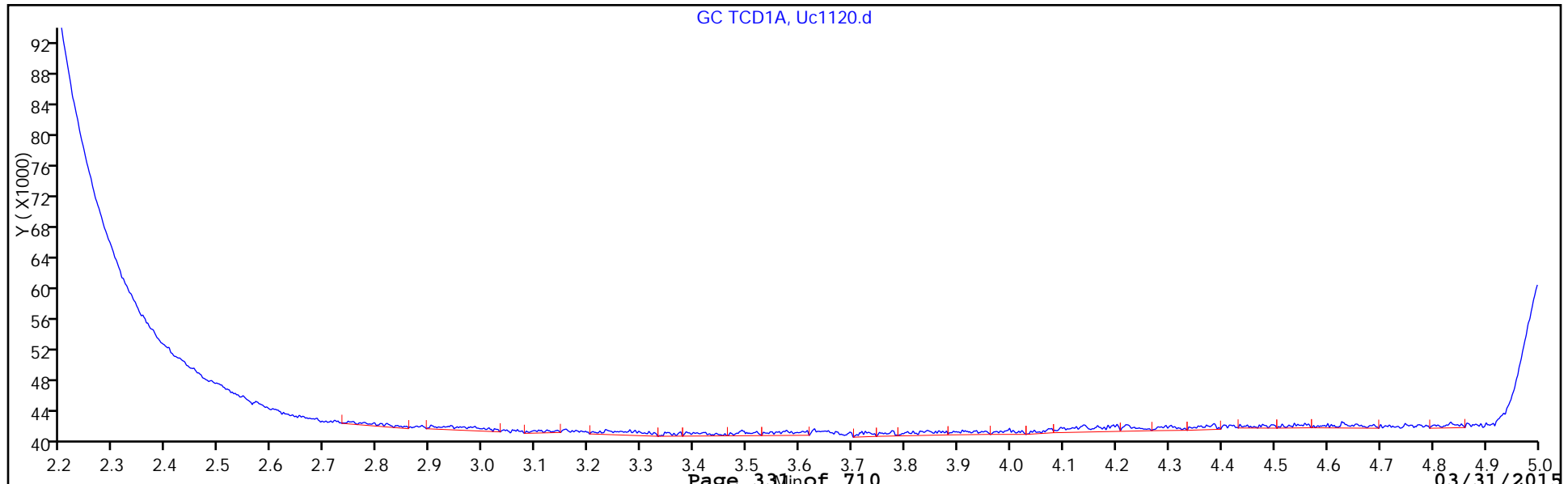
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1121.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Mar-2015 14:52:35 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-011
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:35:01 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.644	1.647	-0.003	42391	0.5765	0.8508	
2 Ethylene							
1	2.250	2.252	-0.002	59314	1.01	1.22	
1 Ethane							
1	2.430	2.424	0.006	68728	1.08	1.30	

Reagents:

RSK 23470_00008 Amount Added: 1.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1121.d

Injection Date: 11-Mar-2015 14:52:35

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

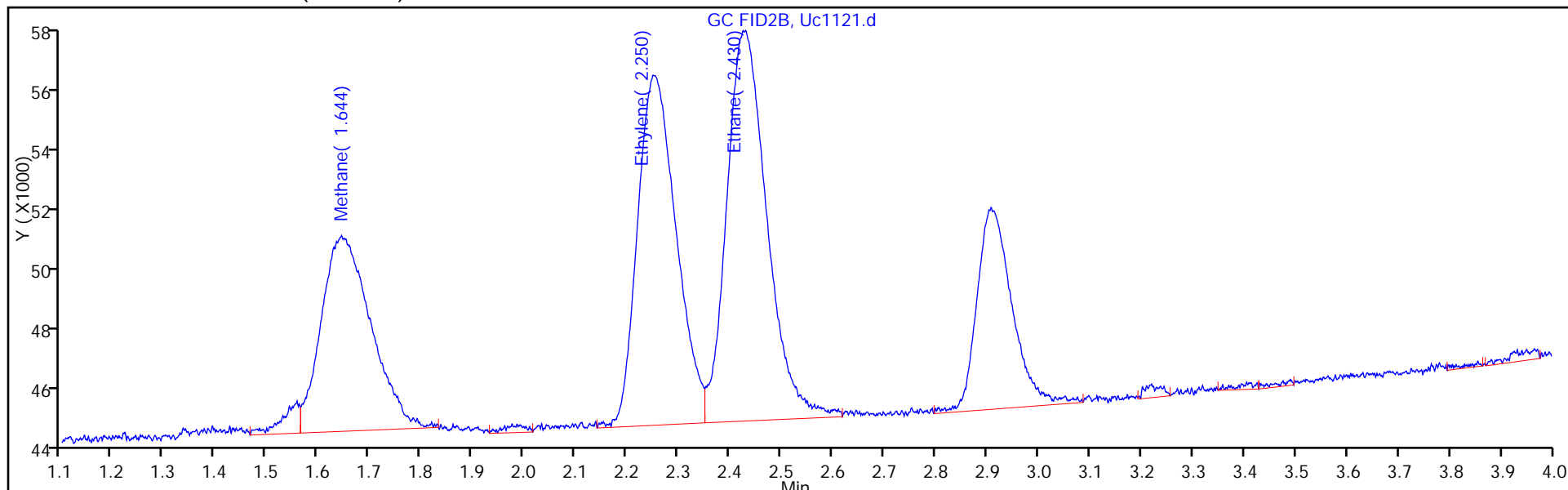
Dil. Factor: 1.0000

ALS Bottle#: 11

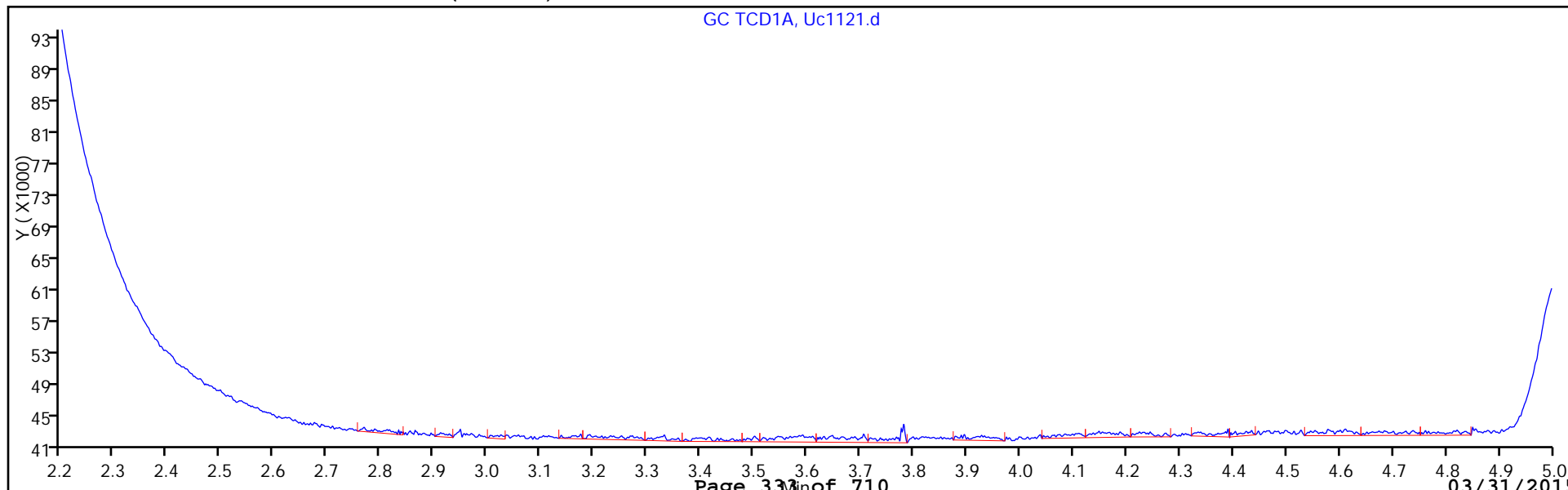
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1122.d
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Mar-2015 15:18:30 ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-012
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 11-Mar-2015 17:36:00 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK051

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.646	1.647	-0.001	1080588	38.5	21.7	
2 Ethylene							
1	2.254	2.252	0.002	2007228	67.3	41.4	
1 Ethane							
1	2.427	2.424	0.003	2485862	72.1	47.0	

Reagents:

RSK 23462_00031 Amount Added: 0.10 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1122.d

Injection Date: 11-Mar-2015 15:18:30

Instrument ID: CVGU

Operator ID:

Lims ID: ic

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

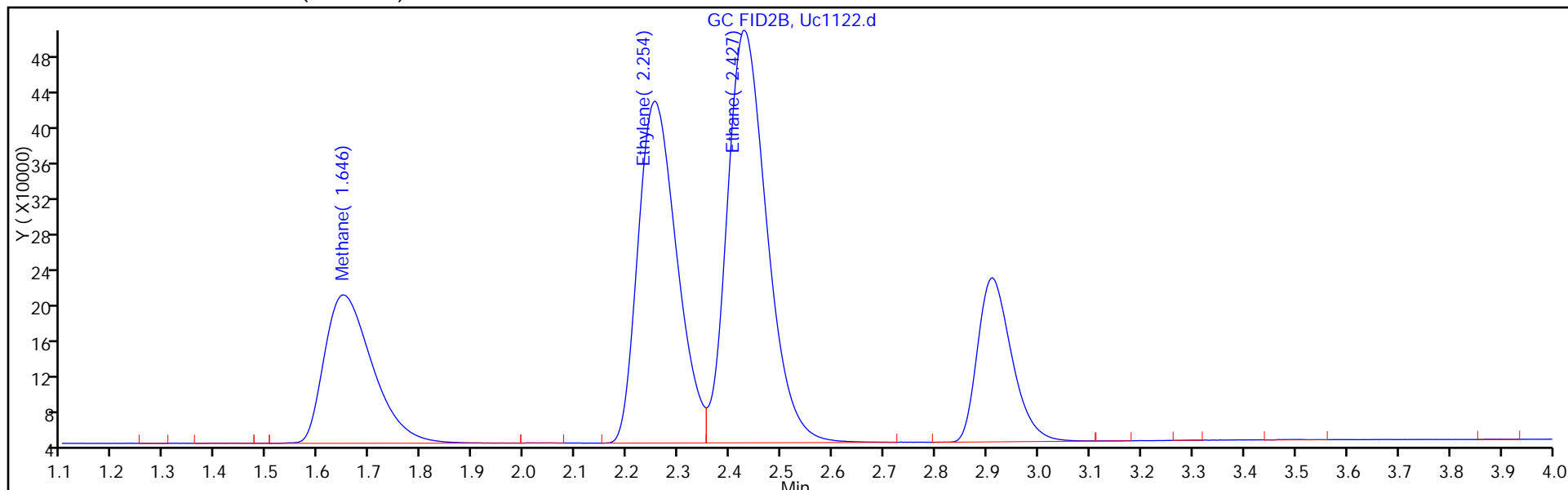
Dil. Factor: 1.0000

ALS Bottle#: 12

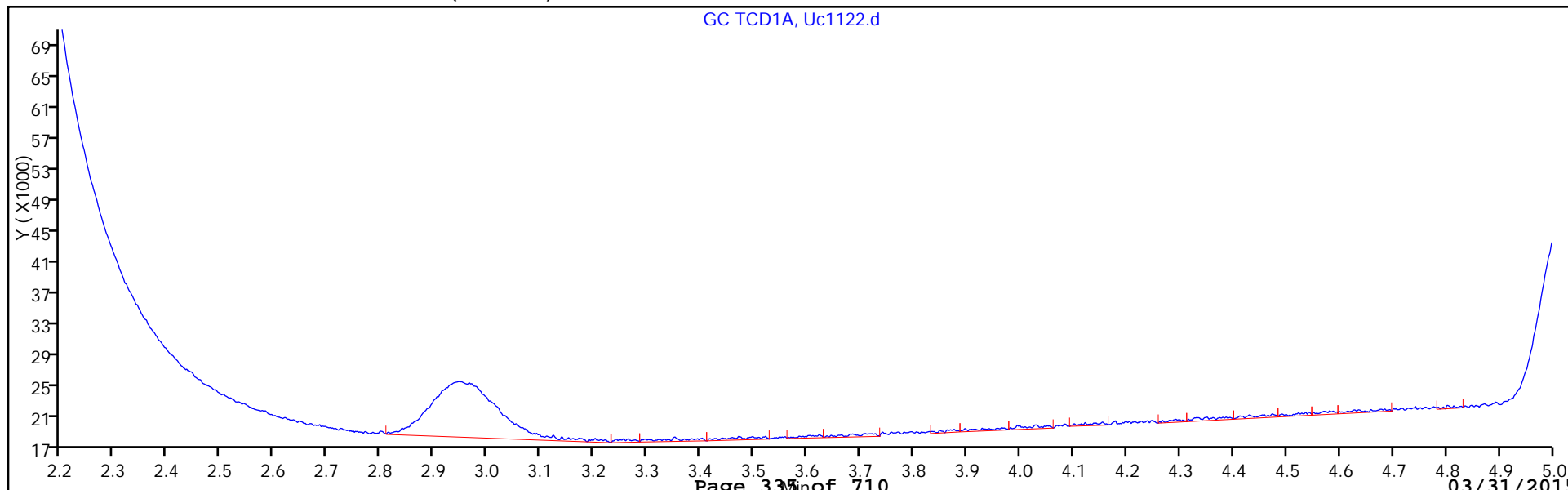
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: ICV 680-374176/22 Calibration Date: 03/11/2015 17:47
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: Uc1132.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	LinF		55105		170	154	10.6	25.0
Ethene	Ave	48531	51451		285	269	6.0	25.0
Ethane	Ave	52845	56018		306	288	6.0	25.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: ICV 680-374176/22 Calibration Date: 03/11/2015 17:47
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: Uc1132.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.65	1.62	1.69
Ethene	2.25	2.21	2.30
Ethane	2.43	2.38	2.48

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1132.d
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Mar-2015 17:47:39 ALS Bottle#: 22 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0017759-022
 Operator ID: Instrument ID: CVGU
 Sublist:

Method: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 12-Mar-2015 09:45:33 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK036

First Level Reviewer: mcnamaraa Date: 11-Mar-2015 17:57:32

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.646	1.652	-0.006	8477135	153.8	170.1	
2 Ethylene							
1	2.251	2.256	-0.005	13853005	269.2	285.4	
1 Ethane							
1	2.425	2.429	-0.004	16159453	288.5	305.8	

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CVGU\20150311-17770.b\Uc1132.d

Injection Date: 11-Mar-2015 17:47:39

Instrument ID: CVGU

Operator ID:

Lims ID: icv

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

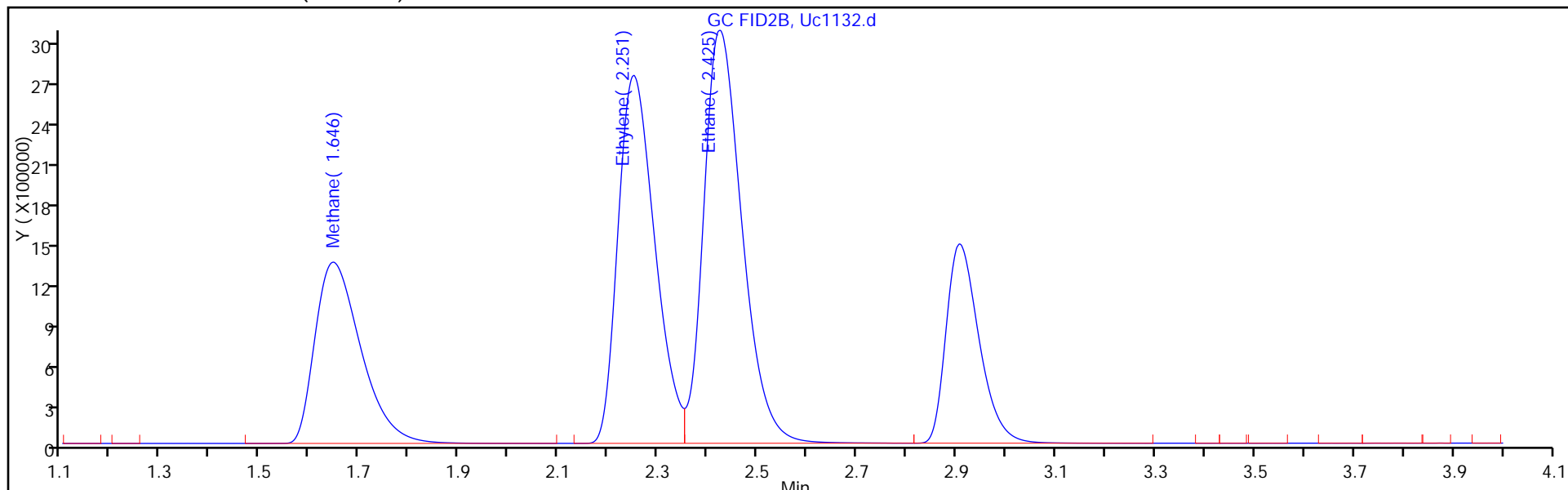
Dil. Factor: 1.0000

ALS Bottle#: 22

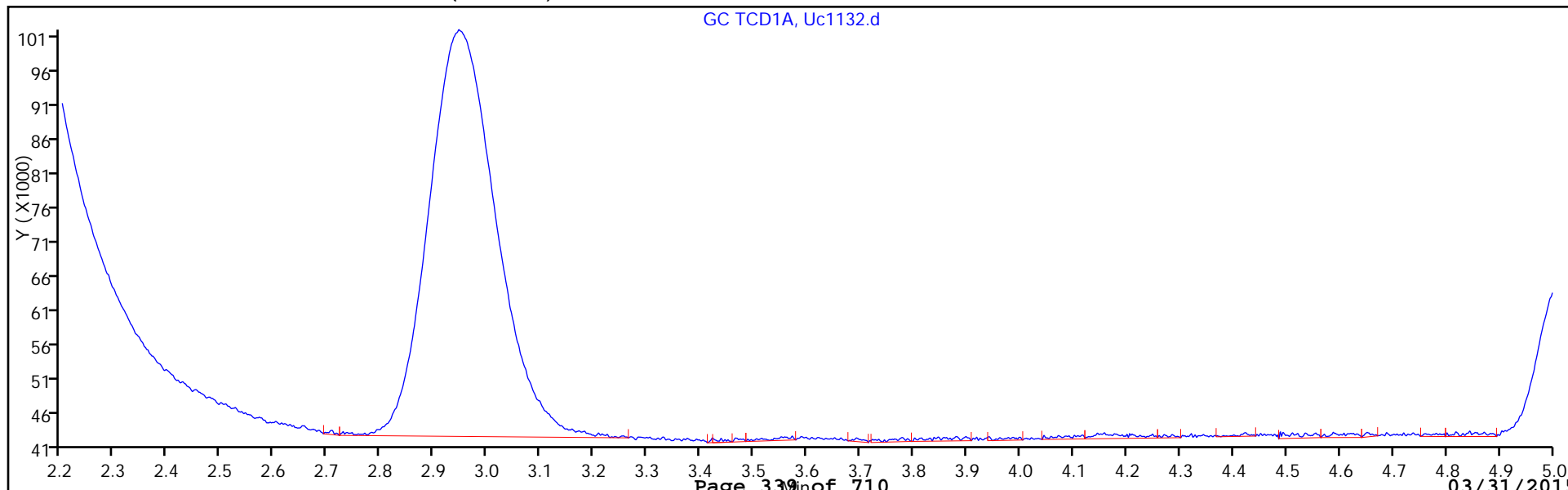
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-375719/4 Calibration Date: 03/24/2015 11:57
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: uc2409.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	LinF		52174		161	154	4.7	15.0
Ethene	Ave	48531	51662		287	269	6.5	15.0
Ethane	Ave	52845	55407		302	288	4.8	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-375719/4 Calibration Date: 03/24/2015 11:57
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: uc2409.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.65	1.62	1.68
Ethene	2.25	2.21	2.30
Ethane	2.43	2.38	2.48

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\luc2409.d
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Mar-2015 11:57:09 ALS Bottle#: 9 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-004
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 16:27:18 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK030

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Methane							
1	1.649	1.649	0.000	8026231	153.8	161.1	
2 Ethylene							
1	2.253	2.253	0.000	13909818	269.2	286.6	
1 Ethane							
1	2.427	2.427	0.000	15983309	288.5	302.5	

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CVGU\20150323-18079.b\uc2409.d

Injection Date: 24-Mar-2015 11:57:09

Instrument ID: CVGU

Operator ID:

Lims ID: ccv

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

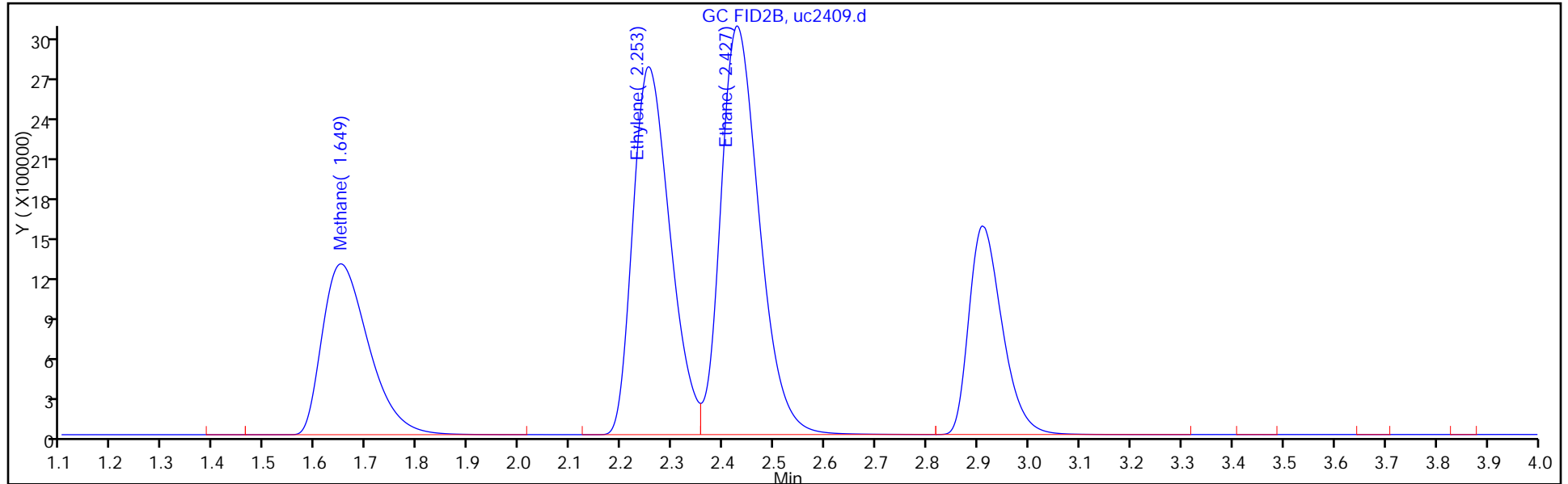
Dil. Factor: 1.0000

ALS Bottle#: 9

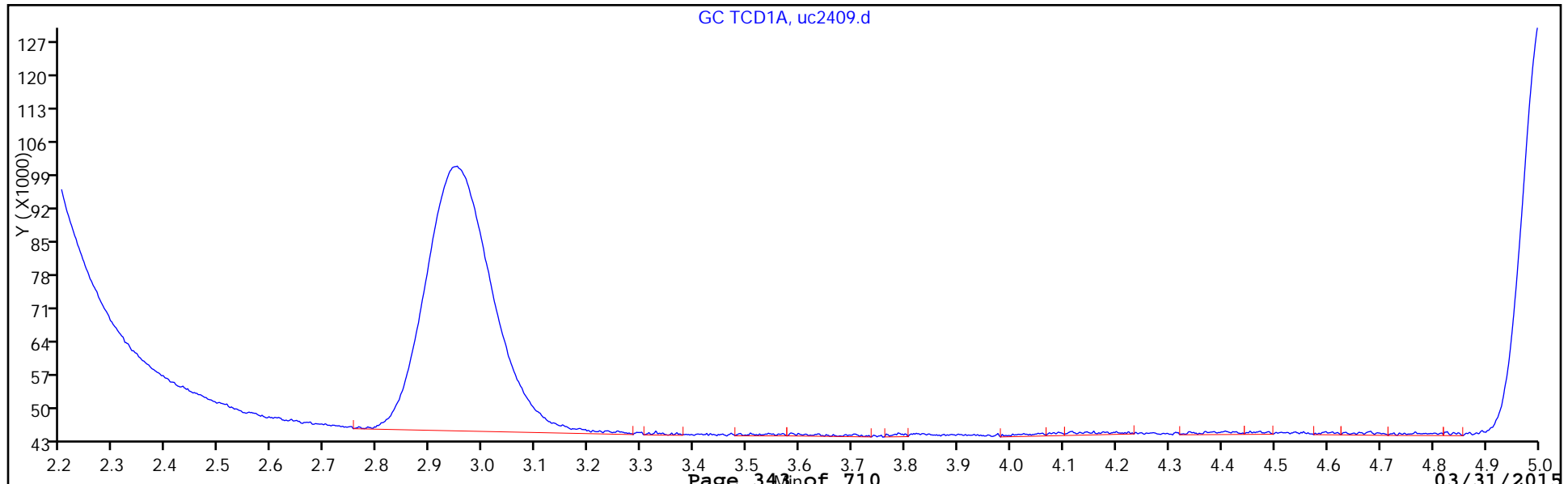
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-375719/22 Calibration Date: 03/24/2015 17:09
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: UC2427.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	LinF		44633		138	154	-10.4	15.0
Ethene	Ave	48531	46164		256	269	-4.9	15.0
Ethane	Ave	52845	49192		269	288	-6.9	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-375719/22 Calibration Date: 03/24/2015 17:09
 Instrument ID: CVGU Calib Start Date: 03/11/2015 12:07
 GC Column: RESTEK RTU PLOT ID: 0.32 (mm) Calib End Date: 03/11/2015 15:18
 Lab File ID: UC2427.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.65	1.62	1.68
Ethene	2.25	2.21	2.30
Ethane	2.43	2.38	2.48

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\UC2427.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Mar-2015 17:09:41 ALS Bottle#: 27 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-022
 Operator ID: Instrument ID: CVGU
 Sublist: chrom-RSK175_VGU*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 17:23:13 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK036

First Level Reviewer: mcnamaraa Date: 24-Mar-2015 17:21:28

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.648	1.648	0.000	6866121	153.8	137.8	
2 Ethylene							
1	2.254	2.254	0.000	12429430	269.2	256.1	
1 Ethane							
1	2.429	2.429	0.000	14190500	288.5	268.5	

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CVGU\20150323-18079.b\UC2427.d

Injection Date: 24-Mar-2015 17:09:41

Instrument ID: CVGU

Operator ID:

Lims ID: CCV

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

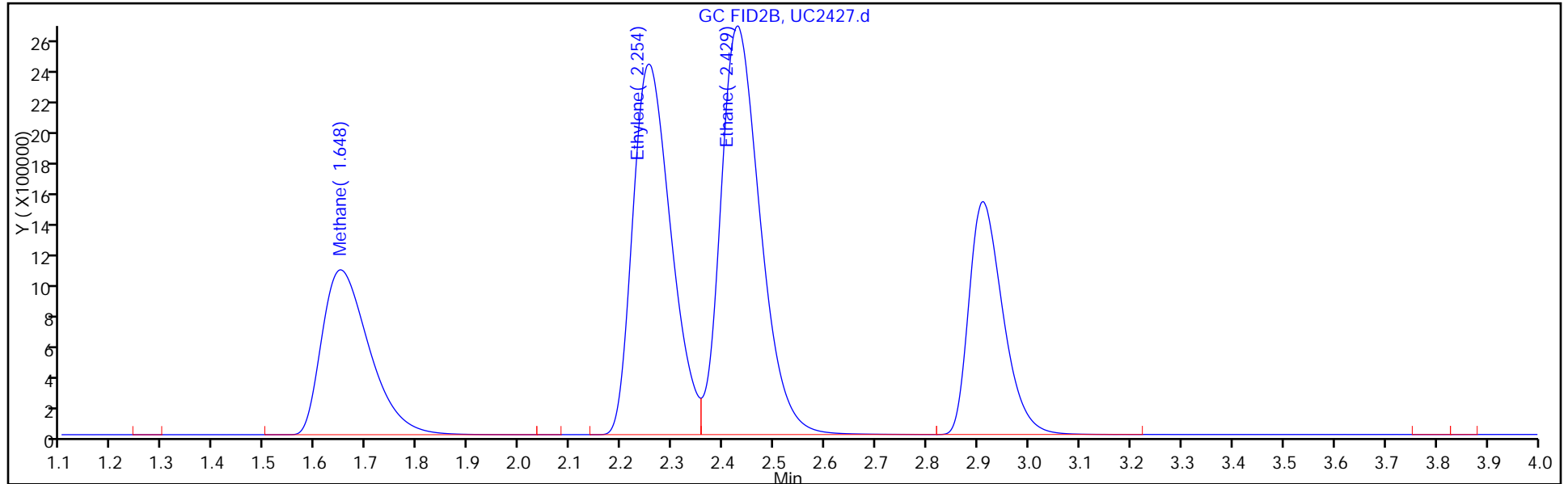
Dil. Factor: 1.0000

ALS Bottle#: 27

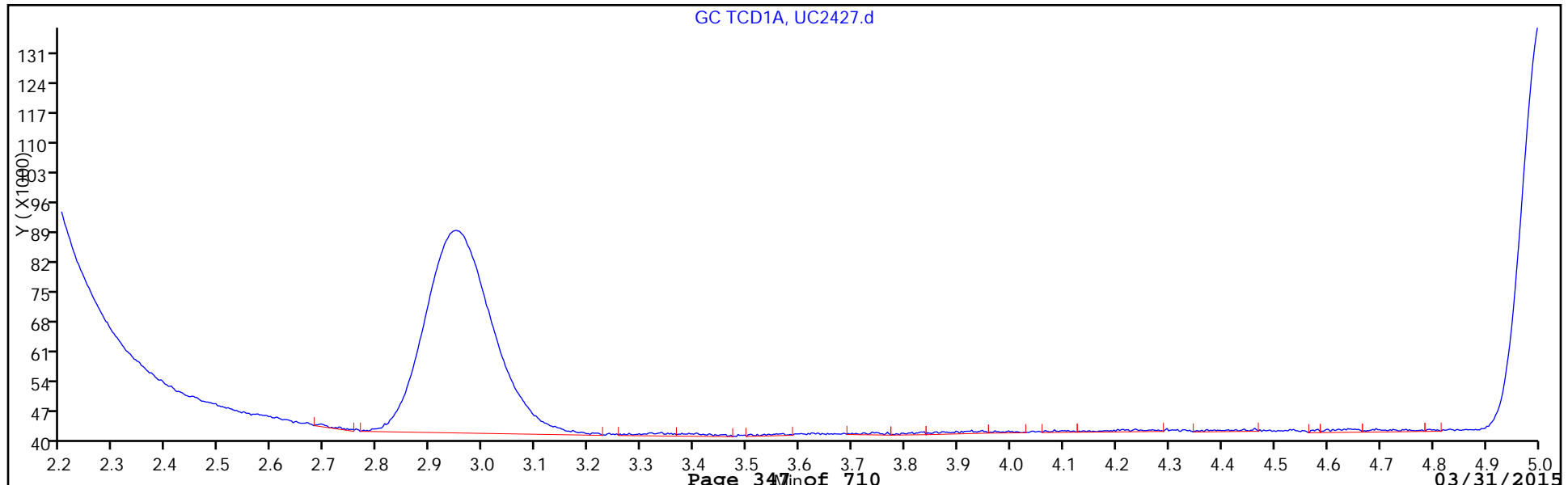
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-375719/7
 Matrix: Water Lab File ID: UC2412.d
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17(mL) Date Analyzed: 03/24/2015 12:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375719 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		1.1	0.55
74-85-1	Ethene	ND		1.0	0.50
74-82-8	Methane	ND		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\UC2412.d
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 24-Mar-2015 12:49:16 ALS Bottle#: 12 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-012
 Operator ID: Instrument ID: CVGU
 Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 14:03:37 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK030

First Level Reviewer: mcnamaraa Date: 24-Mar-2015 13:32:37

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CVGU\20150323-18079.b\UC2412.d

Injection Date: 24-Mar-2015 12:49:16

Instrument ID: CVGU

Operator ID:

Lims ID: mb

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

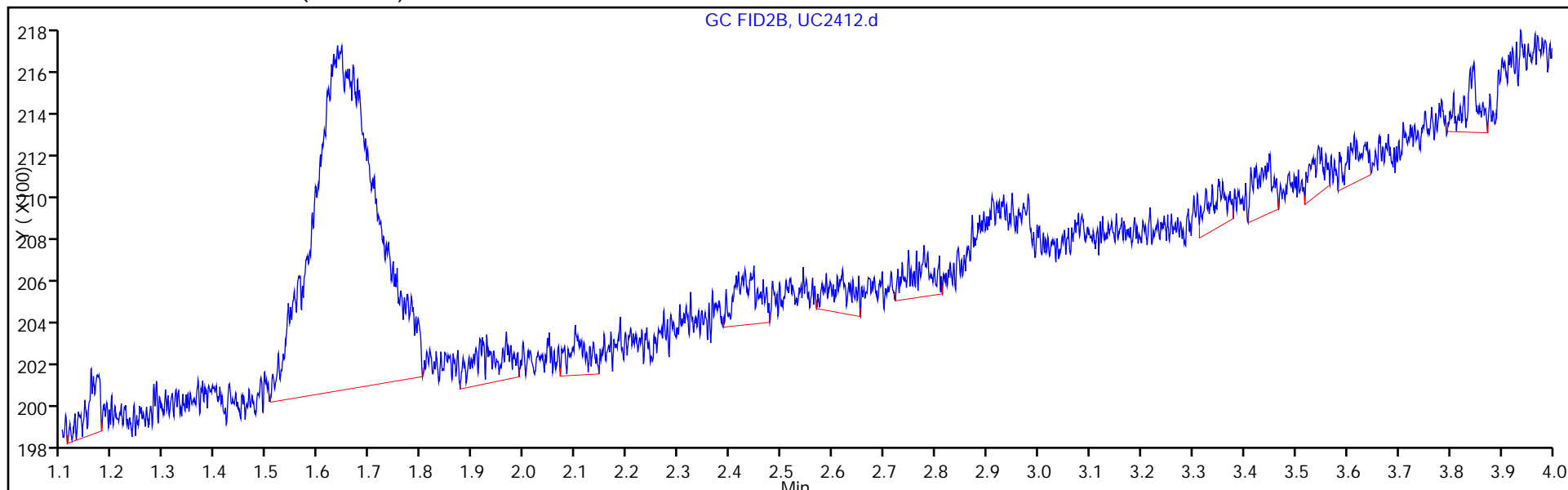
Dil. Factor: 1.0000

ALS Bottle#: 12

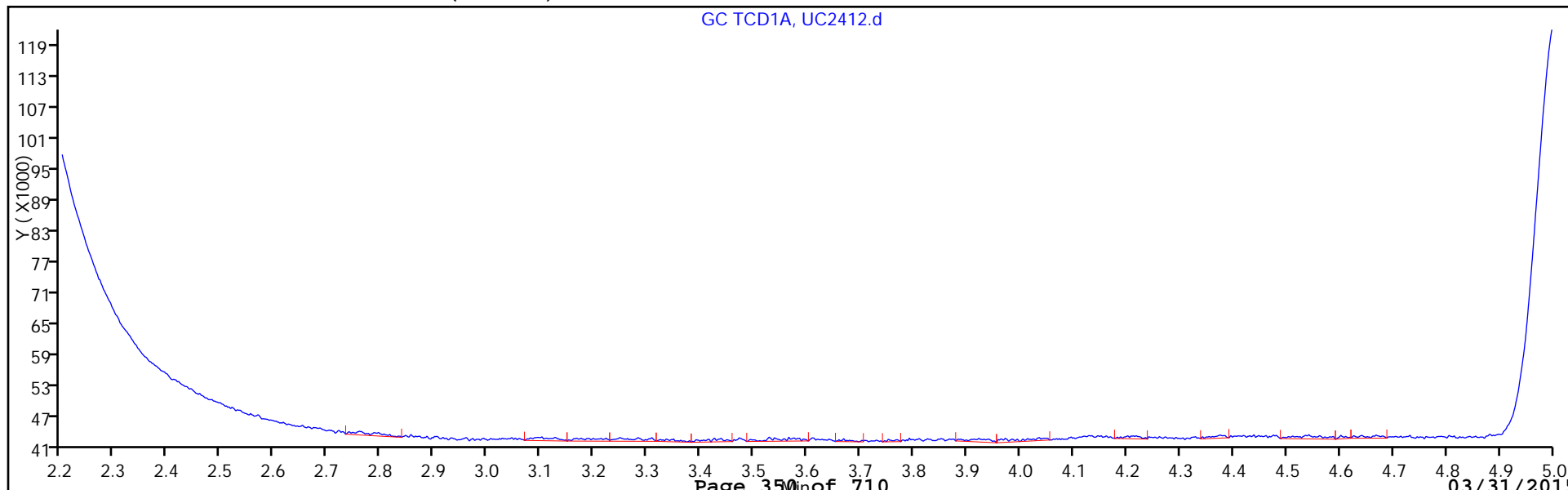
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-375719/5
 Matrix: Water Lab File ID: UC2410.d
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 03/24/2015 12:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375719 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	315		1.1	0.55
74-85-1	Ethene	300		1.0	0.50
74-82-8	Methane	174		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\UC2410.d
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 24-Mar-2015 12:23:30 ALS Bottle#: 10 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-005
 Operator ID: Instrument ID: CVGU
 Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 15:15:38 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK030

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane							
1	1.649	1.649	0.000	8672630	153.8	174.1	
2 Ethylene							
1	2.254	2.253	0.001	14547010	269.2	299.7	
1 Ethane							
1	2.427	2.427	0.000	16646760	288.5	315.0	

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CVGU\20150323-18079.b\UC2410.d

Injection Date: 24-Mar-2015 12:23:30

Instrument ID: CVGU

Operator ID:

Lims ID: lcs

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

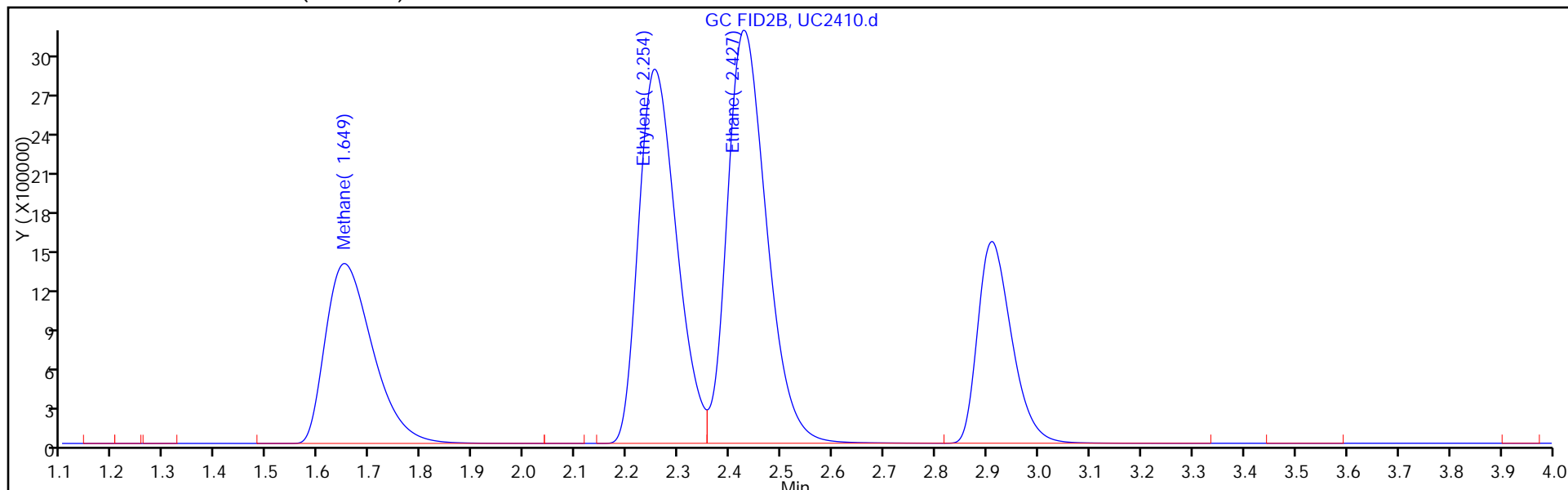
Dil. Factor: 1.0000

ALS Bottle#: 10

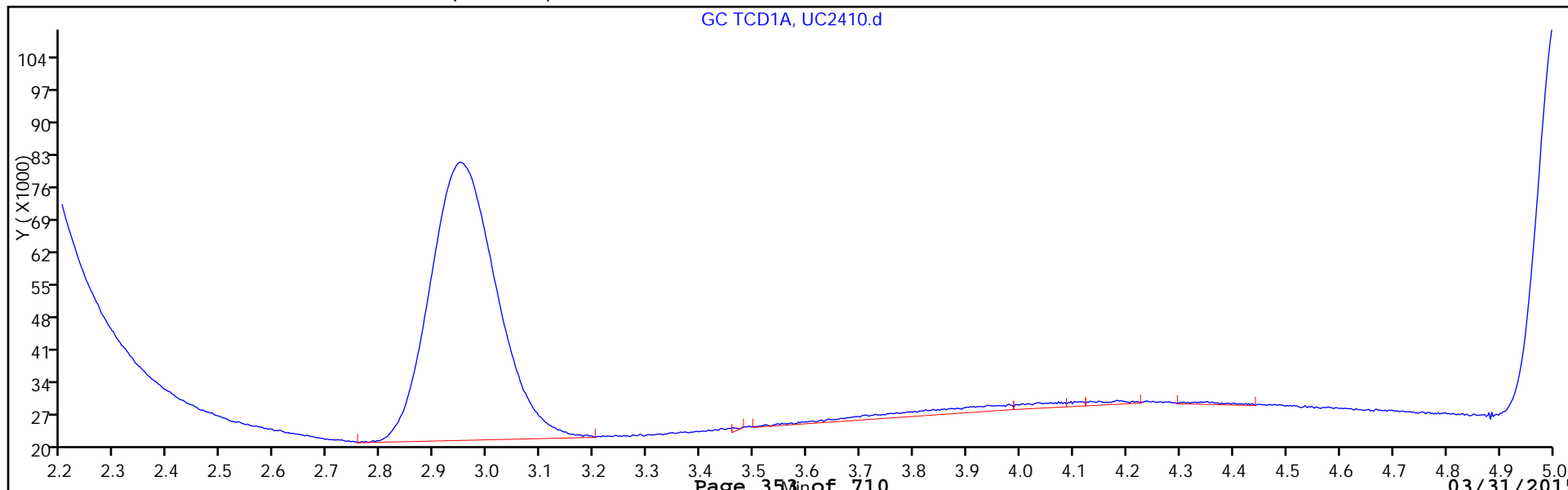
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-375719/6
 Matrix: Water Lab File ID: UC2411.d
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17(mL) Date Analyzed: 03/24/2015 12:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375719 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	332		1.1	0.55
74-85-1	Ethene	313		1.0	0.50
74-82-8	Methane	181		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\UC2411.d
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 24-Mar-2015 12:36:23 ALS Bottle#: 11 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-006
 Operator ID: Instrument ID: CVGU
 Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 16:08:26 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK030

First Level Reviewer: mcnamaraa Date: 24-Mar-2015 16:08:42

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane

1 1.648 1.649 -0.001 9014419 153.8 180.9

2 Ethylene

1 2.252 2.253 -0.001 15198990 269.2 313.2

1 Ethane

1 2.425 2.427 -0.002 17525138 288.5 331.6

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CVGU\20150323-18079.b\UC2411.d

Injection Date: 24-Mar-2015 12:36:23

Instrument ID: CVGU

Operator ID:

Lims ID: lcsd

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

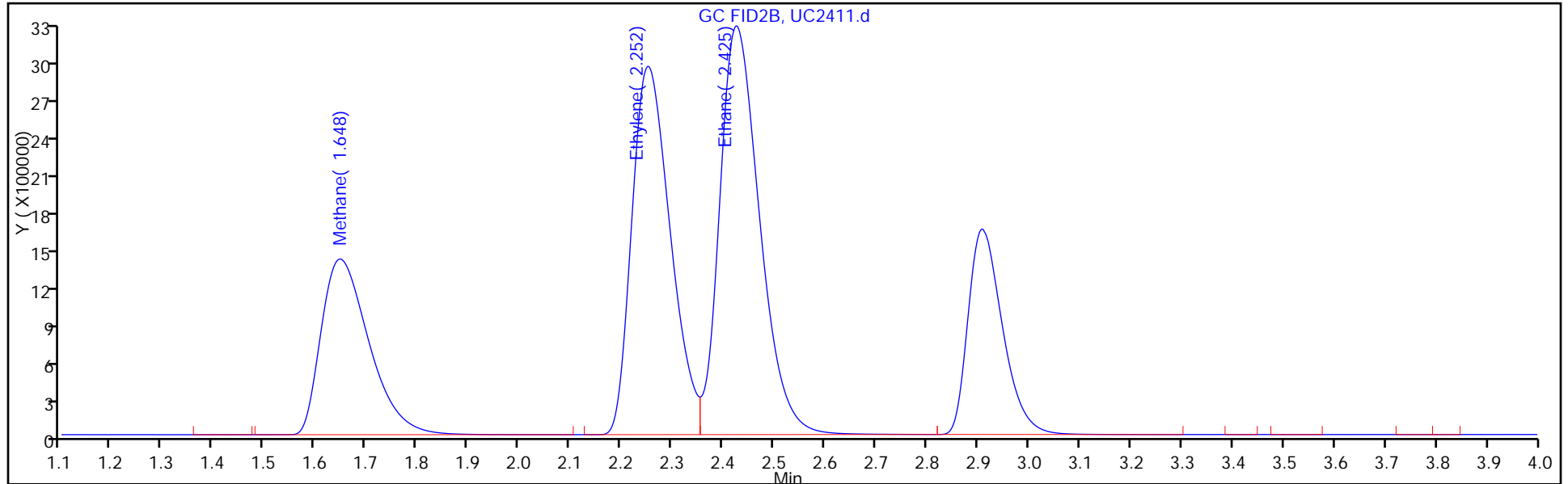
Dil. Factor: 1.0000

ALS Bottle#: 11

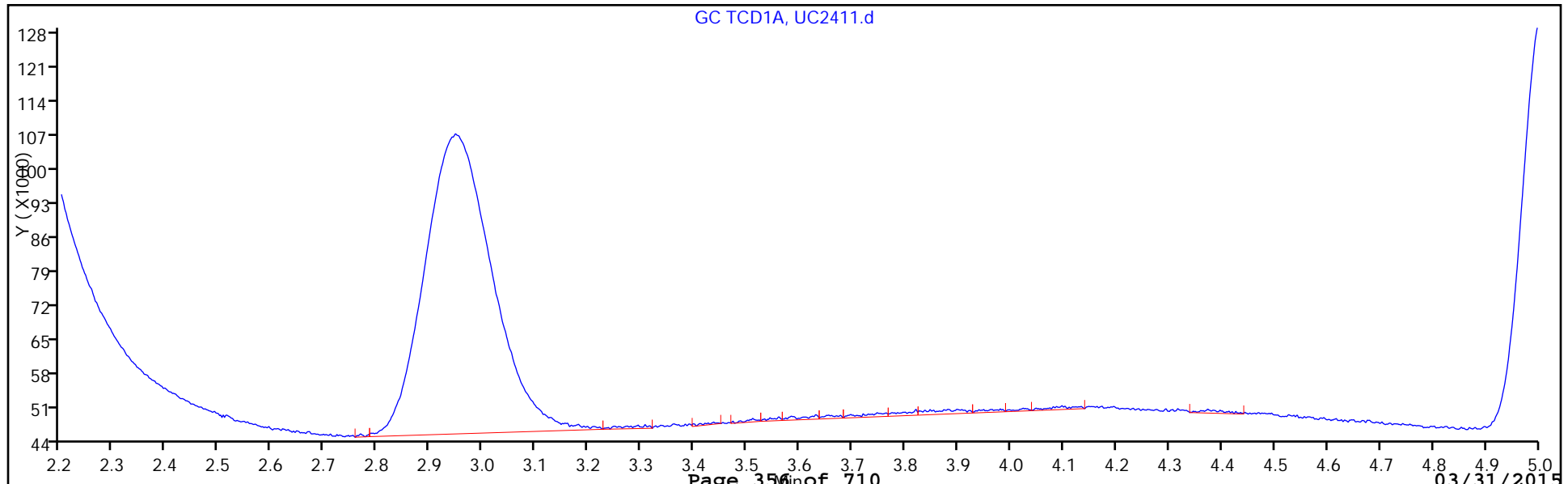
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114MS MS Lab Sample ID: 680-110788-2 MS
 Matrix: Water Lab File ID: UC2423.d
 Analysis Method: RSK-175 Date Collected: 03/18/2015 12:15
 Sample wt/vol: 17(mL) Date Analyzed: 03/24/2015 15:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375719 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	220		1.1	0.55
74-85-1	Ethene	208		1.0	0.50
74-82-8	Methane	152		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\UC2423.d
 Lims ID: 680-110788-G-2 MS
 Client ID: 25LM20114MS
 Sample Type: MS
 Inject. Date: 24-Mar-2015 15:57:59 ALS Bottle#: 23 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-018
 Operator ID: Instrument ID: CVGU
 Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 16:08:26 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK030

First Level Reviewer: mcnamaraa Date: 24-Mar-2015 16:08:40

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane

1 1.646 1.649 -0.003 7553063 153.8 151.6

2 Ethylene

1 2.246 2.253 -0.007 10076047 269.2 207.6

1 Ethane

1 2.423 2.427 -0.004 11600531 288.5 219.5

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CVGU\20150323-18079.b\UC2423.d

Injection Date: 24-Mar-2015 15:57:59

Instrument ID: CVGU

Operator ID:

Lims ID: 680-110788-G-2 MS

Worklist Smp#: 18

Client ID: 25LM20114MS

Purge Vol: 5.000 mL

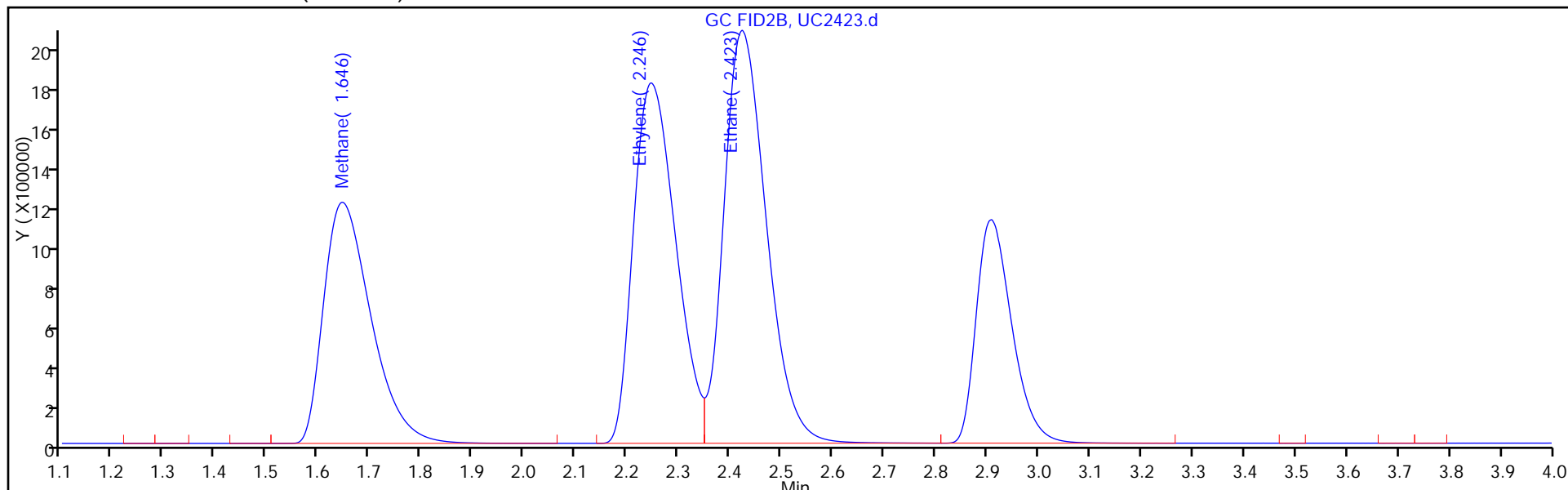
Dil. Factor: 1.0000

ALS Bottle#: 23

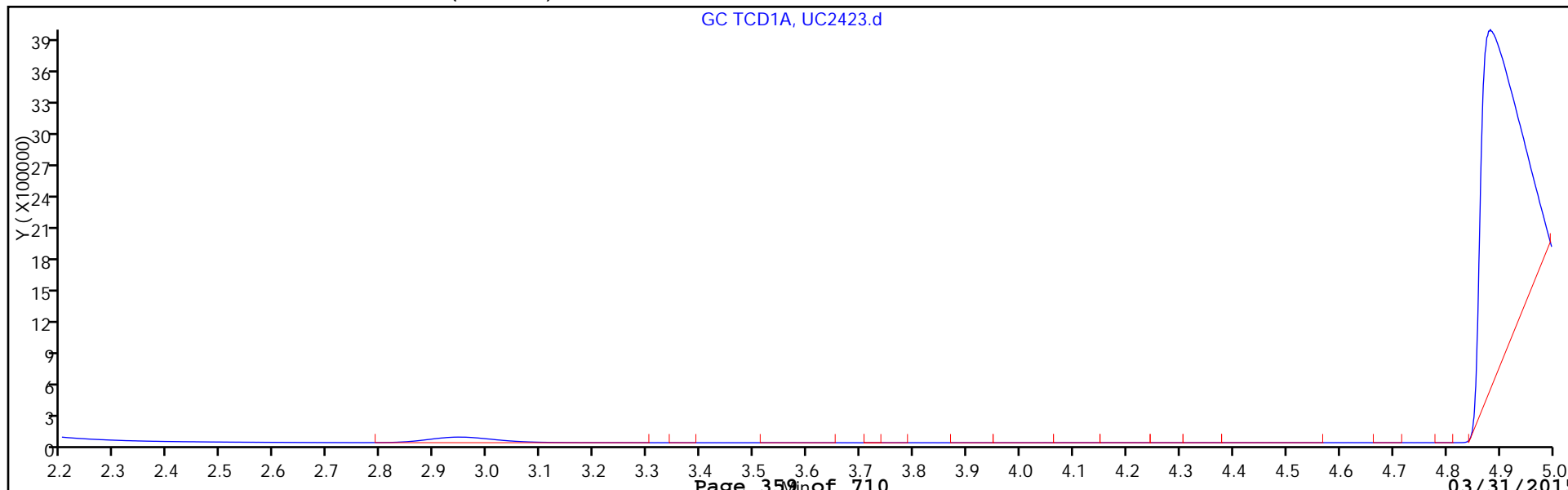
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114MSD MSD Lab Sample ID: 680-110788-2 MSD
 Matrix: Water Lab File ID: UC2424.d
 Analysis Method: RSK-175 Date Collected: 03/18/2015 12:15
 Sample wt/vol: 17(mL) Date Analyzed: 03/24/2015 16:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RESTEK RTU PLOT ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 375719 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	224		1.1	0.55
74-85-1	Ethene	214		1.0	0.50
74-82-8	Methane	154		0.58	0.29

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\UC2424.d
 Lims ID: 680-110788-G-2 MSD
 Client ID: 25LM20114MSD
 Sample Type: MSD
 Inject. Date: 24-Mar-2015 16:10:50 ALS Bottle#: 24 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 680-0018079-019
 Operator ID: Instrument ID: CVGU
 Method: \\ChromNA\g1\Savannah\ChromData\CVGU\20150323-18079.b\RSK175_VGU.m
 Limit Group: RSK-175
 Last Update: 24-Mar-2015 16:27:18 Calib Date: 11-Mar-2015 17:00:08
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CVGU\20150311-17770.b\Uc1129.d
 Column 1 : RESTEK RTU PLOT (0.32 mm) Det: GC FID2B
 Column 2 : SUPELCO CARBOXEN 1010 PLOT (0.32 mm) Det: GC TCD1A
 Process Host: XAWRK030

First Level Reviewer: mcnamaraa Date: 24-Mar-2015 16:27:16

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

3 Methane

1 1.650 1.649 0.001 7677048 153.8 154.1

2 Ethylene

1 2.250 2.253 -0.003 10379364 269.2 213.9

1 Ethane

1 2.426 2.427 -0.001 11828212 288.5 223.8

Reagents:

RSK 23462_00032 Amount Added: 0.40 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CVGU\20150323-18079.b\UC2424.d

Injection Date: 24-Mar-2015 16:10:50

Instrument ID: CVGU

Operator ID:

Lims ID: 680-110788-G-2 MSD

Worklist Smp#: 19

Client ID: 25LM20114MSD

Purge Vol: 5.000 mL

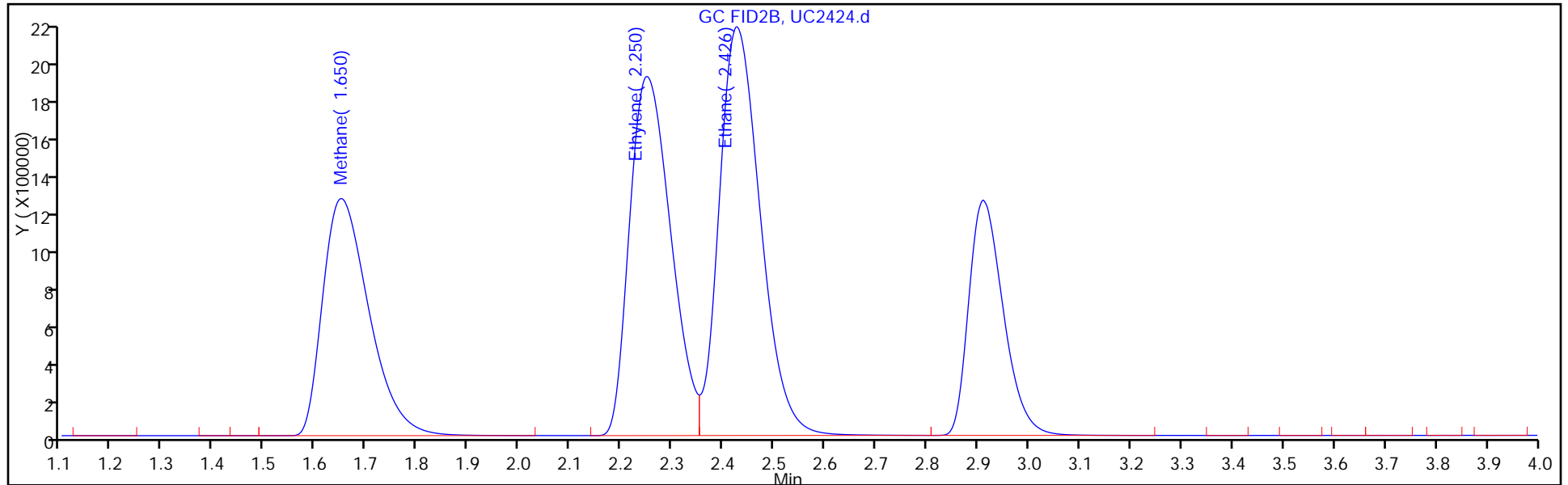
Dil. Factor: 1.0000

ALS Bottle#: 24

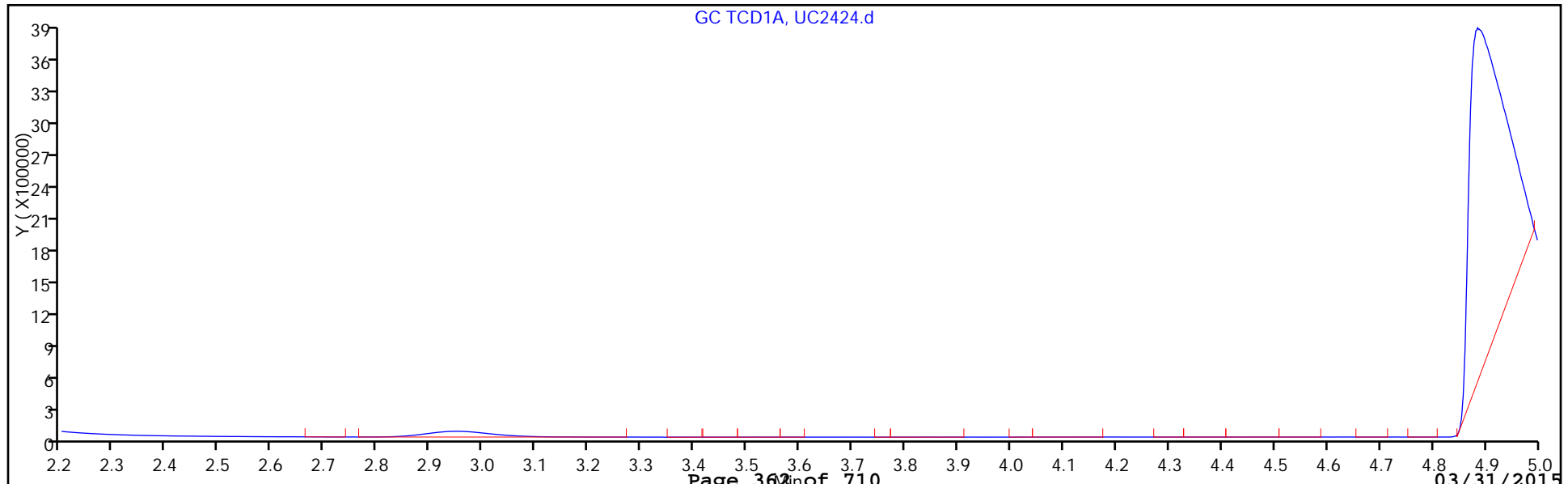
Method: RSK175_VGU

Limit Group: RSK-175

Column: RESTEK RTU PLOT (0.32 mm)



Column: SUPELCO CARBOXEN 1010 PLOT (0.32 mm)



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CVGU Start Date: 01/09/2015 10:02Analysis Batch Number: 366393 End Date: 01/09/2015 14:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-366393/1		01/09/2015 10:02	1	UA0901.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-366393/2		01/09/2015 10:15	1	UA0902.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-366393/3		01/09/2015 10:28	1	UA0903.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-366393/5		01/09/2015 10:53	1	UA0905.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-366393/6		01/09/2015 11:06	1	UA0906.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-366393/7		01/09/2015 11:19	1	UA0907.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-366393/9		01/09/2015 12:04	1	UA0909.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-366393/11		01/09/2015 12:53	1	UA0911.d	RESTEK RTU PLOT 0.32 (mm)
ICV 680-366393/12		01/09/2015 14:27	1	UA0912.d	RESTEK RTU PLOT 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CVGU Start Date: 03/11/2015 12:07

Analysis Batch Number: 374176 End Date: 03/12/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-374176/1		03/11/2015 12:07	1	Uc1111.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/2		03/11/2015 12:20	1	Uc1112.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/3		03/11/2015 12:33	1	Uc1113.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/4		03/11/2015 12:46	1	Uc1114.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/5		03/11/2015 12:59	1	Uc1115.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/9		03/11/2015 14:26	1	Uc1119.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/10		03/11/2015 14:39	1	Uc1120.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/11		03/11/2015 14:52	1	Uc1121.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/12		03/11/2015 15:18	1	Uc1122.d	RESTEK RTU PLOT 0.32 (mm)
IC 680-374176/13		03/11/2015 15:42	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/14		03/11/2015 15:55	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/15		03/11/2015 16:08	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/16		03/11/2015 16:21	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/17		03/11/2015 16:34	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/18		03/11/2015 16:47	1		SUPELCO CARBOXE 0.32 (mm)
IC 680-374176/19		03/11/2015 17:00	1		SUPELCO CARBOXE 0.32 (mm)
ICV 680-374176/21		03/11/2015 17:34	1		SUPELCO CARBOXE 0.32 (mm)
ICV 680-374176/22		03/11/2015 17:47	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 18:00	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 18:13	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 18:13	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 18:57	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 18:57	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 19:10	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 19:10	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 19:23	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 19:23	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 19:36	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 19:36	5		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 19:49	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 19:49	5		SUPELCO CARBOXE 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CVGU Start Date: 03/11/2015 12:07

Analysis Batch Number: 374176 End Date: 03/12/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/11/2015 20:01	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 20:01	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 20:14	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 20:14	5		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 20:27	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 20:27	5		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 20:40	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 20:40	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 20:53	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 20:53	5		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 21:06	5		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 21:06	5		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 21:19	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 21:19	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 21:31	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 21:31	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 21:44	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 21:44	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 21:57	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 21:57	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 22:10	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 22:10	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 22:23	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 22:23	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 22:36	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 22:36	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 22:49	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 22:49	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 23:01	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/11/2015 23:01	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/11/2015 23:53	1		SUPELCO CARBOXE 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CVGU Start Date: 03/11/2015 12:07

Analysis Batch Number: 374176 End Date: 03/12/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/12/2015 00:19	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/12/2015 09:33	1		SUPELCO CARBOXE 0.32 (mm)
CCV 680-374176/53		03/12/2015 09:46	1		SUPELCO CARBOXE 0.32 (mm)
CCV 680-374176/54		03/12/2015 10:11	1		RESTEK RTU PLOT 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica SavannahJob No.: 680-110788-1

SDG No.: _____

Instrument ID: CVGUStart Date: 03/24/2015 09:49Analysis Batch Number: 375719End Date: 03/24/2015 17:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 680-375719/1		03/24/2015 09:49	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/24/2015 10:02	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/24/2015 10:15	1		SUPELCO CARBOXE 0.32 (mm)
CCV 680-375719/4		03/24/2015 11:57	1	uc2409.d	RESTEK RTU PLOT 0.32 (mm)
LCS 680-375719/5		03/24/2015 12:23	1	UC2410.d	RESTEK RTU PLOT 0.32 (mm)
LCSD 680-375719/6		03/24/2015 12:36	1	UC2411.d	RESTEK RTU PLOT 0.32 (mm)
MB 680-375719/7		03/24/2015 12:49	1	UC2412.d	RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/24/2015 12:49	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/24/2015 13:49	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/24/2015 13:49	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/24/2015 14:02	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/24/2015 14:02	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/24/2015 14:15	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/24/2015 14:15	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/24/2015 14:28	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/24/2015 14:28	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/24/2015 14:40	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/24/2015 14:40	1		SUPELCO CARBOXE 0.32 (mm)
ZZZZZ		03/24/2015 14:53	1		RESTEK RTU PLOT 0.32 (mm)
ZZZZZ		03/24/2015 14:53	1		SUPELCO CARBOXE 0.32 (mm)
680-110788-1	25LM20113	03/24/2015 15:06	1	UC2419.d	RESTEK RTU PLOT 0.32 (mm)
680-110788-1	25LM20113	03/24/2015 15:06	1	UC2419.d	SUPELCO CARBOXE 0.32 (mm)
680-110788-3	25LM20115	03/24/2015 15:19	1	UC2420.d	RESTEK RTU PLOT 0.32 (mm)
680-110788-3	25LM20115	03/24/2015 15:19	1	UC2420.d	SUPELCO CARBOXE 0.32 (mm)
680-110788-4	25LM00112	03/24/2015 15:32	1	UC2421.d	RESTEK RTU PLOT 0.32 (mm)
680-110788-4	25LM00112	03/24/2015 15:32	1	UC2421.d	SUPELCO CARBOXE 0.32 (mm)
680-110788-2	25LM20114	03/24/2015 15:45	1	UC2422.d	RESTEK RTU PLOT 0.32 (mm)
680-110788-2	25LM20114	03/24/2015 15:45	1	UC2422.d	SUPELCO CARBOXE 0.32 (mm)
680-110788-2 MS	25LM20114MS MS	03/24/2015 15:57	1	UC2423.d	RESTEK RTU PLOT 0.32 (mm)
680-110788-2 MS	25LM20114MS MS	03/24/2015 15:57	1	UC2423.d	SUPELCO CARBOXE 0.32 (mm)
680-110788-2 MSD	25LM20114MSD MSD	03/24/2015 16:10	1	UC2424.d	RESTEK RTU PLOT 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CVGU Start Date: 03/24/2015 09:49

Analysis Batch Number: 375719 End Date: 03/24/2015 17:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
680-110788-2 MSD	25LM20114MSD MSD	03/24/2015 16:10	1	UC2424.d	SUPELCO CARBOXE 0.32 (mm)
CCV 680-375719/21		03/24/2015 16:56	1		SUPELCO CARBOXE 0.32 (mm)
CCV 680-375719/22		03/24/2015 17:09	1	UC2427.d	RESTEK RTU PLOT 0.32 (mm)

300_ORGEM_28D

Anions, Ion Chromatography

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0326151427-6.d
 Lab ID: LCS 680-376322/3 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Chloride	10.0	10.3	103	90-110	
Sulfate	10.0	10.4	104	90-110	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0327151140-6.d
 Lab ID: LCS 680-376449/3 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Sulfate	10.0	10.6	106	90-110	

Column to be used to flag recovery and RPD values
 FORM III 300.0

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0326151442-7.d
 Lab ID: LCSD 680-376322/4 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloride	10.0	10.3	103	0	30	90-110	
Sulfate	10.0	10.4	104	0	30	90-110	

Column to be used to flag recovery and RPD values
 FORM III 300.0

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0327151156-7.d
 Lab ID: LCSD 680-376449/4 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Sulfate	10.0	10.6	106	0	30	90-110	

Column to be used to flag recovery and RPD values
 FORM III 300.0

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0326152107-32.d
 Lab ID: 680-110788-2 MS Client ID: 25LM20114MS MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Chloride	10.0	1.1	11.3	102	80-120	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0327151328-13.d
 Lab ID: 680-110788-2 MS Client ID: 25LM20114MS MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Sulfate	20.0	70	89.5	97	80-120	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 0326152122-33.d

Lab ID: 680-110788-2 MSD Client ID: 25LM20114MSD MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloride	10.0	11.4	103	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0327151343-14.d
 Lab ID: 680-110788-2 MSD Client ID: 25LM20114MSD MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Sulfate	20.0	89.2	96	0	30	80-120	

Column to be used to flag recovery and RPD values

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab File ID: 0326151411-5.d Lab Sample ID: MB 680-376322/2
 Matrix: Water Date Extracted: _____
 Instrument ID: CICH Date Analyzed: 03/26/2015 14:11
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-376322/3	0326151427-6.d	03/26/2015 14:27
	LCSD 680-376322/4	0326151442-7.d	03/26/2015 14:42
	CCB 680-376322/17	0326151802-20.d	03/26/2015 18:02
25LM20113	680-110788-1	0326152005-28.d	03/26/2015 20:05
	CCB 680-376322/27	0326152036-30.d	03/26/2015 20:36
25LM20114	680-110788-2	0326152052-31.d	03/26/2015 20:52
25LM20114MS MS	680-110788-2 MS	0326152107-32.d	03/26/2015 21:07
25LM20114MSD MSD	680-110788-2 MSD	0326152122-33.d	03/26/2015 21:22
25LM20115	680-110788-3	0326152138-34.d	03/26/2015 21:38
25LM00112	680-110788-4	0326152153-35.d	03/26/2015 21:53
	CCB 680-376322/34	0326152224-37.d	03/26/2015 22:24

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab File ID: 0327151125-5.d Lab Sample ID: MB 680-376449/2
 Matrix: Water Date Extracted: _____
 Instrument ID: CICH Date Analyzed: 03/27/2015 11:25
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-376449/3	0327151140-6.d	03/27/2015 11:40
	LCSD 680-376449/4	0327151156-7.d	03/27/2015 11:56
25LM20114	680-110788-2	0327151313-12.d	03/27/2015 13:13
25LM20114MS MS	680-110788-2 MS	0327151328-13.d	03/27/2015 13:28
25LM20114MSD MSD	680-110788-2 MSD	0327151343-14.d	03/27/2015 13:43
25LM20115	680-110788-3	0327151359-15.d	03/27/2015 13:59
	CCB 680-376449/17	0327151516-20.d	03/27/2015 15:16

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20113 Lab Sample ID: 680-110788-1
 Matrix: Water Lab File ID: 0326152005-28.d
 Analysis Method: 300.0 Date Collected: 03/18/2015 11:00
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/26/2015 20:05
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376322 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	0.74		0.50	0.20
14808-79-8	Sulfate	24		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152005-28.d
 Lims ID: 680-110788-B-1 Lab Sample ID: 680-110788-1
 Client ID: 25LM20113
 Sample Type: Client
 Inject. Date: 26-Mar-2015 20:05:00 ALS Bottle#: 0 Worklist Smp#: 25
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 680-110788-B-1 1H032615
 Misc. Info.: 10250
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:13 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

First Level Reviewer: orra Date: 27-Mar-2015 09:02:57

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
2 Chloride	4.258	4.258	0.000	11505987	0.7416	
3 Sulfate	5.600	5.625	-0.025	344594750	24.0	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326152005-28.d

Injection Date: 26-Mar-2015 20:05:00

Instrument ID: CICH

Operator ID:

Lims ID: 680-110788-B-1

Lab Sample ID: 680-110788-1

Worklist Smp#: 25

Client ID: 25LM20113

Injection Vol: 25.0 ul

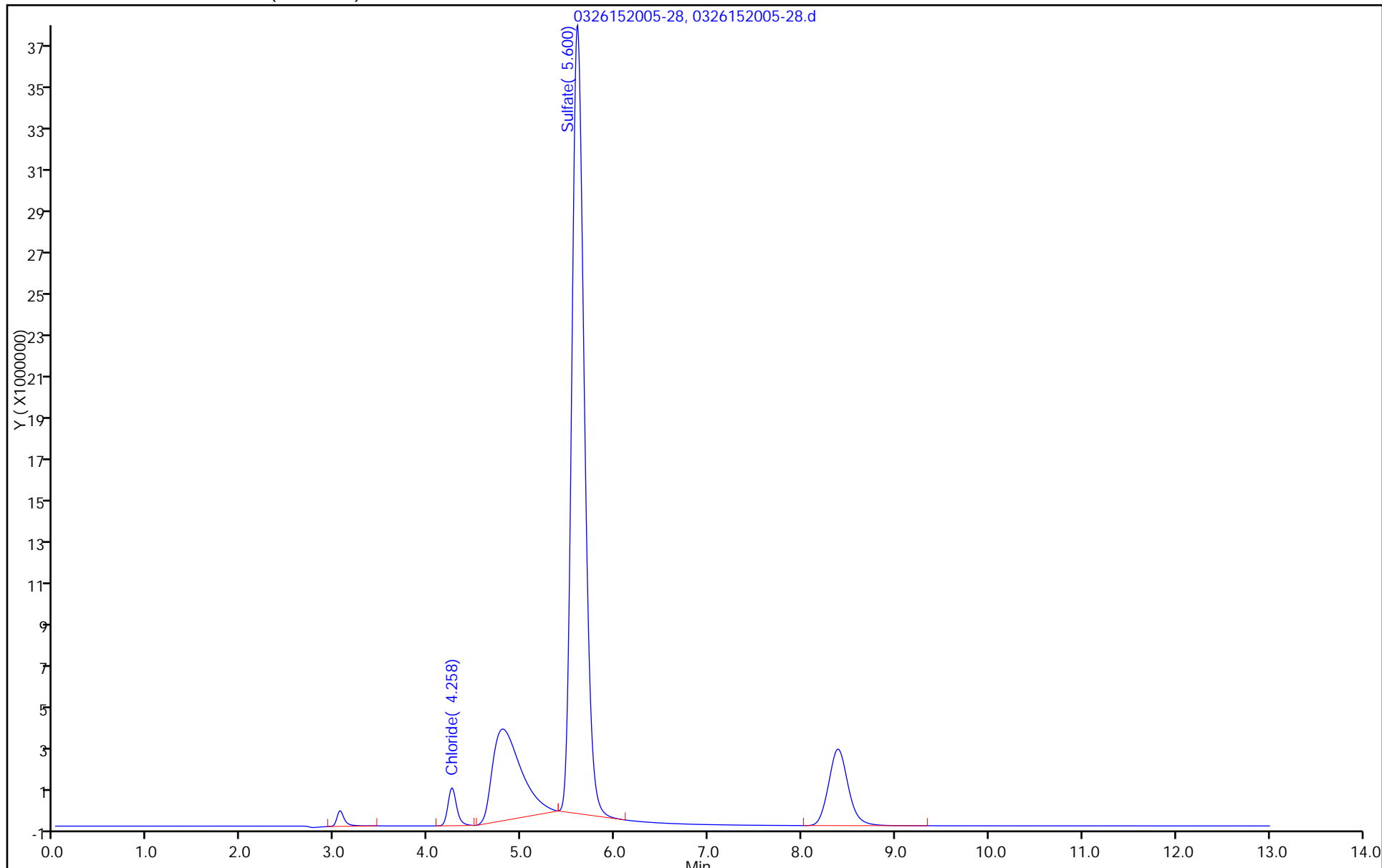
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



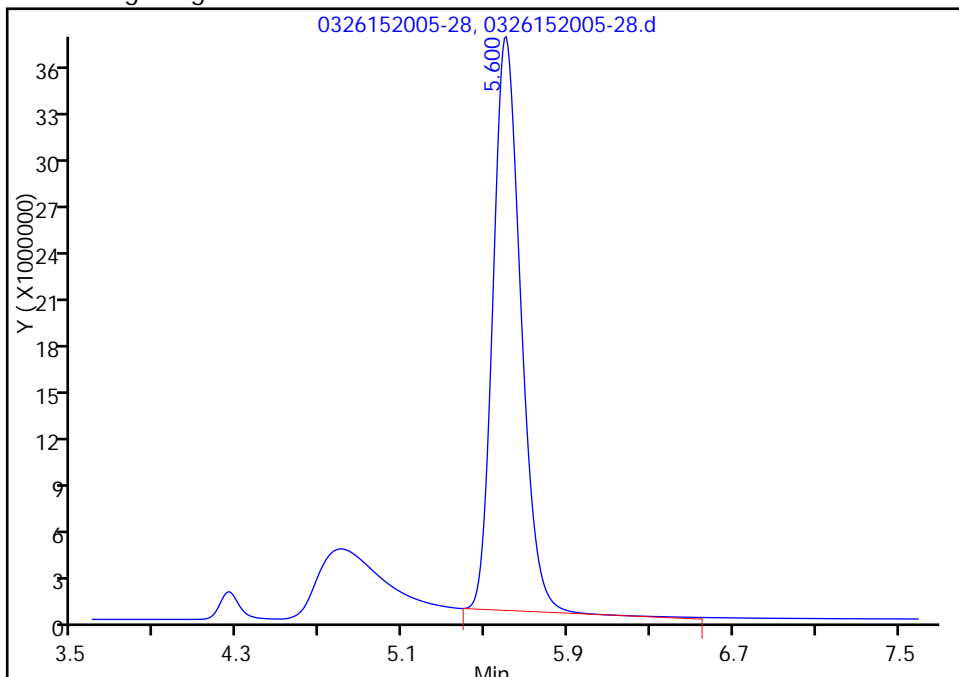
TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326152005-28.d
Injection Date: 26-Mar-2015 20:05:00 Instrument ID: CICH
Lims ID: 680-110788-B-1 Lab Sample ID: 680-110788-1
Client ID: 25LM20113
Operator ID: ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 25.0 ul Dil. Factor: 1.0000
Method: 300.0_9056A_CICH Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0118131406-12

3 Sulfate, CAS: 14808-79-8

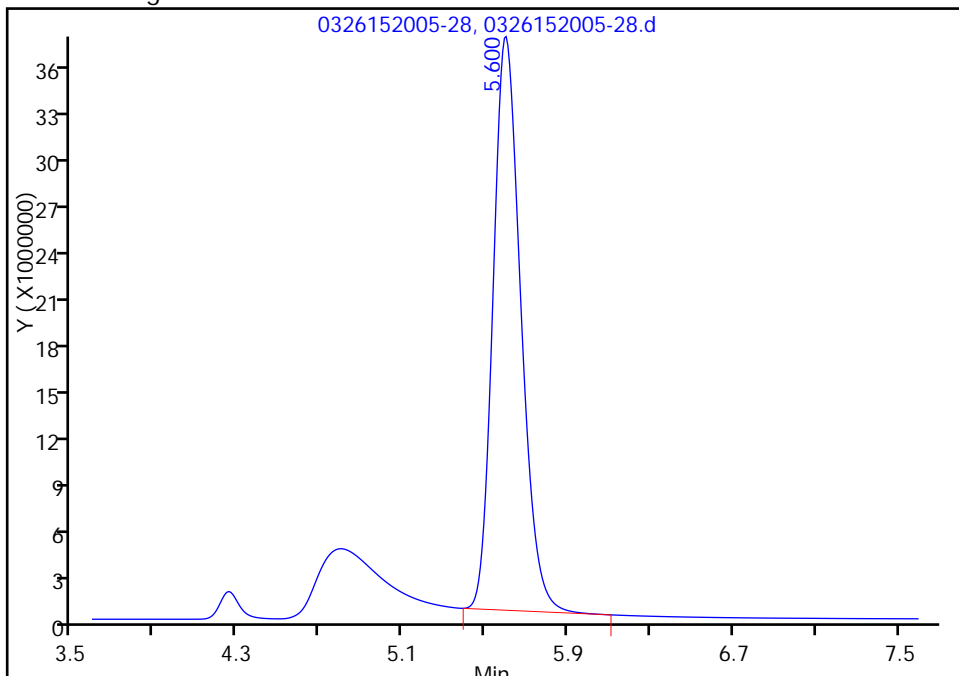
RT: 5.60
Area: 345656217
Amount: 24.025996
Amount Units: ug/ml

Processing Integration Results



RT: 5.60
Area: 344594750
Amount: 23.951334
Amount Units: ug/ml

Manual Integration Results



Reviewer: orra, 27-Mar-2015 09:02:57
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114 Lab Sample ID: 680-110788-2
 Matrix: Water Lab File ID: 0326152052-31.d
 Analysis Method: 300.0 Date Collected: 03/18/2015 12:15
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/26/2015 20:52
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376322 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.1		0.50	0.20

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152052-31.d
 Lims ID: 680-110788-B-2 Lab Sample ID: 680-110788-2
 Client ID: 25LM20114
 Sample Type: Client
 Inject. Date: 26-Mar-2015 20:52:00 ALS Bottle#: 0 Worklist Smp#: 28
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 680-110788-B-2 1H032615
 Misc. Info.: 12782
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:16 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

First Level Reviewer: orra Date: 27-Mar-2015 09:03:41

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	3.058	3.067	-0.009	2809156	0.1047	
2 Chloride	4.258	4.258	0.000	17707968	1.07	
3 Sulfate	5.550	5.608	-0.058	1011943697	70.9	EM

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326152052-31.d

Injection Date: 26-Mar-2015 20:52:00

Instrument ID: CICH

Operator ID:

Lims ID: 680-110788-B-2

Lab Sample ID: 680-110788-2

Worklist Smp#: 28

Client ID: 25LM20114

Injection Vol: 25.0 ul

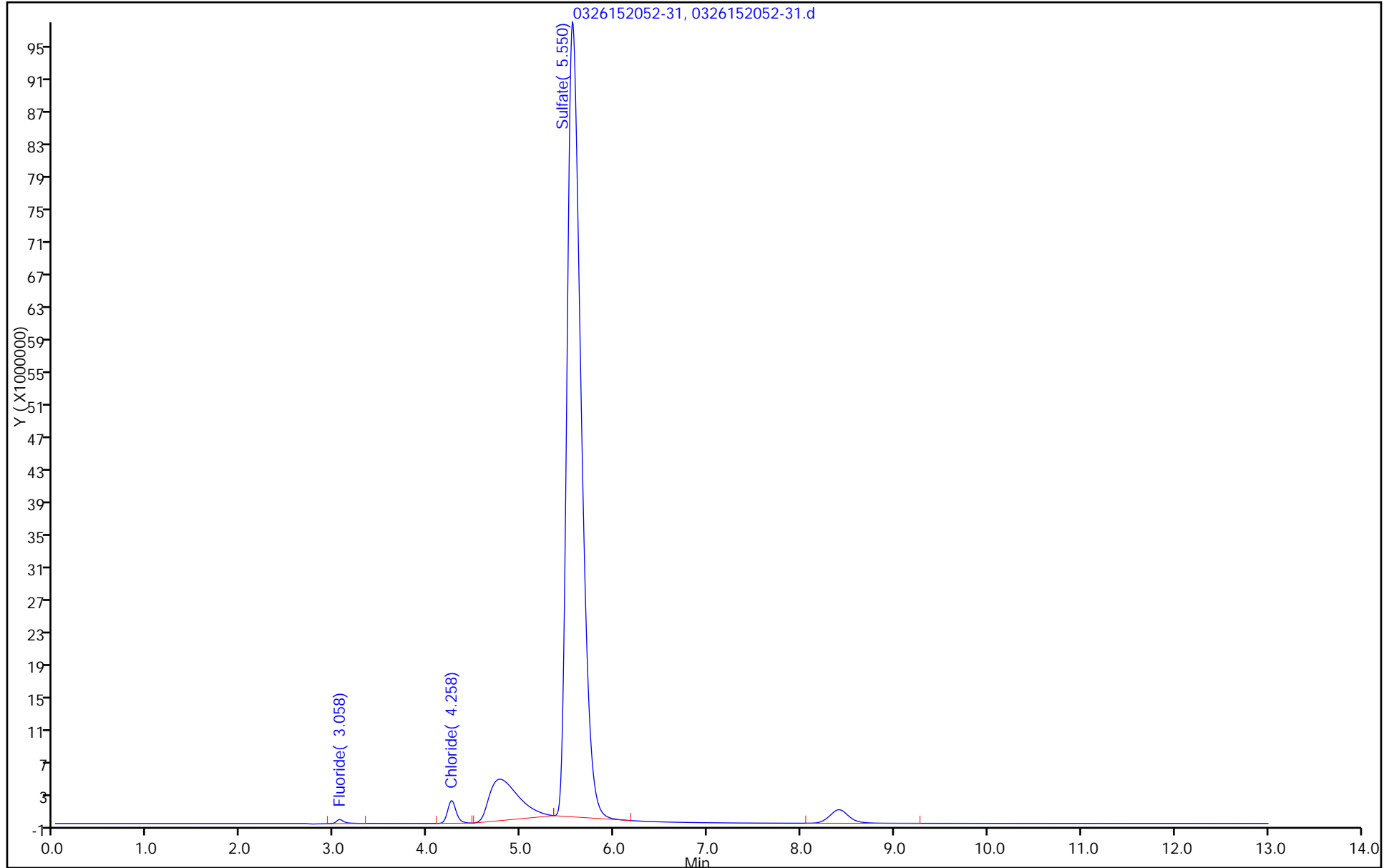
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114 Lab Sample ID: 680-110788-2
 Matrix: Water Lab File ID: 0327151313-12.d
 Analysis Method: 300.0 Date Collected: 03/18/2015 12:15
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 13:13
 Con. Extract Vol.: 5(mL) Dilution Factor: 2
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376449 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	70		2.0	0.80

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151313-12.d
 Lims ID: 680-110788-B-2 Lab Sample ID: 680-110788-2
 Client ID: 25LM20114
 Sample Type: Client
 Inject. Date: 27-Mar-2015 13:13:00 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 25.0 ul Dil. Factor: 2.0000
 Sample Info: 680-110788-B-2 1H032715
 Misc. Info.: 11761
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 30-Mar-2015 10:17:47 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK027

First Level Reviewer: orra Date: 27-Mar-2015 15:00:21

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	3.058	3.067	-0.009	1382502	0.0584	
2 Chloride	4.250	4.258	-0.008	8283353	0.5693	
3 Sulfate	5.617	5.600	0.017	502268755	35.0	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151313-12.d

Injection Date: 27-Mar-2015 13:13:00

Instrument ID: CICH

Operator ID:

Lims ID: 680-110788-B-2

Lab Sample ID: 680-110788-2

Worklist Smp#: 9

Client ID: 25LM20114

Injection Vol: 25.0 ul

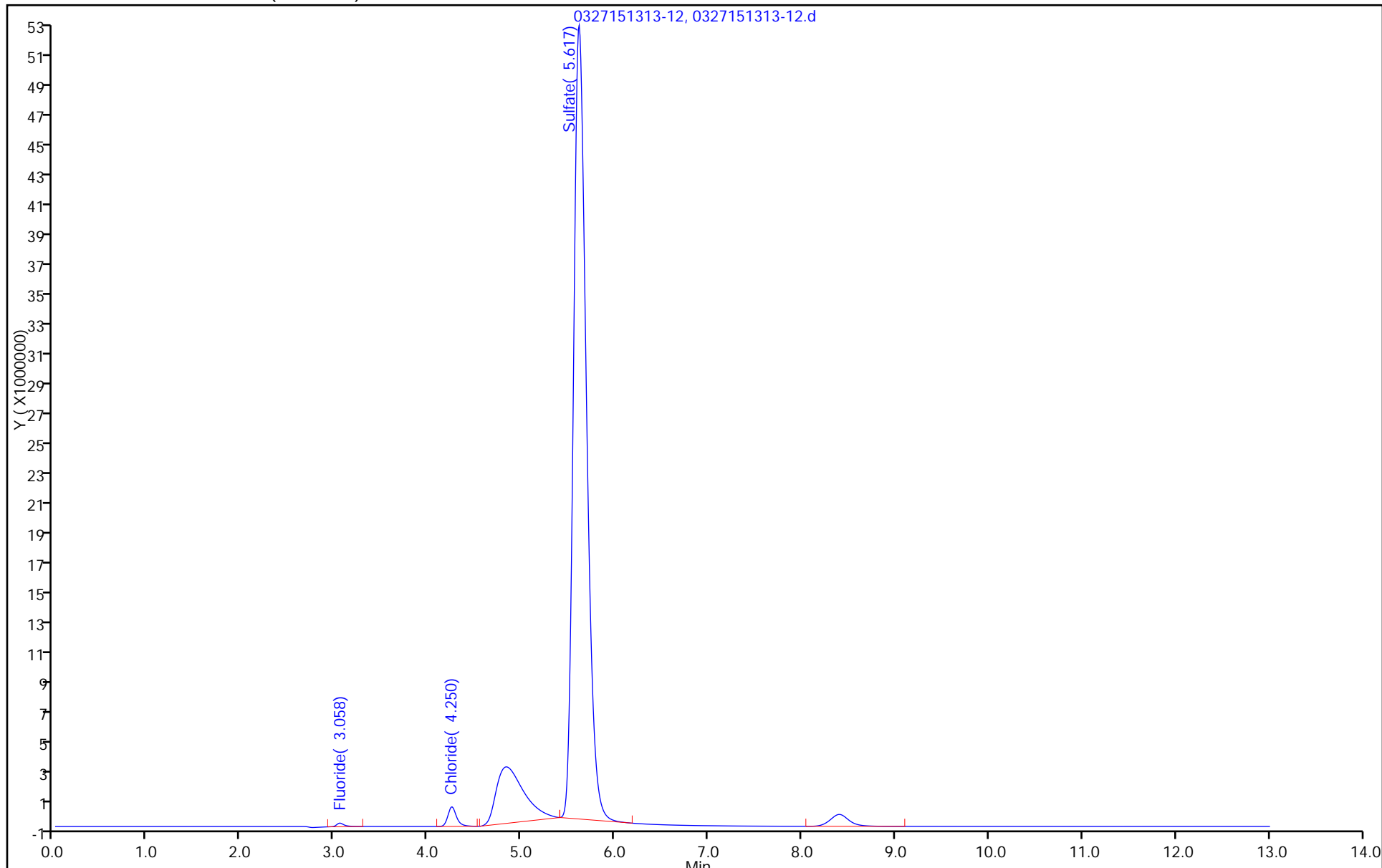
Dil. Factor: 2.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



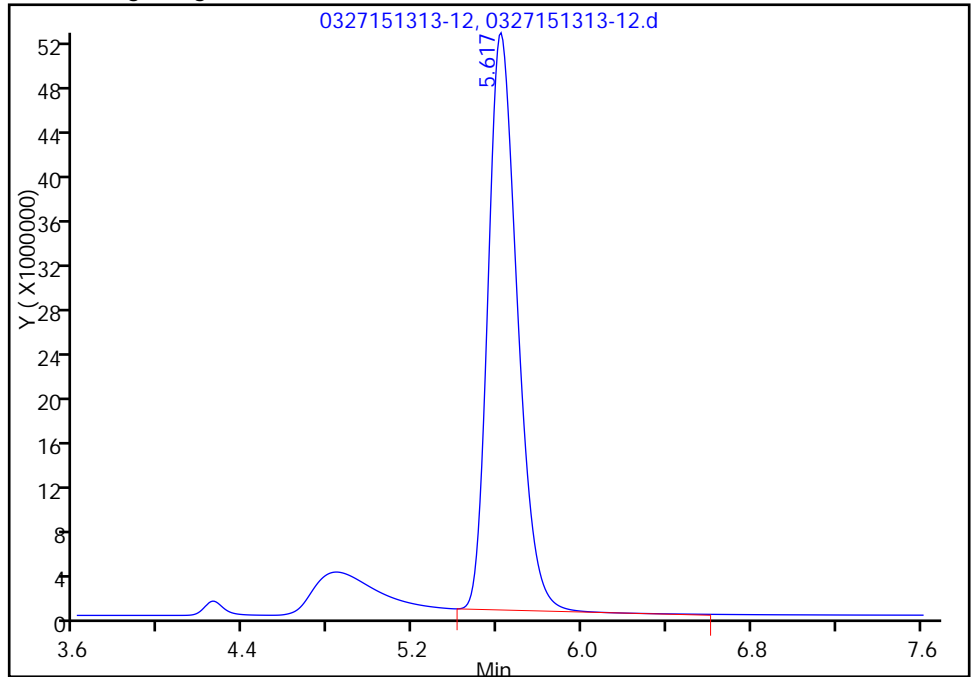
TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151313-12.d
Injection Date: 27-Mar-2015 13:13:00 Instrument ID: CICH
Lims ID: 680-110788-B-2 Lab Sample ID: 680-110788-2
Client ID: 25LM20114
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 25.0 ul Dil. Factor: 2.0000
Method: 300.0_9056A_CICH Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0118131406-12

3 Sulfate, CAS: 14808-79-8

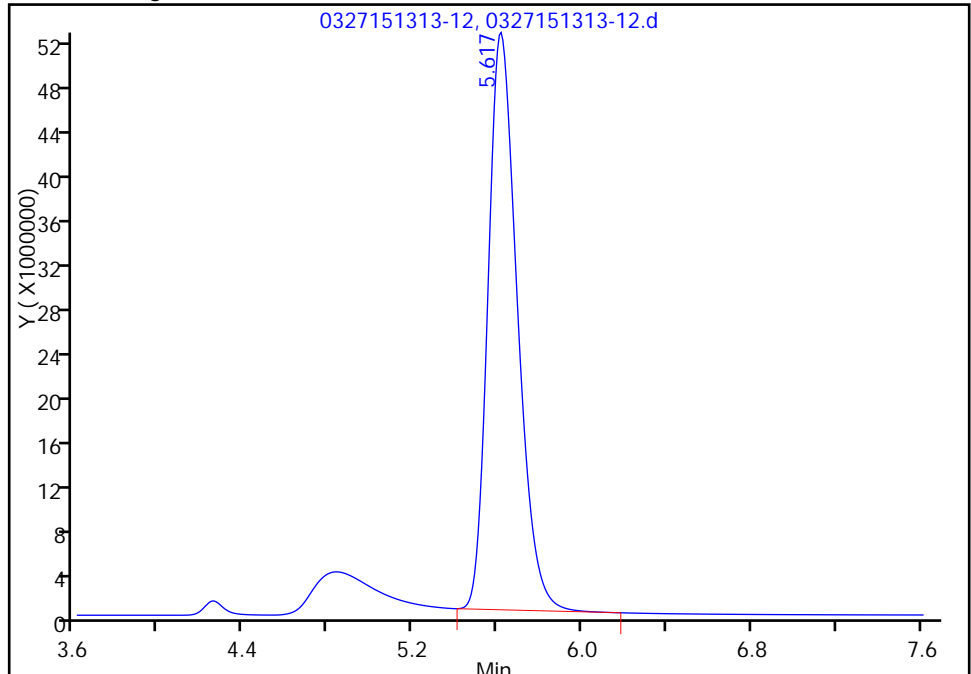
RT: 5.62
Area: 503129637
Amount: 35.102333
Amount Units: ug/ml

Processing Integration Results



RT: 5.62
Area: 502268755
Amount: 35.041780
Amount Units: ug/ml

Manual Integration Results



Reviewer: orra, 27-Mar-2015 15:00:21
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20115 Lab Sample ID: 680-110788-3
 Matrix: Water Lab File ID: 0326152138-34.d
 Analysis Method: 300.0 Date Collected: 03/18/2015 12:15
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/26/2015 21:38
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376322 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.1		0.50	0.20

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152138-34.d
 Lims ID: 680-110788-B-3 Lab Sample ID: 680-110788-3
 Client ID: 25LM20115
 Sample Type: Client
 Inject. Date: 26-Mar-2015 21:38:00 ALS Bottle#: 0 Worklist Smp#: 31
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 680-110788-B-3 1H032615
 Misc. Info.: 25883
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:16 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

First Level Reviewer: orra Date: 27-Mar-2015 09:05:55

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
----------	-----------	---------------	---------------	----------	-----------------	-------

2 Chloride	4.258	4.258	0.000	17634628	1.07	
3 Sulfate	5.550	5.608	-0.058	983333126	68.9	EM

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326152138-34.d

Injection Date: 26-Mar-2015 21:38:00

Instrument ID: CICH

Operator ID:

Lims ID: 680-110788-B-3

Lab Sample ID: 680-110788-3

Worklist Smp#: 31

Client ID: 25LM20115

Injection Vol: 25.0 ul

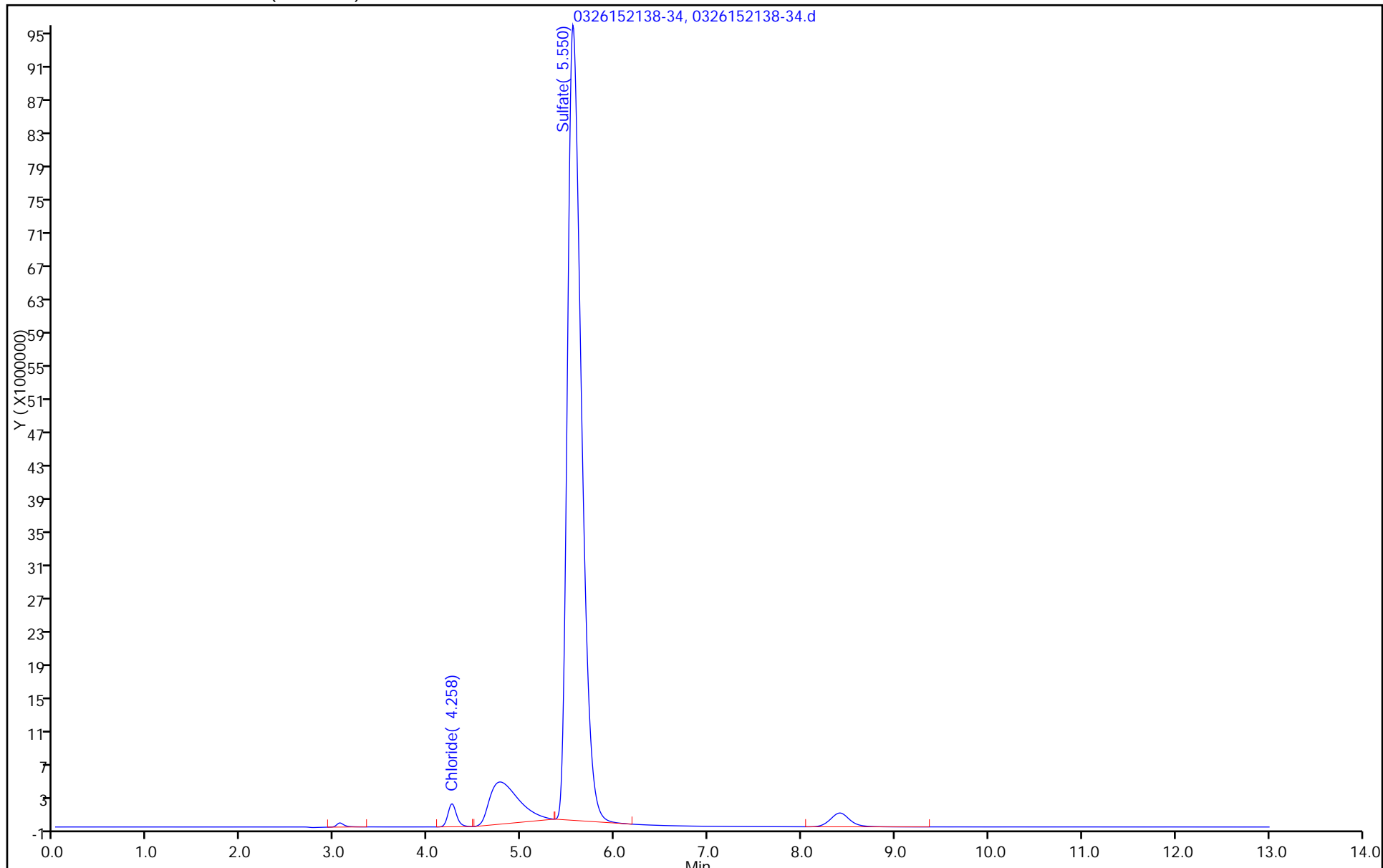
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20115 Lab Sample ID: 680-110788-3
 Matrix: Water Lab File ID: 0327151359-15.d
 Analysis Method: 300.0 Date Collected: 03/18/2015 12:15
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 13:59
 Con. Extract Vol.: 5(mL) Dilution Factor: 2
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376449 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	68		2.0	0.80

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151359-15.d
 Lims ID: 680-110788-B-3 Lab Sample ID: 680-110788-3
 Client ID: 25LM20115
 Sample Type: Client
 Inject. Date: 27-Mar-2015 13:59:00 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 25.0 ul Dil. Factor: 2.0000
 Sample Info: 680-110788-B-3 1H032715
 Misc. Info.: 14420
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 30-Mar-2015 10:17:47 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK027

First Level Reviewer: orra Date: 27-Mar-2015 15:01:24

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
2 Chloride	4.258	4.258	0.000	8269673	0.5685	
3 Sulfate	5.625	5.600	0.025	489678181	34.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151359-15.d

Injection Date: 27-Mar-2015 13:59:00

Instrument ID: CICH

Operator ID:

Lims ID: 680-110788-B-3

Lab Sample ID: 680-110788-3

Worklist Smp#: 12

Client ID: 25LM20115

Injection Vol: 25.0 ul

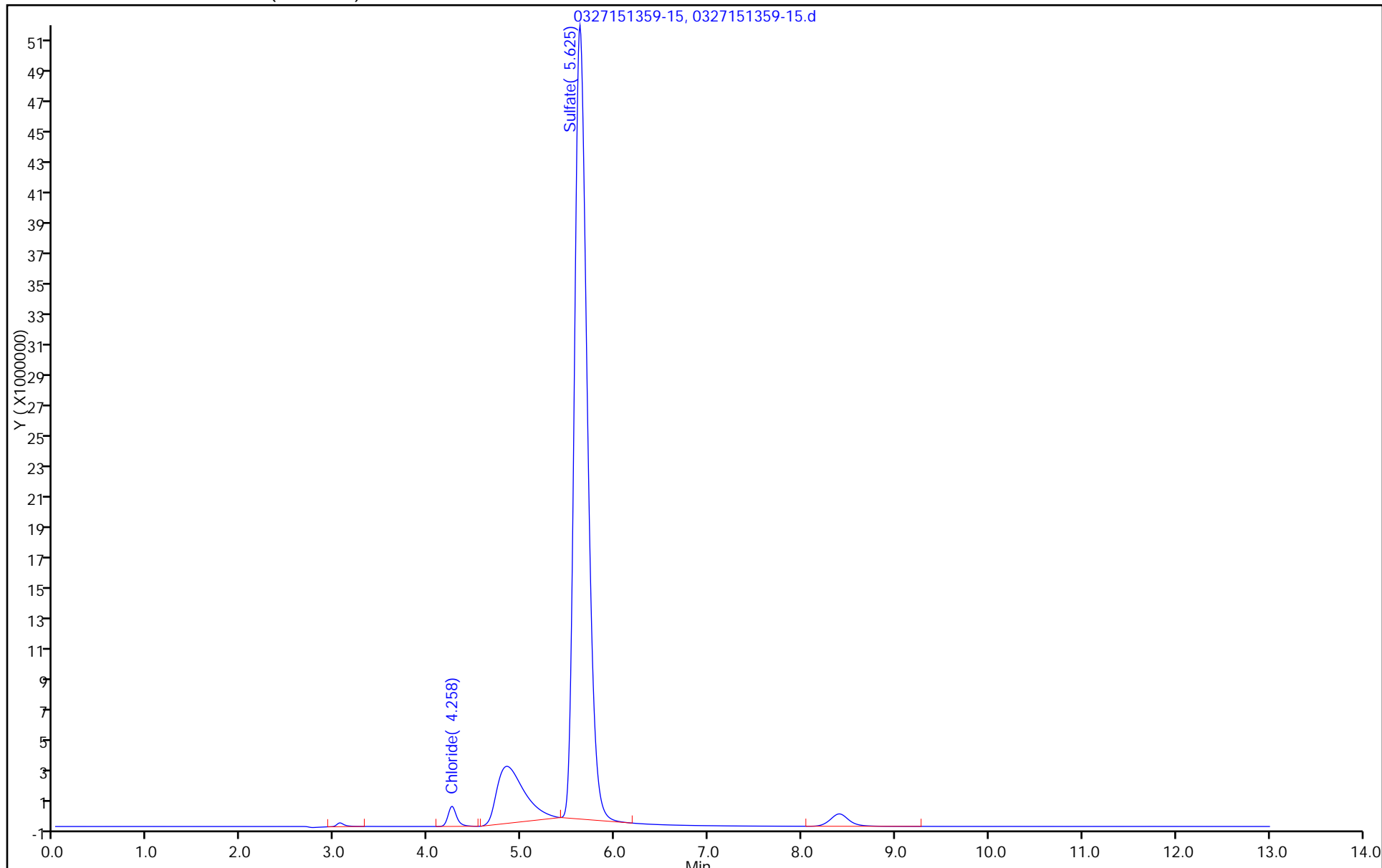
Dil. Factor: 2.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



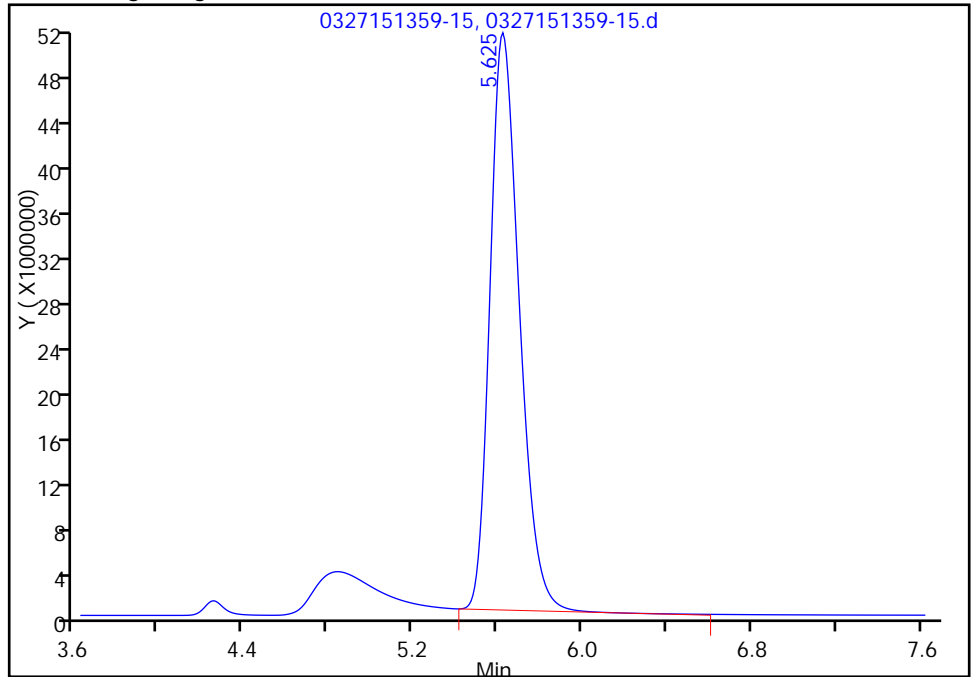
TestAmerica Savannah

Data File: \\ChromNAI\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151359-15.d
Injection Date: 27-Mar-2015 13:59:00 Instrument ID: CICH
Lims ID: 680-110788-B-3 Lab Sample ID: 680-110788-3
Client ID: 25LM20115
Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 25.0 ul Dil. Factor: 2.0000
Method: 300.0_9056A_CICH Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0118131406-12

3 Sulfate, CAS: 14808-79-8

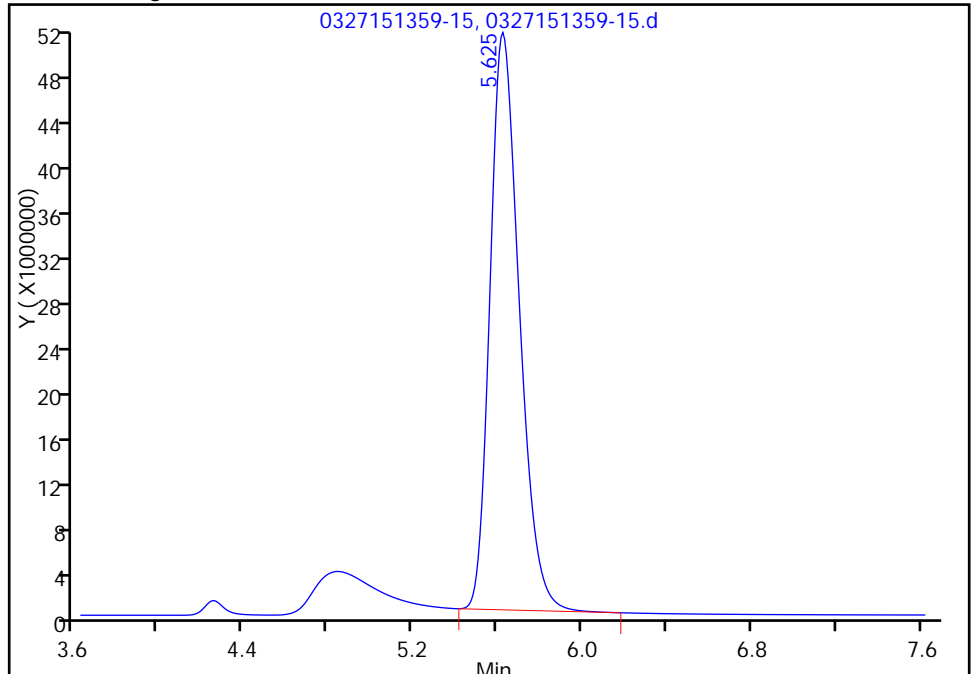
RT: 5.63
Area: 490384647
Amount: 34.205878
Amount Units: ug/ml

Processing Integration Results



RT: 5.63
Area: 489678181
Amount: 34.156187
Amount Units: ug/ml

Manual Integration Results



Reviewer: orra, 27-Mar-2015 15:01:24
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM00112 Lab Sample ID: 680-110788-4
 Matrix: Water Lab File ID: 0326152153-35.d
 Analysis Method: 300.0 Date Collected: 03/18/2015 14:30
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/26/2015 21:53
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376322 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	0.26	J	0.50	0.20
14808-79-8	Sulfate	ND		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152153-35.d
 Lims ID: 680-110788-B-4 Lab Sample ID: 680-110788-4
 Client ID: 25LM00112
 Sample Type: Client
 Inject. Date: 26-Mar-2015 21:53:00 ALS Bottle#: 0 Worklist Smp#: 32
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 680-110788-B-4 1H032615
 Misc. Info.: 4623
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:16 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

First Level Reviewer: orra Date: 27-Mar-2015 09:06:12

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
2 Chloride	4.258	4.258	0.000	2484220	0.2592	

TestAmerica Savannah

Data File: \\ChromNAI\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152153-35.d

Injection Date: 26-Mar-2015 21:53:00

Instrument ID: CICH

Operator ID:

Lims ID: 680-110788-B-4

Lab Sample ID: 680-110788-4

Worklist Smp#: 32

Client ID: 25LM00112

Injection Vol: 25.0 ul

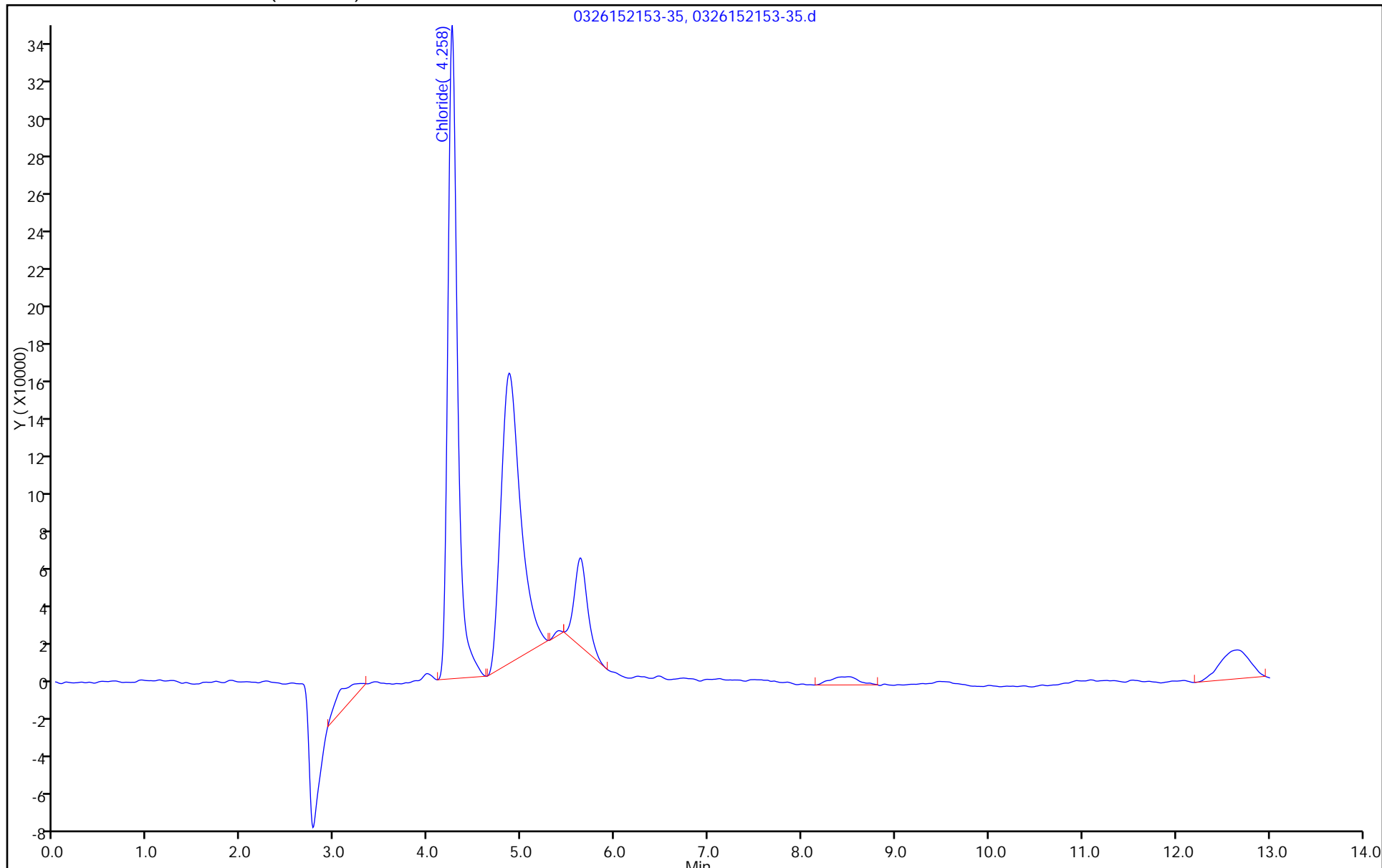
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 373322

SDG No.: _____

Instrument ID: CICH GC Column: Dionex AS18 ID: 4 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2015 15:33 Calibration End Date: 03/04/2015 17:05 Calibration ID: 37968

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-373322/1	0304151533-4.d
Level 2	IC 680-373322/2	0304151548-5.d
Level 3	IC 680-373322/3	0304151604-6.d
Level 4	IC 680-373322/4	0304151619-7.d
Level 5	IC 680-373322/5	0304151634-8.d
Level 6	IC 680-373322/6	0304151650-9.d
Level 7	IC 680-373322/7	0304151705-10.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Fluoride	3.067	3.067	3.067	3.067	3.067	3.067	3.075				2.817 - 3.317	3.068
Chloride	4.275	4.275	4.275	4.275	4.267	4.267	4.267				4.025 - 4.525	4.272
Sulfate	5.708	5.708	5.700	5.692	5.675	5.650	5.633				5.442 - 5.942	5.681
Bromide	7.108	7.108	7.100	7.092	7.083	7.067	7.017				6.842 - 7.342	7.082

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 373322

SDG No.: _____

Instrument ID: CICH GC Column: Dionex AS18 ID: 4 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2015 15:33 Calibration End Date: 03/04/2015 17:05 Calibration ID: 37968

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-373322/1	0304151533-4.d
Level 2	IC 680-373322/2	0304151548-5.d
Level 3	IC 680-373322/3	0304151604-6.d
Level 4	IC 680-373322/4	0304151619-7.d
Level 5	IC 680-373322/5	0304151634-8.d
Level 6	IC 680-373322/6	0304151650-9.d
Level 7	IC 680-373322/7	0304151705-10.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Fluoride	27184170 30910951	27146315 31513870	29644264 30220798	31112069	Lin1	-416920.53	30800258.8							1.0000		0.9900
Chloride	14483164 18887090	15530275 18788135	17185375 19100499	18030009	Lin2	-2363335.8	18702046.1							0.9990		0.9900
Sulfate	18214269 14575405	15813250 14238999	14873662 14302826	14704667	Lin	4076177.17	14217102.3							1.0000		0.9900
Bromide	5499414 7650973	5779960 7923668	6437832 8264740	7052741	Lin2	-1284703.4	7636094.03							0.9930		0.9900

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-110788-1 Analy Batch No.: 373322

SDG No.: _____

Instrument ID: CICH GC Column: Dionex AS18 ID: 4 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2015 15:33 Calibration End Date: 03/04/2015 17:05 Calibration ID: 37968

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-373322/1	0304151533-4.d
Level 2	IC 680-373322/2	0304151548-5.d
Level 3	IC 680-373322/3	0304151604-6.d
Level 4	IC 680-373322/4	0304151619-7.d
Level 5	IC 680-373322/5	0304151634-8.d
Level 6	IC 680-373322/6	0304151650-9.d
Level 7	IC 680-373322/7	0304151705-10.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7				LVL 6	LVL 7			
Fluoride	Lin1	2718417	5429263	14822132	31112069	61821902	0.100	0.200	0.500	1.00	2.00
		126055480	241766383				4.00	8.00			
Chloride	Lin2	7241582	15530275	42963437	90150044	188870903	0.500	1.00	2.50	5.00	10.0
		375762696	955024945				20.0	50.0			
Sulfate	Lin	18214269	31626500	74368309	147046668	291508108	1.00	2.00	5.00	10.0	20.0
		569559968	858169542				40.0	60.0			
Bromide	Lin2	2749707	5779960	16094580	35263703	76509725	0.500	1.00	2.50	5.00	10.0
		158473358	413236978				20.0	50.0			

Curve Type Legend:

Lin = Linear
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151533-4.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 04-Mar-2015 15:33:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: DI 1H030415
 Misc. Info.: 4 3931316
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\SAVCHROM\ChromData\CICH\20150304-17578.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 05-Mar-2015 08:53:23 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK009

First Level Reviewer: orra Date: 05-Mar-2015 08:50:46

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	2718417	0.1000	0.1018	
2 Chloride	4.275	4.275	0.000	7241582	0.5000	0.5136	M
3 Sulfate	5.708	5.692	0.016	18214269	1.00	0.99	
4 Bromide	7.108	7.092	0.016	2749707	0.5000	0.5283	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Anion-1_00133 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151533-4.d

Injection Date: 04-Mar-2015 15:33:00

Instrument ID: CICH

Operator ID:

Lims ID: IC

Worklist Smp#: 1

Client ID:

Injection Vol: 25.0 ul

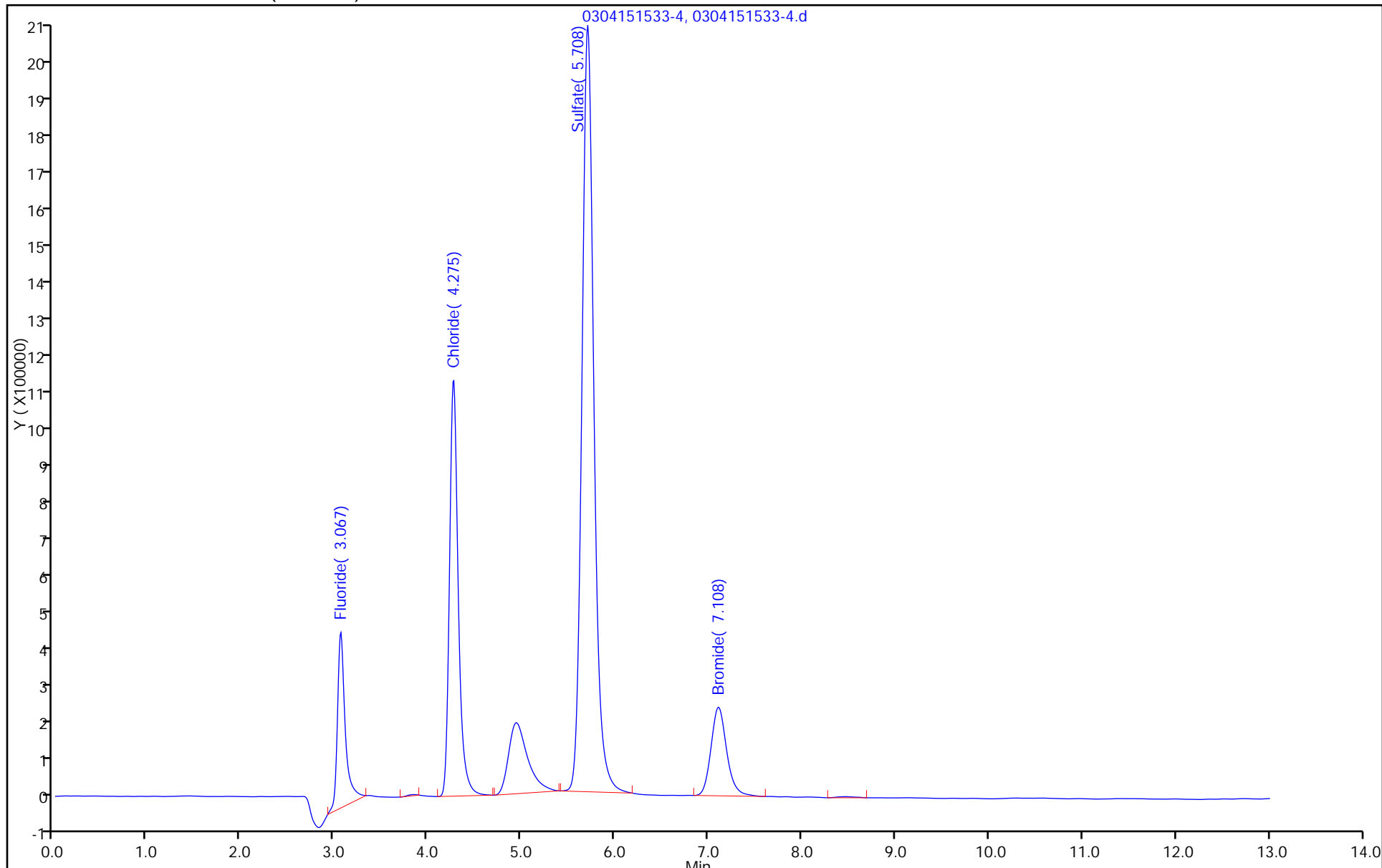
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



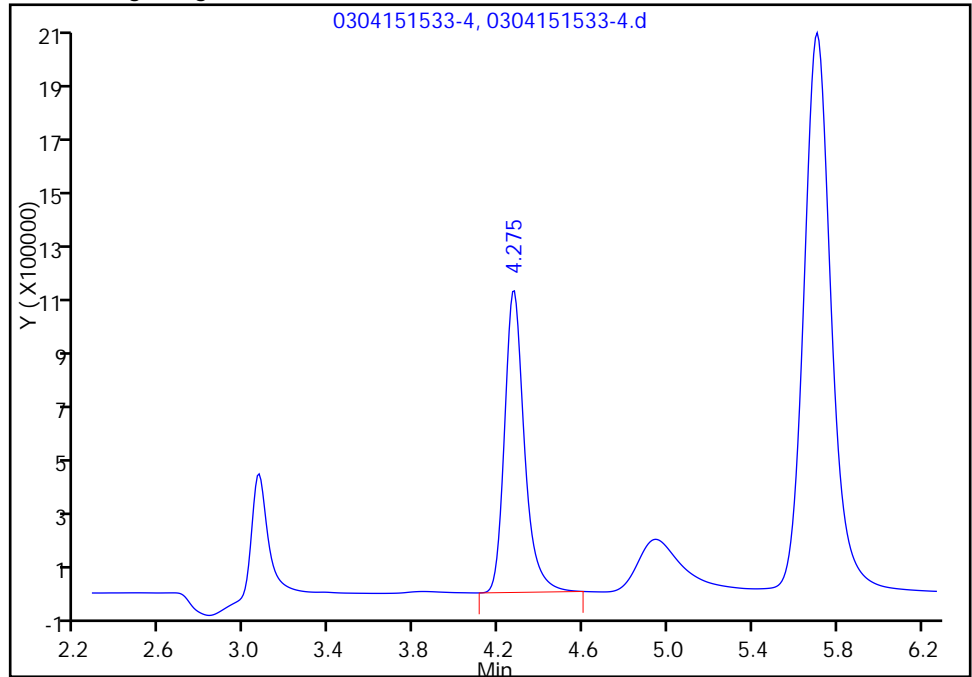
TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151533-4.d
Injection Date: 04-Mar-2015 15:33:00 Instrument ID: CICH
Lims ID: IC
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 25.0 ul Dil. Factor: 1.0000
Method: 300.0_9056A_CICH Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0118131406-12

2 Chloride, CAS: 16887-00-6

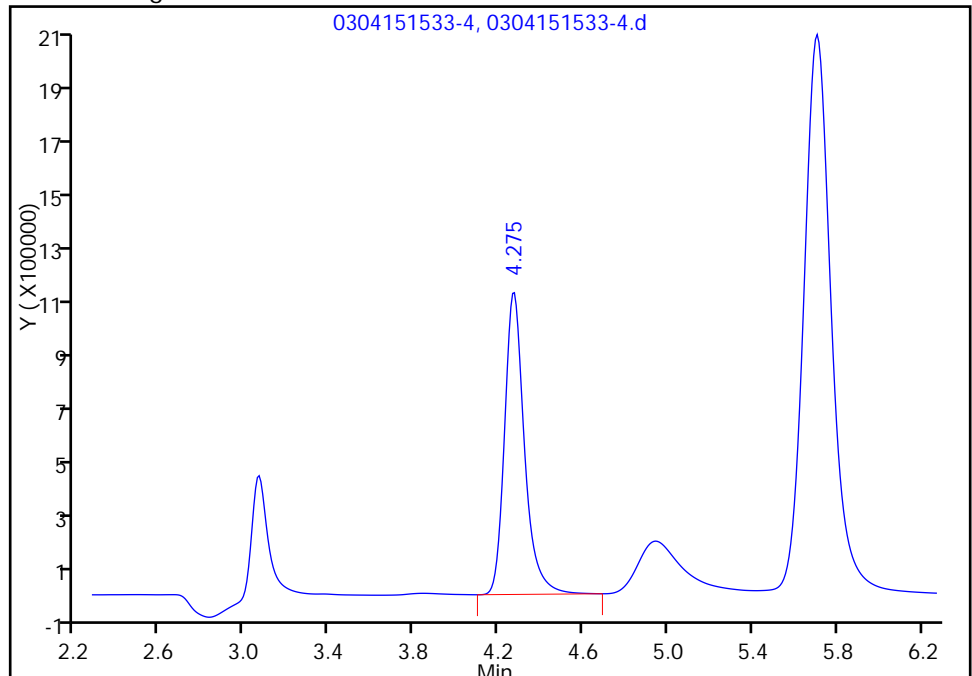
RT: 4.28
Area: 7204924
Amount: 0.513437
Amount Units: ug/ml

Processing Integration Results



RT: 4.28
Area: 7241582
Amount: 0.513576
Amount Units: ug/ml

Manual Integration Results



Reviewer: orra, 05-Mar-2015 08:50:46
Audit Action: Manually Integrated
Audit Reason: Baseline

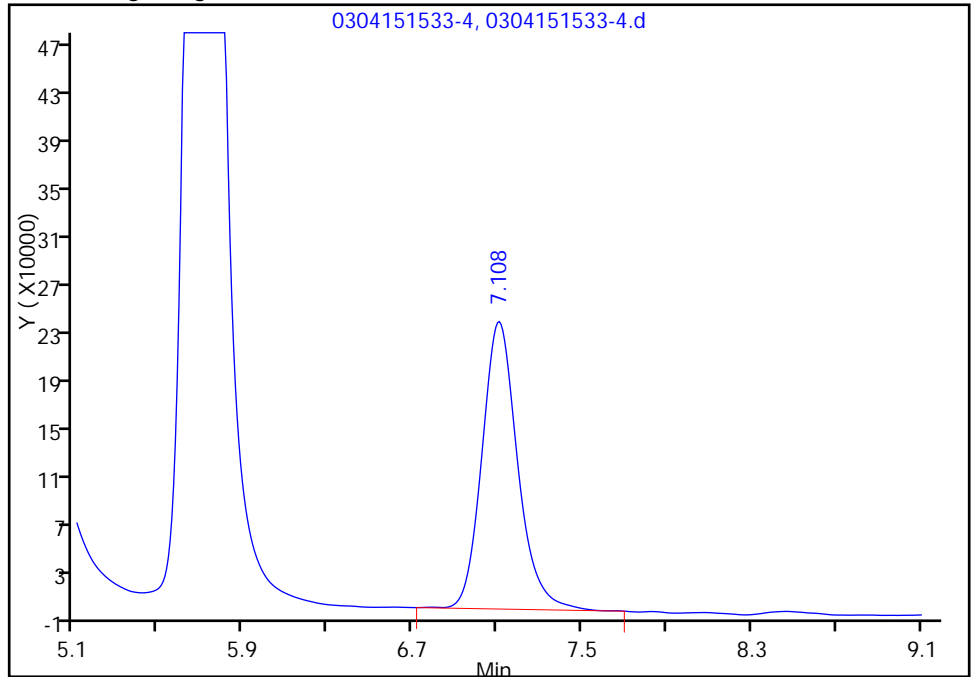
TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151533-4.d
Injection Date: 04-Mar-2015 15:33:00 Instrument ID: CICH
Lims ID: IC
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 25.0 ul Dil. Factor: 1.0000
Method: 300.0_9056A_CICH Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0118131406-12

4 Bromide, CAS: 24959-67-9

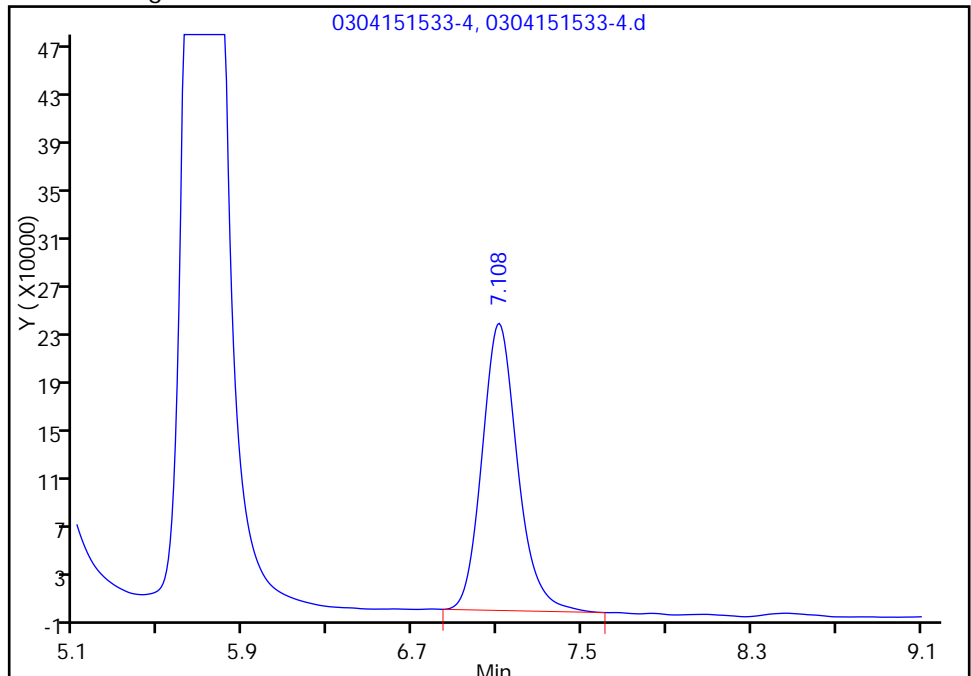
RT: 7.11
Area: 2765148
Amount: 0.528723
Amount Units: ug/ml

Processing Integration Results



RT: 7.11
Area: 2749707
Amount: 0.528334
Amount Units: ug/ml

Manual Integration Results



Reviewer: orra, 05-Mar-2015 08:50:46
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151548-5.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 04-Mar-2015 15:48:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-2 1H030415
 Misc. Info.: 22084 3931320
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\SAVCHROM\ChromData\CICH\20150304-17578.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 05-Mar-2015 08:53:23 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK009

First Level Reviewer: orra Date: 05-Mar-2015 08:51:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	5429263	0.2000	0.1898	
2 Chloride	4.275	4.275	0.000	15530275	1.00	0.9568	M
3 Sulfate	5.708	5.692	0.016	31626500	2.00	1.94	
4 Bromide	7.108	7.092	0.016	5779960	1.00	0.9252	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Anion-2_00086 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151548-5.d

Injection Date: 04-Mar-2015 15:48:00

Instrument ID: CICH

Operator ID:

Lims ID: IC

Worklist Smp#: 2

Client ID:

Injection Vol: 25.0 ul

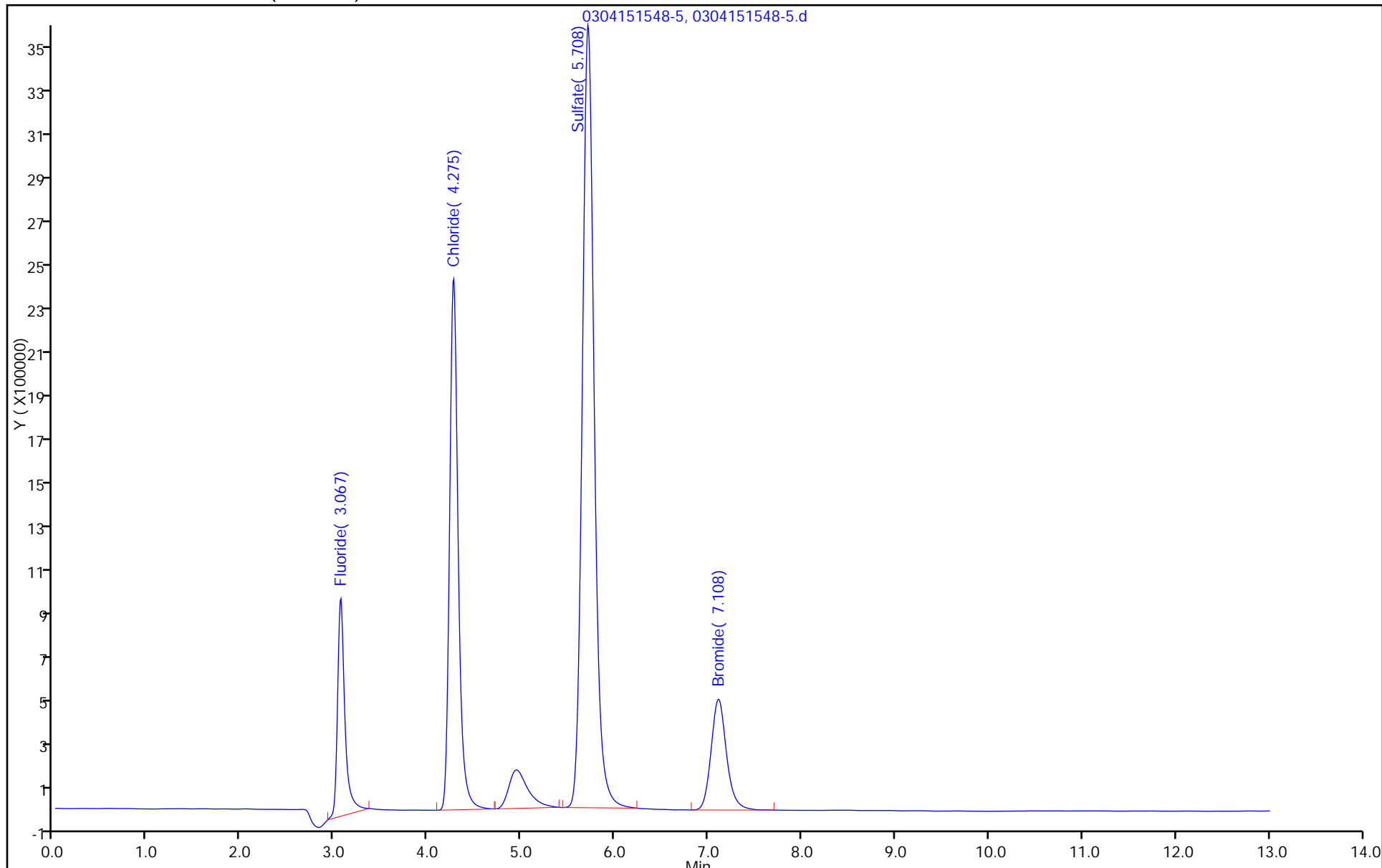
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



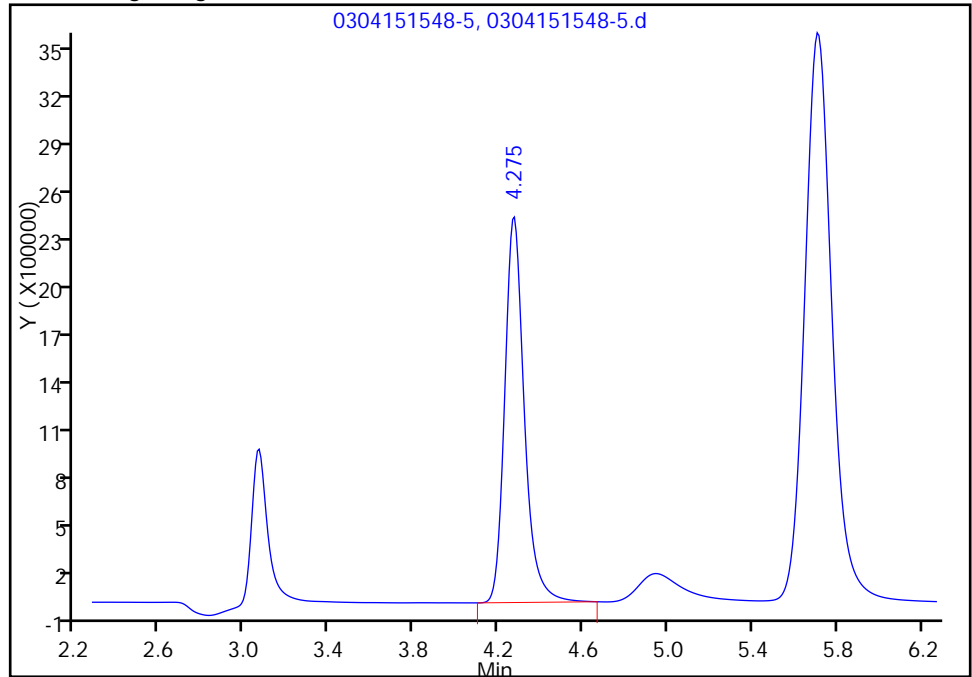
TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151548-5.d
Injection Date: 04-Mar-2015 15:48:00 Instrument ID: CICH
Lims ID: IC
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 25.0 ul Dil. Factor: 1.0000
Method: 300.0_9056A_CICH Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0118131406-12

2 Chloride, CAS: 16887-00-6

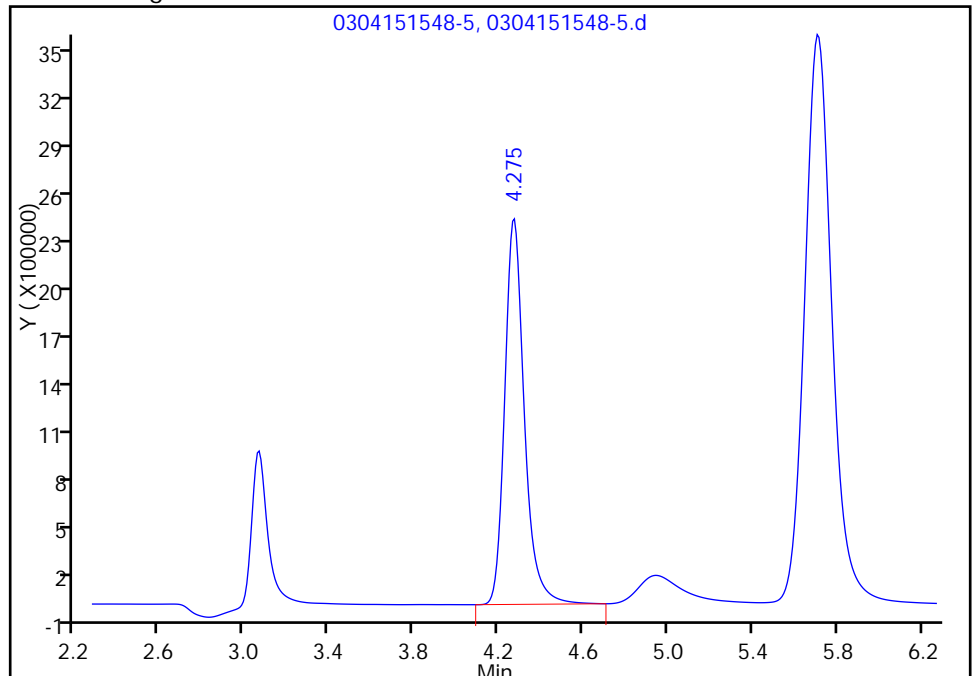
RT: 4.28
Area: 15505999
Amount: 0.955743
Amount Units: ug/ml

Processing Integration Results



RT: 4.28
Area: 15530275
Amount: 0.956773
Amount Units: ug/ml

Manual Integration Results



Reviewer: orra, 05-Mar-2015 08:51:22
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151604-6.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 04-Mar-2015 16:04:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-3 1H030415
 Misc. Info.: 24162 3931394
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\SAVCHROM\ChromData\CICH\20150304-17578.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 05-Mar-2015 08:53:24 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK009

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	14822132	0.5000	0.4948	
2 Chloride	4.275	4.275	0.000	42963437	2.50	2.42	
3 Sulfate	5.700	5.692	0.008	74368309	5.00	4.94	
4 Bromide	7.100	7.092	0.008	16094580	2.50	2.28	

Reagents:

Anion-3_00080 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151604-6.d

Injection Date: 04-Mar-2015 16:04:00

Instrument ID: CICH

Operator ID:

Lims ID: IC

Worklist Smp#: 3

Client ID:

Injection Vol: 25.0 ul

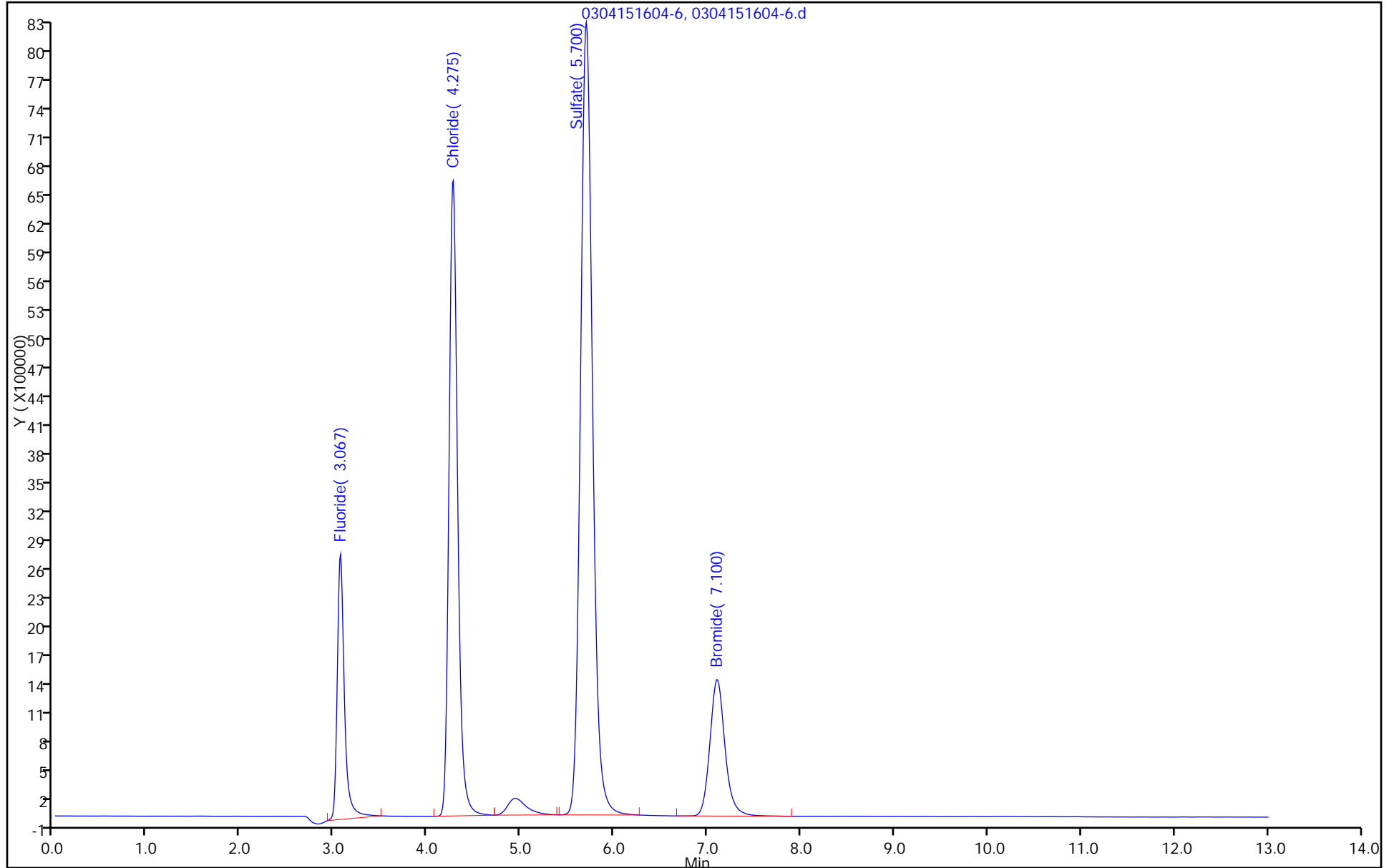
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151619-7.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 04-Mar-2015 16:19:00 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-4 1H030415
 Misc. Info.: 1448 3931406
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\SAVCHROM\ChromData\CICH\20150304-17578.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 05-Mar-2015 08:53:24 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK009

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	31112069	1.00	1.02	
2 Chloride	4.275	4.275	0.000	90150044	5.00	4.95	
3 Sulfate	5.692	5.692	0.000	147046668	10.0	10.1	
4 Bromide	7.092	7.092	0.000	35263703	5.00	4.79	

Reagents:

Anion-4_00159 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151619-7.d

Injection Date: 04-Mar-2015 16:19:00

Instrument ID: CICH

Operator ID:

Lims ID: IC

Worklist Smp#: 4

Client ID:

Injection Vol: 25.0 ul

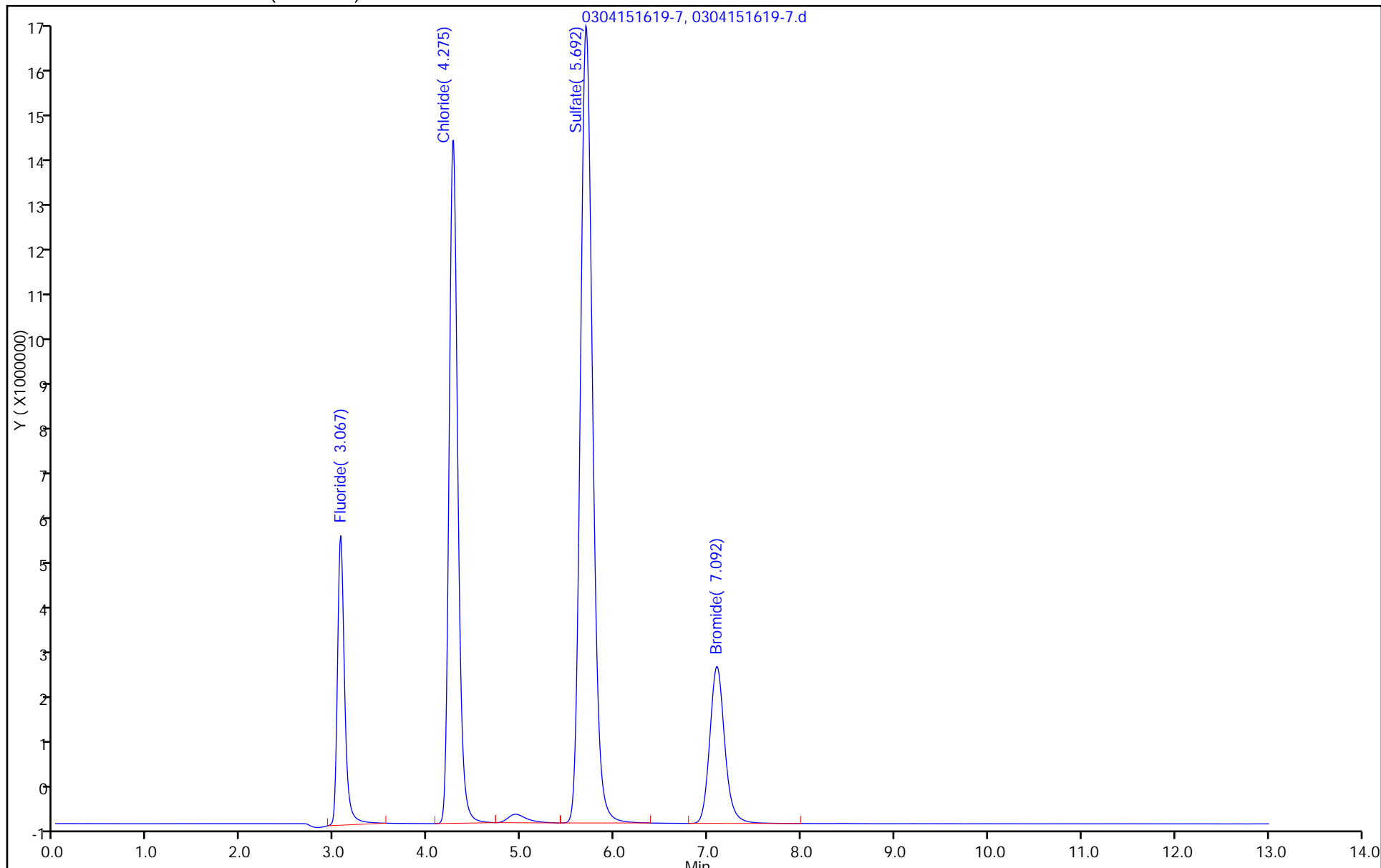
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151634-8.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 04-Mar-2015 16:34:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-5 1H030415
 Misc. Info.: 26084 3946449
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\SAVCHROM\ChromData\CICH\20150304-17578.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 05-Mar-2015 08:53:24 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK009

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	61821902	2.00	2.02	
2 Chloride	4.267	4.275	-0.008	188870903	10.0	10.2	
3 Sulfate	5.675	5.692	-0.017	291508108	20.0	20.2	
4 Bromide	7.083	7.092	-0.009	76509725	10.0	10.2	

Reagents:

Anion-5_00127 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151634-8.d

Injection Date: 04-Mar-2015 16:34:00

Instrument ID: CICH

Operator ID:

Lims ID: IC

Worklist Smp#: 5

Client ID:

Injection Vol: 25.0 ul

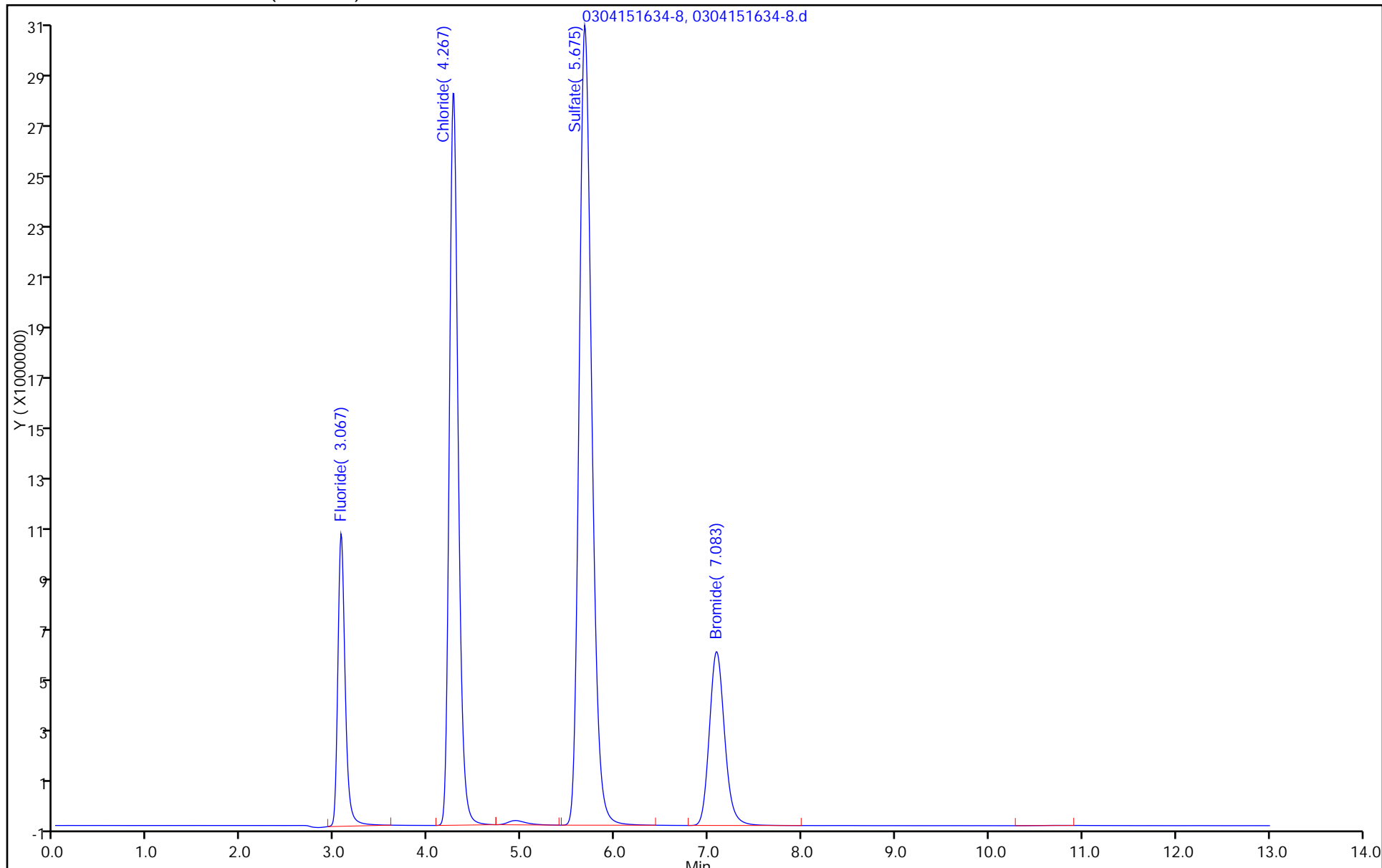
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151650-9.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 04-Mar-2015 16:50:00 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-6 1H030415
 Misc. Info.: 17461 3931413
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\SAVCHROM\ChromData\CICH\20150304-17578.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 05-Mar-2015 10:08:04 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK009

First Level Reviewer: orra Date: 05-Mar-2015 10:08:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	126055480	4.00	4.11	
2 Chloride	4.267	4.275	-0.008	375762696	20.0	20.2	
3 Sulfate	5.650	5.692	-0.042	569559968	40.0	39.8	
4 Bromide	7.067	7.092	-0.025	158473358	20.0	20.9	

Reagents:

Anion-6_00081 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151650-9.d

Injection Date: 04-Mar-2015 16:50:00

Instrument ID: CICH

Operator ID:

Lims ID: IC

Worklist Smp#: 6

Client ID:

Injection Vol: 25.0 ul

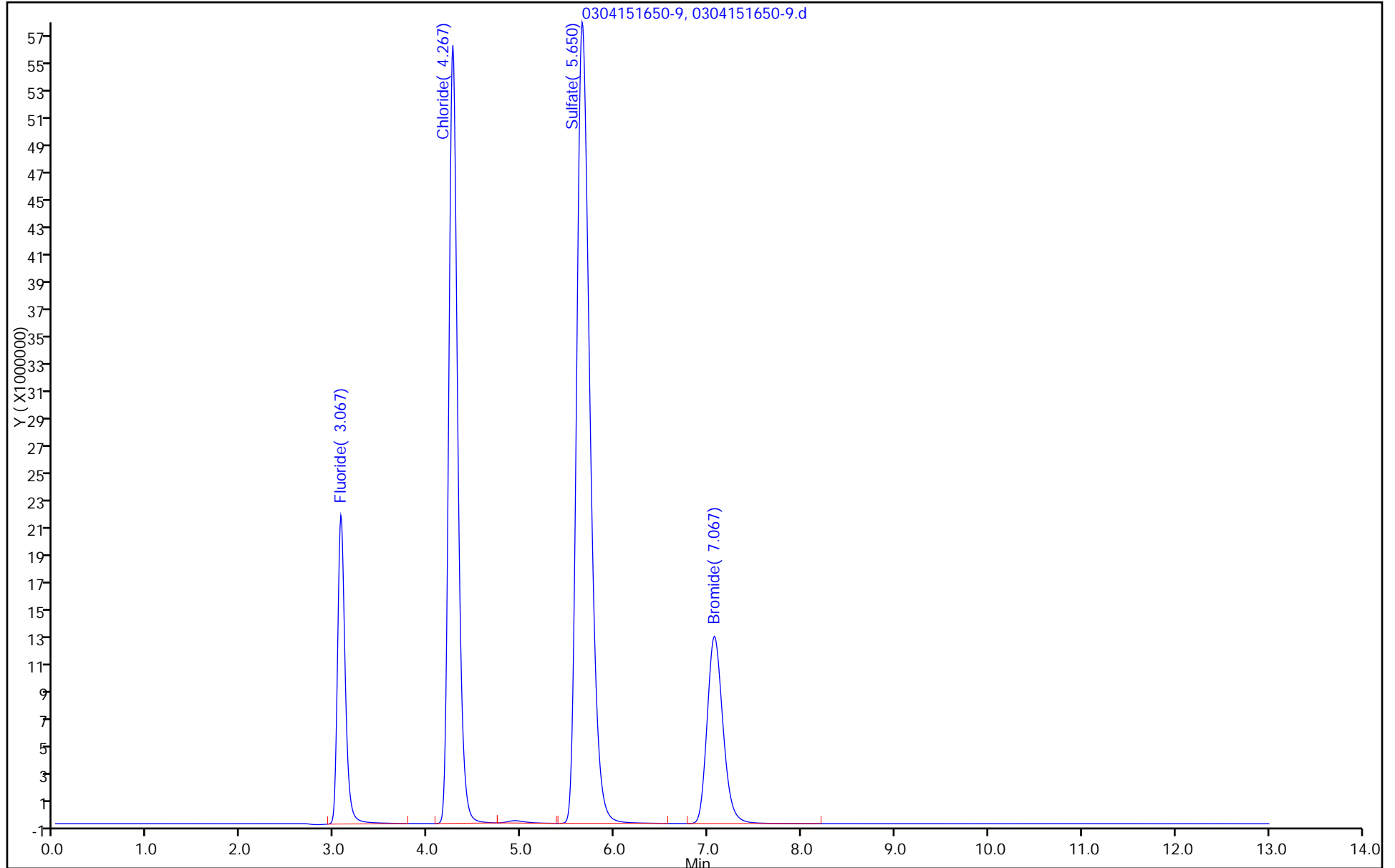
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 04-Mar-2015 17:05:00 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-7 1H030415
 Misc. Info.: 26789 3931424
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\SAVCHROM\ChromData\CICH\20150304-17578.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 05-Mar-2015 08:53:25 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK009

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.075	3.067	0.008	241766383	8.00	7.86	
2 Chloride	4.267	4.275	-0.008	955024945	50.0	51.2	
3 Sulfate	5.633	5.692	-0.059	858169542	60.0	60.1	
4 Bromide	7.017	7.092	-0.075	413236978	50.0	54.3	

Reagents:

Anion-7_00021 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151705-10.d

Injection Date: 04-Mar-2015 17:05:00

Instrument ID: CICH

Operator ID:

Lims ID: IC

Worklist Smp#: 7

Client ID:

Injection Vol: 25.0 ul

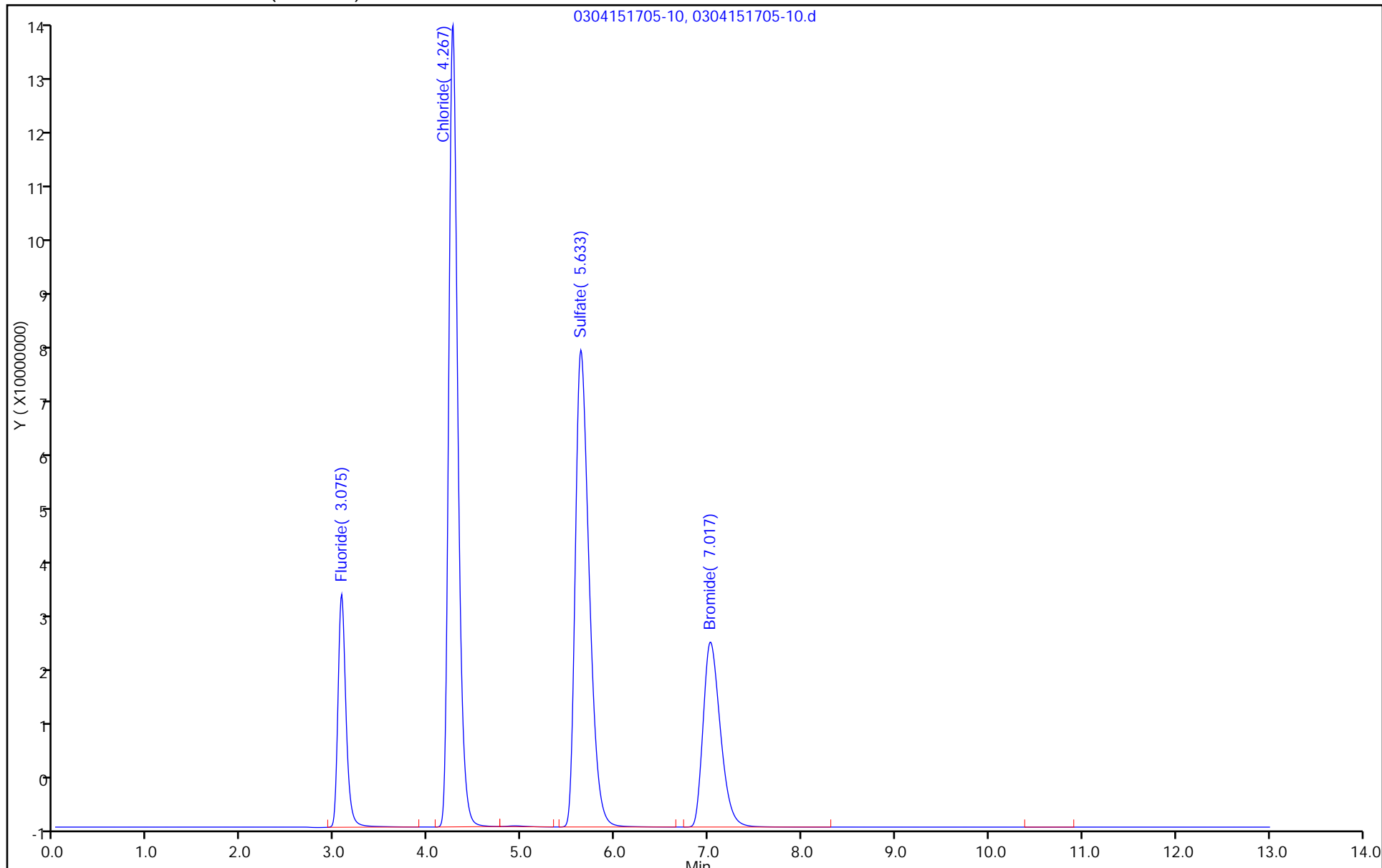
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: ICV 680-373322/9 Calibration Date: 03/04/2015 17:36
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0304151736-12.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		31530305		2.06	2.00	3.0	10.0
Chloride	Lin2		18561496		10.1	10.0	0.5	10.0
Sulfate	Lin		14712003		10.1	10.0	0.6	10.0
Bromide	Lin2		7626708		10.2	10.0	1.6	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: ICV 680-373322/9 Calibration Date: 03/04/2015 17:36
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0304151736-12.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.07	2.82	3.32
Chloride	4.27	4.03	4.53
Sulfate	5.69	5.44	5.94
Bromide	7.09	6.84	7.34

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151736-12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 04-Mar-2015 17:36:00 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ICV 1H0304515
 Misc. Info.: 25749 3955825
 Operator ID: Instrument ID: CICH
 Sublist:
 Method: \\SAVCHROM\ChromData\CICH\20150304-17578.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 05-Mar-2015 08:53:25 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK009

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	63060609	2.00	2.06	
2 Chloride	4.267	4.275	-0.008	185614955	10.0	10.1	
3 Sulfate	5.692	5.692	0.000	147120025	10.0	10.1	
4 Bromide	7.092	7.092	0.000	76267079	10.0	10.2	

Reagents:

Anion-ICV_00043 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CICH\20150304-17578.b\0304151736-12.d

Injection Date: 04-Mar-2015 17:36:00

Instrument ID: CICH

Operator ID:

Lims ID: ICV

Worklist Smp#: 9

Client ID:

Injection Vol: 25.0 ul

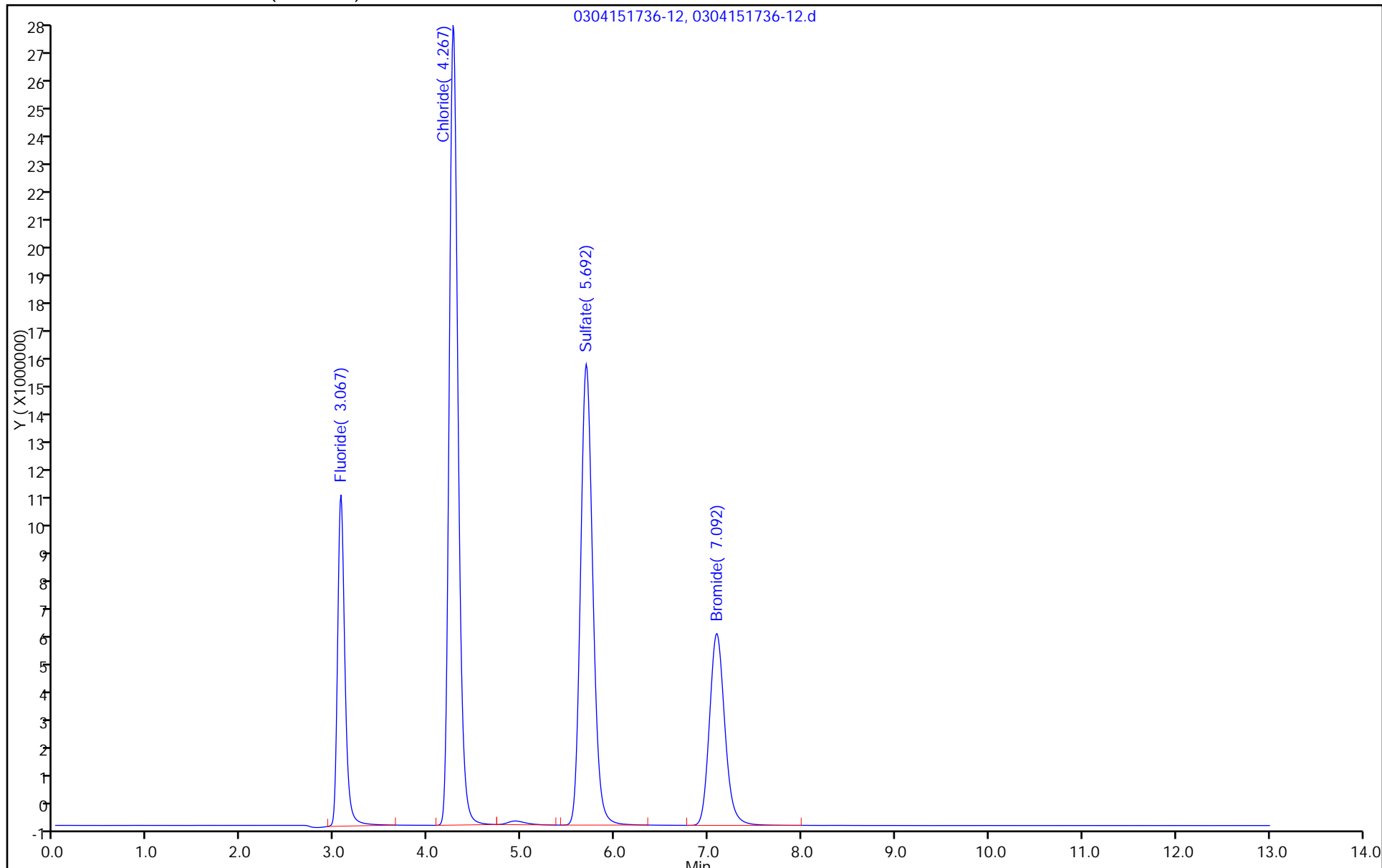
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376322/1 Calibration Date: 03/26/2015 13:56
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0326151356-4.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		33206713		2.17	2.00	8.5	10.0
Chloride	Lin2		19376386		10.5	10.0	4.9	10.0
Sulfate	Lin		14757135		20.5	20.0	2.4	10.0
Bromide	Lin2		8023090		10.7	10.0	6.8	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376322/1 Calibration Date: 03/26/2015 13:56
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0326151356-4.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.07	2.82	3.32
Chloride	4.26	4.01	4.51
Sulfate	5.65	5.40	5.90
Bromide	7.05	6.80	7.30

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326151356-4.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 26-Mar-2015 13:56:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-5 1H032615
 Misc. Info.: 4 3976172
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:08 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

First Level Reviewer: orra Date: 27-Mar-2015 08:53:28

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	66413426	2.00	2.17	
2 Chloride	4.258	4.258	0.000	193763863	10.0	10.5	
3 Sulfate	5.650	5.650	0.000	295142699	20.0	20.5	
4 Bromide	7.050	7.050	0.000	80230897	10.0	10.7	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Anion-5_00130 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326151356-4.d

Injection Date: 26-Mar-2015 13:56:00

Instrument ID: CICH

Operator ID:

Lims ID: CCV

Worklist Smp#: 1

Client ID:

Injection Vol: 25.0 ul

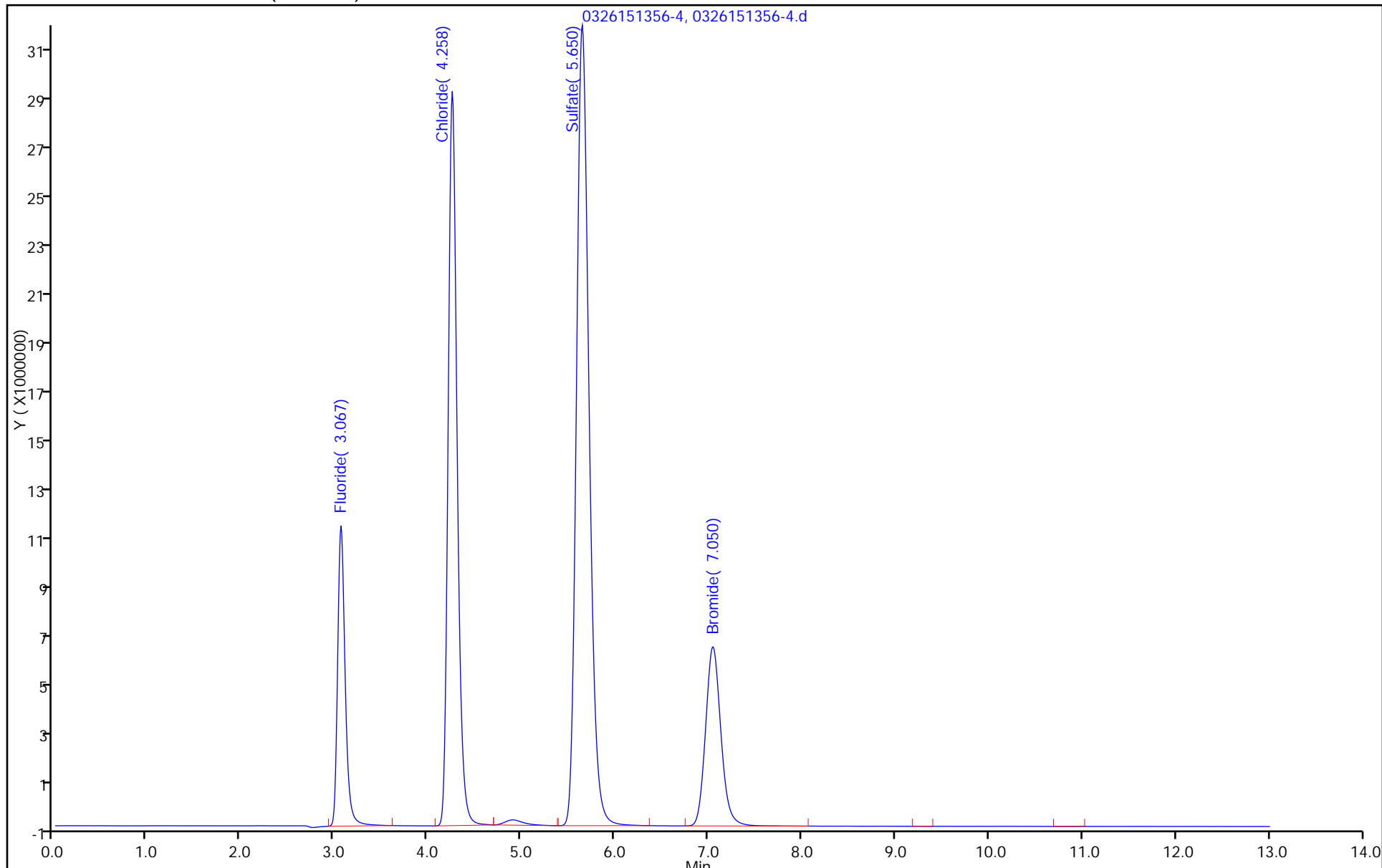
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



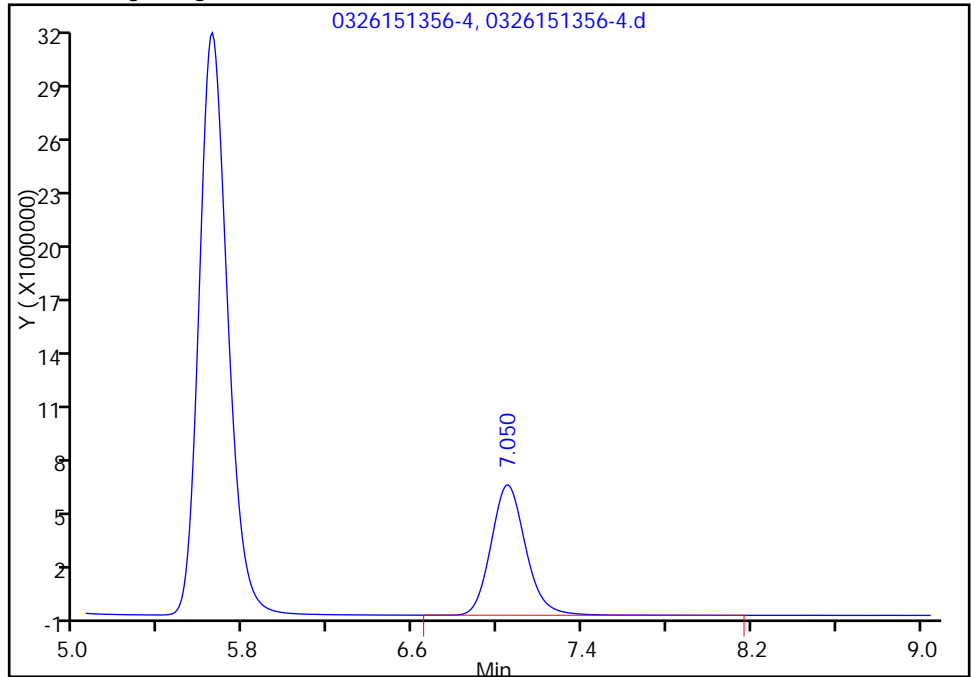
TestAmerica Savannah

Data File: \\ChromNAI\g1\Savannah\ChromData\CICH\20150327-18218.b\0326151356-4.d
Injection Date: 26-Mar-2015 13:56:00 Instrument ID: CICH
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 25.0 ul Dil. Factor: 1.0000
Method: 300.0_9056A_CICH Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0118131406-12

4 Bromide, CAS: 24959-67-9

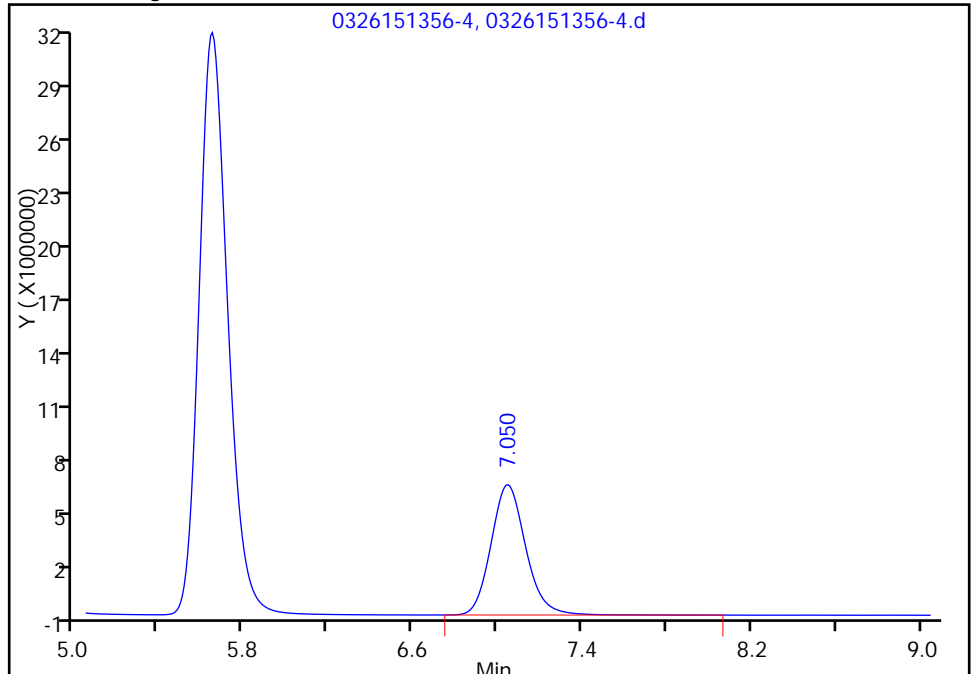
RT: 7.05
Area: 80378064
Amount: 10.694311
Amount Units: ug/ml

Processing Integration Results



RT: 7.05
Area: 80230897
Amount: 10.675039
Amount Units: ug/ml

Manual Integration Results



Reviewer: orra, 27-Mar-2015 08:53:28
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376322/16 Calibration Date: 03/26/2015 17:47
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0326151747-19.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		33016174		2.16	2.00	7.9	10.0
Chloride	Lin2		19328518		10.5	10.0	4.6	10.0
Sulfate	Lin		14578691		20.2	20.0	1.1	10.0
Bromide	Lin2		7954135		10.6	10.0	5.8	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376322/16 Calibration Date: 03/26/2015 17:47
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0326151747-19.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.07	2.82	3.32
Chloride	4.26	4.01	4.51
Sulfate	5.63	5.38	5.88
Bromide	7.06	6.81	7.31

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326151747-19.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 26-Mar-2015 17:47:00 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: A-5 1H032615
 Misc. Info.: 16060 3976172
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:13 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	66032347	2.00	2.16	
2 Chloride	4.258	4.258	0.000	193285177	10.0	10.5	
3 Sulfate	5.625	5.625	0.000	291573812	20.0	20.2	
4 Bromide	7.058	7.058	0.000	79541354	10.0	10.6	

Reagents:

Anion-5_00130 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326151747-19.d

Injection Date: 26-Mar-2015 17:47:00

Instrument ID: CICH

Operator ID:

Lims ID: CCV

Worklist Smp#: 16

Client ID:

Injection Vol: 25.0 ul

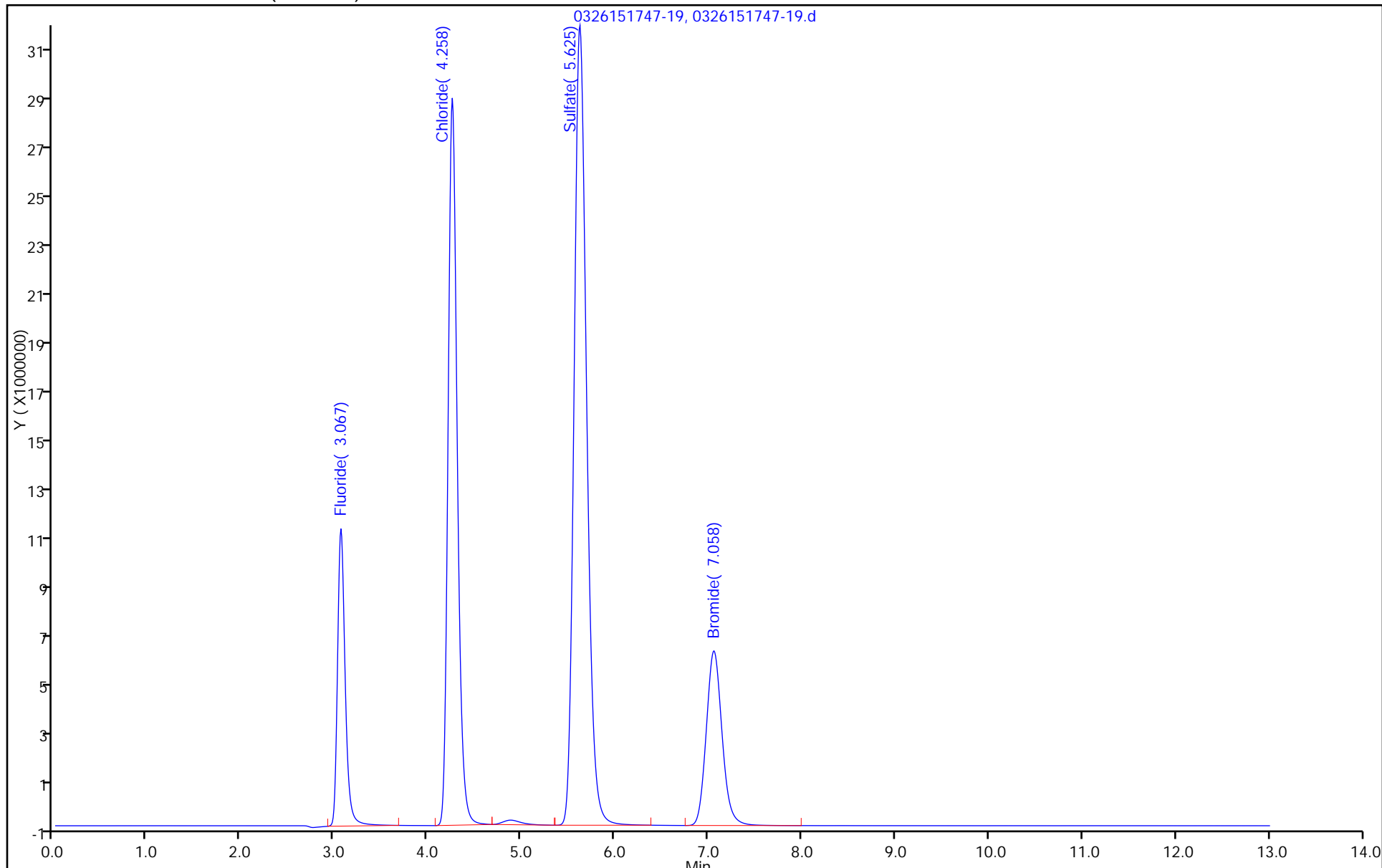
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376322/26 Calibration Date: 03/26/2015 20:21
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0326152021-29.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		32820219		2.14	2.00	7.2	10.0
Chloride	Lin2		19297018		10.4	10.0	4.4	10.0
Sulfate	Lin		14489772		20.1	20.0	0.5	10.0
Bromide	Lin2		7931817		10.6	10.0	5.6	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376322/26 Calibration Date: 03/26/2015 20:21
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0326152021-29.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.07	2.82	3.32
Chloride	4.26	4.01	4.51
Sulfate	5.61	5.36	5.86
Bromide	7.06	6.81	7.31

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152021-29.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 26-Mar-2015 20:21:00 ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: A-5 1H032615
 Misc. Info.: 14045 3976172
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:16 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	65640438	2.00	2.14	
2 Chloride	4.258	4.258	0.000	192970177	10.0	10.4	
3 Sulfate	5.608	5.608	0.000	289795441	20.0	20.1	
4 Bromide	7.058	7.058	0.000	79318173	10.0	10.6	

Reagents:

Anion-5_00130 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326152021-29.d

Injection Date: 26-Mar-2015 20:21:00

Instrument ID: CICH

Operator ID:

Lims ID: CCV

Worklist Smp#: 26

Client ID:

Injection Vol: 25.0 ul

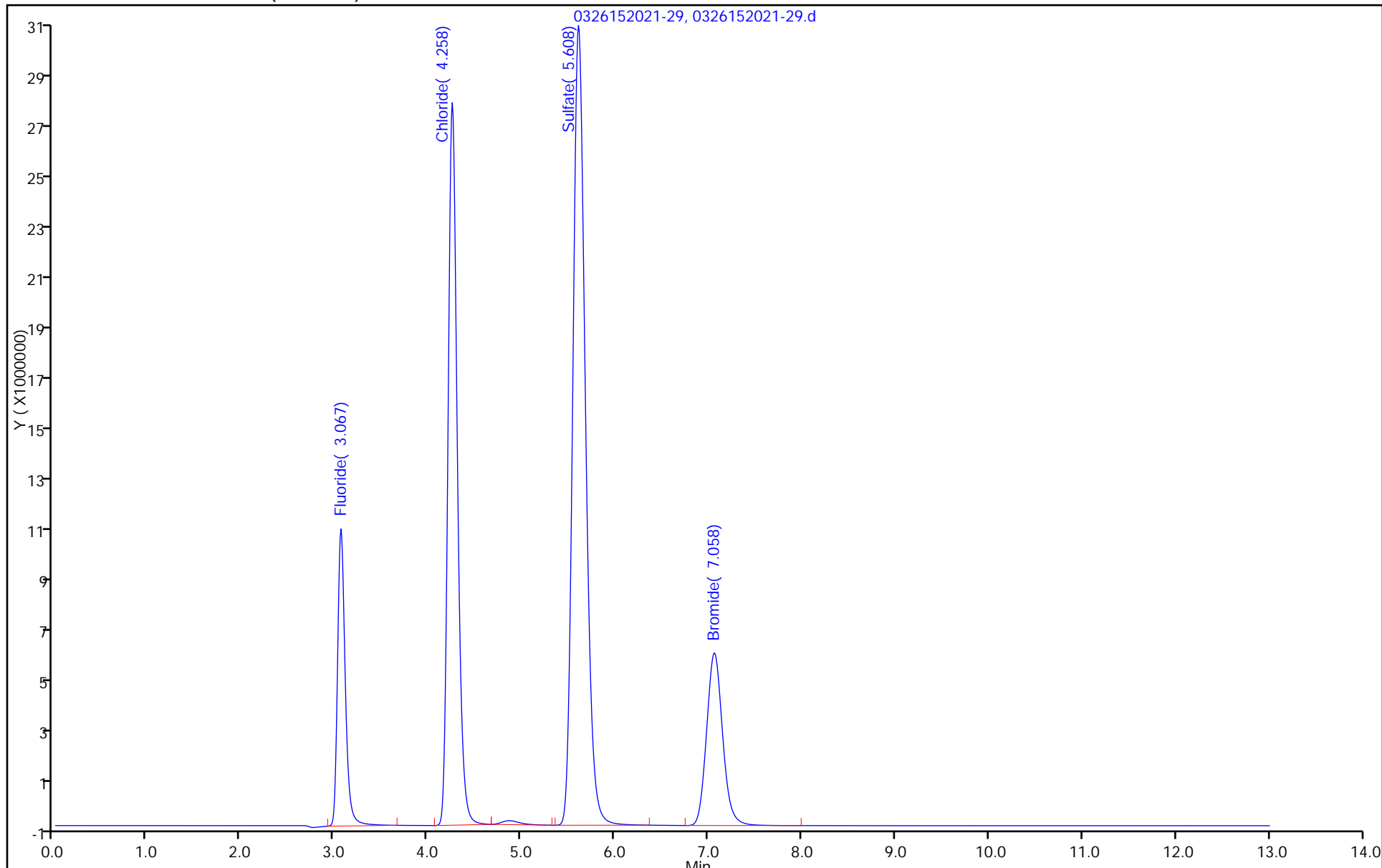
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376322/33 Calibration Date: 03/26/2015 22:09
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0326152209-36.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		32898706		2.15	2.00	7.5	10.0
Chloride	Lin2		19331054		10.5	10.0	4.6	10.0
Sulfate	Lin		14596326		20.2	20.0	1.2	10.0
Bromide	Lin2		7924227		10.5	10.0	5.5	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376322/33 Calibration Date: 03/26/2015 22:09
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0326152209-36.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.07	2.82	3.32
Chloride	4.26	4.01	4.51
Sulfate	5.60	5.35	5.85
Bromide	7.07	6.82	7.32

TestAmerica Savannah
 Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152209-36.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 26-Mar-2015 22:09:00 ALS Bottle#: 0 Worklist Smp#: 33
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: A-5 1H032615
 Misc. Info.: 11308 3976172
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:18 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	65797412	2.00	2.15	
2 Chloride	4.258	4.258	0.000	193310538	10.0	10.5	
3 Sulfate	5.600	5.600	0.000	291926526	20.0	20.2	
4 Bromide	7.067	7.067	0.000	79242267	10.0	10.5	

Reagents:

Anion-5_00130 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326152209-36.d

Injection Date: 26-Mar-2015 22:09:00

Instrument ID: CICH

Operator ID:

Lims ID: CCV

Worklist Smp#: 33

Client ID:

Injection Vol: 25.0 ul

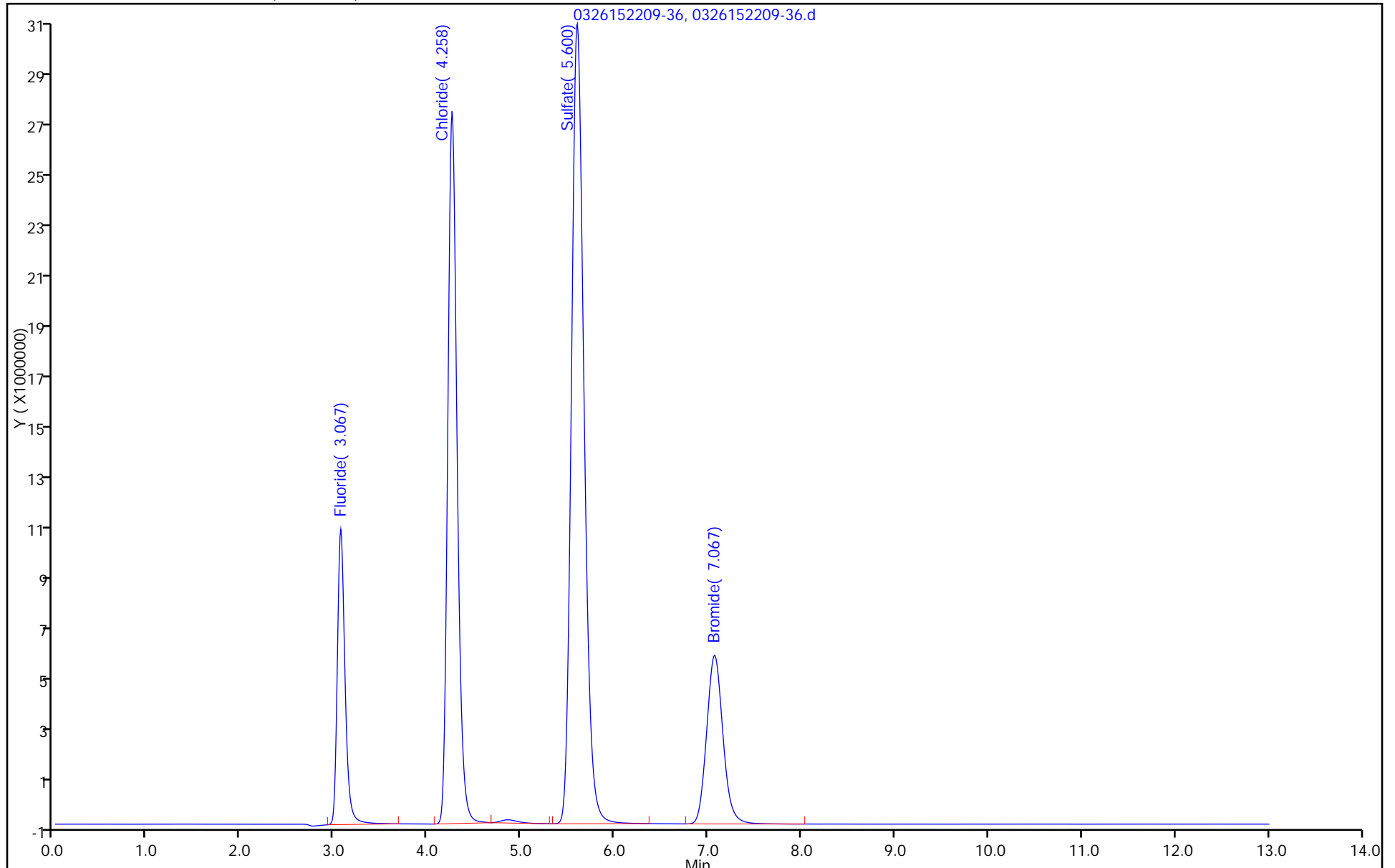
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376449/1 Calibration Date: 03/27/2015 11:09
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0327151109-4.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		33439939		2.18	2.00	9.2	10.0
Chloride	Lin2		19369965		10.5	10.0	4.8	10.0
Sulfate	Lin		14932591		20.7	20.0	3.6	10.0
Bromide	Lin2		7984701		10.6	10.0	6.2	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376449/1 Calibration Date: 03/27/2015 11:09
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0327151109-4.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.07	2.82	3.32
Chloride	4.26	4.01	4.51
Sulfate	5.63	5.38	5.88
Bromide	7.05	6.80	7.30

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151109-4.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Mar-2015 11:09:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: ANION-5 1H032715
 Misc. Info.: 4 3976172
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 30-Mar-2015 10:17:24 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK002

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	66879878	2.00	2.18	
2 Chloride	4.258	4.258	0.000	193699645	10.0	10.5	
3 Sulfate	5.633	5.633	0.000	298651812	20.0	20.7	
4 Bromide	7.050	7.050	0.000	79847013	10.0	10.6	

Reagents:

Anion-5_00130 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151109-4.d

Injection Date: 27-Mar-2015 11:09:00

Instrument ID: CICH

Operator ID:

Lims ID: CCV

Worklist Smp#: 1

Client ID:

Injection Vol: 25.0 ul

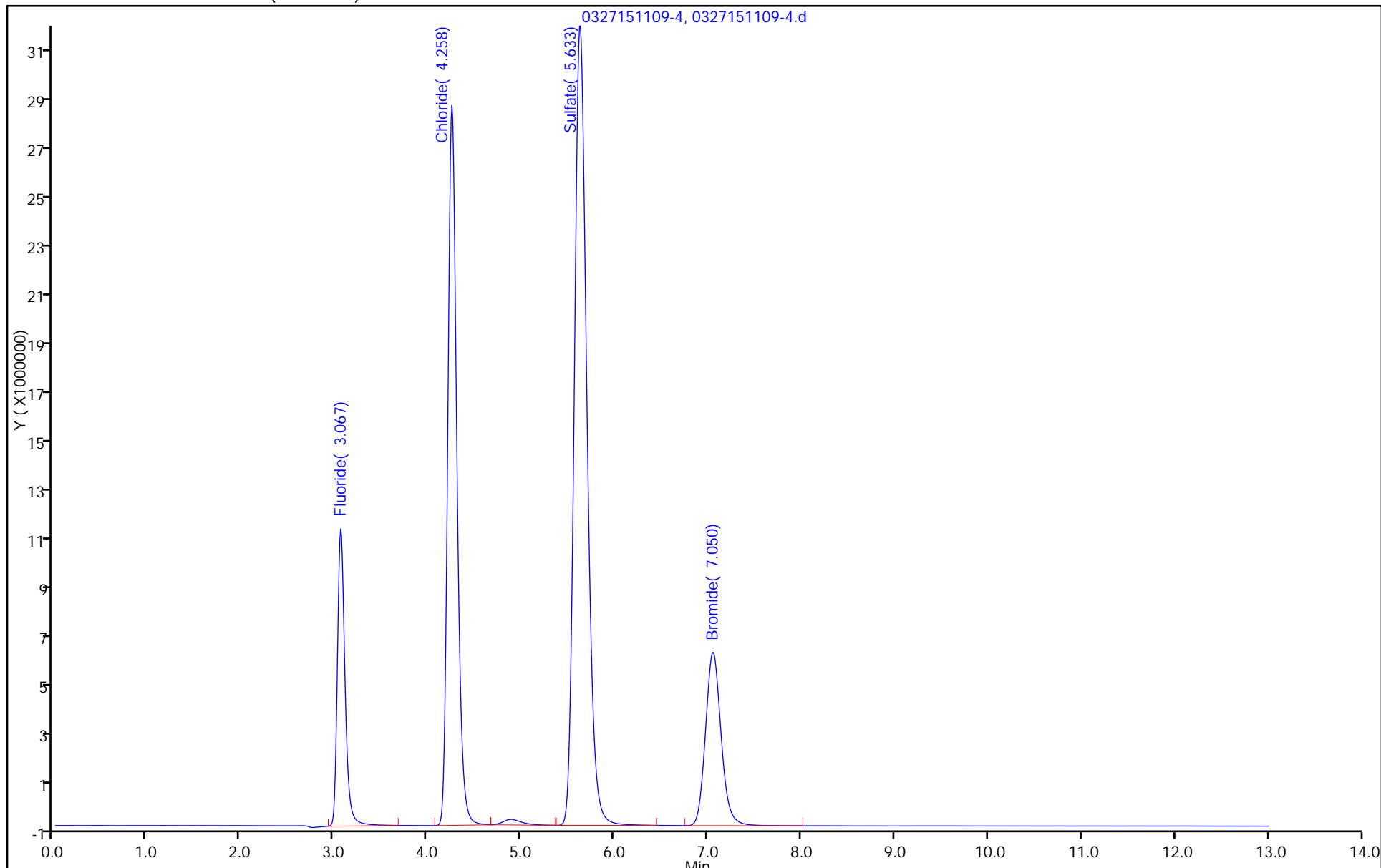
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376449/16 Calibration Date: 03/27/2015 15:00
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0327151500-19.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		33265242		2.17	2.00	8.7	10.0
Chloride	Lin2		19384061		10.5	10.0	4.9	10.0
Sulfate	Lin		14762150		20.5	20.0	2.4	10.0
Bromide	Lin2		7997831		10.6	10.0	6.4	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Lab Sample ID: CCV 680-376449/16 Calibration Date: 03/27/2015 15:00
 Instrument ID: CICH Calib Start Date: 03/04/2015 15:33
 GC Column: Dionex AS18 ID: 4.00 (mm) Calib End Date: 03/04/2015 17:05
 Lab File ID: 0327151500-19.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	3.07	2.82	3.32
Chloride	4.26	4.01	4.51
Sulfate	5.65	5.40	5.90
Bromide	7.05	6.80	7.30

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151500-19.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Mar-2015 15:00:00 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: A-5 1H032715
 Misc. Info.: 16995 3976172
 Operator ID: Instrument ID: CICH
 Sublist: chrom-300.0_9056A_CICH*sub1
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 30-Mar-2015 10:17:31 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK002

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	66530483	2.00	2.17	
2 Chloride	4.258	4.258	0.000	193840612	10.0	10.5	
3 Sulfate	5.650	5.650	0.000	295242990	20.0	20.5	
4 Bromide	7.050	7.050	0.000	79978307	10.0	10.6	

Reagents:

Anion-5_00130 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151500-19.d

Injection Date: 27-Mar-2015 15:00:00

Instrument ID: CICH

Operator ID:

Lims ID: CCV

Worklist Smp#: 16

Client ID:

Injection Vol: 25.0 ul

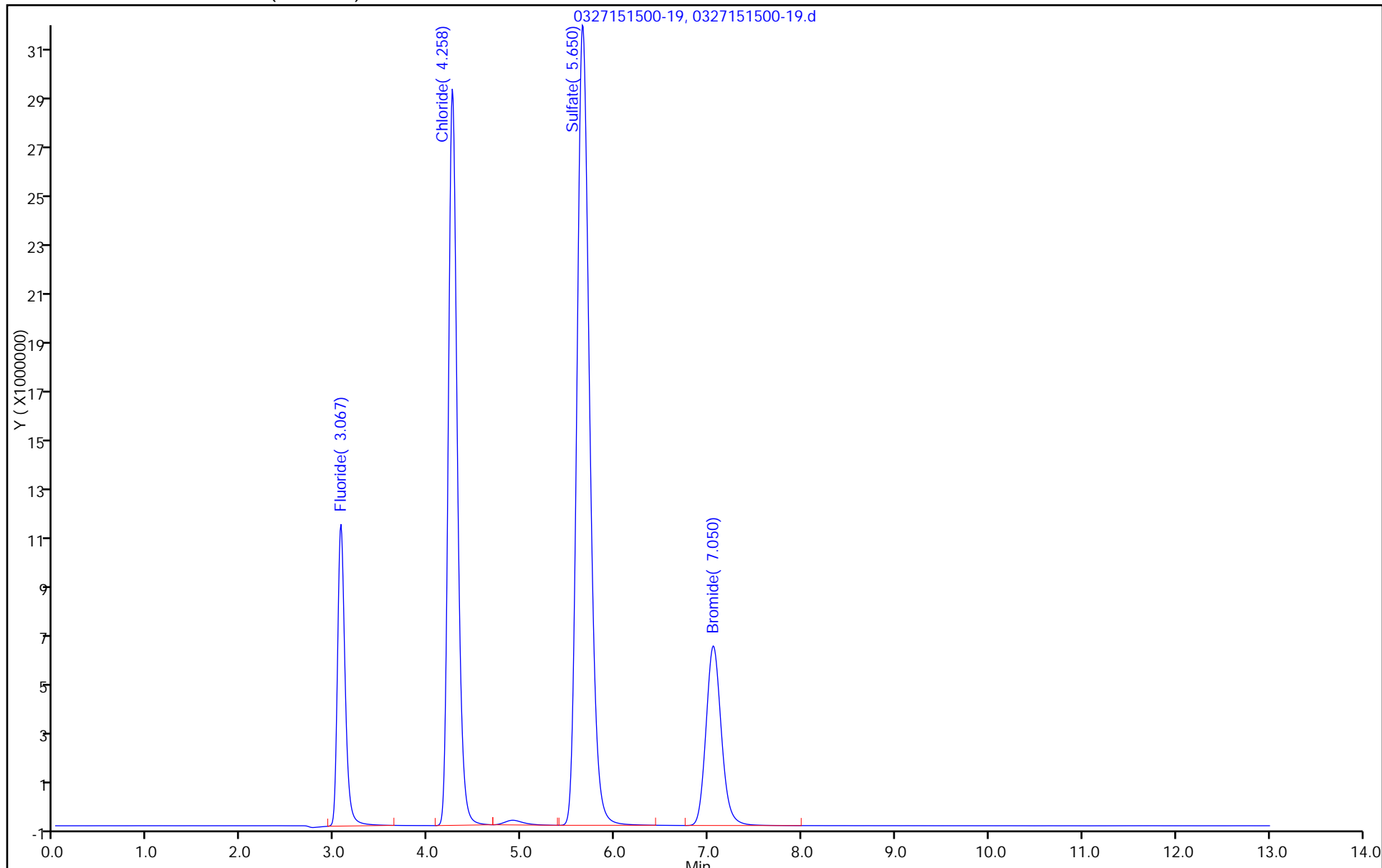
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-376322/2
 Matrix: Water Lab File ID: 0326151411-5.d
 Analysis Method: 300.0 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/26/2015 14:11
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376322 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	ND		0.50	0.20
14808-79-8	Sulfate	ND		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326151411-5.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 26-Mar-2015 14:11:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: MB 1H032615
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:08 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

First Level Reviewer: orra Date: 27-Mar-2015 08:53:36

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326151411-5.d

Injection Date: 26-Mar-2015 14:11:00

Instrument ID: CICH

Operator ID:

Lims ID: MB

Worklist Smp#: 2

Client ID:

Injection Vol: 25.0 ul

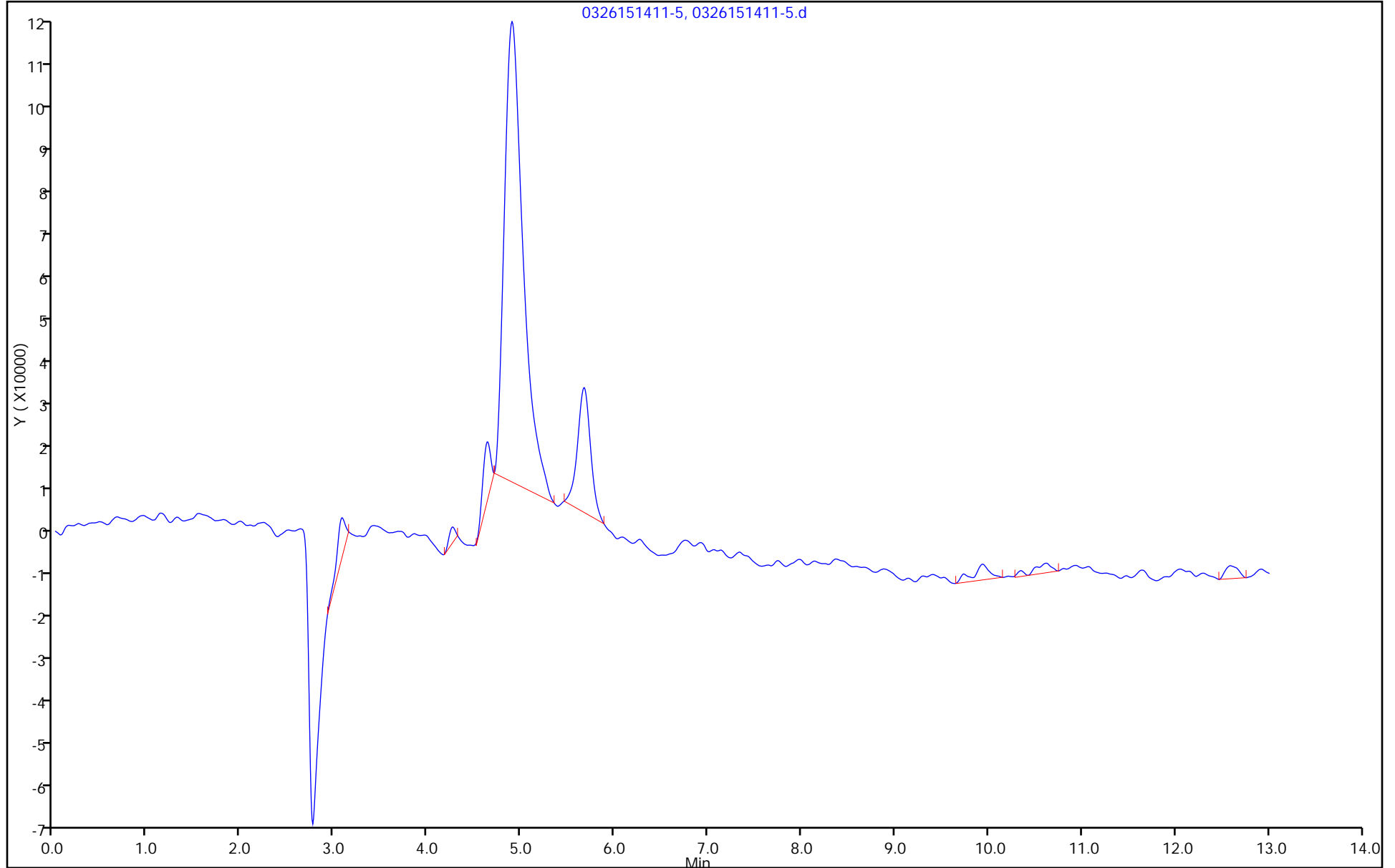
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-376449/2
 Matrix: Water Lab File ID: 0327151125-5.d
 Analysis Method: 300.0 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 11:25
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376449 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	ND		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151125-5.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Mar-2015 11:25:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: MB 1H032715
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 30-Mar-2015 10:17:24 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK002

First Level Reviewer: orra Date: 27-Mar-2015 14:58:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151125-5.d

Injection Date: 27-Mar-2015 11:25:00

Instrument ID: CICH

Operator ID:

Lims ID: MB

Worklist Smp#: 2

Client ID:

Injection Vol: 25.0 ul

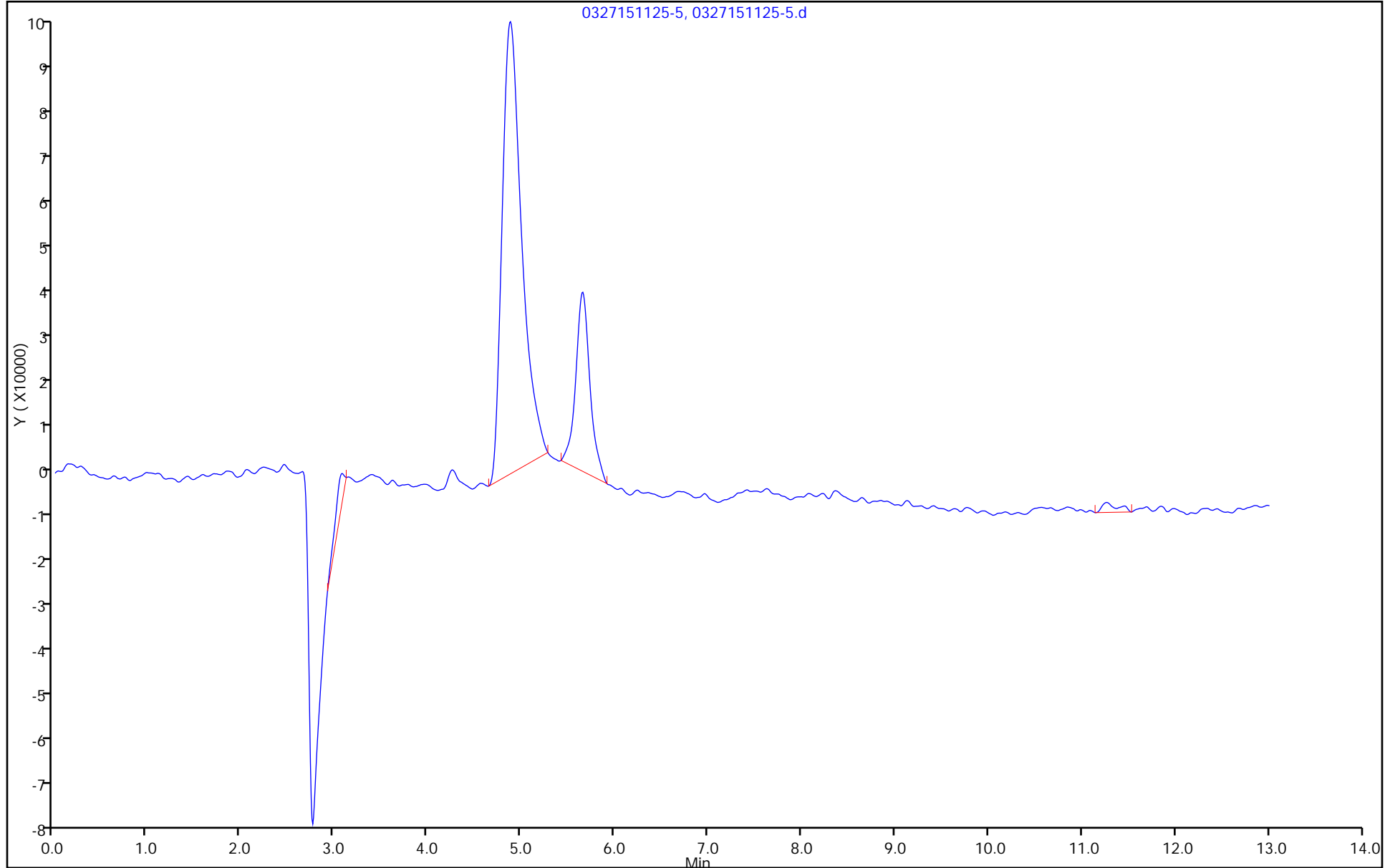
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-376322/3
 Matrix: Water Lab File ID: 0326151427-6.d
 Analysis Method: 300.0 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/26/2015 14:27
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376322 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	10.3		0.50	0.20
14808-79-8	Sulfate	10.4		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326151427-6.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 26-Mar-2015 14:27:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 1H032615
 Misc. Info.: 6 3975451
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:08 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	66725205	2.00	2.18	
2 Chloride	4.258	4.258	0.000	191018099	10.0	10.3	
3 Sulfate	5.667	5.650	0.017	151556476	10.0	10.4	
4 Bromide	7.050	7.050	0.000	79881313	10.0	10.6	

Reagents:

Anion-ICV_00044 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326151427-6.d

Injection Date: 26-Mar-2015 14:27:00

Instrument ID: CICH

Operator ID:

Lims ID: LCS

Worklist Smp#: 3

Client ID:

Injection Vol: 25.0 ul

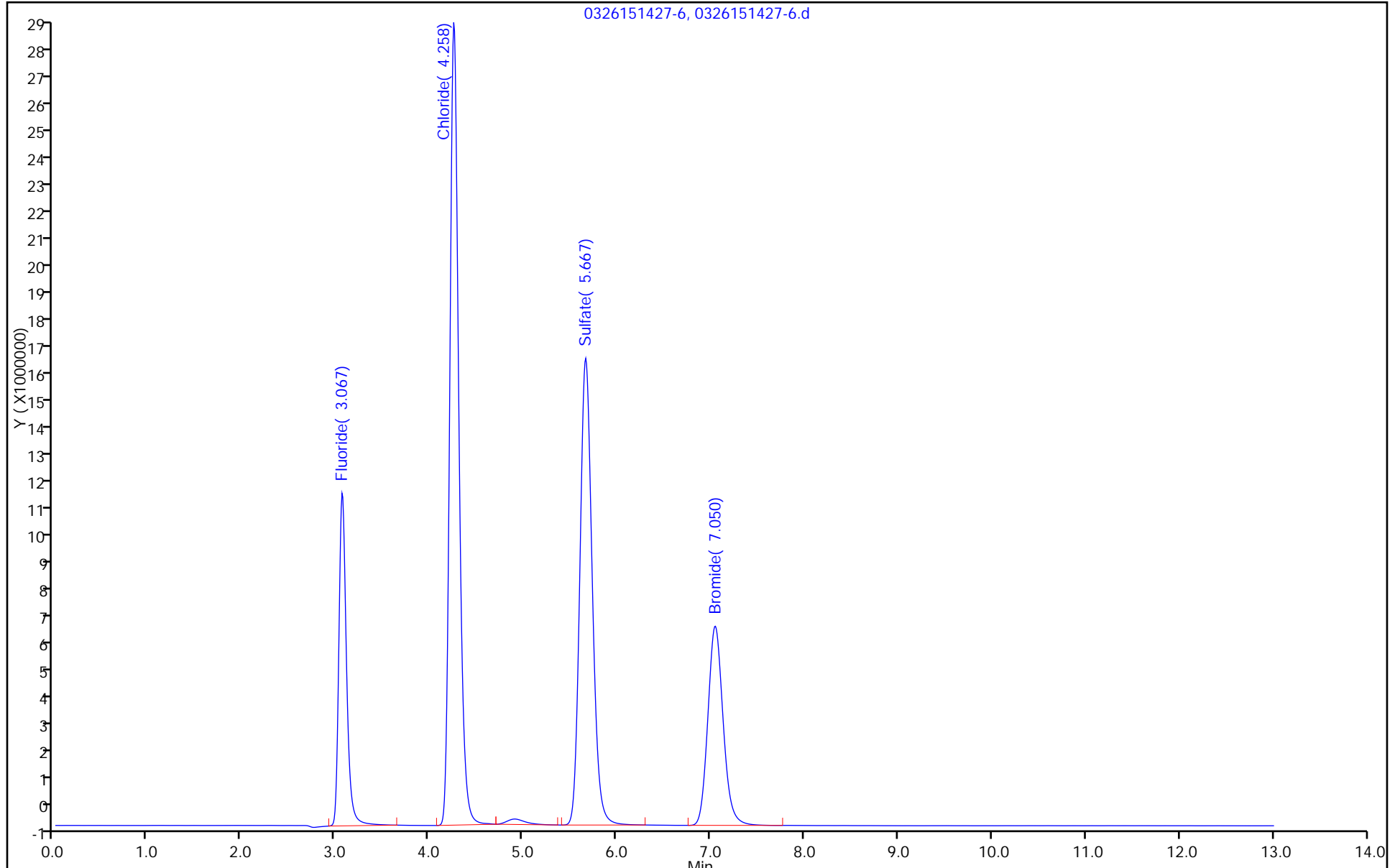
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-376449/3
 Matrix: Water Lab File ID: 0327151140-6.d
 Analysis Method: 300.0 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 11:40
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376449 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	10.6		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151140-6.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Mar-2015 11:40:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 1H032715
 Misc. Info.: 6 3975451
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 30-Mar-2015 10:17:24 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK002

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	67214578	2.00	2.20	
2 Chloride	4.258	4.258	0.000	190833677	10.0	10.3	
3 Sulfate	5.633	5.633	0.000	155389446	10.0	10.6	
4 Bromide	7.058	7.050	0.008	79490955	10.0	10.6	

Reagents:

Anion-ICV_00044 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151140-6.d

Injection Date: 27-Mar-2015 11:40:00

Instrument ID: CICH

Operator ID:

Lims ID: LCS

Worklist Smp#: 3

Client ID:

Injection Vol: 25.0 ul

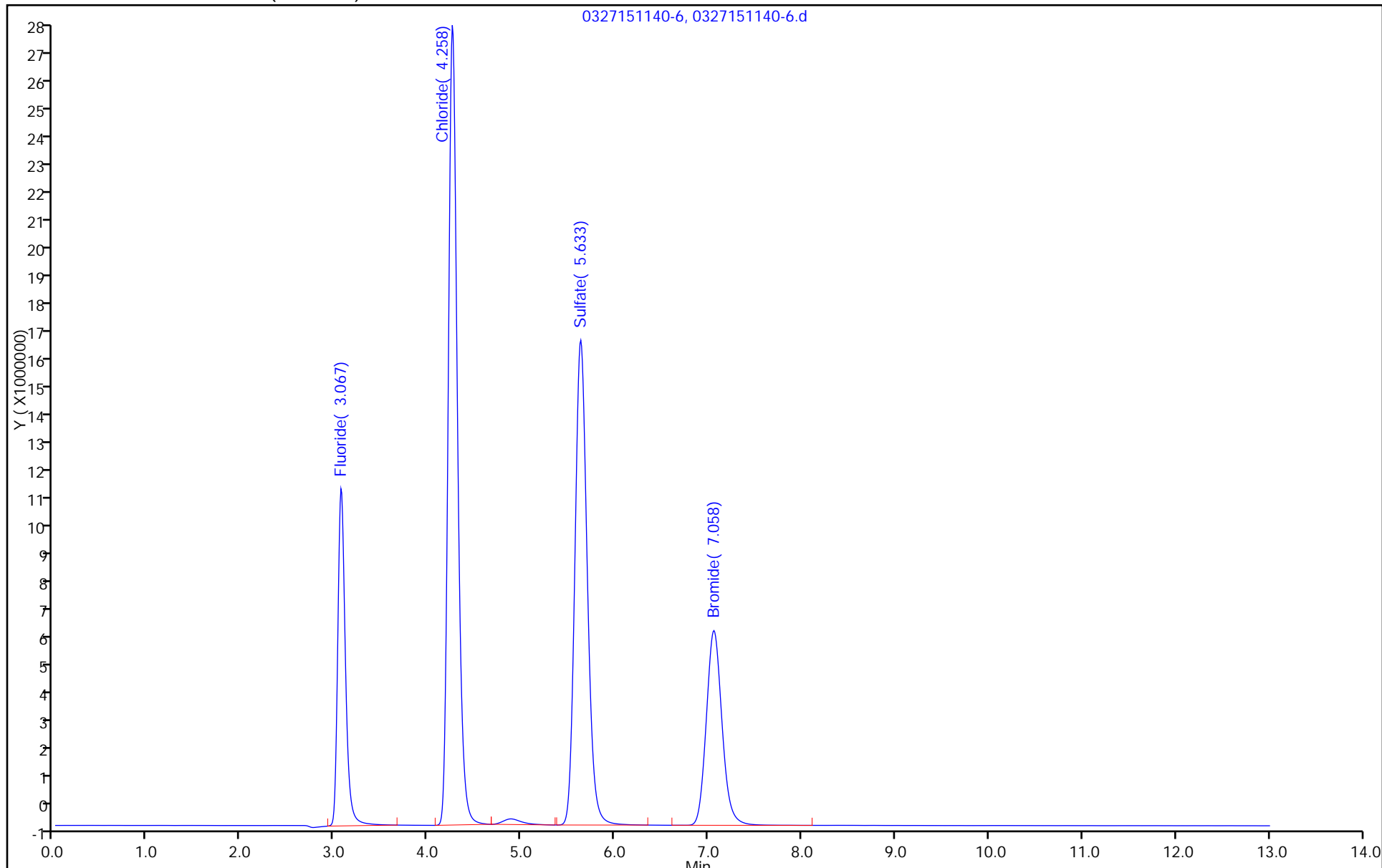
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-376322/4
 Matrix: Water Lab File ID: 0326151442-7.d
 Analysis Method: 300.0 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/26/2015 14:42
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376322 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	10.3		0.50	0.20
14808-79-8	Sulfate	10.4		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326151442-7.d
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 26-Mar-2015 14:42:00 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 1H032615
 Misc. Info.: 7 3975451
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:08 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

First Level Reviewer: orra Date: 27-Mar-2015 08:52:46

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	66836266	2.00	2.18	
2 Chloride	4.258	4.258	0.000	190924410	10.0	10.3	
3 Sulfate	5.667	5.650	0.017	152167974	10.0	10.4	
4 Bromide	7.050	7.050	0.000	79975069	10.0	10.6	

Reagents:

Anion-ICV_00044 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18218.b\0326151442-7.d

Injection Date: 26-Mar-2015 14:42:00

Instrument ID: CICH

Operator ID:

Lims ID: LCSD

Worklist Smp#: 4

Client ID:

Injection Vol: 25.0 ul

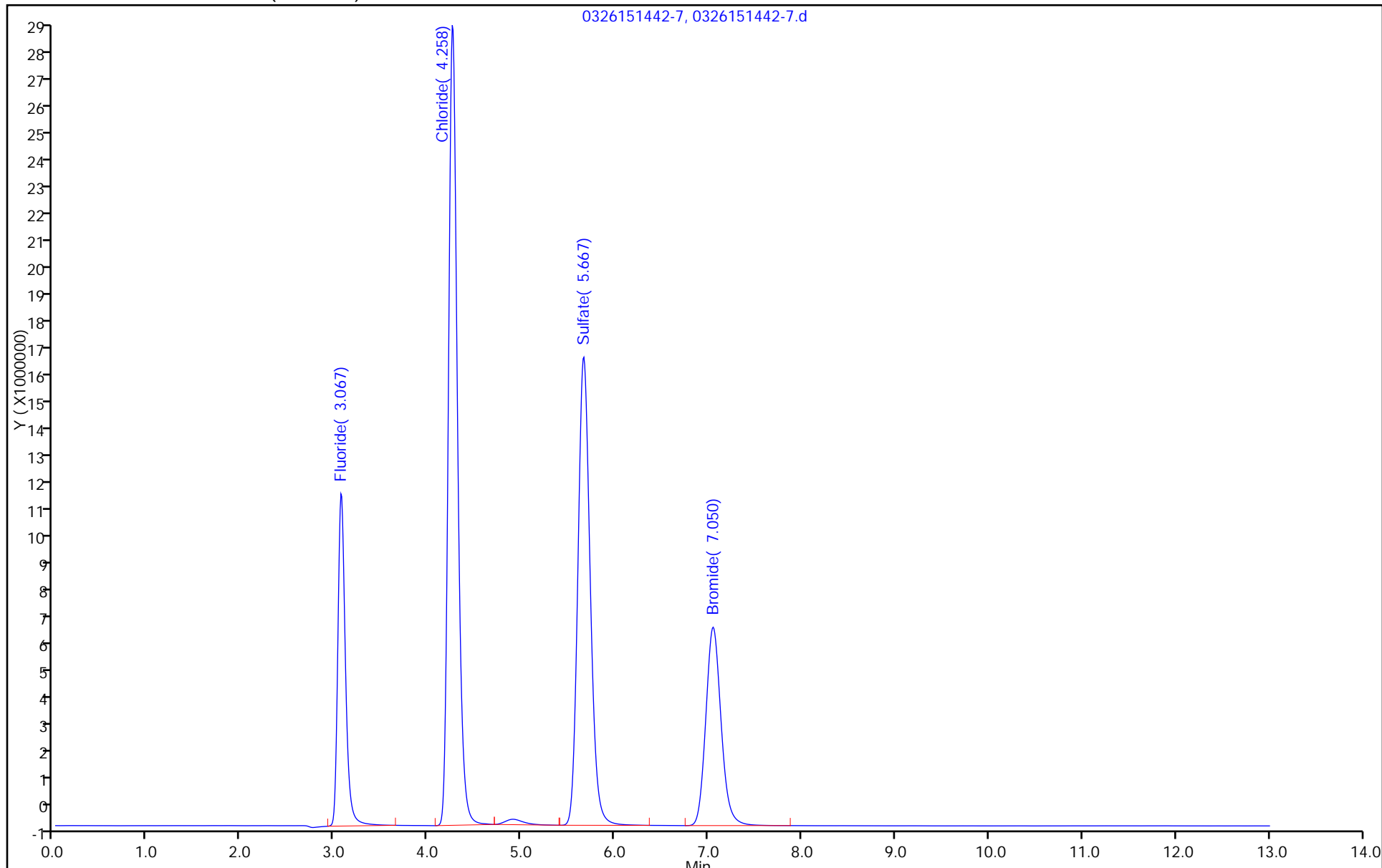
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-376449/4
 Matrix: Water Lab File ID: 0327151156-7.d
 Analysis Method: 300.0 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 11:56
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376449 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	10.6		1.0	0.40

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151156-7.d
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 27-Mar-2015 11:56:00 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 1H032715
 Misc. Info.: 7 3975451
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 30-Mar-2015 10:17:24 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK002

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	67245982	2.00	2.20	
2 Chloride	4.258	4.258	0.000	190544114	10.0	10.3	
3 Sulfate	5.650	5.633	0.017	155383143	10.0	10.6	
4 Bromide	7.050	7.050	0.000	79537453	10.0	10.6	

Reagents:

Anion-ICV_00044 Amount Added: 5.00 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151156-7.d

Injection Date: 27-Mar-2015 11:56:00

Instrument ID: CICH

Operator ID:

Lims ID: LCSD

Worklist Smp#: 4

Client ID:

Injection Vol: 25.0 ul

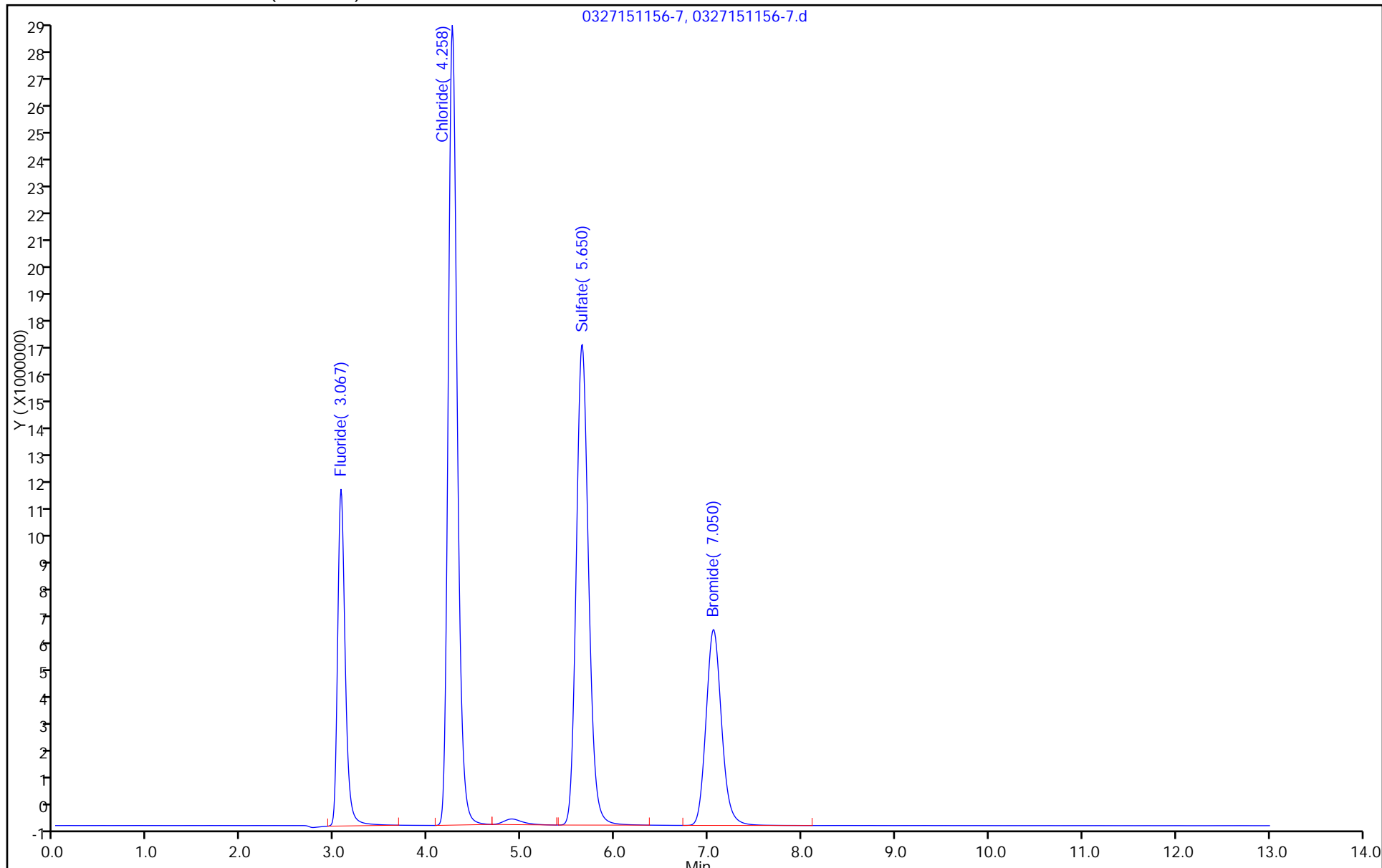
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114MS MS Lab Sample ID: 680-110788-2 MS
 Matrix: Water Lab File ID: 0326152107-32.d
 Analysis Method: 300.0 Date Collected: 03/18/2015 12:15
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/26/2015 21:07
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376322 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	11.3		0.50	0.20

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152107-32.d
 Lims ID: 680-110788-B-2 MS
 Client ID: 25LM20114MS
 Sample Type: MS
 Inject. Date: 26-Mar-2015 21:07:00 ALS Bottle#: 0 Worklist Smp#: 29
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 680-110788-B-2 MS 1H032615
 Misc. Info.: 1446 3903826
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:16 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

First Level Reviewer: orra Date: 27-Mar-2015 09:04:40

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	65410303	2.00	2.14	
2 Chloride	4.258	4.258	0.000	208777068	10.0	11.3	
3 Sulfate	5.533	5.608	-0.075	1144566703	10.0	80.2	EM
4 Bromide	7.067	7.058	0.009	77332697	10.0	10.3	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

All_Anions_00054 Amount Added: 0.05 Units: mL

TestAmerica Savannah

Data File: \\ChromNAI\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152107-32.d

Injection Date: 26-Mar-2015 21:07:00

Instrument ID: CICH

Operator ID:

Lims ID: 680-110788-B-2 MS

Worklist Smp#: 29

Client ID: 25LM20114MS

Injection Vol: 25.0 ul

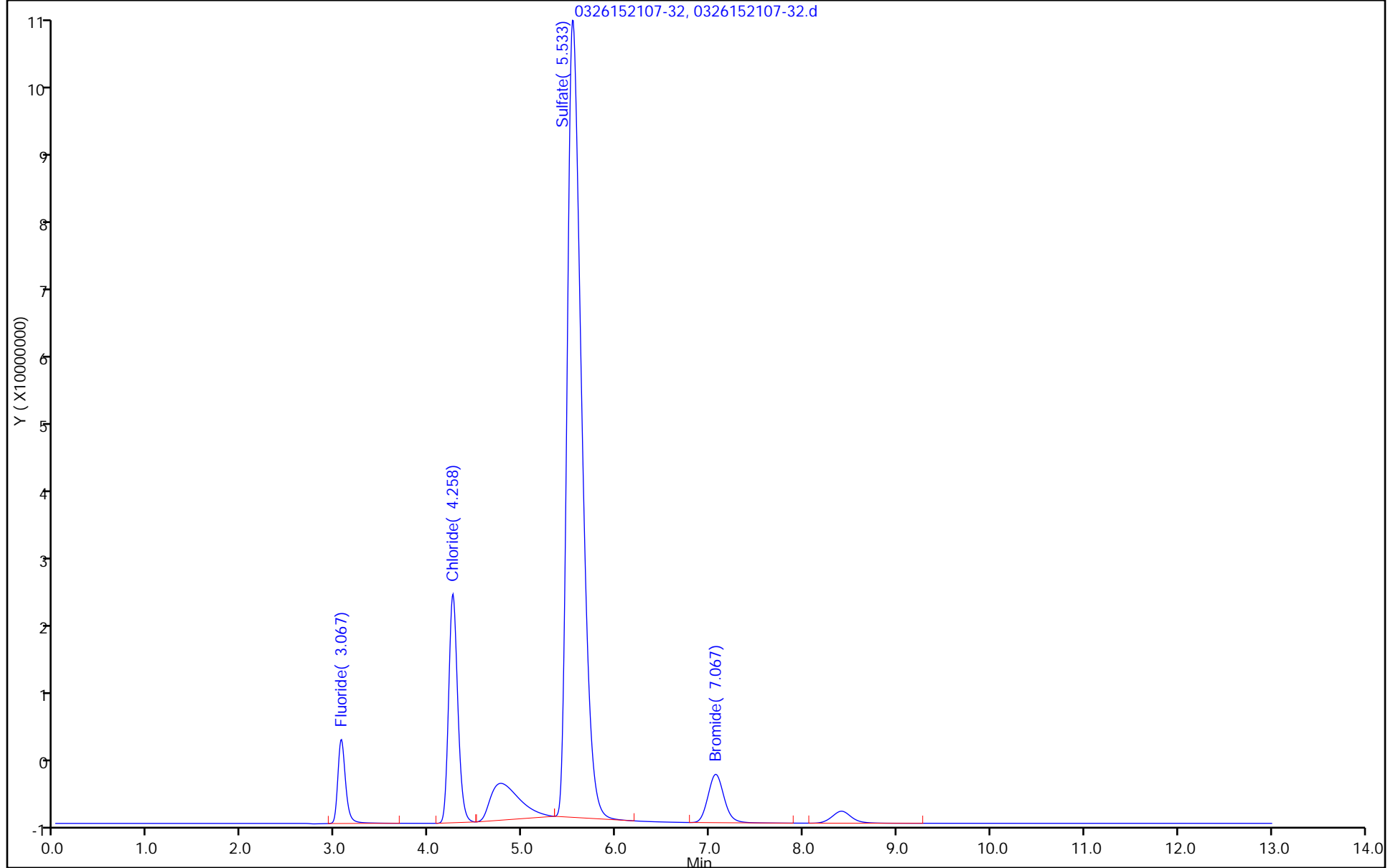
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114MS MS Lab Sample ID: 680-110788-2 MS
 Matrix: Water Lab File ID: 0327151328-13.d
 Analysis Method: 300.0 Date Collected: 03/18/2015 12:15
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 13:28
 Con. Extract Vol.: 5(mL) Dilution Factor: 2
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376449 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	89.5		2.0	0.80

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151328-13.d
 Lims ID: 680-110788-B-2 MS
 Client ID: 25LM20114MS
 Sample Type: MS
 Inject. Date: 27-Mar-2015 13:28:00 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 25.0 ul Dil. Factor: 2.0000
 Sample Info: 680-110788-B-2 MS 1H032715
 Misc. Info.: 32533 3903826
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 30-Mar-2015 10:17:47 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK027

First Level Reviewer: orra Date: 27-Mar-2015 15:00:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.058	3.067	-0.009	63602603	1.00	2.08	
2 Chloride	4.258	4.258	0.000	197326177	5.00	10.7	
3 Sulfate	5.608	5.600	0.008	640038005	5.00	44.7	M
4 Bromide	7.050	7.075	-0.025	77284207	5.00	10.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

All_Anions_00054 Amount Added: 0.05 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151328-13.d

Injection Date: 27-Mar-2015 13:28:00

Instrument ID: CICH

Operator ID:

Lims ID: 680-110788-B-2 MS

Worklist Smp#: 10

Client ID: 25LM20114MS

Injection Vol: 25.0 ul

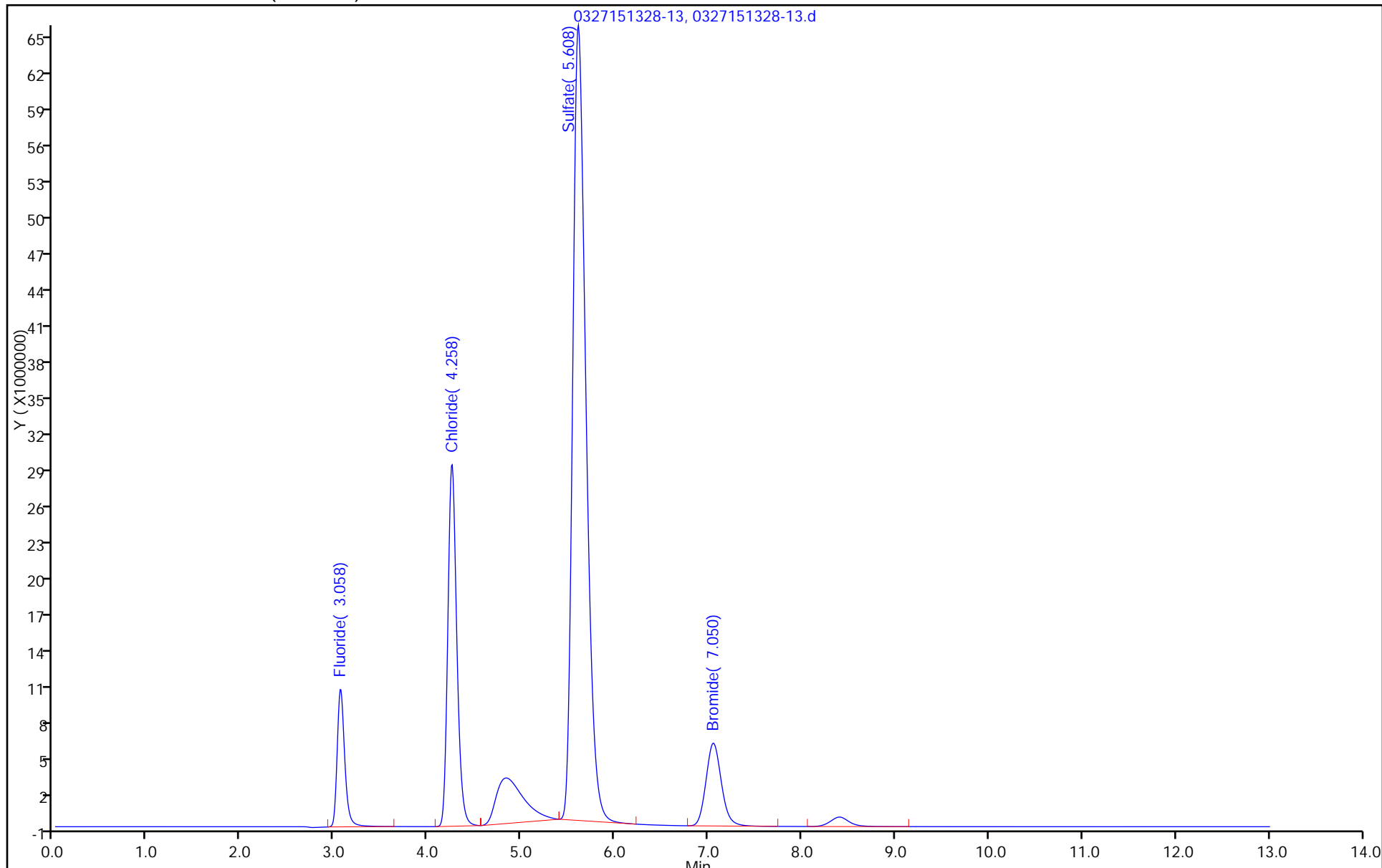
Dil. Factor: 2.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



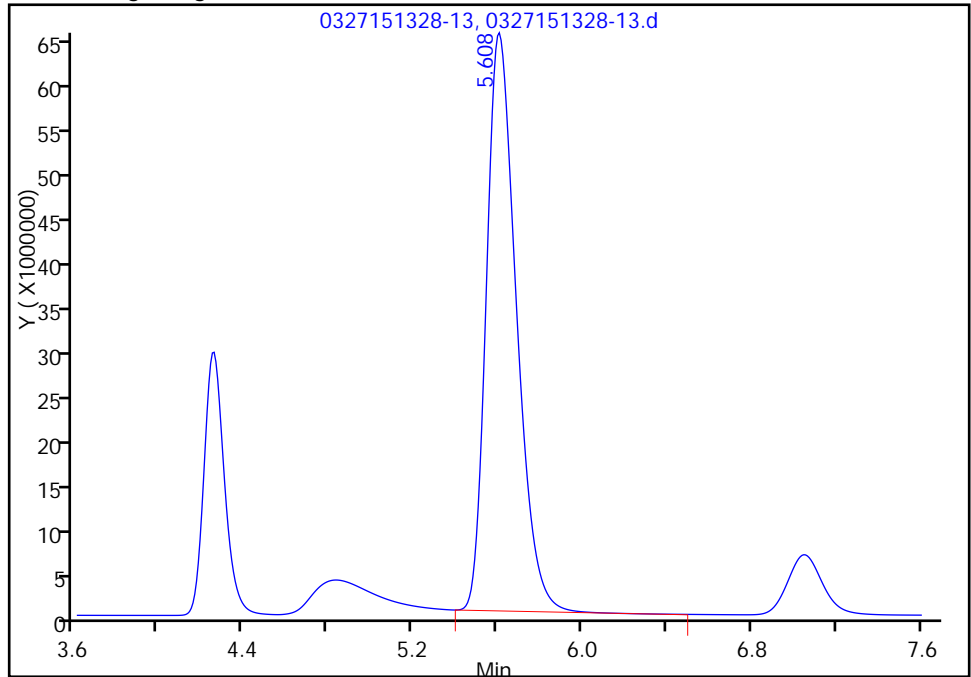
TestAmerica Savannah

Data File: \\ChromNAI\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151328-13.d
Injection Date: 27-Mar-2015 13:28:00 Instrument ID: CICH
Lims ID: 680-110788-B-2 MS
Client ID: 25LM20114MS
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 25.0 ul Dil. Factor: 2.0000
Method: 300.0_9056A_CICH Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0118131406-12

3 Sulfate, CAS: 14808-79-8

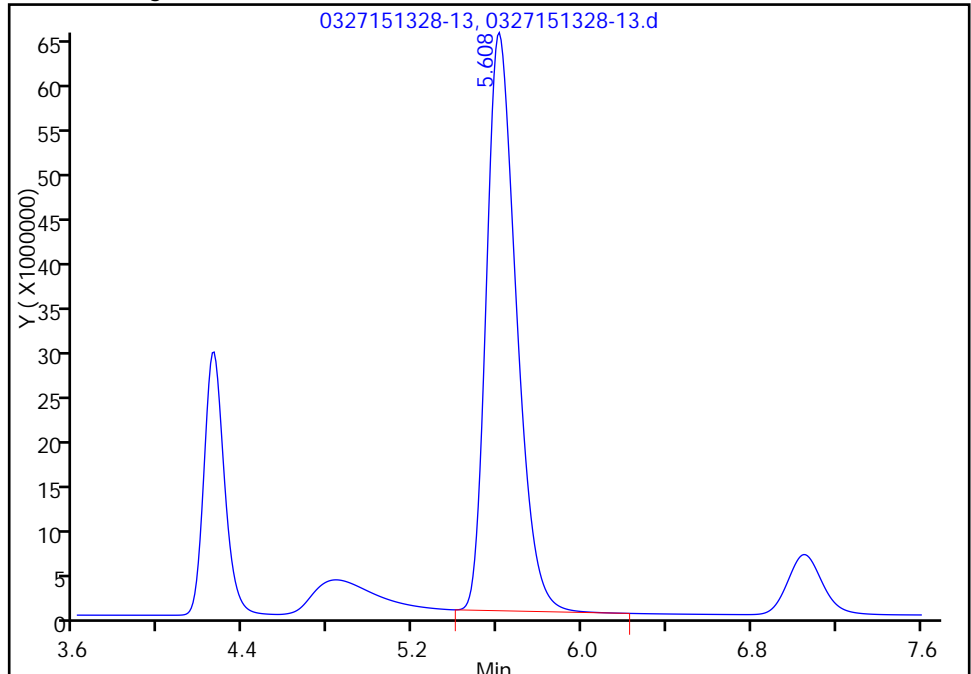
RT: 5.61
Area: 640332940
Amount: 44.752914
Amount Units: ug/ml

Processing Integration Results



RT: 5.61
Area: 640038005
Amount: 44.732169
Amount Units: ug/ml

Manual Integration Results



Reviewer: orra, 27-Mar-2015 15:00:45
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114MSD MSD Lab Sample ID: 680-110788-2 MSD
 Matrix: Water Lab File ID: 0326152122-33.d
 Analysis Method: 300.0 Date Collected: 03/18/2015 12:15
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/26/2015 21:22
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376322 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	11.4		0.50	0.20

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152122-33.d
 Lims ID: 680-110788-B-2 MSD
 Client ID: 25LM20114MSD
 Sample Type: MSD
 Inject. Date: 26-Mar-2015 21:22:00 ALS Bottle#: 0 Worklist Smp#: 30
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 680-110788-B-2 MSD 1H032615
 Misc. Info.: 22886 3903826
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18218.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 27-Mar-2015 09:18:16 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK016

First Level Reviewer: orra Date: 27-Mar-2015 09:04:54

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.058	3.067	-0.009	65795673	2.00	2.15	
2 Chloride	4.258	4.258	0.000	210347080	10.0	11.4	
3 Sulfate	5.533	5.608	-0.075	1146549644	10.0	80.4	EM
4 Bromide	7.067	7.058	0.009	78008221	10.0	10.4	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

All_Anions_00054 Amount Added: 0.05 Units: mL

TestAmerica Savannah

Data File: \\ChromNAI\g1\Savannah\ChromData\CICH\20150327-18218.b\0326152122-33.d

Injection Date: 26-Mar-2015 21:22:00

Instrument ID: CICH

Operator ID:

Lims ID: 680-110788-B-2 MSD

Worklist Smp#: 30

Client ID: 25LM20114MSD

Injection Vol: 25.0 ul

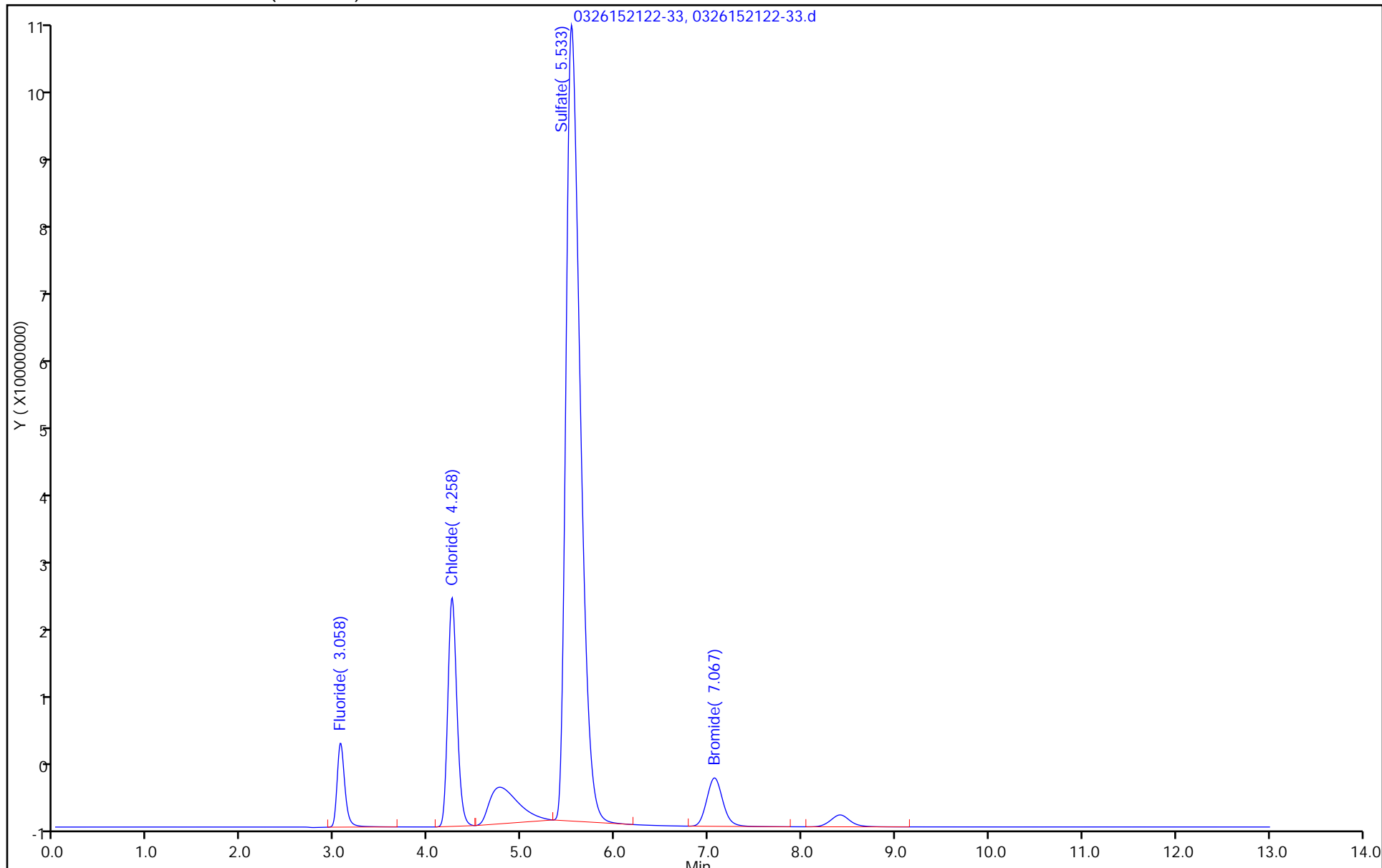
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Client Sample ID: 25LM20114MSD MSD Lab Sample ID: 680-110788-2 MSD
 Matrix: Water Lab File ID: 0327151343-14.d
 Analysis Method: 300.0 Date Collected: 03/18/2015 12:15
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 13:43
 Con. Extract Vol.: 5(mL) Dilution Factor: 2
 Injection Volume: 25(uL) GC Column: Dionex AS18 ID: 4(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 376449 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	89.2		2.0	0.80

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\0327151343-14.d
 Lims ID: 680-110788-B-2 MSD
 Client ID: 25LM20114MSD
 Sample Type: MSD
 Inject. Date: 27-Mar-2015 13:43:00 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 25.0 ul Dil. Factor: 2.0000
 Sample Info: 680-110788-B-2 MSD 1H032715
 Misc. Info.: 28625 3903826
 Operator ID: Instrument ID: CICH
 Method: \\ChromNA\g1\Savannah\ChromData\CICH\20150327-18237.b\300.0_9056A_CICH.m
 Limit Group: Anions - 28D - ORGFRMS
 Last Update: 30-Mar-2015 10:17:47 Calib Date: 04-Mar-2015 17:05:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g1\Savannah\ChromData\CICH\20150304-17578.b\0304151705-10.d
 Column 1 : Dionex Ion Pac AS18 (4.00 mm) Det: 0118131406-12
 Process Host: XAWRK027

First Level Reviewer: orra Date: 27-Mar-2015 15:01:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.067	3.067	0.000	63481100	1.00	2.07	
2 Chloride	4.258	4.258	0.000	196880956	5.00	10.7	
3 Sulfate	5.617	5.600	0.017	638315385	5.00	44.6	M
4 Bromide	7.050	7.075	-0.025	77023875	5.00	10.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

All_Anions_00054 Amount Added: 0.05 Units: mL

TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151343-14.d

Injection Date: 27-Mar-2015 13:43:00

Instrument ID: CICH

Operator ID:

Lims ID: 680-110788-B-2 MSD

Worklist Smp#: 11

Client ID: 25LM20114MSD

Injection Vol: 25.0 ul

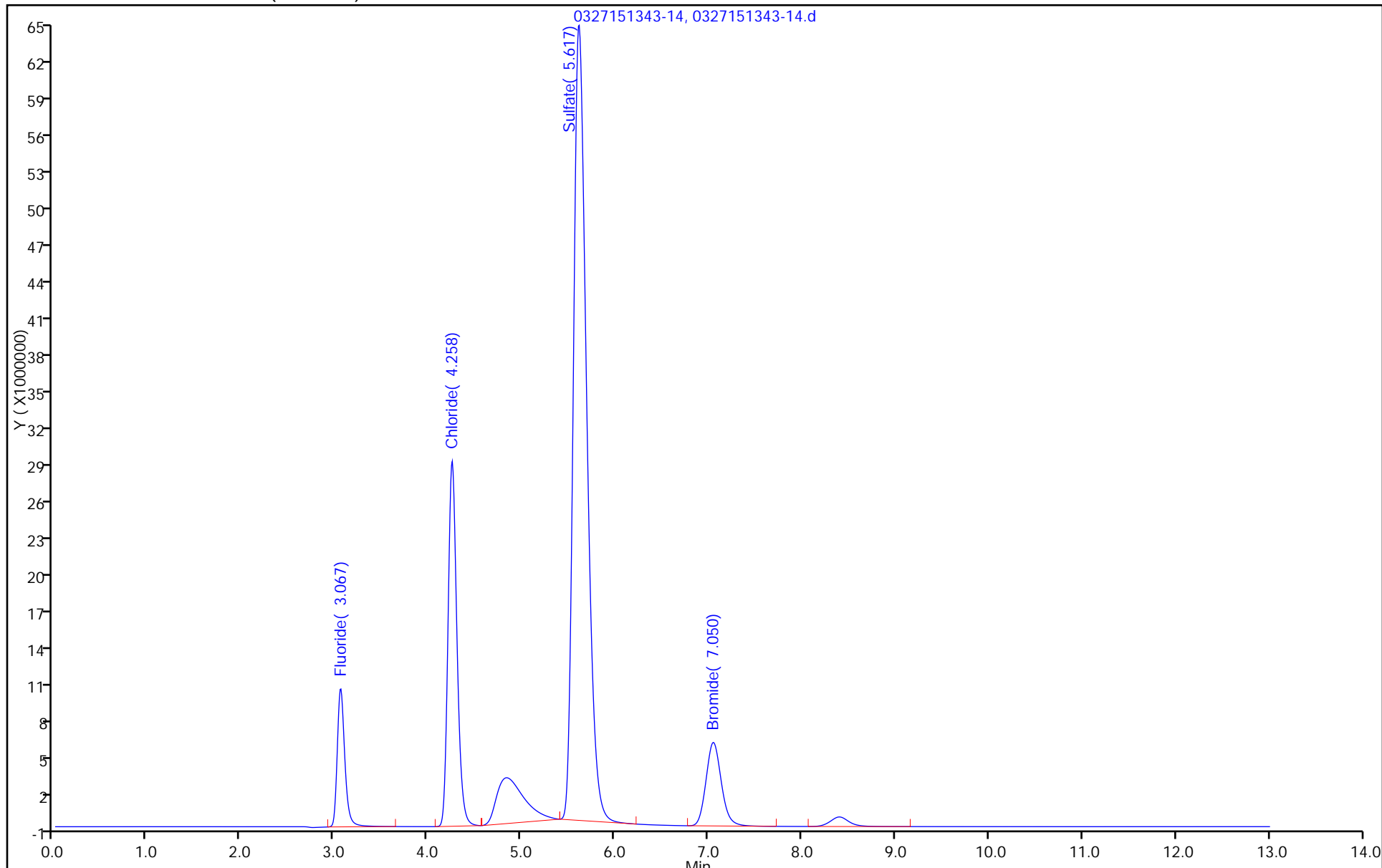
Dil. Factor: 2.0000

ALS Bottle#: 0

Method: 300.0_9056A_CICH

Limit Group: Anions - 28D - ORGFRMS

Column: Dionex Ion Pac AS18 (4.00 mm)



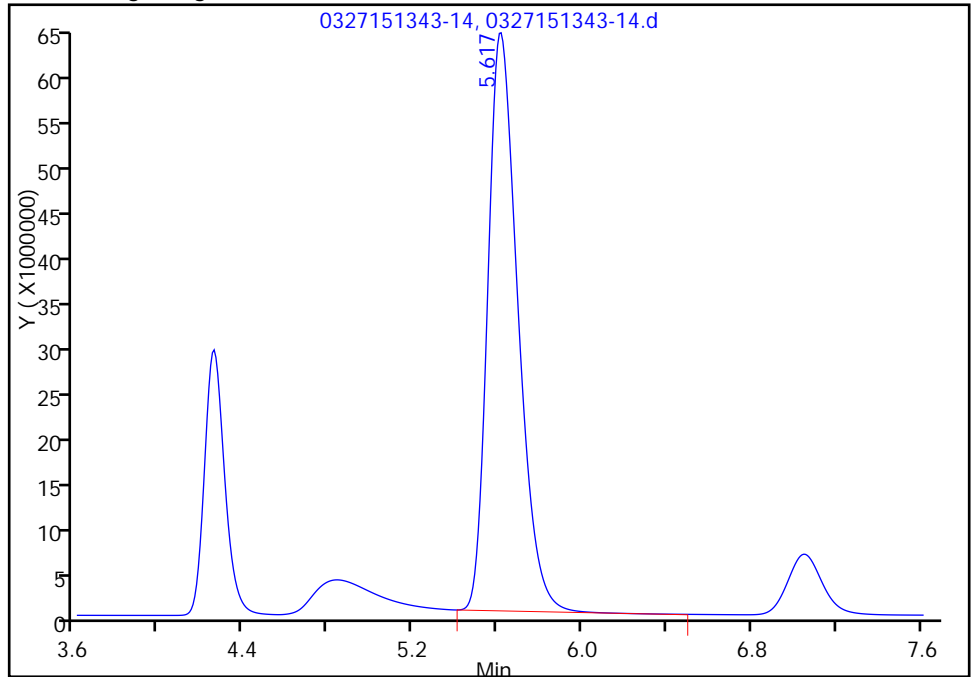
TestAmerica Savannah

Data File: \\ChromNA\lg1\Savannah\ChromData\CICH\20150327-18237.b\0327151343-14.d
Injection Date: 27-Mar-2015 13:43:00 Instrument ID: CICH
Lims ID: 680-110788-B-2 MSD
Client ID: 25LM20114MSD
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 25.0 ul Dil. Factor: 2.0000
Method: 300.0_9056A_CICH Limit Group: Anions - 28D - ORGFRMS
Column: Dionex Ion Pac AS18 (4.00 mm) Detector: 0118131406-12

3 Sulfate, CAS: 14808-79-8

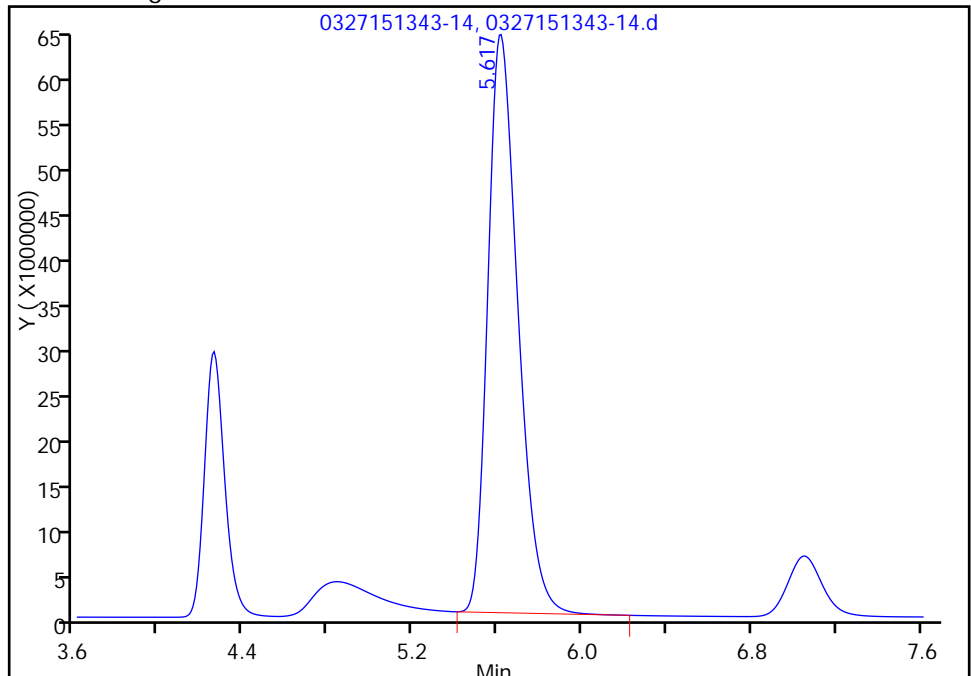
RT: 5.62
Area: 638646338
Amount: 44.634282
Amount Units: ug/ml

Processing Integration Results



RT: 5.62
Area: 638315385
Amount: 44.611004
Amount Units: ug/ml

Manual Integration Results



Reviewer: orra, 27-Mar-2015 15:01:01
Audit Action: Manually Integrated
Audit Reason: Peak Tail

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CICH Start Date: 03/04/2015 15:33

Analysis Batch Number: 373322 End Date: 03/04/2015 17:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-373322/1		03/04/2015 15:33	1	0304151533-4.d	Dionex AS18 4 (mm)
IC 680-373322/2		03/04/2015 15:48	1	0304151548-5.d	Dionex AS18 4 (mm)
IC 680-373322/3		03/04/2015 16:04	1	0304151604-6.d	Dionex AS18 4 (mm)
IC 680-373322/4		03/04/2015 16:19	1	0304151619-7.d	Dionex AS18 4 (mm)
IC 680-373322/5		03/04/2015 16:34	1	0304151634-8.d	Dionex AS18 4 (mm)
IC 680-373322/6		03/04/2015 16:50	1	0304151650-9.d	Dionex AS18 4 (mm)
IC 680-373322/7		03/04/2015 17:05	1	0304151705-10.d	Dionex AS18 4 (mm)
ICB 680-373322/8		03/04/2015 17:21	1		Dionex AS18 4 (mm)
ICV 680-373322/9		03/04/2015 17:36	1	0304151736-12.d	Dionex AS18 4 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica SavannahJob No.: 680-110788-1

SDG No.: _____

Instrument ID: CICHStart Date: 03/26/2015 13:56Analysis Batch Number: 376322End Date: 03/26/2015 22:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 680-376322/1		03/26/2015 13:56	1	0326151356-4.d	Dionex AS18 4 (mm)
MB 680-376322/2		03/26/2015 14:11	1	0326151411-5.d	Dionex AS18 4 (mm)
LCS 680-376322/3		03/26/2015 14:27	1	0326151427-6.d	Dionex AS18 4 (mm)
LCSD 680-376322/4		03/26/2015 14:42	1	0326151442-7.d	Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 14:57	1		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 15:13	1		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 15:28	4		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 15:44	1		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 15:59	1		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 16:14	2		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 16:30	2		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 16:45	1		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 17:01	4		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 17:16	4		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 17:31	4		Dionex AS18 4 (mm)
CCV 680-376322/16		03/26/2015 17:47	1	0326151747-19.d	Dionex AS18 4 (mm)
CCB 680-376322/17		03/26/2015 18:02	1	0326151802-20.d	Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 18:18	1		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 18:33	4		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 18:48	1		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 19:04	2		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 19:19	1		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 19:35	2		Dionex AS18 4 (mm)
ZZZZZ		03/26/2015 19:50	10		Dionex AS18 4 (mm)
680-110788-1	25LM20113	03/26/2015 20:05	1	0326152005-28.d	Dionex AS18 4 (mm)
CCV 680-376322/26		03/26/2015 20:21	1	0326152021-29.d	Dionex AS18 4 (mm)
CCB 680-376322/27		03/26/2015 20:36	1	0326152036-30.d	Dionex AS18 4 (mm)
680-110788-2	25LM20114	03/26/2015 20:52	1	0326152052-31.d	Dionex AS18 4 (mm)
680-110788-2 MS	25LM20114MS MS	03/26/2015 21:07	1	0326152107-32.d	Dionex AS18 4 (mm)
680-110788-2 MSD	25LM20114MSD MSD	03/26/2015 21:22	1	0326152122-33.d	Dionex AS18 4 (mm)
680-110788-3	25LM20115	03/26/2015 21:38	1	0326152138-34.d	Dionex AS18 4 (mm)
680-110788-4	25LM00112	03/26/2015 21:53	1	0326152153-35.d	Dionex AS18 4 (mm)
CCV 680-376322/33		03/26/2015 22:09	1	0326152209-36.d	Dionex AS18 4 (mm)
CCB 680-376322/34		03/26/2015 22:24	1	0326152224-37.d	Dionex AS18 4 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: CICH Start Date: 03/27/2015 11:09

Analysis Batch Number: 376449 End Date: 03/27/2015 19:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 680-376449/1		03/27/2015 11:09	1	0327151109-4.d	Dionex AS18 4 (mm)
MB 680-376449/2		03/27/2015 11:25	1	0327151125-5.d	Dionex AS18 4 (mm)
LCS 680-376449/3		03/27/2015 11:40	1	0327151140-6.d	Dionex AS18 4 (mm)
LCSD 680-376449/4		03/27/2015 11:56	1	0327151156-7.d	Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 12:11	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 12:26	4		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 12:42	4		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 12:57	4		Dionex AS18 4 (mm)
680-110788-2	25LM20114	03/27/2015 13:13	2	0327151313-12.d	Dionex AS18 4 (mm)
680-110788-2 MS	25LM20114MS MS	03/27/2015 13:28	2	0327151328-13.d	Dionex AS18 4 (mm)
680-110788-2 MSD	25LM20114MSD MSD	03/27/2015 13:43	2	0327151343-14.d	Dionex AS18 4 (mm)
680-110788-3	25LM20115	03/27/2015 13:59	2	0327151359-15.d	Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 14:14	4		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 14:30	10		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 14:45	10		Dionex AS18 4 (mm)
CCV 680-376449/16		03/27/2015 15:00	1	0327151500-19.d	Dionex AS18 4 (mm)
CCB 680-376449/17		03/27/2015 15:16	1	0327151516-20.d	Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 15:31	10		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 15:47	20		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 16:02	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 16:17	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 16:33	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 16:48	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 17:04	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 17:19	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 17:34	1		Dionex AS18 4 (mm)
CCV 680-376449/27		03/27/2015 17:50	1		Dionex AS18 4 (mm)
CCB 680-376449/28		03/27/2015 18:05	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 18:21	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 18:36	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 18:52	1		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 19:07	2		Dionex AS18 4 (mm)
ZZZZZ		03/27/2015 19:22	1		Dionex AS18 4 (mm)
CCV 680-376449/34		03/27/2015 19:38	1		Dionex AS18 4 (mm)
CCB 680-376449/35		03/27/2015 19:53	1		Dionex AS18 4 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-110788-1

SDG No.: _____

Project: SEAD-25 Long Term Monitoring

Client Sample ID	Lab Sample ID
<u>25LM20113</u>	<u>680-110788-1</u>
<u>25LM20114</u>	<u>680-110788-2</u>
<u>25LM20115</u>	<u>680-110788-3</u>
<u>25LM00112</u>	<u>680-110788-4</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG ID.:

Matrix: Water

Date Sampled: 03/18/2015 11:00

Reporting Basis: WET

Date Received: 03/19/2015 08:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	340	100	50	ug/L			1	6010C
7440-23-5	Sodium	2500	1000	500	ug/L			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG ID.:

Matrix: Water

Date Sampled: 03/18/2015 12:15

Reporting Basis: WET

Date Received: 03/19/2015 08:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	ND	100	50	ug/L			1	6010C
7440-23-5	Sodium	6000	1000	500	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG ID.:

Matrix: Water

Date Sampled: 03/18/2015 12:15

Reporting Basis: WET

Date Received: 03/19/2015 08:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	ND	100	50	ug/L			1	6010C
7440-23-5	Sodium	5800	1000	500	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG ID.:

Matrix: Water

Date Sampled: 03/18/2015 14:30

Reporting Basis: WET

Date Received: 03/19/2015 08:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	ND	100	50	ug/L			1	6010C
7440-23-5	Sodium	ND	1000	500	ug/L			1	6010C

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

ICV Source: P_ICV_wk_00232 Concentration Units: ug/L

CCV Source: P_CCV_wk_00131

Analyte	ICV 680-375799/4 03/23/2015 12:12				CCV 680-375799/12 03/23/2015 12:58				CCV 680-375799/112 03/23/2015 20:58			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	989		1000	99	4910		5000	98	4840		5000	97
Sodium	9920		10000	99	7350		7500	98	7110		7500	95

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

ICV Source: P_ICV_wk_00232 Concentration Units: ug/L

CCV Source: P_CCV_wk_00131

Analyte	CCV 680-375799/124 03/23/2015 21:55				CCV 680-375799/136 03/23/2015 22:52							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	4840		5000	97	4840		5000	97				
Sodium	7290		7500	97	7230		7500	96				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-375799/6 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00037

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	50.0	52.9	J	106	70-130
Sodium	1000	957	J	96	70-130

Lab Sample ID: CRI 680-375799/144 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00037

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	50.0	57.3	J	115	70-130
Sodium	1000	1090		109	70-130

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICBIS 680-375799/5 03/23/2015 12:16		CCB 680-375799/13 03/23/2015 13:03		CCB 680-375799/113 03/23/2015 21:03		CCB 680-375799/125 03/23/2015 22:00	
		Found	C	Found	C	Found	C	Found	C
Iron	100	ND		ND		ND		ND	
Sodium	1000	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 680-375799/137 03/23/2015 22:57							
		Found	C	Found	C	Found	C	Found	C
Iron	100	ND							
Sodium	1000	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 680-375688/1-A
Instrument Code: ICPE Batch No.: 375799

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	ND			6010C
7440-23-5	Sodium	ND			6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG No.: _____

Lab Sample ID: ICSA 680-375799/7

Instrument ID: ICPE

Lab File ID: E03232015.csv

ICS Source: P_ICSA_wk_00041

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
Iron	200000	187276	94
Sodium		-161	
<i>Aluminum</i>	<i>500000</i>	<i>541499</i>	<i>108</i>
<i>Antimony</i>		<i>2.44</i>	
<i>Arsenic</i>		<i>-0.0615</i>	
<i>Barium</i>		<i>-2.85</i>	
<i>Beryllium</i>		<i>-0.149</i>	
<i>Boron</i>		<i>6.58</i>	
<i>Cadmium</i>		<i>0.310</i>	
<i>Calcium</i>	<i>500000</i>	<i>510390</i>	<i>102</i>
<i>Chromium</i>		<i>-0.439</i>	
<i>Cobalt</i>		<i>-3.88</i>	
<i>Copper</i>		<i>2.15</i>	
<i>Lead</i>		<i>-1.29</i>	
<i>Magnesium</i>	<i>500000</i>	<i>504758</i>	<i>101</i>
<i>Manganese</i>		<i>1.79</i>	
<i>Molybdenum</i>		<i>0.750</i>	
<i>Nickel</i>		<i>-1.22</i>	
<i>Potassium</i>		<i>-0.546</i>	
<i>Selenium</i>		<i>-1.00</i>	
<i>Silver</i>		<i>0.0981</i>	
<i>Strontium</i>		<i>-9.16</i>	
<i>Thallium</i>		<i>0.502</i>	
<i>Tin</i>		<i>-4.20</i>	
<i>Titanium</i>		<i>2.37</i>	
<i>Vanadium</i>		<i>4.01</i>	
<i>Zinc</i>		<i>4.17</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG No.: _____

Lab Sample ID: ICSAB 680-375799/8

Instrument ID: ICPE

Lab File ID: E03232015.csv

ICS Source: P_ICSAB_wk_00057

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	187858	94
Sodium		-324	
<i>Aluminum</i>	<i>500000</i>	<i>542341</i>	<i>108</i>
<i>Antimony</i>	<i>600</i>	<i>637</i>	<i>106</i>
<i>Arsenic</i>	<i>100</i>	<i>107</i>	<i>107</i>
<i>Barium</i>	<i>500</i>	<i>496</i>	<i>99</i>
<i>Beryllium</i>	<i>500</i>	<i>478</i>	<i>96</i>
<i>Boron</i>		<i>6.05</i>	
<i>Cadmium</i>	<i>1000</i>	<i>922</i>	<i>92</i>
<i>Calcium</i>	<i>500000</i>	<i>514040</i>	<i>103</i>
<i>Chromium</i>	<i>500</i>	<i>497</i>	<i>99</i>
<i>Cobalt</i>	<i>500</i>	<i>471</i>	<i>94</i>
<i>Copper</i>	<i>500</i>	<i>572</i>	<i>114</i>
<i>Lead</i>	<i>50.0</i>	<i>41.8</i>	<i>84</i>
<i>Magnesium</i>	<i>500000</i>	<i>506660</i>	<i>101</i>
<i>Manganese</i>	<i>500</i>	<i>511</i>	<i>102</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1012</i>	<i>101</i>
<i>Nickel</i>	<i>1000</i>	<i>925</i>	<i>92</i>
<i>Potassium</i>		<i>-1.76</i>	
<i>Selenium</i>	<i>50.0</i>	<i>49.2</i>	<i>98</i>
<i>Silver</i>	<i>200</i>	<i>216</i>	<i>108</i>
<i>Strontium</i>		<i>-8.90</i>	
<i>Thallium</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Tin</i>	<i>1000</i>	<i>1030</i>	<i>103</i>
<i>Titanium</i>		<i>2.37</i>	
<i>Vanadium</i>	<i>500</i>	<i>495</i>	<i>99</i>
<i>Zinc</i>	<i>1000</i>	<i>915</i>	<i>91</i>

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: 25LM20114MS MS Lab ID: 680-110788-2 MS
 Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Iron	4880	ND	5000	98	75-125		6010C
Sodium	10700	6000	5000	94	75-125		6010C

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: 25LM20114MSD MSD Lab ID: 680-110788-2 MSD
 Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Iron	5300	5000	106	75-125	8	20		6010C
Sodium	10800	5000	96	75-125	1	20		6010C

SDR = Sample Duplicate Result

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

7A-IN
 LAB CONTROL SAMPLE
 METALS

Lab ID: LCS 680-375688/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

Sample Matrix: Water

LCS Source: MS_LCS1_WK_00018

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	5000	4990		100	80	120		6010C
Sodium	5000	4910		98	80	120		6010C

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-110788-1
SDG Number: _____
Matrix: Water Instrument ID: ICPE
Method: 6010C MDL Date: 06/02/2009 00:00
Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Iron		100	50
Sodium		1000	500

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-110788-1
SDG Number: _____
Matrix: Water Instrument ID: ICPE
Method: 6010C XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Iron		100	50
Sodium		1000	500

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-110788-1

SDG No.: _____

ICP-AES Instrument ID: ICPE Date: 11/14/2014

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215									-0.001000			0.000016		
Antimony	206.834						0.000900				0.009000		0.000013		
Arsenic	188.980												-0.000010		
Barium	389.178												0.000035		0.000092
Beryllium	313.042														
Boron	249.678												-0.000141		
Cadmium	226.502												0.000089		
Calcium	370.602												-0.003690		
Chromium	267.716								-0.000200				0.000009		
Cobalt	228.615										0.000200		0.000006		
Copper	324.754												0.000006		
Iron	271.441									0.072100	0.001160				
Lead	220.353		-0.000009							-0.000200	0.000520		0.000043		
Magnesium	279.078		-0.000142												
Manganese	257.610												0.000014		0.000035
Molybdenum	202.032												-0.000007		
Nickel	231.604									-0.000800			0.000028		
Potassium	766.491														
Selenium	196.026												0.000020		
Silver	328.068												-0.000002		
Sodium	330.237												-0.005002		
Strontium	216.596							0.000029					0.000113		
Thallium	190.794									0.002530			-0.000145		
Tin	189.925														
Titanium	334.941														0.000006
Vanadium	292.401										-0.001640		0.000014		
Zinc	206.200										-0.001860		-0.000033		

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-110788-1

SDG No.: _____

ICP-AES Instrument ID: ICPE Date: 11/14/2014

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Aluminum	308.215		0.003600										-0.019788	
Antimony	206.834		-0.012400						0.000200					
Arsenic	188.980		-0.000430											
Barium	389.178		0.000218										0.000095	
Beryllium	313.042		-0.000082										0.000030	
Boron	249.678						0.000900							
Cadmium	226.502										-0.000040			
Calcium	370.602	0.008900									0.155000		0.003040	
Chromium	267.716	0.000090									0.000040		-0.000200	
Cobalt	228.615		-0.002400						-0.000060		0.001850			
Copper	324.754		0.000550										-0.000200	
Iron	271.441		0.000760										0.004220	
Lead	220.353	0.000130	-0.000970									-0.000325		
Magnesium	279.078	-0.007600												
Manganese	257.610													
Molybdenum	202.032												-0.000160	
Nickel	231.604													
Potassium	766.491													
Selenium	196.026	0.000500												
Silver	328.068	0.000061								-0.000400			0.000028	
Sodium	330.237										-0.000825			-0.435620
Strontium	216.596		-0.001000		-0.002275									
Thallium	190.794	-0.000466	-0.003133										0.001500	
Tin	189.925													
Titanium	334.941													
Vanadium	292.401		-0.007430								0.000275			
Zinc	206.200													

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-375688/1-A	03/23/2015 10:46	375688		50	50
LCS 680-375688/2-A	03/23/2015 10:46	375688		50	50
680-110788-2	03/23/2015 10:46	375688		50	50
680-110788-2 MS	03/23/2015 10:46	375688		50	50
680-110788-2 MSD	03/23/2015 10:46	375688		50	50
680-110788-1	03/23/2015 10:46	375688		50	50
680-110788-3	03/23/2015 10:46	375688		50	50
680-110788-4	03/23/2015 10:46	375688		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 03/23/2015 11:57 End Date: 03/23/2015 23:40

Lab Sample ID	D / F	Type	Time	Analytes															
				F	N														
ZZZZZZ			11:57																
ZZZZZZ			12:02																
ZZZZZZ			12:07																
ICV 680-375799/4	1		12:12	X	X														
ICBIS 680-375799/5	1		12:16	X	X														
CRI 680-375799/6	1		12:21	X	X														
ICSA 680-375799/7	1		12:35	X	X														
ICSAB 680-375799/8	1		12:39	X	X														
ZZZZZZ			12:44																
ZZZZZZ			12:49																
ZZZZZZ			12:54																
CCV 680-375799/12	1		12:58	X	X														
CCB 680-375799/13	1		13:03	X	X														
ZZZZZZ			13:08																
ZZZZZZ			13:12																
CCV 680-375799/16			13:17																
CCB 680-375799/17			13:22																
ZZZZZZ			13:27																
ZZZZZZ			13:31																
ZZZZZZ			13:36																
ZZZZZZ			13:41																
ZZZZZZ			13:46																
ZZZZZZ			13:50																
ZZZZZZ			13:55																
ZZZZZZ			14:00																
ZZZZZZ			14:04																
ZZZZZZ			14:09																
CCV 680-375799/28			14:14																
CCB 680-375799/29			14:19																
ZZZZZZ			14:23																
ZZZZZZ			14:28																
ZZZZZZ			14:33																
ZZZZZZ			14:38																
ZZZZZZ			14:46																
ZZZZZZ			14:51																
ZZZZZZ			14:56																
ZZZZZZ			15:01																
ZZZZZZ			15:05																
ZZZZZZ			15:10																
CCV 680-375799/40			15:15																
CCB 680-375799/41			15:20																
ZZZZZZ			15:24																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 03/23/2015 11:57 End Date: 03/23/2015 23:40

Lab Sample ID	D / F	Type	Time	Analytes																
				Fe	Na															
ZZZZZZ			15:29																	
ZZZZZZ			15:34																	
ZZZZZZ			15:39																	
ZZZZZZ			15:43																	
ZZZZZZ			15:48																	
ZZZZZZ			15:53																	
ZZZZZZ			15:57																	
ZZZZZZ			16:02																	
ZZZZZZ			16:07																	
CCV 680-375799/52			16:12																	
CCB 680-375799/53			16:16																	
ZZZZZZ			16:21																	
ZZZZZZ			16:26																	
ZZZZZZ			16:31																	
ZZZZZZ			16:35																	
ZZZZZZ			16:40																	
ZZZZZZ			16:45																	
ZZZZZZ			16:50																	
ZZZZZZ			16:54																	
ZZZZZZ			16:59																	
ZZZZZZ			17:04																	
CCV 680-375799/64			17:08																	
CCB 680-375799/65			17:13																	
ZZZZZZ			17:18																	
ZZZZZZ			17:23																	
ZZZZZZ			17:27																	
ZZZZZZ			17:32																	
ZZZZZZ			17:39																	
ZZZZZZ			17:44																	
ZZZZZZ			17:49																	
ZZZZZZ			17:54																	
ZZZZZZ			17:58																	
ZZZZZZ			18:03																	
CCV 680-375799/76			18:08																	
CCB 680-375799/77			18:13																	
ZZZZZZ			18:17																	
ZZZZZZ			18:22																	
ZZZZZZ			18:27																	
ZZZZZZ			18:32																	
ZZZZZZ			18:36																	
ZZZZZZ			18:41																	
ZZZZZZ			18:46																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 03/23/2015 11:57 End Date: 03/23/2015 23:40

Lab Sample ID	D / F	Type	Time	Analytes															
				Fe	Na														
ZZZZZZ			18:50																
ZZZZZZ			18:55																
ZZZZZZ			19:00																
CCV 680-375799/88			19:05																
CCB 680-375799/89			19:09																
ZZZZZZ			19:14																
ZZZZZZ			19:19																
ZZZZZZ			19:24																
ZZZZZZ			19:28																
ZZZZZZ			19:33																
ZZZZZZ			19:38																
ZZZZZZ			19:43																
ZZZZZZ			19:47																
ZZZZZZ			19:52																
ZZZZZZ			19:57																
CCV 680-375799/100			20:02																
CCB 680-375799/101			20:06																
ZZZZZZ			20:11																
ZZZZZZ			20:16																
ZZZZZZ			20:21																
ZZZZZZ			20:25																
ZZZZZZ			20:30																
ZZZZZZ			20:35																
ZZZZZZ			20:39																
ZZZZZZ			20:44																
ZZZZZZ			20:49																
ZZZZZZ			20:54																
CCV 680-375799/112	1		20:58	X	X														
CCB 680-375799/113	1		21:03	X	X														
ZZZZZZ			21:08																
ZZZZZZ			21:13																
ZZZZZZ			21:17																
MB 680-375688/1-A	1	T	21:22	X	X														
LCS 680-375688/2-A	1	T	21:27	X	X														
ZZZZZZ			21:32																
ZZZZZZ			21:36																
ZZZZZZ			21:41																
ZZZZZZ			21:46																
ZZZZZZ			21:51																
CCV 680-375799/124	1		21:55	X	X														
CCB 680-375799/125	1		22:00	X	X														
680-110788-2	1	T	22:05	X	X														

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Blank (Blk) 3/23/2015, 11:57:59 AM Rack S, Tube 1

Label	Replicates Concentration		
Ag 328.068	-0.1981	0.0312	0.1670
Al 308.215	-0.4554	0.9837	-0.5283
As 188.980	1.5854	-0.4218	-1.1636
B 249.678	-0.2556	0.0505	0.2051
Ba 389.178	0.1297	0.1455	-0.2752
Be 313.042	0.0038	0.0018	-0.0056
Ca 370.602	-0.5315	-0.1101	0.6416
Cd 226.502	-0.1353	0.0298	0.1055
Co 228.615	-0.1249	0.1270	-0.0021
Cr 267.716	0.0396	-0.0143	-0.0253
Cu 324.754	0.1470	0.0100	-0.1570
Fe 271.441	-2.2803	0.9899	1.2905
K 766.491	0.0878	0.1477	-0.2355
Mg 279.078	1.4778	-1.0841	-0.3937
Mn 257.610	0.0312	-0.0007	-0.0305
Mo 202.032	-0.2722	0.1148	0.1574
Na 330.237	-53.9875	39.8438	14.1436
Ni 231.604	-0.5455	-0.3546	0.9001
Pb 220.353	-0.9270	2.0943	-1.1673
Sb 206.834	1.4196	0.1935	-1.6130
Se 196.026	1.8764	-0.6761	-1.2003
Sn 189.925	0.6645	0.6838	-1.3483
Sr 216.596	0.2663	0.1334	-0.3997
Ti 334.941	-0.0638	0.0364	0.0274
Tl 190.794	-0.1846	2.0812	-1.8966
V 292.401	0.0316	0.0543	-0.0859
Zn 206.200	1.4401	-0.7998	-0.6403

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	16.604	975.1	-1.7027
Al 308.215	0.0000	ppb	6.290	1.7	372.675
As 188.980	0.0000	ppb	1.029	23.2	-4.4274
B 249.678	0.0000	ppb	4.211	11.2	37.6185
Ba 389.178	0.0000	ppb	5.448	13.3	-40.8118
Be 313.042	0.0000	ppb	9.507	2.0	-464.855
Ca 370.602	0.0000	ppb	1.862	8.5	22.03
Cd 226.502	0.0000	ppb	5.509	17.1	32.1699
Co 228.615	0.0000	ppb	1.419	33.7	-4.2148
Cr 267.716	0.0000	ppb	1.867	6.2	30.3443
Cu 324.754	0.0000	ppb	12.310	3.0	409.595
Fe 271.441	0.0000	ppb	3.116	38.4	8.1243
K 766.491	0.0000	ppb	9.448	2.1	440.609
Mg 279.078	0.0000	ppb	3.828	17.1	22.3582
Mn 257.610	0.0000	ppb	7.032	9.3	75.3013
Mo 202.032	0.0000	ppb	1.532	19.7	7.7752
Na 330.237	0.0000	ppb	2.515	7.2	35.1091
Ni 231.604	0.0000	ppb	2.458	72.6	-3.3874
Pb 220.353	0.0000	ppb	2.906	31.2	9.3065
Sb 206.834	0.0000	ppb	2.213	200.9	1.1014
Se 196.026	0.0000	ppb	0.781	623.5	0.1253
Sn 189.925	0.0000	ppb	0.855	14.8	-5.7955
Sr 216.596	0.0000	ppb	4.168	140.3	2.9710
Ti 334.941	0.0000	ppb	16.127	66.0	-24.4342

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Tl 190.794	0.0000	ppb	2.201	22.0	-9.9930
V 292.401	0.0000	ppb	2.153	33.4	-6.4463
Zn 206.200	0.0000	ppb	1.293	62.0	2.0862

HIGH STD (Std) 3/23/2015, 12:02:44 PM Rack S, Tube 2

Label	Replicates Concentration		
Ag 328.068	1000.28	998.443	1001.27
Al 308.215	10000.4	10007.9	9991.72
As 188.980	1000.29	1003.47	996.239
B 249.678	995.203	1001.10	1003.70
Ba 389.178	10008.4	10004.7	9986.88
Be 313.042	1000.63	1001.93	997.437
Ca 370.602	9988	10022	9990
Cd 226.502	1001.89	1000.60	997.514
Co 228.615	1000.76	999.935	999.304
Cr 267.716	10009.6	10028.2	9962.19
Cu 324.754	9991.12	10042.8	9966.09
Fe 271.441	10005.6	10010.3	9984.17
K 766.491	19962.4	20039.5	19998.1
Mg 279.078	10012.4	10000.8	9986.79
Mn 257.610	9970.93	10006.5	10022.6
Mo 202.032	1001.21	1001.54	997.255
Na 330.237	14909.4	14978.6	15112.0
Ni 231.604	5004.10	5008.02	4987.88
Pb 220.353	1002.25	1000.15	997.596
Sb 206.834	2004.74	2006.36	1988.90
Se 196.026	10001.7	10028.6	9969.76
Sn 189.925	10039.9	10037.1	9923.02
Sr 216.596	5015.35	4998.88	4985.77
Ti 334.941	999.858	1000.81	999.331
Tl 190.794	10029.1	9986.87	9984.01
V 292.401	10001.8	10010.8	9987.44
Zn 206.200	5017.87	4993.83	4988.30

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	129.221	0.1	89967.2
Al 308.215	10000.0	ppb	59.764	0.1	74134.7
As 188.980	1000.00	ppb	2.621	0.4	718.934
B 249.678	1000.00	ppb	78.174	0.4	17996.1
Ba 389.178	10000.0	ppb	262.897	0.1	228389
Be 313.042	1000.00	ppb	4427.371	0.2	1914631
Ca 370.602	10000	ppb	60.248	0.2	31352
Cd 226.502	1000.00	ppb	100.565	0.2	44764.8
Co 228.615	1000.00	ppb	8.226	0.1	11259.2
Cr 267.716	10000.0	ppb	1830.275	0.3	537839
Cu 324.754	10000.0	ppb	3163.300	0.4	809062
Fe 271.441	10000.0	ppb	21.883	0.1	15739.8
K 766.491	20000.0	ppb	1768.926	0.2	917004
Mg 279.078	10000.0	ppb	37.004	0.1	28898.0
Mn 257.610	10000.0	ppb	6026.117	0.3	2280264
Mo 202.032	1000.00	ppb	15.422	0.2	6481.03
Na 330.237	15000.0	ppb	5.339	0.7	812.979
Ni 231.604	5000.00	ppb	33.412	0.2	15643.9

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Pb 220.353	1000.00	ppb	3.727	0.2	1607.98
Sb 206.834	2000.00	ppb	13.995	0.5	2901.82
Se 196.026	10000.0	ppb	13.974	0.3	4746.30
Sn 189.925	10000.0	ppb	48.820	0.7	7315.86
Sr 216.596	5000.00	ppb	175.271	0.3	59128.4
Ti 334.941	1000.00	ppb	217.976	0.1	290732
Tl 190.794	10000.0	ppb	27.861	0.3	11018.5
V 292.401	10000.0	ppb	336.928	0.1	286088
Zn 206.200	5000.00	ppb	16.273	0.3	5177.18

Ag 328.068 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.7027	0.0000	0.0000	-	-
HIGH STD		89967.2	1000.00	1000.00	0.0002	0.0

Curve Type: Linear Equation: $y = 90.0 x + -1.7$

Al 308.215 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		372.675	0.0000	0.0000	-	-
HIGH STD		74134.7	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 7.4 x + 372.7$

As 188.980 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.4274	0.0000	0.0000	-	-
HIGH STD		718.934	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 0.7 x + -4.4$

B 249.678 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		37.6185	0.0000	0.0000	-	-
HIGH STD		17996.1	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 18.0 x + 37.6$

Ba 389.178 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-40.8118	0.0000	0.0000	-	-
HIGH STD		228389	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 22.8 x + -40.8$

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Be 313.042 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-464.855	0.0000	0.0000	-	-
HIGH STD		1914631	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 1915.1 x + -464.9$ **Ca 370.602 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		22.03	0.0000	0.0000	-	-
HIGH STD		31352	10000	10000	0.0000	0.0

Curve Type: Linear Equation: $y = 3.1 x + 22.0$ **Cd 226.502 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		32.1699	0.0000	0.0000	-	-
HIGH STD		44764.8	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 44.7 x + 32.2$ **Co 228.615 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.2148	0.0000	0.0000	-	-
HIGH STD		11259.2	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 11.3 x + -4.2$ **Cr 267.716 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		30.3443	0.0000	0.0000	-	-
HIGH STD		537839	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 53.8 x + 30.3$ **Cu 324.754 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		409.595	0.0000	0.0000	-	-
HIGH STD		809062	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 80.9 x + 409.6$ **Fe 271.441 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.1243	0.0000	0.0000	-	-
HIGH STD		15739.8	10000.0	10000.0	0.0000	0.0

E03232015.vvq. All Data Report 3/26/2015, 2:01:10 PM

Curve Type: Linear Equation: $y = 1.6x + 8.1$ **K 766.491 Calibration (ppb)** 3/23/2015, 12:02:44 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		440.609	0.0000	0.0000	-	-
HIGH STD		917004	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 45.8x + 440.6$ **Mg 279.078 Calibration (ppb)** 3/23/2015, 12:02:44 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		22.3582	0.0000	0.0000	-	-
HIGH STD		28898.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 2.9x + 22.4$ **Mn 257.610 Calibration (ppb)** 3/23/2015, 12:02:44 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		75.3013	0.0000	0.0000	-	-
HIGH STD		2280264	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 228.0x + 75.3$ **Mo 202.032 Calibration (ppb)** 3/23/2015, 12:02:44 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.7752	0.0000	0.0000	-	-
HIGH STD		6481.03	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 6.5x + 7.8$ **Na 330.237 Calibration (ppb)** 3/23/2015, 12:02:44 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		35.1091	0.0000	0.0000	-	-
HIGH STD		812.979	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.1x + 35.1$ **Ni 231.604 Calibration (ppb)** 3/23/2015, 12:02:44 PM **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.3874	0.0000	0.0000	-	-
HIGH STD		15643.9	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 3.1x + -3.4$

E03232015.vvq. All Data Report 3/26/2015, 2:01:10 PM

Pb 220.353 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.3065	0.0000	0.0000	-	-
HIGH STD		1607.98	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 1.6 x + 9.3$ **Sb 206.834 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.1014	0.0000	0.0000	-	-
HIGH STD		2901.82	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.5 x + 1.1$ **Se 196.026 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.1253	0.0000	0.0000	-	-
HIGH STD		4746.30	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 0.5 x + 0.1$ **Sn 189.925 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.7955	0.0000	0.0000	-	-
HIGH STD		7315.86	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.7 x + -5.8$ **Sr 216.596 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.9710	0.0000	0.0000	-	-
HIGH STD		59128.4	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 11.8 x + 3.0$ **Ti 334.941 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-24.4342	0.0000	0.0000	-	-
HIGH STD		290732	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 290.8 x + -24.4$ **Tl 190.794 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-9.9930	0.0000	0.0000	-	-
HIGH STD		11018.5	10000.0	10000.0	0.0010	0.0

E03232015.vvq. All Data Report 3/26/2015, 2:01:10 PM

Curve Type: Linear Equation: $y = 1.1 x + -10.0$ **V 292.401 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-6.4463	0.0000	0.0000	-	-
HIGH STD		286088	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 28.6 x + -6.4$ **Zn 206.200 Calibration (ppb) 3/23/2015, 12:02:44 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.0862	0.0000	0.0000	-	-
HIGH STD		5177.18	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.0 x + 2.1$

Lab Control Sample (LCS) 3/23/2015, 12:07:27 PM Rack S, Tube 2
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	996.973	993.758	989.910
Al 308.215	10010.9	10003.0	10012.1
As 188.980	991.391	1002.06	1000.94
B 249.678	1003.82	1008.69	1014.75
Ba 389.178	9988.80	9973.78	9979.81
Be 313.042	996.634	994.135	1000.24
Ca 370.602	10003	10007	10041
Cd 226.502	995.401	997.870	999.526
Co 228.615	999.808	1000.06	999.672
Cr 267.716	9977.01	9911.35	9975.14
Cu 324.754	10047.4	9902.15	9987.87
Fe 271.441	9959.93	9969.43	9989.85
K 766.491	20013.7	19992.4	19986.3
Mg 279.078	9970.47	9963.58	9991.10
Mn 257.610	9978.15	9963.66	9992.58
Mo 202.032	998.689	997.233	997.877
Na 330.237	15343.5	15183.2	15131.0
Ni 231.604	4968.26	4978.48	4998.38
Pb 220.353	998.644	997.982	1001.69
Sb 206.834	1994.67	2006.23	2002.88
Se 196.026	9986.26	9960.64	9958.12
Sn 189.925	9929.92	9980.25	9977.93
Sr 216.596	4991.75	4995.90	5004.43
Ti 334.941	1001.83	998.792	998.891
Tl 190.794	9983.22	9957.44	9998.98
V 292.401	9986.34	9974.05	9991.87
Zn 206.200	4953.52	4979.56	5004.76

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	993.547b	ppb	3.5362	0.4	89284.6	99.35474
Al 308.215	10008.6b	ppb	4.9218	0.0	75677.2	100.08636

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	998.130b	ppb	5.8630	0.6	717.199	99.81304
B 249.678	1009.09b	ppb	5.4753	0.5	18166.4	20.18174*
Ba 389.178	9980.80b	ppb	7.5572	0.1	228006	99.80798
Be 313.042	997.002b	ppb	3.0674	0.3	1909299	99.70020
Ca 370.602	10017b	ppb	20.93	0.2	32149	100.16940
Cd 226.502	997.599b	ppb	2.0758	0.2	44713.2	99.75987
Co 228.615	999.848b	ppb	0.1984	0.0	11267.7	99.98476
Cr 267.716	9954.50b	ppb	37.3824	0.4	535330	99.54501
Cu 324.754	9979.14b	ppb	73.0181	0.7	807263	99.79140
Fe 271.441	9973.07b	ppb	15.2872	0.2	15896.4	99.73067
K 766.491	19997.4b	ppb	14.3862	0.1	916886	99.98714
Mg 279.078	9975.05b	ppb	14.3170	0.1	28602.8	99.75050
Mn 257.610	9978.13b	ppb	14.4629	0.1	2275389	99.78131
Mo 202.032	997.933b	ppb	0.7298	0.1	6456.85	99.79328
Na 330.237	15219.2b	ppb	110.734	0.7	760.834	101.46154
Ni 231.604	4981.71b	ppb	15.3166	0.3	15585.1	99.63412
Pb 220.353	999.437b	ppb	1.9751	0.2	1615.60	99.94373
Sb 206.834	2001.26b	ppb	5.9505	0.3	3020.26	100.06302
Se 196.026	9968.34b	ppb	15.5731	0.2	4733.74	99.68341
Sn 189.925	9962.70b	ppb	28.4155	0.3	7288.56	99.62698
Sr 216.596	4997.36b	ppb	6.4636	0.1	58968.0	99.94714
Ti 334.941	999.839b	ppb	1.7291	0.2	290703	99.98392
Tl 190.794	9979.88b	ppb	20.9712	0.2	11015.7	99.79882
V 292.401	9984.09b	ppb	9.1231	0.1	284956	99.84088
Zn 206.200	4979.28b	ppb	25.6200	0.5	5136.88	99.58567

Initial Calib Verif (ICV)

3/23/2015, 12:12:10 PM

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	967.226	949.213	955.597
Al 308.215	988.890	985.956	988.027
As 188.980	952.490	946.020	948.169
B 249.678	995.438	993.052	1000.57
Ba 389.178	992.306	987.557	991.028
Be 313.042	991.884	986.799	988.243
Ca 370.602	960.7	946.3	953.4
Cd 226.502	983.397	976.133	979.247
Co 228.615	1018.13	1009.00	1008.40
Cr 267.716	1013.57	1007.52	1013.06
Cu 324.754	990.912	987.636	987.502
Fe 271.441	996.646	987.732	981.494
K 766.491	10204.7	10179.0	10230.4
Mg 279.078	981.831	974.445	981.495
Mn 257.610	1029.06	1022.29	1026.29
Mo 202.032	989.819	980.876	982.831
Na 330.237	9736.23	10040.7	9983.13
Ni 231.604	1005.89	993.724	1011.16
Pb 220.353	988.523	976.672	979.272
Sb 206.834	1009.09	1001.87	1012.32
Se 196.026	962.178	952.244	952.557
Sn 189.925	4928.93	4906.54	4958.70
Sr 216.596	4977.02	4950.26	4966.14
Ti 334.941	965.013	961.348	966.377

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	971.012	970.751	981.555
V 292.401	1021.14	1014.77	1020.51
Zn 206.200	1000.58	991.884	993.942

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	957.345	ppb	9.1326	1.0	85958.4	95.73454
Al 308.215	987.624	ppb	1.5079	0.2	7824.34	98.76242
As 188.980	948.893	ppb	3.2955	0.3	681.651	94.88933
B 249.678	996.352	ppb	3.8390	0.4	17943.6	99.63517
Ba 389.178	990.297	ppb	2.4571	0.2	22590.5	99.02968
Be 313.042	988.975	ppb	2.6205	0.3	1893419	98.89754
Ca 370.602	953.4	ppb	7.188	0.8	3503	95.34368
Cd 226.502	979.592	ppb	3.6440	0.4	43856.2	97.95924
Co 228.615	1011.84	ppb	5.4528	0.5	11385.0	101.18446
Cr 267.716	1011.39	ppb	3.3558	0.3	54409.9	101.13866
Cu 324.754	988.683	ppb	1.9312	0.2	80387.6	98.86832
Fe 271.441	988.624	ppb	7.6150	0.8	1687.59	98.86240
K 766.491	10204.7	ppb	25.6890	0.3	468103	102.04699
Mg 279.078	979.257	ppb	4.1705	0.4	2827.11	97.92572
Mn 257.610	1025.88	ppb	3.4042	0.3	234007	102.58820
Mo 202.032	984.508	ppb	4.7016	0.5	6379.65	98.45083
Na 330.237	9920.03	ppb	161.752	1.6	537.052	99.20026
Ni 231.604	1003.59	ppb	8.9406	0.9	3134.87	100.35892
Pb 220.353	981.489	ppb	6.2289	0.6	1577.15	98.14891
Sb 206.834	1007.76	ppb	5.3502	0.5	1460.93	100.77589
Se 196.026	955.660	ppb	5.6474	0.6	453.951	95.56596
Sn 189.925	4931.39	ppb	26.1689	0.5	3604.80	98.62783
Sr 216.596	4964.47	ppb	13.4584	0.3	58671.4	99.28942
Ti 334.941	964.246	ppb	2.6005	0.3	280337	96.42461
Tl 190.794	974.439	ppb	6.1635	0.6	1066.11	97.44392
V 292.401	1018.80	ppb	3.5125	0.3	28891.1	101.88046
Zn 206.200	995.470	ppb	4.5467	0.5	1030.51	99.54701

Initial Calib Blank (ICB) 3/23/2015, 12:16:53 PM Rack S, Tube 1
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2026	0.0084	-0.0152u
Al 308.215	3.6455	6.0338	6.0642
As 188.980	3.4848	-3.2400u	-0.2680u
B 249.678	17.9614	16.8446	14.7761
Ba 389.178	-0.3395u	-1.0176u	-0.9473u
Be 313.042	0.0496	0.0527	0.0596
Ca 370.602	2.922	2.819	3.721
Cd 226.502	0.0284	0.0237	-0.0327u
Co 228.615	-0.4175u	0.1541	-0.6165u
Cr 267.716	0.1502	0.3678	0.0767
Cu 324.754	-0.1691u	-0.1034u	0.0797
Fe 271.441	-2.7150u	3.1439	1.5469
K 766.491	1.3167	1.1250	1.5448
Mg 279.078	0.6199	-2.1143u	3.2475
Mn 257.610	0.1429	0.0948	0.1828
Mo 202.032	0.1080	0.8721	0.0274
Na 330.237	59.3396	-82.4584u	11.6063

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	-0.5258u	-0.0634u	-1.4522u
Pb 220.353	1.0769	-2.3311u	1.1248
Sb 206.834	2.4233	4.4093	3.5331
Se 196.026	5.7506	0.4010	-0.8984u
Sn 189.925	1.5749	5.0157	0.7178
Sr 216.596	0.0771	0.1339	-0.2935u
Ti 334.941	0.3608	0.2954	0.2942
Tl 190.794	-1.2465u	-1.9548u	0.8677
V 292.401	-0.0440u	-0.3429u	0.1159
Zn 206.200	-0.4757u	-0.0523u	0.1555

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0653	ppb	0.1195	183.1	4.1755	0.06527
Al 308.215	5.2478	ppb	1.3877	26.4	411.387	5.24784
As 188.980	-0.0078	ppb	3.3700	43477.2	-4.4331	-0.00775
B 249.678	16.5274	ppb	1.6162	9.8	334.484	16.52738
Ba 389.178	-0.7681	ppb	0.3729	48.5	-58.3591	-0.76813
Be 313.042	0.0540	ppb	0.0051	9.5	-361.486	0.05399
Ca 370.602	3.154	ppb	0.4939	15.7	32.08	3.15408
Cd 226.502	0.0065	ppb	0.0340	525.4	32.4484	0.00648
Co 228.615	-0.2933	ppb	0.4000	136.4	-7.5200	-0.29327
Cr 267.716	0.1982	ppb	0.1514	76.4	41.0035	0.19822
Cu 324.754	-0.0642	ppb	0.1289	200.7	404.412	-0.06423
Fe 271.441	0.6586	ppb	3.0288	459.9	9.1244	0.65860
K 766.491	1.3288	ppb	0.2102	15.8	501.508	1.32885
Mg 279.078	0.5843	ppb	2.6811	458.8	24.0406	0.58432
Mn 257.610	0.1402	ppb	0.0441	31.4	107.252	0.14016
Mo 202.032	0.3359	ppb	0.4661	138.8	9.9494	0.33586
Na 330.237	-3.8376	ppb	72.1495	1880.1	34.9119	-3.83758
Ni 231.604	-0.6805	ppb	0.7072	103.9	-5.5163	-0.68047
Pb 220.353	-0.0431	ppb	1.9816	4594.8	9.2371	-0.04313
Sb 206.834	3.4552	ppb	0.9953	28.8	6.1112	3.45523
Se 196.026	1.7511	ppb	3.5241	201.3	0.9564	1.75106
Sn 189.925	2.4361	ppb	2.2747	93.4	-4.0119	2.43614
Sr 216.596	-0.0275	ppb	0.2321	844.4	2.6556	-0.02749
Ti 334.941	0.3168	ppb	0.0381	12.0	67.6837	0.31680
Tl 190.794	-0.7779	ppb	1.4684	188.8	-10.8524	-0.77787
V 292.401	-0.0903	ppb	0.2329	257.8	-9.0924	-0.09034
Zn 206.200	-0.1242	ppb	0.3217	259.1	1.9572	-0.12417

CRI (CRI)

3/23/2015, 12:21:36 PM

Rack S, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.1803	9.9957	10.0861
Al 308.215	217.773	216.216	215.045
As 188.980	25.1205	18.8561	19.2054
B 249.678	106.664	106.995	106.246
Ba 389.178	9.7215	10.3191	8.6896
Be 313.042	4.3342	4.3273	4.3097
Ca 370.602	528.7	527.7	524.7
Cd 226.502	4.9754	5.0674	4.9945
Co 228.615	9.8678	10.0866	10.1777
Cr 267.716	10.5861	10.6865	10.6168

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	21.5084	22.0853	21.3304
Fe 271.441	51.1172	54.6844	52.7534
K 766.491	1083.73	1089.19	1082.68
Mg 279.078	514.284	519.196	514.869
Mn 257.610	10.9663	10.9314	10.9704
Mo 202.032	9.7760	10.6451	10.0012
Na 330.237	961.227	870.866	1038.77
Ni 231.604	41.7711	42.7866	41.5601
Pb 220.353	10.6865	9.8593	10.5336
Sb 206.834	24.3734	22.4084	22.0392
Se 196.026	25.0095	22.4879	19.2901
Sn 189.925	46.7518	52.6586	52.3318
Sr 216.596	10.1033	10.2214	9.6282
Ti 334.941	10.3435	10.4054	10.3314
Tl 190.794	24.3438	27.5495	25.9576
V 292.401	10.3799	10.2030	10.5128
Zn 206.200	20.7832	20.1448	20.1643

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.0874	ppb	0.0923	0.9	905.562	100.87371
Al 308.215	216.345	ppb	1.3686	0.6	1970.19	108.17239
As 188.980	21.0607	ppb	3.5203	16.7	10.8036	105.30346
B 249.678	106.635	ppb	0.3750	0.4	1952.85	106.63492
Ba 389.178	9.5767	ppb	0.8243	8.6	179.154	95.76741
Be 313.042	4.3237	ppb	0.0127	0.3	7814.53	108.09317
Ca 370.602	527.0	ppb	2.091	0.4	1678	105.40460
Cd 226.502	5.0124	ppb	0.0485	1.0	256.666	100.24856
Co 228.615	10.0441	ppb	0.1593	1.6	108.853	100.44067
Cr 267.716	10.6298	ppb	0.0514	0.5	601.978	106.29813
Cu 324.754	21.6413	ppb	0.3946	1.8	2159.93	108.20672
Fe 271.441	52.8517	ppb	1.7856	3.4	92.4909	105.70333
K 766.491	1085.20	ppb	3.4977	0.3	50173.4	108.52013
Mg 279.078	516.116	ppb	2.6831	0.5	1512.35	103.22327
Mn 257.610	10.9560	ppb	0.0214	0.2	2577.79	109.56024
Mo 202.032	10.1408	ppb	0.4510	4.4	73.4059	101.40766
Na 330.237	956.955	ppb	84.0339	8.8	84.4742	95.69546
Ni 231.604	42.0393	ppb	0.6558	1.6	128.153	105.09822
Pb 220.353	10.3598	ppb	0.4401	4.2	25.8558	103.59781
Sb 206.834	22.9403	ppb	1.2548	5.5	34.3519	114.70168
Se 196.026	22.2625	ppb	2.8664	12.9	10.6945	111.31256
Sn 189.925	50.5807	ppb	3.3199	6.6	31.2382	101.16145
Sr 216.596	9.9843	ppb	0.3140	3.1	120.043	99.84303
Ti 334.941	10.3601	ppb	0.0397	0.4	2988.68	103.60095
Tl 190.794	25.9503	ppb	1.6029	6.2	18.6338	103.80109
V 292.401	10.3652	ppb	0.1554	1.5	287.516	103.65212
Zn 206.200	20.3641	ppb	0.3631	1.8	23.1447	101.82046

Interf Check A (ICSA)

3/23/2015, 12:35:02 PM

Rack S, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5885u	0.3618u	0.5210
Al 308.215	541559	541762	541176
As 188.980	-4.8810u	-2.3723u	7.0689

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	6.5686u	6.6649u	6.4991u
Ba 389.178	-2.9180	-2.8024	-2.8313
Be 313.042	-0.1543u	-0.1471u	-0.1450u
Ca 370.602	512593	508339	510238
Cd 226.502	0.4765	0.2613	0.1930
Co 228.615	-4.2464u	-3.4660u	-3.9371u
Cr 267.716	-0.3892	-0.2981	-0.6295
Cu 324.754	2.2704	1.9418	2.2360
Fe 271.441	187451	187314	187063
K 766.491	-0.5161u	-0.6377u	-0.4838u
Mg 279.078	505804	505229	503242
Mn 257.610	1.7254	1.8209	1.8117
Mo 202.032	0.3630u	1.3693	0.5164u
Na 330.237	-201.958u	-126.630u	-155.898u
Ni 231.604	-1.6444	0.3630	-2.3908
Pb 220.353	-1.5330	-3.2727u	0.9489
Sb 206.834	-4.9777u	9.5727	2.7388
Se 196.026	-5.9439u	8.1524	-5.2123u
Sn 189.925	-2.3351u	-5.0780u	-5.1739u
Sr 216.596	-9.7724	-8.4074	-9.2999
Ti 334.941	2.4082	2.3377	2.3562
Tl 190.794	1.5707u	0.3265u	-0.3917u
V 292.401	4.1000	3.9853	3.9502
Zn 206.200	3.9718	2.3187	6.2237

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0981	ppb	0.5999	611.7	-34.3936	0.09807
Al 308.215	541499	ppb	297.593	0.1	3994605	-
As 188.980	-0.0615	ppb	6.3012	10253.5	-5.8098	-0.06145
B 249.678	6.5775	ppb	0.0832	1.3	-312.567	6.57755
Ba 389.178	-2.8505	ppb	0.0602	2.1	1110.69	-2.85055
Be 313.042	-0.1488	ppb	0.0049	3.3	-540.478	-0.14879
Ca 370.602	510390	ppb	2131	0.4	1596943	-
Cd 226.502	0.3103	ppb	0.1479	47.7	1121.08	0.31027
Co 228.615	-3.8831	ppb	0.3930	10.1	-35.3163	-3.88313
Cr 267.716	-0.4389	ppb	0.1712	39.0	101.921	-0.43891
Cu 324.754	2.1494	ppb	0.1806	8.4	673.084	2.14943
Fe 271.441	187276	ppb	196.543	0.1	294625	-
K 766.491	-0.5459	ppb	0.0812	14.9	415.592	-0.54589
Mg 279.078	504758	ppb	1344.67	0.3	1457329	-
Mn 257.610	1.7860	ppb	0.0527	2.9	5138.02	1.78600
Mo 202.032	0.7496	ppb	0.5421	72.3	4.2417	0.74956
Na 330.237	-161.495	ppb	37.9746	23.5	-21.3683	-161.49510
Ni 231.604	-1.2241	ppb	1.4242	116.4	9.2296	-1.22406
Pb 220.353	-1.2856	ppb	2.1217	165.0	12.4002	-1.28562
Sb 206.834	2.4446	ppb	7.2797	297.8	8.1568	2.44461
Se 196.026	-1.0013	ppb	7.9357	792.6	1.4113	-1.00127
Sn 189.925	-4.1957	ppb	1.6120	38.4	-8.8679	-4.19568
Sr 216.596	-9.1599	ppb	0.6932	7.6	322.435	-9.15989
Ti 334.941	2.3674	ppb	0.0366	1.5	1600.56	2.36737
Tl 190.794	0.5018	ppb	0.9929	197.9	-39.0062	0.50184
V 292.401	4.0118	ppb	0.0783	2.0	36.7664	4.01184
Zn 206.200	4.1714	ppb	1.9602	47.0	12.7193	4.17139

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Interf Check AB (ICSAB) 3/23/2015, 12:39:46 PM Rack S, Tube 6

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	215.595	216.646	216.543
Al 308.215	541247	542388	543387
As 188.980	102.471	109.476	108.514
B 249.678	5.5747u	6.2759u	6.3025u
Ba 389.178	495.767	496.843	495.999
Be 313.042	478.068	478.492	478.405
Ca 370.602	512295	512933	516892
Cd 226.502	918.623	922.403	923.773
Co 228.615	468.528	473.270	471.283
Cr 267.716	495.364	497.295	498.683
Cu 324.754	572.109	569.747	573.313
Fe 271.441	187325	187888	188362
K 766.491	-1.8044u	-1.6328u	-1.8358u
Mg 279.078	506245	505901	507835
Mn 257.610	508.931	511.104	511.491
Mo 202.032	1006.61	1012.13	1016.09
Na 330.237	-266.673u	-368.155u	-338.532u
Ni 231.604	923.593	925.032	926.137
Pb 220.353	41.2982	41.1752	42.8641
Sb 206.834	634.356	642.915	633.625
Se 196.026	49.3548	58.9965	39.1799
Sn 189.925	1031.40	1025.01	1034.55
Sr 216.596	-8.9671	-9.1135	-8.6095
Ti 334.941	2.3802	2.3563	2.3711
Tl 190.794	98.9648	100.824	100.711
V 292.401	493.982	495.264	495.293
Zn 206.200	908.884	919.471	915.339

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	216.261	ppb	0.5797	0.3	19417.6	108.13070
Al 308.215	542341	ppb	1070.87	0.2	4000907	108.46818
As 188.980	106.820	ppb	3.7974	3.6	71.1849	106.82001
B 249.678	6.0510	ppb	0.4127	6.8	-313.693	-
Ba 389.178	496.203	ppb	0.5665	0.1	12521.6	99.24061
Be 313.042	478.322	ppb	0.2238	0.0	915646	95.66433
Ca 370.602	514040	ppb	2491	0.5	1608391	102.80795
Cd 226.502	921.599	ppb	2.6675	0.3	42336.1	92.15994
Co 228.615	471.027	ppb	2.3811	0.5	5286.87	94.20538
Cr 267.716	497.114	ppb	1.6669	0.3	26848.4	99.42281
Cu 324.754	571.723	ppb	1.8143	0.3	46769.3	114.34460
Fe 271.441	187858	ppb	518.833	0.3	295600	93.92916
K 766.491	-1.7576	ppb	0.1093	6.2	360.060	-
Mg 279.078	506660	ppb	1032.11	0.2	1462809	101.33202
Mn 257.610	510.509	ppb	1.3799	0.3	121156	102.10176
Mo 202.032	1011.61	ppb	4.7619	0.5	6547.26	101.16077
Na 330.237	-324.453	ppb	52.1849	16.1	-41.0995	-
Ni 231.604	924.920	ppb	1.2755	0.1	2906.43	92.49205
Pb 220.353	41.7792	ppb	0.9415	2.3	80.0600	83.55836
Sb 206.834	636.965	ppb	5.1659	0.8	917.666	106.16087
Se 196.026	49.1771	ppb	9.9095	20.2	25.3530	98.35411
Sn 189.925	1030.32	ppb	4.8626	0.5	748.568	103.03186
Sr 216.596	-8.8967	ppb	0.2593	2.9	291.277	-

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	2.3692	ppb	0.0121	0.5	1605.03	-
Tl 190.794	100.166	ppb	1.0422	1.0	69.6964	100.16647
V 292.401	494.846	ppb	0.7489	0.2	13840.4	98.96922
Zn 206.200	914.565	ppb	5.3355	0.6	954.054	91.45647

LRA1 (Samp)

3/23/2015, 12:44:32 PM

Rack S, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1399	-0.7807	-0.1567
Al 308.215	47.0580	44.4165	44.0965
As 188.980	19459.9x	19566.6x	19586.7x
B 249.678	4918.22	4957.82	4973.66
Ba 389.178	-1.2181u	-1.2716u	-0.7472u
Be 313.042	0.1095	0.1124	0.1138
Ca 370.602	-1514	-1509	-1506
Cd 226.502	-0.7150u	-0.6016u	-0.6767u
Co 228.615	9789.36	9817.65	9823.10
Cr 267.716	-0.5503	-0.8029	-0.5700
Cu 324.754	-3.2967u	-2.8311u	-2.8958u
Fe 271.441	73.8110	74.9985	76.5815
K 766.491	-3.0729u	-1.9249u	-2.9653u
Mg 279.078	-0.7626u	-2.3488u	-5.3050u
Mn 257.610	27403.5x	27421.7x	27524.1x
Mo 202.032	0.5139	0.1154	0.4670
Na 330.237	-968.191u	-1116.36u	-1049.57u
Ni 231.604	10052.3x	10071.0x	10054.7x
Pb 220.353	20000.9x	20051.4x	20062.9x
Sb 206.834	4.8793	2.9126	5.3363
Se 196.026	6.1377	7.4363	-5.5323
Sn 189.925	3.6432	0.7454	1.7260
Sr 216.596	-0.1565u	0.0464u	-0.3486u
Ti 334.941	27508.0x	27657.6x	27664.5x
Tl 190.794	-5.2265	2.7412	-9.3190
V 292.401	0.6558	0.4325	0.7461
Zn 206.200	-0.1368u	-2.9886u	-2.4906u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3591b	ppb	0.3652	101.7	117.825
Al 308.215	45.1903b	ppb	1.6253	3.6	635.132
As 188.980	19537.8xb	ppb	68.1938	0.3	14128.4
B 249.678	4949.90b	ppb	28.5562	0.6	88928.7
Ba 389.178	-1.0790b	ppb	0.2886	26.7	-65.2969
Be 313.042	0.1119b	ppb	0.0022	2.0	-266.799
Ca 370.602	-1510b	ppb	3.647	0.2	9458
Cd 226.502	-0.6644b	ppb	0.0577	8.7	-42.4966
Co 228.615	9810.04b	ppb	18.1117	0.2	111066
Cr 267.716	-0.6411b	ppb	0.1405	21.9	188.471
Cu 324.754	-3.0079b	ppb	0.2523	8.4	166.301
Fe 271.441	75.1304b	ppb	1.3899	1.9	1242.18
K 766.491	-2.6544b	ppb	0.6340	23.9	318.962
Mg 279.078	-2.8054b	ppb	2.3054	82.2	-588.881
Mn 257.610	27449.8xb	ppb	65.0253	0.2	6259141
Mo 202.032	0.3654b	ppb	0.2178	59.6	10.0973

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-1044.71b	ppb	74.2039	7.1	-20.4087
Ni 231.604	10059.3xb	ppb	10.2022	0.1	31452.4
Pb 220.353	20038.4xb	ppb	32.9994	0.2	32032.4
Sb 206.834	4.3761b	ppb	1.2878	29.4	7.4808
Se 196.026	2.6806b	ppb	7.1421	266.4	7.9261
Sn 189.925	2.0382b	ppb	1.4739	72.3	-4.3039
Sr 216.596	-0.1529b	ppb	0.1975	129.2	-268.475
Ti 334.941	27610.0xb	ppb	88.4529	0.3	8027750
Tl 190.794	-3.9348b	ppb	6.1330	155.9	27.1437
V 292.401	0.6115b	ppb	0.1614	26.4	227.815
Zn 206.200	-1.8720b	ppb	1.5232	81.4	0.1688

LRA2 (Samp) 3/23/2015, 12:49:18 PM Rack S, Tube 8
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7235u	0.8632u	-0.2418u
Al 308.215	833963x	845681x	846124x
As 188.980	53.9708	50.5738	59.9964
B 249.678	98.3918u	88.0797u	82.0156u
Ba 389.178	2.4122	3.7443	4.0528
Be 313.042	-0.1965u	-0.1859u	-0.1692u
Ca 370.602	808154	807545	810541
Cd 226.502	9.9800	9.2337	9.1161
Co 228.615	-14.8341u	-13.4592u	-13.4788u
Cr 267.716	-6.3960	-5.9269	-5.8393
Cu 324.754	0.4142	-0.0130	-0.4220
Fe 271.441	899142	901274	902173
K 766.491	-0.6281u	-0.5500u	-0.8229u
Mg 279.078	763972	767912	765496
Mn 257.610	6.8742	6.6746	6.4467
Mo 202.032	3.4987u	1.7696u	2.1908u
Na 330.237	-524.156u	-223.917u	-270.194u
Ni 231.604	-18.1811	-17.4900	-21.5007
Pb 220.353	-17.3973	-20.3978	-22.8719
Sb 206.834	7.4280	10.7719	7.9053
Se 196.026	-2.8236	9.5405	-9.3176
Sn 189.925	4.7191	-3.8520u	1.6088
Sr 216.596	8.7779	9.7093	9.4756
Ti 334.941	6.4009	5.8022	5.4448
Tl 190.794	25.4221u	26.9965u	27.3986u
V 292.401	18.3837	17.7782	18.1107
Zn 206.200	-17.8048	-13.8219	-20.7890

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4483	ppb	0.6017	134.2	-138.052
Al 308.215	841923x	ppb	6896.60	0.8	6210676
As 188.980	54.8470	ppb	4.7720	8.7	28.8119
B 249.678	89.4957	ppb	8.2794	9.3	-607.708
Ba 389.178	3.4031	ppb	0.8719	25.6	2370.02
Be 313.042	-0.1838	ppb	0.0137	7.5	-513.929
Ca 370.602	808747	ppb	1584	0.2	2523554
Cd 226.502	9.4433	ppb	0.4685	5.0	5600.34
Co 228.615	-13.9240	ppb	0.7882	5.7	-100.588

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-6.0541	ppb	0.2993	4.9	143.261
Cu 324.754	-0.0069	ppb	0.4181	6040.3	840.339
Fe 271.441	900863	ppb	1556.52	0.2	1417218
K 766.491	-0.6670	ppb	0.1405	21.1	410.041
Mg 279.078	765793	ppb	1986.56	0.3	2210964
Mn 257.610	6.6652	ppb	0.2139	3.2	10603.2
Mo 202.032	2.4864	ppb	0.9016	36.3	-16.4608
Na 330.237	-339.423	ppb	161.648	47.6	-213.388
Ni 231.604	-19.0573	ppb	2.1441	11.3	15.3093
Pb 220.353	-20.2223	ppb	2.7415	13.6	26.3725
Sb 206.834	8.7017	ppb	1.8086	20.8	30.5838
Se 196.026	-0.8669	ppb	9.5801	1105.1	8.1706
Sn 189.925	0.8253	ppb	4.3389	525.7	-5.1931
Sr 216.596	9.3210	ppb	0.4846	5.2	1559.12
Ti 334.941	5.8826	ppb	0.4831	8.2	3181.53
Tl 190.794	26.6057	ppb	1.0446	3.9	-122.880
V 292.401	18.0909	ppb	0.3032	1.7	159.095
Zn 206.200	-17.4719	ppb	3.4955	20.0	14.3879

LRA3 (Samp)

3/23/2015, 12:54:05 PM

Rack S, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0108u	-0.0669u	0.1024
Al 308.215	63.0341	57.8179	55.8052
As 188.980	15.9581	13.2688	13.9602
B 249.678	18.8267	17.6408	17.3722
Ba 389.178	0.1804	0.0648	-0.8777u
Be 313.042	0.0220	0.0196	0.0191
Ca 370.602	55.62	52.67	49.75
Cd 226.502	-0.0135u	0.1355	0.0671
Co 228.615	0.1888	0.1337	0.0078
Cr 267.716	0.1327	0.0401	0.0385
Cu 324.754	-0.0916u	-0.1352u	0.0742
Fe 271.441	68.1991	65.9388	68.8703
K 766.491	39634.5x	39652.5x	39768.2x
Mg 279.078	51.1788	48.2523	45.7673
Mn 257.610	0.3764	0.3551	0.3265
Mo 202.032	-0.2202u	0.0035	-0.2739u
Na 330.237	101743x	101754x	102086x
Ni 231.604	0.6639	-0.6645u	-0.0067
Pb 220.353	2.0932	0.5085	0.4682
Sb 206.834	2.3900	2.6282	-0.1612u
Se 196.026	-4.7577u	6.2724	2.7332
Sn 189.925	-3.3612u	0.8409	-0.9390u
Sr 216.596	0.1712	0.0137	-0.2198u
Ti 334.941	1.5596	1.4768	1.3968
Tl 190.794	0.1668	-4.8421u	-1.6642u
V 292.401	-0.1424u	0.0206u	0.2052
Zn 206.200	28667.6x	28558.2x	28716.1x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0082b	ppb	0.0862	1049.2	-0.9687
Al 308.215	58.8857b	ppb	3.7309	6.3	807.040

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	14.3957b	ppb	1.3965	9.7	5.9855
B 249.678	17.9466b	ppb	0.7740	4.3	359.901
Ba 389.178	-0.2108b	ppb	0.5804	275.3	-45.4757
Be 313.042	0.0202b	ppb	0.0016	7.8	-437.315
Ca 370.602	52.68b	ppb	2.938	5.6	187.0
Cd 226.502	0.0630b	ppb	0.0746	118.3	34.7378
Co 228.615	0.1101b	ppb	0.0928	84.3	-2.9087
Cr 267.716	0.0704b	ppb	0.0539	76.5	35.5020
Cu 324.754	-0.0509b	ppb	0.1105	217.1	405.505
Fe 271.441	67.6694b	ppb	1.5359	2.3	114.585
K 766.491	39685.1xb	ppb	72.5299	0.2	1819135
Mg 279.078	48.3995b	ppb	2.7088	5.6	162.084
Mn 257.610	0.3527b	ppb	0.0250	7.1	155.800
Mo 202.032	-0.1636b	ppb	0.1471	90.0	6.7134
Na 330.237	101861xb	ppb	194.687	0.2	4965.83
Ni 231.604	-0.0024b	ppb	0.6642	27167.0	-3.3568
Pb 220.353	1.0233b	ppb	0.9268	90.6	10.9458
Sb 206.834	1.6190b	ppb	1.5463	95.5	3.4544
Se 196.026	1.4160b	ppb	5.6318	397.7	0.7980
Sn 189.925	-1.1531b	ppb	2.1092	182.9	-6.6102
Sr 216.596	-0.0116b	ppb	0.1967	1693.4	2.9390
Ti 334.941	1.4777b	ppb	0.0814	5.5	397.659
Tl 190.794	-2.1132b	ppb	2.5345	119.9	-12.3333
V 292.401	0.0278b	ppb	0.1739	625.3	-6.4192
Zn 206.200	28647.3xb	ppb	80.8979	0.3	29652.6

Cont Calib Verif (CCV) 3/23/2015, 12:58:49 PM Rack 1, Tube 1
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration
Ag 328.068	484.120	486.956
Al 308.215	4806.31	4828.64
As 188.980	493.375	495.602
B 249.678	488.506	492.786
Ba 389.178	4911.54	4922.13
Be 313.042	491.275	492.330
Ca 370.602	4957	4976
Cd 226.502	492.362	493.399
Co 228.615	496.093	499.162
Cr 267.716	5015.61	5026.53
Cu 324.754	4965.90	5002.75
Fe 271.441	4894.04	4913.36
K 766.491	10228.2	10261.7
Mg 279.078	4879.42	4900.10
Mn 257.610	5002.95	5018.57
Mo 202.032	488.213	490.196
Na 330.237	7340.37	7321.24
Ni 231.604	2485.95	2486.59
Pb 220.353	488.103	493.544
Sb 206.834	974.174	980.214
Se 196.026	4869.94	4895.33
Sn 189.925	4854.85	4898.26
Sr 216.596	2454.01	2459.12
Ti 334.941	488.518	490.167

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	4985.69	4997.33	4976.46
V 292.401	4893.42	4904.97	4909.19
Zn 206.200	2457.82	2473.17	2460.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	486.526	ppb	2.2228	0.5	43721.1	97.30528
Al 308.215	4819.96	ppb	11.9649	0.2	36651.2	96.39916
As 188.980	496.367	ppb	3.4386	0.7	354.438	99.27335
B 249.678	491.857	ppb	2.9968	0.6	8873.99	98.37148
Ba 389.178	4919.33	ppb	6.8341	0.1	112358	98.38661
Be 313.042	491.990	ppb	0.6198	0.1	941944	98.39800
Ca 370.602	4968	ppb	9.917	0.2	15953	99.35120
Cd 226.502	492.711	ppb	0.5962	0.1	22099.9	98.54216
Co 228.615	497.165	ppb	1.7310	0.3	5600.90	99.43306
Cr 267.716	5022.96	ppb	6.3661	0.1	270140	100.45926
Cu 324.754	5003.51	ppb	38.0018	0.8	404965	100.07028
Fe 271.441	4905.82	ppb	10.3348	0.2	7824.44	98.11639
K 766.491	10259.1	ppb	29.7301	0.3	470597	102.59116
Mg 279.078	4889.73	ppb	10.3414	0.2	14029.8	97.79465
Mn 257.610	5014.90	ppb	10.6034	0.2	1143622	100.29798
Mo 202.032	488.833	ppb	1.1819	0.2	3166.82	97.76669
Na 330.237	7347.94	ppb	31.1925	0.4	384.740	97.97259
Ni 231.604	2488.27	ppb	3.4826	0.1	7782.75	99.53081
Pb 220.353	489.980	ppb	3.0886	0.6	796.938	97.99591
Sb 206.834	974.757	ppb	5.1905	0.5	1473.79	97.47566
Se 196.026	4874.93	ppb	18.4215	0.4	2315.09	97.49860
Sn 189.925	4890.09	ppb	31.9570	0.7	3574.57	97.80189
Sr 216.596	2457.10	ppb	2.7217	0.1	28994.0	98.28407
Ti 334.941	489.615	ppb	0.9497	0.2	142343	97.92291
Tl 190.794	4986.49	ppb	10.4589	0.2	5498.97	99.72987
V 292.401	4902.52	ppb	8.1620	0.2	139914	98.05049
Zn 206.200	2463.94	ppb	8.1356	0.3	2542.81	98.55759

Cont Calib Blank (CCB) 3/23/2015, 1:03:31 PM Rack 1, Tube 2
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0381u	0.0094	-0.1330u
Al 308.215	4.9540	3.8766	4.6556
As 188.980	2.9301	0.2404	4.0875
B 249.678	11.0806	10.4050	9.7714
Ba 389.178	0.0016	-0.2302u	0.0744
Be 313.042	0.0291	0.0246	0.0363
Ca 370.602	-3.076u	0.6863	-2.711u
Cd 226.502	-0.1016u	-0.0838u	-0.1355u
Co 228.615	-0.1982u	-0.0100u	0.0806
Cr 267.716	0.1678	0.1605	0.2948
Cu 324.754	-0.0239u	0.0784	-0.2721u
Fe 271.441	-1.1265u	-0.8983u	4.4526
K 766.491	-2.9317u	-3.0198u	-2.5811u
Mg 279.078	2.2762	0.1534	-1.2876u
Mn 257.610	0.0492	0.0405	0.0833
Mo 202.032	-0.2774u	0.1229	-0.0534u
Na 330.237	-0.7807u	-28.0844u	-73.6372u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	0.4528	0.2082	0.0914
Pb 220.353	0.3370	2.2871	1.0695
Sb 206.834	-0.9023u	1.9984	-0.7686u
Se 196.026	1.1928	-1.5038u	2.2421
Sn 189.925	0.6619	1.5682	2.4176
Sr 216.596	0.1402	-0.2345u	0.0585
Ti 334.941	0.4446	0.3962	0.3693
Tl 190.794	-0.9601u	0.8256	2.8301
V 292.401	-0.0155u	0.2155	-0.0138u
Zn 206.200	-0.2852u	-1.0669u	-1.5719u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0539	ppb	0.0725	134.5	-6.5511	-0.05389
Al 308.215	4.4954	ppb	0.5563	12.4	405.852	4.49543
As 188.980	2.4194	ppb	1.9738	81.6	-2.6773	2.41935
B 249.678	10.4190	ppb	0.6547	6.3	224.729	10.41897
Ba 389.178	-0.0514	ppb	0.1591	309.4	-41.9920	-0.05140
Be 313.042	0.0300	ppb	0.0059	19.8	-407.385	0.02999
Ca 370.602	-1.700	ppb	2.075	122.0	16.91	-1.70038
Cd 226.502	-0.1070	ppb	0.0263	24.6	27.3746	-0.10698
Co 228.615	-0.0425	ppb	0.1422	334.3	-4.6834	-0.04254
Cr 267.716	0.2077	ppb	0.0755	36.4	41.5115	0.20771
Cu 324.754	-0.0725	ppb	0.1802	248.4	403.720	-0.07255
Fe 271.441	0.8092	ppb	3.1573	390.2	9.3775	0.80924
K 766.491	-2.8442	ppb	0.2321	8.2	310.265	-2.84420
Mg 279.078	0.3806	ppb	1.7927	471.0	23.4544	0.38064
Mn 257.610	0.0577	ppb	0.0226	39.2	88.4304	0.05767
Mo 202.032	-0.0693	ppb	0.2006	289.4	7.3263	-0.06933
Na 330.237	-34.1674	ppb	36.8072	107.7	33.3471	-34.16737
Ni 231.604	0.2508	ppb	0.1844	73.5	-2.6022	0.25081
Pb 220.353	1.2312	ppb	0.9850	80.0	11.2749	1.23121
Sb 206.834	0.1091	ppb	1.6375	1500.5	1.2650	0.10913
Se 196.026	0.6437	ppb	1.9324	300.2	0.4308	0.64370
Sn 189.925	1.5492	ppb	0.8780	56.7	-4.6613	1.54924
Sr 216.596	-0.0119	ppb	0.1971	1649.2	2.8290	-0.01195
Ti 334.941	0.4034	ppb	0.0381	9.5	92.8523	0.40336
Tl 190.794	0.8986	ppb	1.8962	211.0	-9.0016	0.89857
V 292.401	0.0621	ppb	0.1329	214.2	-4.6496	0.06205
Zn 206.200	-0.9747	ppb	0.6483	66.5	1.0770	-0.97465

X (Samp) 3/23/2015, 1:08:14 PM Rack 1, Tube 3
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4358u	-0.1809u	-0.4332u
Al 308.215	118056	115541	113712
As 188.980	7.5667	-0.0450u	-0.6987u
B 249.678	11.4346	10.6733	10.4003
Ba 389.178	-0.5588u	-0.4558	0.5836
Be 313.042	0.3211	0.3067	0.2970
Ca 370.602	53365	52227	51312
Cd 226.502	0.1796	0.1293	0.1074
Co 228.615	1.0656	1.1183	1.3528
Cr 267.716	0.3973	0.2955	0.0564

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	-0.3237u	-0.1740u	-0.0454u
Fe 271.441	1362.06	1333.26	1310.47
K 766.491	305.348	298.863	293.412
Mg 279.078	5121.57	5022.19	4933.76
Mn 257.610	30.1476	29.5006	28.9779
Mo 202.032	-0.6784u	-0.2052u	-0.7835u
Na 330.237	1543.69	1491.22	1394.37
Ni 231.604	9.3702	9.2060	8.8029
Pb 220.353	-1.2872u	2.8933	2.3392
Sb 206.834	4.9025	3.3913	2.3712
Se 196.026	2.5123	6.2120	11.2859
Sn 189.925	-2.5134u	-0.2258u	1.3961
Sr 216.596	67.7560	66.3860	65.2455
Ti 334.941	0.6680	0.6504	0.6349
Tl 190.794	0.8040	1.3076	-0.0018u
V 292.401	-0.0512u	-0.1174u	-0.0228u
Zn 206.200	12.7430	12.4121	11.3810

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3500	ppb	0.1464	41.8	-35.2202
Al 308.215	115770	ppb	2180.91	1.9	854315
As 188.980	2.2744	ppb	4.5950	202.0	-2.7915
B 249.678	10.8360	ppb	0.5360	4.9	228.950
Ba 389.178	-0.1437	ppb	0.6319	439.8	-32.4414
Be 313.042	0.3083	ppb	0.0121	3.9	155.142
Ca 370.602	52301	ppb	1029	2.0	163868
Cd 226.502	0.1387	ppb	0.0370	26.7	46.0022
Co 228.615	1.1789	ppb	0.1529	13.0	9.1795
Cr 267.716	0.2497	ppb	0.1750	70.1	45.8219
Cu 324.754	-0.1810	ppb	0.1393	76.9	395.571
Fe 271.441	1335.26	ppb	25.8568	1.9	2108.86
K 766.491	299.208	ppb	5.9759	2.0	14152.7
Mg 279.078	5025.84	ppb	93.9591	1.9	14488.0
Mn 257.610	29.5420	ppb	0.5860	2.0	6856.59
Mo 202.032	-0.5557	ppb	0.3081	55.4	4.1184
Na 330.237	1476.43	ppb	75.7498	5.1	111.183
Ni 231.604	9.1263	ppb	0.2919	3.2	25.3351
Pb 220.353	1.3151	ppb	2.2706	172.7	9.8850
Sb 206.834	3.5550	ppb	1.2735	35.8	6.2935
Se 196.026	6.6700	ppb	4.4047	66.0	3.3105
Sn 189.925	-0.4477	ppb	1.9641	438.7	-6.1229
Sr 216.596	66.4625	ppb	1.2570	1.9	809.641
Ti 334.941	0.6511	ppb	0.0165	2.5	179.576
Tl 190.794	0.7033	ppb	0.6605	93.9	-9.4067
V 292.401	-0.0638	ppb	0.0486	76.1	-9.4946
Zn 206.200	12.1787	ppb	0.7103	5.8	14.7357

X (Samp) 3/23/2015, 1:12:58 PM Rack 1, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1750u	0.1019	-0.3888u
Al 308.215	8.2018	7.6963	6.2679
As 188.980	-0.6845u	1.3053	0.8935

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	3.8414	3.9005	3.4014
Ba 389.178	-0.6886u	-0.6655u	-1.9662u
Be 313.042	0.0208	0.0190	0.0202
Ca 370.602	-2.227u	3.474	-1.383u
Cd 226.502	-0.0177u	0.0156	-0.1145u
Co 228.615	-0.4213u	-0.2125u	-0.0449u
Cr 267.716	0.2476	0.1759	0.2553
Cu 324.754	-0.2188u	-0.1843u	-0.1251u
Fe 271.441	-1.3303u	2.9260	7.4895
K 766.491	-3.8031u	-3.4625u	-4.5093u
Mg 279.078	3.0263	1.8531	2.1147
Mn 257.610	-0.0353u	-0.0370u	-0.0423u
Mo 202.032	-0.0408u	-0.3711u	-0.1188u
Na 330.237	35.5411	112.469	22.3963
Ni 231.604	-0.1391u	-0.5563u	-0.9928u
Pb 220.353	0.0440	1.0046	-0.5745u
Sb 206.834	1.3493	-1.0356u	-1.6786u
Se 196.026	3.5317	1.5494	-5.5396u
Sn 189.925	-1.1146u	2.5939	-2.1946u
Sr 216.596	0.0708	-0.5844u	-0.2045u
Ti 334.941	0.3129	0.2689	0.3356
Tl 190.794	-0.7826u	-1.1466u	-1.3161u
V 292.401	-0.0782u	-0.1940u	-0.3609u
Zn 206.200	-0.9274u	-0.5644u	-0.4265u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1539	ppb	0.2460	159.8	-15.5430
Al 308.215	7.3887	ppb	1.0030	13.6	427.154
As 188.980	0.5048	ppb	1.0503	208.1	-4.0622
B 249.678	3.7145	ppb	0.2727	7.3	104.319
Ba 389.178	-1.1068	ppb	0.7444	67.3	-66.0923
Be 313.042	0.0200	ppb	0.0009	4.6	-426.483
Ca 370.602	-0.0453	ppb	3.077	6798.9	22.00
Cd 226.502	-0.0389	ppb	0.0676	173.9	30.4540
Co 228.615	-0.2262	ppb	0.1886	83.4	-6.7496
Cr 267.716	0.2263	ppb	0.0438	19.4	42.5173
Cu 324.754	-0.1761	ppb	0.0474	26.9	395.350
Fe 271.441	3.0284	ppb	4.4108	145.6	12.8474
K 766.491	-3.9250	ppb	0.5340	13.6	260.735
Mg 279.078	2.3314	ppb	0.6159	26.4	29.0884
Mn 257.610	-0.0382	ppb	0.0036	9.5	66.5949
Mo 202.032	-0.1769	ppb	0.1726	97.6	6.6299
Na 330.237	56.8022	ppb	48.6550	85.7	38.0604
Ni 231.604	-0.5627	ppb	0.4269	75.9	-5.1472
Pb 220.353	0.1580	ppb	0.7957	503.6	9.5597
Sb 206.834	-0.4550	ppb	1.5953	350.7	0.4483
Se 196.026	-0.1528	ppb	4.7692	3120.4	0.0528
Sn 189.925	-0.2384	ppb	2.5116	1053.4	-5.9701
Sr 216.596	-0.2393	ppb	0.3290	137.5	0.1583
Ti 334.941	0.3058	ppb	0.0339	11.1	64.4881
Tl 190.794	-1.0818	ppb	0.2726	25.2	-11.1871
V 292.401	-0.2110	ppb	0.1422	67.4	-12.4459
Zn 206.200	-0.6394	ppb	0.2587	40.5	1.4241

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Cont Calib Verif (CCV) 3/23/2015, 1:17:41 PM Rack 1, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	485.867	484.425	484.125
Al 308.215	4803.99	4803.18	4788.54
As 188.980	487.411	486.757	489.690
B 249.678	479.786	482.499	483.572
Ba 389.178	4903.69	4899.11	4871.28
Be 313.042	492.050	491.543	486.966
Ca 370.602	4952	4939	4925
Cd 226.502	488.912	488.910	487.039
Co 228.615	495.398	495.617	492.527
Cr 267.716	4998.04	4997.42	4965.72
Cu 324.754	4997.69	4954.65	4919.35
Fe 271.441	4884.89	4881.63	4860.27
K 766.491	10247.4	10245.5	10159.8
Mg 279.078	4863.60	4866.96	4860.99
Mn 257.610	4974.42	4973.60	4970.69
Mo 202.032	483.396	485.707	485.509
Na 330.237	7236.41	7316.84	7169.62
Ni 231.604	2472.63	2469.28	2473.68
Pb 220.353	485.888	487.648	484.106
Sb 206.834	968.311	961.477	963.896
Se 196.026	4844.21	4866.10	4859.17
Sn 189.925	4843.54	4826.71	4867.65
Sr 216.596	2446.85	2446.65	2435.57
Ti 334.941	487.547	487.725	484.704
Tl 190.794	4941.58	4958.60	4928.23
V 292.401	4880.64	4874.36	4845.44
Zn 206.200	2458.46	2442.03	2449.36

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	484.806	ppb	0.9315	0.2	43566.3	96.96114
Al 308.215	4798.57	ppb	8.6945	0.2	36488.5	95.97139
As 188.980	487.953	ppb	1.5397	0.3	348.352	97.59050
B 249.678	481.952	ppb	1.9515	0.4	8696.03	96.39046
Ba 389.178	4891.36	ppb	17.5424	0.4	111719	97.82715
Be 313.042	490.186	ppb	2.8003	0.6	938489	98.03728
Ca 370.602	4939	ppb	13.64	0.3	15860	98.77501
Cd 226.502	488.287	ppb	1.0808	0.2	21901.9	97.65740
Co 228.615	494.514	ppb	1.7242	0.3	5571.04	98.90285
Cr 267.716	4987.06	ppb	18.4852	0.4	268209	99.74121
Cu 324.754	4957.23	ppb	39.2370	0.8	401222	99.14460
Fe 271.441	4875.60	ppb	13.3730	0.3	7776.31	97.51194
K 766.491	10217.6	ppb	50.0420	0.5	468693	102.17568
Mg 279.078	4863.85	ppb	2.9941	0.1	13956.0	97.27699
Mn 257.610	4972.91	ppb	1.9577	0.0	1134046	99.45811
Mo 202.032	484.871	ppb	1.2808	0.3	3141.20	96.97412
Na 330.237	7240.96	ppb	73.7147	1.0	379.365	96.54608
Ni 231.604	2471.86	ppb	2.3010	0.1	7731.42	98.87459
Pb 220.353	485.881	ppb	1.7710	0.4	790.359	97.17610
Sb 206.834	964.561	ppb	3.4654	0.4	1458.68	96.45615
Se 196.026	4856.49	ppb	11.1917	0.2	2306.33	97.12986
Sn 189.925	4845.97	ppb	20.5780	0.4	3542.26	96.91933
Sr 216.596	2443.02	ppb	6.4556	0.3	28827.9	97.72085

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	486.659	ppb	1.6951	0.3	141483	97.33180
Tl 190.794	4942.80	ppb	15.2210	0.3	5450.72	98.85606
V 292.401	4866.81	ppb	18.7745	0.4	138895	97.33629
Zn 206.200	2449.95	ppb	8.2293	0.3	2528.38	97.99811

Cont Calib Blank (CCB)

3/23/2015, 1:22:23 PM

Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3158u	0.1630	-0.0175u
Al 308.215	8.4998	6.4244	7.4291
As 188.980	-3.6248u	0.4685	1.6085
B 249.678	8.4074	7.2522	6.6475
Ba 389.178	0.0545	-0.5242u	-0.1974u
Be 313.042	0.0624	0.0547	0.0463
Ca 370.602	4.089	0.7971	1.480
Cd 226.502	0.0071	0.0291	-0.0897u
Co 228.615	-0.4084u	-0.3850u	0.0441
Cr 267.716	0.7202	0.3822	0.4020
Cu 324.754	0.3954	0.2159	0.6876
Fe 271.441	6.1995	0.6254	5.9660
K 766.491	-2.2187u	-1.8561u	-1.1474u
Mg 279.078	2.5829	2.9916	0.6309
Mn 257.610	0.5603	0.4715	0.4347
Mo 202.032	0.4652	-0.3034u	-0.2758u
Na 330.237	23.0876	10.1218	70.8345
Ni 231.604	0.9269	0.6478	-1.1106u
Pb 220.353	0.5512	-1.1894u	1.4977
Sb 206.834	3.5152	0.3426	-1.2836u
Se 196.026	4.4013	-3.3147u	2.6016
Sn 189.925	-0.2516u	2.3626	0.0891
Sr 216.596	0.5971	-0.0994u	0.1854
Ti 334.941	0.3229	0.2698	0.2819
Tl 190.794	1.6568	-0.2736u	-0.4393u
V 292.401	0.5232	0.5659	0.2586
Zn 206.200	-0.1413u	-0.0896u	-0.6558u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0568	ppb	0.2418	425.8	-6.8111	-0.05678
Al 308.215	7.4511	ppb	1.0379	13.9	427.722	7.45111
As 188.980	-0.5159	ppb	2.7520	533.4	-4.8006	-0.51590
B 249.678	7.4357	ppb	0.8942	12.0	171.148	7.43568
Ba 389.178	-0.2223	ppb	0.2902	130.5	-45.8813	-0.22235
Be 313.042	0.0545	ppb	0.0081	14.8	-360.474	0.05448
Ca 370.602	2.122	ppb	1.737	81.9	28.77	2.12223
Cd 226.502	-0.0178	ppb	0.0632	355.1	31.4059	-0.01780
Co 228.615	-0.2497	ppb	0.2548	102.0	-7.0203	-0.24973
Cr 267.716	0.5015	ppb	0.1897	37.8	57.3112	0.50146
Cu 324.754	0.4330	ppb	0.2381	55.0	444.600	0.43297
Fe 271.441	4.2636	ppb	3.1529	73.9	14.7940	4.26363
K 766.491	-1.7407	ppb	0.5449	31.3	360.835	-1.74071
Mg 279.078	2.0685	ppb	1.2616	61.0	28.3175	2.06846
Mn 257.610	0.4888	ppb	0.0645	13.2	186.800	0.48884
Mo 202.032	-0.0380	ppb	0.4360	1147.5	7.5284	-0.03800

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	34.6813	ppb	31.9737	92.2	36.9112	34.68131
Ni 231.604	0.1547	ppb	1.1046	714.0	-2.9018	0.15471
Pb 220.353	0.2865	ppb	1.3629	475.7	9.7653	0.28652
Sb 206.834	0.8581	ppb	2.4406	284.4	2.3528	0.85809
Se 196.026	1.2294	ppb	4.0369	328.4	0.7089	1.22938
Sn 189.925	0.7333	ppb	1.4212	193.8	-5.2586	0.73334
Sr 216.596	0.2277	ppb	0.3502	153.8	5.6653	0.22770
Ti 334.941	0.2916	ppb	0.0279	9.6	60.3461	0.29155
Tl 190.794	0.3146	ppb	1.1653	370.4	-9.6467	0.31462
V 292.401	0.4492	ppb	0.1665	37.1	6.3886	0.44920
Zn 206.200	-0.2956	ppb	0.3130	105.9	1.7796	-0.29555

640-50751-c-9-a^10 (Samp) 3/23/2015, 1:27:06 PM Rack 1, Tube 3
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0052u	-0.2384u	-0.3914u
Al 308.215	108775	108023	107925
As 188.980	2.1319	3.4958	1.2197
B 249.678	8.2602	8.2026	8.1838
Ba 389.178	0.1936	-0.7365u	0.1816
Be 313.042	0.3085	0.3162	0.3107
Ca 370.602	48946	48655	48680
Cd 226.502	0.0995	0.0521	0.1442
Co 228.615	1.4942	0.9588	0.6709
Cr 267.716	0.4657	0.4378	0.4160
Cu 324.754	-0.2017u	0.2449	0.0074
Fe 271.441	1267.69	1254.58	1255.45
K 766.491	281.507	279.556	278.112
Mg 279.078	4740.91	4713.25	4703.65
Mn 257.610	28.0817	28.0655	27.9458
Mo 202.032	0.2904	-0.0041u	0.1765
Na 330.237	1314.38	1397.89	1278.93
Ni 231.604	8.2865	8.7058	8.1265
Pb 220.353	-0.2728u	-2.6630u	2.7663
Sb 206.834	3.4989	2.9476	3.6400
Se 196.026	0.1013	5.1855	-2.2652u
Sn 189.925	0.8644	0.1810	-0.0911u
Sr 216.596	63.1762	62.1087	62.3687
Ti 334.941	0.5714	0.5968	0.5921
Tl 190.794	-0.2468u	-3.1794u	1.7509
V 292.401	-0.2386u	0.0685	-0.0991u
Zn 206.200	9.3630	10.9282	11.0942

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2082	ppb	0.2000	96.1	-22.3523
Al 308.215	108241	ppb	465.124	0.4	798780
As 188.980	2.2825	ppb	1.1455	50.2	-2.7853
B 249.678	8.2155	ppb	0.0398	0.5	182.071
Ba 389.178	-0.1204	ppb	0.5336	443.0	-32.6050
Be 313.042	0.3118	ppb	0.0040	1.3	159.940
Ca 370.602	48760	ppb	161.3	0.3	152775
Cd 226.502	0.0986	ppb	0.0460	46.7	43.7921
Co 228.615	1.0413	ppb	0.4178	40.1	7.6084

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.4398	ppb	0.0249	5.7	55.9211
Cu 324.754	0.0169	ppb	0.2235	1325.7	411.564
Fe 271.441	1259.24	ppb	7.3309	0.6	1989.25
K 766.491	279.725	ppb	1.7042	0.6	13259.9
Mg 279.078	4719.27	ppb	19.3466	0.4	13605.7
Mn 257.610	28.0310	ppb	0.0742	0.3	6509.34
Mo 202.032	0.1543	ppb	0.1485	96.3	8.7177
Na 330.237	1330.40	ppb	61.0766	4.6	103.645
Ni 231.604	8.3729	ppb	0.2992	3.6	22.9681
Pb 220.353	-0.0565	ppb	2.7211	4816.3	7.7907
Sb 206.834	3.3622	ppb	0.3659	10.9	6.0056
Se 196.026	1.0072	ppb	3.8071	378.0	0.6218
Sn 189.925	0.3181	ppb	0.4923	154.8	-5.5623
Sr 216.596	62.5512	ppb	0.5567	0.9	762.068
Ti 334.941	0.5868	ppb	0.0135	2.3	159.963
Tl 190.794	-0.5584	ppb	2.4799	444.1	-10.7897
V 292.401	-0.0897	ppb	0.1537	171.3	-10.2882
Zn 206.200	10.4618	ppb	0.9552	9.1	12.9558

mb 680-375554/1-a (Samp) 3/23/2015, 1:31:49 PM Rack 1, Tube 4
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0874	0.0783	-0.0308u
Al 308.215	8.6072	7.7608	7.9003
As 188.980	-5.8433u	-0.7819u	0.1030
B 249.678	2.4725	2.4044	2.3307
Ba 389.178	-1.4590u	-1.0428u	-0.7038u
Be 313.042	0.0122	0.0156	0.0205
Ca 370.602	2.588	1.595	2.626
Cd 226.502	0.0603	-0.0030u	-0.1235u
Co 228.615	-0.2991u	-0.3649u	-0.1976u
Cr 267.716	0.2365	0.2242	0.2822
Cu 324.754	-0.0365u	-0.0817u	0.0381
Fe 271.441	1.4133	8.0879	4.1590
K 766.491	-3.4424u	-3.8966u	-3.7147u
Mg 279.078	-0.2704u	-1.6815u	-0.9750u
Mn 257.610	-0.0188u	-0.0384u	-0.0610u
Mo 202.032	-0.0067u	0.1033	-0.1479u
Na 330.237	163.164	134.540	130.620
Ni 231.604	-0.3136u	-0.9331u	-1.2213u
Pb 220.353	-2.2860u	0.6259	-2.5510u
Sb 206.834	-0.6529u	1.1447	0.5741
Se 196.026	6.7984	1.1293	6.9054
Sn 189.925	0.3249	0.0673	-0.1341u
Sr 216.596	0.4657	0.1093	0.0213
Ti 334.941	0.1485	0.1508	0.1216
Tl 190.794	-0.0959u	-2.3219u	1.1029
V 292.401	-0.3592u	-0.1077u	-0.0469u
Zn 206.200	-0.7702u	-0.7861u	0.3922

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0450	ppb	0.0658	146.3	2.3399
Al 308.215	8.0894	ppb	0.4538	5.6	432.338

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-2.1741	ppb	3.2083	147.6	-6.0000
B 249.678	2.4025	ppb	0.0709	3.0	80.7627
Ba 389.178	-1.0685	ppb	0.3783	35.4	-65.2199
Be 313.042	0.0161	ppb	0.0042	26.1	-434.012
Ca 370.602	2.270	ppb	0.5845	25.8	29.18
Cd 226.502	-0.0221	ppb	0.0934	423.1	31.1982
Co 228.615	-0.2872	ppb	0.0843	29.4	-7.4450
Cr 267.716	0.2476	ppb	0.0306	12.3	43.6632
Cu 324.754	-0.0267	ppb	0.0605	226.7	407.437
Fe 271.441	4.5534	ppb	3.3548	73.7	15.2467
K 766.491	-3.6846	ppb	0.2286	6.2	271.752
Mg 279.078	-0.9756	ppb	0.7056	72.3	19.5392
Mn 257.610	-0.0394	ppb	0.0211	53.7	66.3216
Mo 202.032	-0.0171	ppb	0.1260	736.4	7.6644
Na 330.237	142.775	ppb	17.7658	12.4	42.5155
Ni 231.604	-0.8227	ppb	0.4638	56.4	-5.9608
Pb 220.353	-1.4037	ppb	1.7627	125.6	7.0628
Sb 206.834	0.3553	ppb	0.9185	258.5	1.6209
Se 196.026	4.9444	ppb	3.3044	66.8	2.4720
Sn 189.925	0.0861	ppb	0.2301	267.3	-5.7325
Sr 216.596	0.1988	ppb	0.2353	118.4	5.3438
Ti 334.941	0.1403	ppb	0.0162	11.6	16.3659
Tl 190.794	-0.4383	ppb	1.7379	396.5	-10.4778
V 292.401	-0.1713	ppb	0.1656	96.7	-11.3505
Zn 206.200	-0.3880	ppb	0.6758	174.1	1.6842

ics 680-375554/2-a (Samp)

3/23/2015, 1:36:32 PM

Rack 1, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	105.477	104.997	105.181
Al 308.215	10240.7	10225.7	10241.4
As 188.980	208.805	201.896	205.287
B 249.678	459.178	460.344	462.209
Ba 389.178	202.371	201.896	202.775
Be 313.042	103.796	103.451	103.711
Ca 370.602	10923	10901	10920
Cd 226.502	100.961	100.720	101.362
Co 228.615	100.848	101.139	100.691
Cr 267.716	208.588	208.521	208.936
Cu 324.754	210.382	209.324	209.910
Fe 271.441	10009.5	9973.15	10000.9
K 766.491	12030.8	11962.0	11989.5
Mg 279.078	9866.35	9849.20	9872.46
Mn 257.610	1056.74	1054.24	1055.99
Mo 202.032	199.897	199.200	199.697
Na 330.237	119051x	118932x	119353x
Ni 231.604	202.315	204.056	201.880
Pb 220.353	997.652	998.061	992.707
Sb 206.834	104.589	106.890	103.217
Se 196.026	205.664	205.724	200.594
Sn 189.925	392.731	389.210	397.820
Sr 216.596	198.467	199.012	198.049
Ti 334.941	205.381	204.803	205.461

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	78.3291	81.0699	77.6885
V 292.401	206.866	206.667	207.298
Zn 206.200	205.453	208.660	209.773

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	105.218b	ppb	0.2420	0.2	9461.88
Al 308.215	10236.0b	ppb	8.8611	0.1	75911.0
As 188.980	205.329b	ppb	3.4550	1.7	143.966
B 249.678	460.577b	ppb	1.5289	0.3	8285.53
Ba 389.178	202.347b	ppb	0.4403	0.2	4611.63
Be 313.042	103.653b	ppb	0.1796	0.2	198010
Ca 370.602	10915b	ppb	11.94	0.1	34235
Cd 226.502	101.014b	ppb	0.3240	0.3	4606.88
Co 228.615	100.892b	ppb	0.2273	0.2	1131.94
Cr 267.716	208.682b	ppb	0.2227	0.1	11262.8
Cu 324.754	209.872b	ppb	0.5304	0.3	17391.3
Fe 271.441	9994.53b	ppb	19.0070	0.2	15744.6
K 766.491	11994.1b	ppb	34.6405	0.3	550108
Mg 279.078	9862.67b	ppb	12.0576	0.1	28474.2
Mn 257.610	1055.65b	ppb	1.2850	0.1	240895
Mo 202.032	199.598b	ppb	0.3589	0.2	1299.16
Na 330.237	119112xb	ppb	216.972	0.2	6206.90
Ni 231.604	202.751b	ppb	1.1516	0.6	631.732
Pb 220.353	996.140b	ppb	2.9799	0.3	1602.29
Sb 206.834	104.899b	ppb	1.8561	1.8	152.816
Se 196.026	203.994b	ppb	2.9445	1.4	97.2888
Sn 189.925	393.254b	ppb	4.3291	1.1	282.167
Sr 216.596	198.509b	ppb	0.4833	0.2	2359.42
Ti 334.941	205.215b	ppb	0.3590	0.2	59653.0
Tl 190.794	79.0292b	ppb	1.7961	2.3	76.0585
V 292.401	206.944b	ppb	0.3227	0.2	5858.62
Zn 206.200	207.962b	ppb	2.2431	1.1	217.266

lb 680-375259/1-c (Samp) 3/23/2015, 1:41:16 PM Rack 1, Tube 6
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1642u	-0.0725u	0.0089
Al 308.215	8.4695	8.4801	7.9392
As 188.980	-2.9707u	-0.9974u	-0.7170u
B 249.678	70.8518	70.7725	70.0441
Ba 389.178	6.7358	6.0248	5.5753
Be 313.042	0.0290	0.0164	0.0229
Ca 370.602	534.4	535.6	529.9
Cd 226.502	0.0006u	0.0287	0.0451
Co 228.615	-0.1111u	-0.1543u	-0.3102u
Cr 267.716	0.4568	0.1744	0.5662
Cu 324.754	0.0246	0.1157	0.1829
Fe 271.441	-1.0807u	5.9985	6.4819
K 766.491	111.852	111.679	110.929
Mg 279.078	81.0973	80.2263	78.8497
Mn 257.610	0.2379	0.2518	0.2314
Mo 202.032	0.1935	0.0589	-0.4556u
Na 330.237	107562x	108348x	107600x

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	0.4099	-0.2176u	0.2816
Pb 220.353	0.4292	2.1796	0.4142
Sb 206.834	2.3696	3.1936	0.8979
Se 196.026	1.9109	5.6295	-1.0742u
Sn 189.925	-1.0098u	1.7665	3.0797
Sr 216.596	1.3449	1.1376	1.4273
Ti 334.941	0.2011	0.1942	0.2043
Tl 190.794	1.9333	-3.1946u	-0.6516u
V 292.401	-0.1186u	0.0083u	0.0977
Zn 206.200	5.1054	4.1855	5.4212

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0759b	ppb	0.0866	114.1	-8.5750
Al 308.215	8.2963b	ppb	0.3093	3.7	433.884
As 188.980	-1.5617b	ppb	1.2282	78.6	-5.5571
B 249.678	70.5561b	ppb	0.4452	0.6	1304.72
Ba 389.178	6.1120b	ppb	0.5852	9.6	98.9701
Be 313.042	0.0228b	ppb	0.0063	27.7	-433.080
Ca 370.602	533.3b	ppb	3.007	0.6	1693
Cd 226.502	0.0248b	ppb	0.0225	90.9	32.6184
Co 228.615	-0.1919b	ppb	0.1047	54.6	-6.3712
Cr 267.716	0.3992b	ppb	0.2022	50.6	53.8621
Cu 324.754	0.1077b	ppb	0.0794	73.7	418.304
Fe 271.441	3.7999b	ppb	4.2336	111.4	14.0717
K 766.491	111.487b	ppb	0.4909	0.4	5549.84
Mg 279.078	80.0578b	ppb	1.1332	1.4	253.522
Mn 257.610	0.2403b	ppb	0.0104	4.3	130.193
Mo 202.032	-0.0677b	ppb	0.3426	505.8	7.3364
Na 330.237	107837xb	ppb	443.431	0.4	5627.25
Ni 231.604	0.1580b	ppb	0.3315	209.9	-2.8920
Pb 220.353	1.0077b	ppb	1.0150	100.7	10.9181
Sb 206.834	2.1537b	ppb	1.1630	54.0	4.2319
Se 196.026	2.1554b	ppb	3.3585	155.8	1.1484
Sn 189.925	1.2788b	ppb	2.0879	163.3	-4.8271
Sr 216.596	1.3033b	ppb	0.1493	11.5	18.5805
Ti 334.941	0.1999b	ppb	0.0052	2.6	25.5136
Tl 190.794	-0.6376b	ppb	2.5640	402.1	-10.6973
V 292.401	-0.0042b	ppb	0.1086	2593.8	-7.4223
Zn 206.200	4.9040b	ppb	0.6420	13.1	7.1613

lb2 680-375259/2-d (Samp) 3/23/2015, 1:46:00 PM Rack 1, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0725	-0.3031u	0.0090
Al 308.215	6.8736	8.4681	6.3377
As 188.980	1.0457	-2.7407u	0.1584
B 249.678	7.9019	7.2505	7.3567
Ba 389.178	-0.2935u	-0.1430u	-0.4531u
Be 313.042	0.0183	0.0210	0.0195
Ca 370.602	30.80	28.47	29.11
Cd 226.502	0.0488	-0.0861u	-0.0345u
Co 228.615	-0.0445u	-0.4723u	-0.3268u
Cr 267.716	0.1153	-0.0380u	0.1729

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	0.1092	0.1109	0.1852
Fe 271.441	2.4180	-4.0397u	0.9464
K 766.491	18.5527	19.2807	18.3914
Mg 279.078	11.6817	10.3965	9.7954
Mn 257.610	-0.0007u	0.0072	0.0270
Mo 202.032	-0.7466u	-0.6690u	-0.5772u
Na 330.237	107947x	107162x	106958x
Ni 231.604	-0.2263u	-0.4409u	-0.4192u
Pb 220.353	-1.5194u	1.5662	-1.2499u
Sb 206.834	2.5025	2.6500	-2.2345u
Se 196.026	7.5334	4.5312	4.5687
Sn 189.925	1.5776	-4.8274u	-1.8474u
Sr 216.596	-0.2222u	0.1469	0.4363
Ti 334.941	0.1560	0.1301	0.1860
Tl 190.794	-0.6888u	-0.8133u	-3.9438u
V 292.401	0.0702	0.0107u	-0.0221u
Zn 206.200	0.2727	0.6464	1.0033

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0738b	ppb	0.2011	272.3	-8.3448
Al 308.215	7.2265b	ppb	1.1082	15.3	425.974
As 188.980	-0.5122b	ppb	1.9803	386.6	-4.7977
B 249.678	7.5030b	ppb	0.3495	4.7	172.374
Ba 389.178	-0.2965b	ppb	0.1551	52.3	-47.5694
Be 313.042	0.0196b	ppb	0.0014	6.9	-439.279
Ca 370.602	29.46b	ppb	1.203	4.1	114.3
Cd 226.502	-0.0239b	ppb	0.0681	284.6	30.4256
Co 228.615	-0.2812b	ppb	0.2175	77.4	-7.3632
Cr 267.716	0.0834b	ppb	0.1090	130.8	36.8747
Cu 324.754	0.1351b	ppb	0.0434	32.1	420.493
Fe 271.441	-0.2251b	ppb	3.3845	1503.5	7.7290
K 766.491	18.7416b	ppb	0.4738	2.5	1299.50
Mg 279.078	10.6246b	ppb	0.9636	9.1	53.0347
Mn 257.610	0.0112b	ppb	0.0143	127.5	77.3734
Mo 202.032	-0.6642b	ppb	0.0848	12.8	3.4752
Na 330.237	107356xb	ppb	521.825	0.5	5602.35
Ni 231.604	-0.3621b	ppb	0.1181	32.6	-4.5196
Pb 220.353	-0.4010b	ppb	1.7090	426.1	8.6665
Sb 206.834	0.9727b	ppb	2.7784	285.6	2.5237
Se 196.026	5.5444b	ppb	1.7226	31.1	2.7568
Sn 189.925	-1.6991b	ppb	3.2051	188.6	-7.0074
Sr 216.596	0.1203b	ppb	0.3300	274.3	4.4208
Ti 334.941	0.1574b	ppb	0.0280	17.8	13.0430
Tl 190.794	-1.8153b	ppb	1.8444	101.6	-11.9943
V 292.401	0.0196b	ppb	0.0468	238.3	-6.6125
Zn 206.200	0.6408b	ppb	0.3653	57.0	2.7493

680-110725-a-1-e (Samp)

3/23/2015, 1:50:44 PM

Rack 1, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0266u	-0.0397u	0.0255
Al 308.215	34.0670	34.5781	35.8849
As 188.980	-2.2579u	-3.6565u	0.0222

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	33.6739	33.6334	33.4207
Ba 389.178	15.4915	15.6684	15.7958
Be 313.042	0.0237	0.0213	0.0225
Ca 370.602	1126	1132	1134
Cd 226.502	0.2502	0.2134	0.1601
Co 228.615	0.2379	0.7871	0.6037
Cr 267.716	4.8336	4.9483	4.9723
Cu 324.754	5.2554	5.5885	5.2751
Fe 271.441	30.0964	31.1309	33.4958
K 766.491	204.162	205.609	204.691
Mg 279.078	113.539	113.007	114.892
Mn 257.610	4.9028	4.9175	4.9303
Mo 202.032	0.1305	-0.1381u	-0.4940u
Na 330.237	102461x	102755x	102649x
Ni 231.604	0.6765	1.3593	0.5548
Pb 220.353	1.4981	3.0502	0.0695
Sb 206.834	2.2937	3.5409	3.7237
Se 196.026	2.3287	10.4426	8.0235
Sn 189.925	0.9077	-0.0739u	-1.1391u
Sr 216.596	13.4221	13.3354	13.2909
Ti 334.941	0.2867	0.3143	0.2921
Tl 190.794	-1.1483u	0.5741	-3.7846u
V 292.401	1.3324	1.4737	1.4491
Zn 206.200	60.3219	59.9522	59.9751

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0136b	ppb	0.0345	253.6	-3.3882
Al 308.215	34.8434b	ppb	0.9375	2.7	629.893
As 188.980	-1.9641b	ppb	1.8569	94.5	-5.8483
B 249.678	33.5760b	ppb	0.1360	0.4	640.560
Ba 389.178	15.6519b	ppb	0.1529	1.0	316.994
Be 313.042	0.0225b	ppb	0.0012	5.5	-432.777
Ca 370.602	1130b	ppb	4.197	0.4	3564
Cd 226.502	0.2079b	ppb	0.0453	21.8	41.0237
Co 228.615	0.5429b	ppb	0.2796	51.5	1.9221
Cr 267.716	4.9180b	ppb	0.0741	1.5	296.812
Cu 324.754	5.3730b	ppb	0.1869	3.5	844.073
Fe 271.441	31.5744b	ppb	1.7425	5.5	57.8728
K 766.491	204.821b	ppb	0.7322	0.4	9827.17
Mg 279.078	113.813b	ppb	0.9721	0.9	350.878
Mn 257.610	4.9169b	ppb	0.0138	0.3	1196.95
Mo 202.032	-0.1672b	ppb	0.3133	187.3	6.6895
Na 330.237	102622xb	ppb	148.636	0.1	5356.13
Ni 231.604	0.8635b	ppb	0.4336	50.2	-0.6831
Pb 220.353	1.5393b	ppb	1.4908	96.9	11.7743
Sb 206.834	3.1861b	ppb	0.7782	24.4	5.7901
Se 196.026	6.9316b	ppb	4.1657	60.1	3.4167
Sn 189.925	-0.1018b	ppb	1.0237	1005.6	-5.8395
Sr 216.596	13.3494b	ppb	0.0667	0.5	161.263
Ti 334.941	0.2977b	ppb	0.0146	4.9	54.4216
Tl 190.794	-1.4529b	ppb	2.1952	151.1	-11.5943
V 292.401	1.4184b	ppb	0.0755	5.3	33.1117
Zn 206.200	60.0831b	ppb	0.2072	0.3	64.2651

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

680-110725-a-1-eSD^5 (Samp) **3/23/2015, 1:55:29 PM** **Rack 1, Tube 9****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2557u	0.2610	0.0082
Al 308.215	11.7133	10.7807	12.5764
As 188.980	-2.5087u	-3.4532u	0.4948
B 249.678	7.8146	7.8053	8.2132
Ba 389.178	3.0714	3.0253	3.5199
Be 313.042	0.0239	0.0194	0.0074
Ca 370.602	244.6	243.7	235.0
Cd 226.502	-0.0433u	-0.0246u	0.0290
Co 228.615	-0.0979u	0.1344	-0.0922u
Cr 267.716	0.9917	1.1454	0.9996
Cu 324.754	0.7882	0.5876	0.9445
Fe 271.441	6.2581	7.2803	7.2019
K 766.491	38.3834	37.4956	37.1578
Mg 279.078	28.6611	24.7568	24.7018
Mn 257.610	1.0215	1.0208	1.0018
Mo 202.032	0.0288	-0.5548u	-0.4287u
Na 330.237	21571.5	21201.2	20778.7
Ni 231.604	1.3318	0.8113	0.6888
Pb 220.353	-0.5885u	0.2561	0.5214
Sb 206.834	0.7302	0.5355	0.7890
Se 196.026	5.8664	-0.4944u	-0.2178u
Sn 189.925	-1.0689u	0.3322	-1.4250u
Sr 216.596	2.9903	3.0555	2.9472
Ti 334.941	0.0935	0.0843	0.1208
Tl 190.794	-3.4099u	-0.4262u	-2.8270u
V 292.401	0.1847	0.2911	0.2294
Zn 206.200	13.2594	13.2004	13.1765

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0045	ppb	0.2584	5751.0	-1.4001
Al 308.215	11.6901	ppb	0.8981	7.7	458.952
As 188.980	-1.8223	ppb	2.0616	113.1	-5.7456
B 249.678	7.9444	ppb	0.2329	2.9	180.277
Ba 389.178	3.2056	ppb	0.2732	8.5	32.4713
Be 313.042	0.0169	ppb	0.0086	50.7	-434.689
Ca 370.602	241.1	ppb	5.282	2.2	777.4
Cd 226.502	-0.0130	ppb	0.0376	289.5	31.4985
Co 228.615	-0.0186	ppb	0.1325	713.7	-4.4123
Cr 267.716	1.0456	ppb	0.0865	8.3	86.9808
Cu 324.754	0.7734	ppb	0.1789	23.1	472.125
Fe 271.441	6.9134	ppb	0.5689	8.2	18.9942
K 766.491	37.6789	ppb	0.6330	1.7	2167.36
Mg 279.078	26.0399	ppb	2.2702	8.7	97.5231
Mn 257.610	1.0147	ppb	0.0112	1.1	306.795
Mo 202.032	-0.3182	ppb	0.3071	96.5	5.7145
Na 330.237	21183.8	ppb	396.644	1.9	1133.50
Ni 231.604	0.9440	ppb	0.3414	36.2	-0.4324
Pb 220.353	0.0630	ppb	0.5796	919.8	9.4091
Sb 206.834	0.6849	ppb	0.1327	19.4	2.1132
Se 196.026	1.7181	ppb	3.5952	209.3	0.9410
Sn 189.925	-0.7206	ppb	0.9290	128.9	-6.3168
Sr 216.596	2.9977	ppb	0.0545	1.8	38.4932

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0996	ppb	0.0190	19.1	2.9320
Tl 190.794	-2.2210	ppb	1.5815	71.2	-12.4419
V 292.401	0.2351	ppb	0.0534	22.7	0.1188
Zn 206.200	13.2121	ppb	0.0427	0.3	15.7593

680-110725-a-1-ePDS (Samp) 3/23/2015, 2:00:14 PM Rack 1, Tube 10

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	87.0744	86.8950	87.3191
Al 308.215	1009.72	1005.61	1012.71
As 188.980	91.0345	96.2264	94.3408
B 249.678	221.110	221.128	222.520
Ba 389.178	102.181	101.710	101.108
Be 313.042	98.2243	97.8491	98.3242
Ca 370.602	11239	11189	11277
Cd 226.502	96.2086	96.1574	96.1175
Co 228.615	97.0930	96.4209	96.9796
Cr 267.716	105.863	105.504	106.104
Cu 324.754	105.245	105.313	105.365
Fe 271.441	9764.69	9727.99	9786.24
K 766.491	11668.2	11621.4	11654.0
Mg 279.078	9545.38	9506.99	9542.73
Mn 257.610	1027.88	1023.27	1028.40
Mo 202.032	97.6937	96.6096	96.5555
Na 330.237	113565x	112825x	113296x
Ni 231.604	97.8485	97.0368	99.6706
Pb 220.353	93.7594	97.0606	95.8693
Sb 206.834	93.5442	93.0350	92.4619
Se 196.026	102.230	103.502	108.065
Sn 189.925	92.8979	100.870	95.1076
Sr 216.596	109.019	108.679	109.303
Ti 334.941	98.9939	98.7151	99.1669
Tl 190.794	21.2925	17.1577	20.6992
V 292.401	102.863	102.541	102.797
Zn 206.200	155.731	155.182	154.552

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	87.0962b	ppb	0.2129	0.2	7834.23
Al 308.215	1009.35b	ppb	3.5634	0.4	7835.74
As 188.980	93.8672b	ppb	2.6281	2.8	63.3726
B 249.678	221.586b	ppb	0.8091	0.4	3994.00
Ba 389.178	101.666b	ppb	0.5378	0.5	2310.16
Be 313.042	98.1325b	ppb	0.2505	0.3	187449
Ca 370.602	11235b	ppb	44.42	0.4	35188
Cd 226.502	96.1612b	ppb	0.0456	0.0	4388.68
Co 228.615	96.8311b	ppb	0.3598	0.4	1086.71
Cr 267.716	105.824b	ppb	0.3020	0.3	5731.54
Cu 324.754	105.308b	ppb	0.0600	0.1	8932.65
Fe 271.441	9759.64b	ppb	29.4526	0.3	15373.6
K 766.491	11647.9b	ppb	23.9928	0.2	534240
Mg 279.078	9531.70b	ppb	21.4392	0.2	27522.8
Mn 257.610	1026.52b	ppb	2.8208	0.3	234247
Mo 202.032	96.9529b	ppb	0.6421	0.7	634.833

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	113229xb	ppb	374.570	0.3	5902.51
Ni 231.604	98.1853b	ppb	1.3488	1.4	304.485
Pb 220.353	95.5631b	ppb	1.6718	1.7	162.799
Sb 206.834	93.0137b	ppb	0.5415	0.6	135.983
Se 196.026	104.599b	ppb	3.0683	2.9	50.1050
Sn 189.925	96.2917b	ppb	4.1156	4.3	64.7398
Sr 216.596	109.000b	ppb	0.3128	0.3	1304.82
Ti 334.941	98.9586b	ppb	0.2280	0.2	28757.6
Tl 190.794	19.7164b	ppb	2.2357	11.3	10.8384
V 292.401	102.734b	ppb	0.1700	0.2	2903.26
Zn 206.200	155.155b	ppb	0.5900	0.4	162.800

680-110725-a-1-f ms (Samp) 3/23/2015, 2:04:59 PM Rack 1, Tube 11
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	133.661	133.449	133.690
Al 308.215	1581.02	1580.36	1579.28
As 188.980	159.241	160.973	158.047
B 249.678	326.902	327.085	329.204
Ba 389.178	150.608	149.000	150.131
Be 313.042	156.535	156.447	156.414
Ca 370.602	17083	17002	17053
Cd 226.502	153.188	153.672	153.874
Co 228.615	153.686	153.759	153.745
Cr 267.716	162.978	163.349	162.243
Cu 324.754	165.140	164.268	165.049
Fe 271.441	15538.7	15504.8	15534.2
K 766.491	17327.4	17277.9	17324.0
Mg 279.078	15062.6	15082.4	15099.3
Mn 257.610	1631.79	1631.85	1633.69
Mo 202.032	154.179	154.147	155.176
Na 330.237	95425.6x	95928.6x	96164.6x
Ni 231.604	157.141	154.604	156.630
Pb 220.353	154.199	152.827	151.907
Sb 206.834	160.562	157.910	158.910
Se 196.026	151.947	159.432	161.882
Sn 189.925	151.535	152.396	150.762
Sr 216.596	161.390	161.782	164.071
Ti 334.941	158.120	158.142	158.252
Tl 190.794	27.2663	27.4856	32.2895
V 292.401	163.262	162.764	163.114
Zn 206.200	203.471	198.174	200.356

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	133.600b	ppb	0.1320	0.1	12018.5
Al 308.215	1580.22b	ppb	0.8792	0.1	12057.2
As 188.980	159.421b	ppb	1.4710	0.9	110.732
B 249.678	327.730b	ppb	1.2797	0.4	5886.78
Ba 389.178	149.913b	ppb	0.8258	0.6	3429.01
Be 313.042	156.465b	ppb	0.0626	0.0	299159
Ca 370.602	17046b	ppb	40.85	0.2	53373
Cd 226.502	153.578b	ppb	0.3527	0.2	6990.13
Co 228.615	153.730b	ppb	0.0390	0.0	1727.74

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	162.857b	ppb	0.5625	0.3	8803.04
Cu 324.754	164.819b	ppb	0.4795	0.3	13749.4
Fe 271.441	15525.9b	ppb	18.4219	0.1	24451.9
K 766.491	17309.8b	ppb	27.6805	0.2	793715
Mg 279.078	15081.5b	ppb	18.3705	0.1	43534.5
Mn 257.610	1632.44b	ppb	1.0793	0.1	372473
Mo 202.032	154.501b	ppb	0.5852	0.4	1007.03
Na 330.237	95839.6xb	ppb	377.433	0.4	4998.71
Ni 231.604	156.125b	ppb	1.3420	0.9	486.163
Pb 220.353	152.978b	ppb	1.1537	0.8	255.007
Sb 206.834	159.128b	ppb	1.3394	0.8	231.783
Se 196.026	157.753b	ppb	5.1757	3.3	75.5316
Sn 189.925	151.564b	ppb	0.8174	0.5	105.204
Sr 216.596	162.414b	ppb	1.4478	0.9	1943.81
Ti 334.941	158.171b	ppb	0.0711	0.0	45985.8
Tl 190.794	29.0138b	ppb	2.8389	9.8	20.5487
V 292.401	163.047b	ppb	0.2556	0.2	4612.20
Zn 206.200	200.667b	ppb	2.6626	1.3	209.991

680-110725-a-1-g msd (Samp) 3/23/2015, 2:09:44 PM Rack 1, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	125.112	125.432	126.004
Al 308.215	1577.65	1576.60	1580.05
As 188.980	156.456	156.593	160.334
B 249.678	329.403	330.025	330.813
Ba 389.178	148.605	148.495	148.483
Be 313.042	156.163	156.528	156.548
Ca 370.602	17043	17051	17069
Cd 226.502	153.176	153.181	152.784
Co 228.615	152.777	153.337	152.651
Cr 267.716	162.747	163.040	162.802
Cu 324.754	163.614	164.130	163.964
Fe 271.441	15498.5	15493.8	15495.2
K 766.491	17251.8	17211.1	17271.5
Mg 279.078	15056.4	15065.2	15056.5
Mn 257.610	1628.06	1629.49	1629.37
Mo 202.032	153.336	154.374	155.536
Na 330.237	96137.6x	95699.9x	96275.4x
Ni 231.604	154.621	153.491	154.059
Pb 220.353	152.941	154.445	149.568
Sb 206.834	155.442	158.383	158.059
Se 196.026	153.040	162.373	155.208
Sn 189.925	147.545	152.325	151.889
Sr 216.596	162.665	161.171	161.327
Ti 334.941	157.578	157.711	158.064
Tl 190.794	31.0938	31.4273	28.9028
V 292.401	162.592	162.209	162.934
Zn 206.200	200.632	197.158	198.100

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	125.516b	ppb	0.4518	0.4	11291.2
Al 308.215	1578.10b	ppb	1.7734	0.1	12041.4

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	157.794b	ppb	2.2004	1.4	109.556
B 249.678	330.080b	ppb	0.7067	0.2	5929.08
Ba 389.178	148.528b	ppb	0.0671	0.0	3397.28
Be 313.042	156.413b	ppb	0.2165	0.1	299059
Ca 370.602	17054b	ppb	13.32	0.1	53400
Cd 226.502	153.047b	ppb	0.2281	0.1	6966.12
Co 228.615	152.922b	ppb	0.3650	0.2	1718.64
Cr 267.716	162.863b	ppb	0.1558	0.1	8803.36
Cu 324.754	163.903b	ppb	0.2637	0.2	13675.3
Fe 271.441	15495.8b	ppb	2.4230	0.0	24404.6
K 766.491	17244.8b	ppb	30.8299	0.2	790738
Mg 279.078	15059.4b	ppb	5.0582	0.0	43470.8
Mn 257.610	1628.97b	ppb	0.7905	0.0	371682
Mo 202.032	154.415b	ppb	1.1006	0.7	1006.48
Na 330.237	96037.6xb	ppb	300.504	0.3	5009.01
Ni 231.604	154.057b	ppb	0.5653	0.4	479.690
Pb 220.353	152.318b	ppb	2.4978	1.6	253.949
Sb 206.834	157.294b	ppb	1.6126	1.0	229.127
Se 196.026	156.874b	ppb	4.8845	3.1	75.1126
Sn 189.925	150.587b	ppb	2.6432	1.8	104.488
Sr 216.596	161.721b	ppb	0.8214	0.5	1935.59
Ti 334.941	157.784b	ppb	0.2515	0.2	45873.2
Tl 190.794	30.4746b	ppb	1.3714	4.5	22.1642
V 292.401	162.578b	ppb	0.3625	0.2	4598.95
Zn 206.200	198.630b	ppb	1.7966	0.9	207.881

Cont Calib Verif (CCV)

3/23/2015, 2:14:28 PM

Rack 1, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	487.155	486.294	490.007
Al 308.215	4804.46	4800.50	4834.29
As 188.980	481.821	479.631	491.598
B 249.678	487.157	487.918	493.122
Ba 389.178	4896.85	4882.56	4912.11
Be 313.042	493.595	490.232	494.779
Ca 370.602	4929	4934	4982
Cd 226.502	492.809	492.031	495.679
Co 228.615	496.708	495.188	499.518
Cr 267.716	5003.42	5003.57	5032.61
Cu 324.754	4990.67	5049.97	5045.13
Fe 271.441	4886.19	4891.11	4921.29
K 766.491	10322.6	10282.6	10340.8
Mg 279.078	4894.06	4886.10	4909.99
Mn 257.610	4998.80	4990.39	5009.48
Mo 202.032	487.449	485.631	493.267
Na 330.237	7335.60	7139.03	7403.04
Ni 231.604	2481.16	2482.17	2501.30
Pb 220.353	488.225	490.614	485.974
Sb 206.834	983.136	977.959	979.058
Se 196.026	4880.13	4866.84	4934.95
Sn 189.925	4860.47	4880.67	4877.65
Sr 216.596	2450.61	2444.22	2463.19
Ti 334.941	486.614	484.941	488.231

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	4966.67	4954.70	5015.54
V 292.401	4890.57	4886.58	4915.23
Zn 206.200	2457.23	2464.41	2491.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	487.818	ppb	1.9435	0.4	43837.3	97.56367
Al 308.215	4813.08	ppb	18.4711	0.4	36599.8	96.26165
As 188.980	484.350	ppb	6.3722	1.3	345.745	96.86998
B 249.678	489.399	ppb	3.2468	0.7	8829.93	97.87979
Ba 389.178	4897.17	ppb	14.7776	0.3	111852	97.94341
Be 313.042	492.869	ppb	2.3589	0.5	943627	98.57372
Ca 370.602	4948	ppb	28.85	0.6	15891	98.96738
Cd 226.502	493.506	ppb	1.9212	0.4	22135.4	98.70125
Co 228.615	497.138	ppb	2.1969	0.4	5600.53	99.42754
Cr 267.716	5013.20	ppb	16.8055	0.3	269615	100.26402
Cu 324.754	5028.59	ppb	32.9308	0.7	406992	100.57177
Fe 271.441	4899.53	ppb	19.0084	0.4	7814.52	97.99062
K 766.491	10315.3	ppb	29.8147	0.3	473174	103.15345
Mg 279.078	4896.72	ppb	12.1623	0.2	14050.2	97.93442
Mn 257.610	4999.56	ppb	9.5682	0.2	1140124	99.99117
Mo 202.032	488.782	ppb	3.9888	0.8	3166.49	97.75640
Na 330.237	7292.56	ppb	137.168	1.9	381.808	97.23412
Ni 231.604	2488.21	ppb	11.3451	0.5	7782.56	99.52832
Pb 220.353	488.271	ppb	2.3205	0.5	794.201	97.65424
Sb 206.834	980.051	ppb	2.7278	0.3	1481.38	98.00511
Se 196.026	4893.97	ppb	36.1045	0.7	2324.12	97.87947
Sn 189.925	4872.93	ppb	10.8943	0.2	3562.00	97.45853
Sr 216.596	2452.67	ppb	9.6558	0.4	28941.5	98.10687
Ti 334.941	486.595	ppb	1.6453	0.3	141465	97.31905
Tl 190.794	4978.97	ppb	32.2290	0.6	5490.66	99.57934
V 292.401	4897.46	ppb	15.5197	0.3	139770	97.94919
Zn 206.200	2470.97	ppb	17.9461	0.7	2550.10	98.83896

Cont Calib Blank (CCB) 3/23/2015, 2:19:11 PM Rack 1, Tube 14
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4300u	-0.0971u	-0.0215u
Al 308.215	3.5632	4.0070	3.0754
As 188.980	-1.7366u	-4.6454u	-0.6387u
B 249.678	8.3448	7.5088	6.6532
Ba 389.178	-0.6167u	-0.1317u	-0.8160u
Be 313.042	0.0303	0.0274	0.0235
Ca 370.602	-0.7632u	3.136	-0.8311u
Cd 226.502	-0.2130u	0.1022	-0.1875u
Co 228.615	0.2468	-0.6677u	0.0402
Cr 267.716	0.2010	0.1533	0.1570
Cu 324.754	-0.1994u	0.0320	-0.3653u
Fe 271.441	-0.2917u	-0.5007u	1.5999
K 766.491	-2.4063u	-2.9809u	-2.3389u
Mg 279.078	0.3149	1.4897	-0.0780u
Mn 257.610	0.0953	0.0218	0.0535
Mo 202.032	-0.4398u	-0.3016u	0.2507
Na 330.237	22.3948	-84.8959u	-0.9440u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	-0.5080u	-0.3994u	-0.0433u
Pb 220.353	0.2370	0.1600	0.7403
Sb 206.834	1.3538	1.2364	1.3127
Se 196.026	6.3077	5.4375	-3.7060u
Sn 189.925	1.8259	-0.0472u	-0.6341u
Sr 216.596	-0.0533u	0.1239	-0.2628u
Ti 334.941	0.1718	0.1709	0.1472
Tl 190.794	1.3185	1.1251	0.1477
V 292.401	0.0295	0.1653	-0.0215u
Zn 206.200	-0.8519u	-1.7679u	-0.3793u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1829	ppb	0.2173	118.8	-18.1517	-0.18290
Al 308.215	3.5485	ppb	0.4659	13.1	398.863	3.54854
As 188.980	-2.3402	ppb	2.0705	88.5	-6.1202	-2.34023
B 249.678	7.5023	ppb	0.8458	11.3	172.370	7.50228
Ba 389.178	-0.5214	ppb	0.3519	67.5	-52.7248	-0.52144
Be 313.042	0.0271	ppb	0.0034	12.7	-412.988	0.02706
Ca 370.602	0.5139	ppb	2.271	441.9	23.69	0.51394
Cd 226.502	-0.0994	ppb	0.1751	176.1	27.7273	-0.09944
Co 228.615	-0.1269	ppb	0.4796	378.0	-5.6371	-0.12689
Cr 267.716	0.1705	ppb	0.0265	15.6	39.5101	0.17046
Cu 324.754	-0.1776	ppb	0.1995	112.4	395.229	-0.17755
Fe 271.441	0.2692	ppb	1.1572	429.9	8.5251	0.26920
K 766.491	-2.5754	ppb	0.3528	13.7	322.584	-2.57539
Mg 279.078	0.5755	ppb	0.8157	141.7	24.0178	0.57554
Mn 257.610	0.0569	ppb	0.0368	64.8	88.2624	0.05686
Mo 202.032	-0.1636	ppb	0.3654	223.4	6.7163	-0.16355
Na 330.237	-21.1484	ppb	56.4268	266.8	34.0221	-21.14835
Ni 231.604	-0.3169	ppb	0.2431	76.7	-4.3785	-0.31690
Pb 220.353	0.3791	ppb	0.3151	83.1	9.9130	0.37910
Sb 206.834	1.3010	ppb	0.0595	4.6	2.9937	1.30095
Se 196.026	2.6798	ppb	5.5473	207.0	1.3972	2.67976
Sn 189.925	0.3815	ppb	1.2848	336.8	-5.5162	0.38152
Sr 216.596	-0.0641	ppb	0.1936	302.1	2.2177	-0.06407
Ti 334.941	0.1633	ppb	0.0139	8.5	23.0523	0.16330
Tl 190.794	0.8638	ppb	0.6276	72.7	-9.0404	0.86376
V 292.401	0.0578	ppb	0.0966	167.1	-4.7704	0.05779
Zn 206.200	-0.9997	ppb	0.7060	70.6	1.0511	-0.99970

680-110747-a-1-d (Samp)

3/23/2015, 2:23:54 PM

Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1408u	-0.1266u	-0.1634u
Al 308.215	50.3264	50.1281	50.9930
As 188.980	-4.1028u	1.2481	-1.0506u
B 249.678	20.2477	20.0282	20.0530
Ba 389.178	16.4010	16.2630	16.5002
Be 313.042	0.0328	0.0314	0.0308
Ca 370.602	1549	1560	1555
Cd 226.502	0.0340	0.1580	-0.0277u
Co 228.615	0.1539	-0.1340u	-0.2467u
Cr 267.716	0.1344	0.2356	0.3347

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	47.0406	47.4502	47.4185
Fe 271.441	185.823	182.346	187.352
K 766.491	894.056	892.919	893.418
Mg 279.078	90.5158	88.6661	90.4827
Mn 257.610	29.2794	29.3475	29.2972
Mo 202.032	-0.4493u	0.1610	-0.0730u
Na 330.237	98008.4x	97910.9x	98221.6x
Ni 231.604	-0.4554u	-0.5192u	0.6464
Pb 220.353	-0.7806u	-0.8977u	1.5723
Sb 206.834	0.3284	-0.6159u	0.1857
Se 196.026	4.3578	5.6778	5.0550
Sn 189.925	-2.5699u	0.9987	0.1577
Sr 216.596	4.2003	4.3074	4.0983
Ti 334.941	0.4635	0.4454	0.3773
Tl 190.794	-1.7357u	-2.2622u	-1.5236u
V 292.401	0.1095	-0.2020u	0.1593
Zn 206.200	25.9194	27.5458	25.7468

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1436b	ppb	0.0186	12.9	-14.6427
Al 308.215	50.4825b	ppb	0.4531	0.9	745.059
As 188.980	-1.3018b	ppb	2.6843	206.2	-5.3703
B 249.678	20.1096b	ppb	0.1202	0.6	398.308
Ba 389.178	16.3881b	ppb	0.1191	0.7	333.871
Be 313.042	0.0317b	ppb	0.0010	3.2	-414.713
Ca 370.602	1555b	ppb	5.613	0.4	4892
Cd 226.502	0.0548b	ppb	0.0945	172.6	35.0374
Co 228.615	-0.0756b	ppb	0.2066	273.3	-5.0424
Cr 267.716	0.2349b	ppb	0.1002	42.6	45.0764
Cu 324.754	47.3031b	ppb	0.2279	0.5	4234.85
Fe 271.441	185.174b	ppb	2.5653	1.4	299.431
K 766.491	893.465b	ppb	0.5698	0.1	41386.4
Mg 279.078	89.8882b	ppb	1.0585	1.2	281.252
Mn 257.610	29.3080b	ppb	0.0353	0.1	6758.88
Mo 202.032	-0.1204b	ppb	0.3079	255.6	6.9874
Na 330.237	98046.9xb	ppb	158.882	0.2	5119.26
Ni 231.604	-0.1094b	ppb	0.6553	599.0	-3.7138
Pb 220.353	-0.0353b	ppb	1.3935	3943.2	9.2680
Sb 206.834	-0.0339b	ppb	0.5090	1500.9	1.0606
Se 196.026	5.0302b	ppb	0.6603	13.1	2.5214
Sn 189.925	-0.4711b	ppb	1.8656	396.0	-6.1112
Sr 216.596	4.2020b	ppb	0.1046	2.5	53.4729
Ti 334.941	0.4287b	ppb	0.0455	10.6	92.8298
Tl 190.794	-1.8405b	ppb	0.3803	20.7	-12.0364
V 292.401	0.0223b	ppb	0.1958	878.8	-6.6418
Zn 206.200	26.4040b	ppb	0.9926	3.8	29.4205

mb 680-375561/1-a (Samp)

3/23/2015, 2:28:37 PM

Rack 1, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1574u	-0.1025u	0.1563
Al 308.215	7.2816	5.8223	5.2000
As 188.980	-1.2957u	-1.1504u	2.1724

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	2.5425	2.2886	2.4194
Ba 389.178	-1.3150u	-0.9852u	-1.1703u
Be 313.042	0.0179	0.0071	0.0193
Ca 370.602	0.0277	0.9427	1.297
Cd 226.502	0.0659	-0.0499u	-0.0064u
Co 228.615	0.0967	0.2388	-0.3758u
Cr 267.716	0.1775	0.1167	0.1382
Cu 324.754	1.0780	1.2145	1.4465
Fe 271.441	-1.5232u	3.4226	4.5930
K 766.491	-2.2399u	-2.0974u	-2.9774u
Mg 279.078	0.9431	-0.3505u	1.0715
Mn 257.610	-0.0723u	-0.0696u	-0.0472u
Mo 202.032	0.5865	-0.2813u	-0.5370u
Na 330.237	207.966	20.5492	219.616
Ni 231.604	-0.3909u	-0.2157u	-0.9957u
Pb 220.353	1.4353	-0.2766u	1.2845
Sb 206.834	3.7515	2.9232	1.7728
Se 196.026	2.0554	-0.3714u	-4.7915u
Sn 189.925	2.1888	-0.7883u	1.1101
Sr 216.596	0.2611	0.5057	-0.6447u
Ti 334.941	0.0710	0.1136	0.0772
Tl 190.794	-0.5378u	-1.3272u	-0.3992u
V 292.401	0.0861	-0.1092u	-0.2018u
Zn 206.200	-0.0315u	0.2086	-0.5592u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0345	ppb	0.1675	484.9	-4.8095
Al 308.215	6.1013	ppb	1.0685	17.5	417.677
As 188.980	-0.0912	ppb	1.9617	2150.5	-4.4934
B 249.678	2.4168	ppb	0.1270	5.3	81.0633
Ba 389.178	-1.1568	ppb	0.1653	14.3	-67.2375
Be 313.042	0.0148	ppb	0.0067	45.0	-436.531
Ca 370.602	0.7558	ppb	0.6549	86.7	24.41
Cd 226.502	0.0032	ppb	0.0585	1823.8	32.3223
Co 228.615	-0.0134	ppb	0.3218	2392.7	-4.3628
Cr 267.716	0.1441	ppb	0.0308	21.4	38.0975
Cu 324.754	1.2463	ppb	0.1863	14.9	510.376
Fe 271.441	2.1641	ppb	3.2465	150.0	11.5142
K 766.491	-2.4382	ppb	0.4723	19.4	328.870
Mg 279.078	0.5547	ppb	0.7865	141.8	23.9595
Mn 257.610	-0.0631	ppb	0.0138	21.8	60.9261
Mo 202.032	-0.0772	ppb	0.5889	762.4	7.2751
Na 330.237	149.377	ppb	111.720	74.8	42.8528
Ni 231.604	-0.5341	ppb	0.4092	76.6	-5.0583
Pb 220.353	0.8144	ppb	0.9478	116.4	10.6088
Sb 206.834	2.8158	ppb	0.9937	35.3	5.1895
Se 196.026	-1.0358	ppb	3.4715	335.1	-0.3663
Sn 189.925	0.8369	ppb	1.5073	180.1	-5.1828
Sr 216.596	0.0407	ppb	0.6060	1489.6	3.4687
Ti 334.941	0.0873	ppb	0.0230	26.4	0.9332
Tl 190.794	-0.7547	ppb	0.5006	66.3	-10.8258
V 292.401	-0.0750	ppb	0.1470	196.1	-8.5832
Zn 206.200	-0.1274	ppb	0.3928	308.4	1.9541

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

ics 680-375561/2-a (Samp) 3/23/2015, 2:33:20 PM Rack 1, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.9615	52.2190	52.2573
Al 308.215	4976.16	4961.64	4974.20
As 188.980	96.0720	99.9856	97.4937
B 249.678	197.514	197.953	199.261
Ba 389.178	99.2698	98.0087	97.1341
Be 313.042	51.6116	51.5177	51.6749
Ca 370.602	5212	5210	5214
Cd 226.502	51.1327	50.6863	50.9723
Co 228.615	51.8634	50.6671	50.8485
Cr 267.716	106.112	105.519	105.626
Cu 324.754	103.793	103.531	104.097
Fe 271.441	5045.21	5024.98	5049.54
K 766.491	5257.64	5255.58	5269.36
Mg 279.078	4952.08	4917.74	4950.55
Mn 257.610	533.159	531.216	532.671
Mo 202.032	99.8244	99.6988	100.648
Na 330.237	5114.26	5173.12	5144.12
Ni 231.604	101.507	102.502	101.578
Pb 220.353	504.982	499.841	502.003
Sb 206.834	50.1767	51.3953	54.7241
Se 196.026	99.0087	105.197	103.576
Sn 189.925	199.202	200.354	200.920
Sr 216.596	98.6738	98.3722	99.2958
Ti 334.941	102.834	102.525	102.745
Tl 190.794	40.5416	43.2950	37.7431
V 292.401	103.401	103.278	103.863
Zn 206.200	99.5732	100.917	99.6251

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1459	ppb	0.1609	0.3	4688.45
Al 308.215	4970.67	ppb	7.8753	0.2	37055.2
As 188.980	97.8504	ppb	1.9810	2.0	66.2866
B 249.678	198.243	ppb	0.9086	0.5	3585.96
Ba 389.178	98.1375	ppb	1.0737	1.1	2216.10
Be 313.042	51.6014	ppb	0.0791	0.2	98347.7
Ca 370.602	5212	ppb	2.221	0.0	16360
Cd 226.502	50.9304	ppb	0.2261	0.4	2339.06
Co 228.615	51.1264	ppb	0.6447	1.3	571.518
Cr 267.716	105.752	ppb	0.3160	0.3	5721.49
Cu 324.754	103.807	ppb	0.2833	0.3	8809.21
Fe 271.441	5039.91	ppb	13.1075	0.3	7943.54
K 766.491	5260.86	ppb	7.4303	0.1	241536
Mg 279.078	4940.13	ppb	19.4002	0.4	14273.6
Mn 257.610	532.349	ppb	1.0105	0.2	121516
Mo 202.032	100.057	ppb	0.5158	0.5	655.138
Na 330.237	5143.84	ppb	29.4310	0.6	299.328
Ni 231.604	101.862	ppb	0.5554	0.5	315.699
Pb 220.353	502.275	ppb	2.5811	0.5	812.527
Sb 206.834	52.0987	ppb	2.3539	4.5	76.4642
Se 196.026	102.594	ppb	3.2089	3.1	48.9920
Sn 189.925	200.159	ppb	0.8758	0.4	140.755
Sr 216.596	98.7806	ppb	0.4710	0.5	1175.56

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	102.701	ppb	0.1592	0.2	29845.7
Tl 190.794	40.5266	ppb	2.7759	6.8	34.1452
V 292.401	103.514	ppb	0.3084	0.3	2927.57
Zn 206.200	100.038	ppb	0.7611	0.8	105.594

680-110837-c-1-a (Samp) 3/23/2015, 2:38:03 PM Rack 1, Tube 18
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5106	0.4129	0.3602
Al 308.215	244.798	243.644	243.424
As 188.980	33.0856	34.2273	31.3394
B 249.678	130.797	130.624	129.929
Ba 389.178	24.0400	24.7537	24.2209
Be 313.042	0.6160u	0.6247u	0.6278u
Ca 370.602	25016	25063	25080
Cd 226.502	2.1510	2.1589	2.1795
Co 228.615	0.8412	1.5112	1.0727
Cr 267.716	-1.7061	-1.6858	-1.5288
Cu 324.754	24.3832	24.3613	24.4629
Fe 271.441	153.694	163.608	151.711
K 766.491	14090.1	14051.9	14057.1
Mg 279.078	2874.11	2875.25	2878.10
Mn 257.610	41.4495	41.5561	41.5085
Mo 202.032	203.723	203.587	202.805
Na 330.237	11471048x	11431584x	11424766x
Ni 231.604	5.1379	3.8710	3.7358
Pb 220.353	3.4584	1.5079	4.7002
Sb 206.834	-0.3110u	3.8076	2.8467
Se 196.026	77.0210	73.6867	69.5223
Sn 189.925	20.4630	24.3690	23.2299
Sr 216.596	63.3339	63.2978	63.1819
Ti 334.941	4.9794	5.0009	4.8901
Tl 190.794	-13.0465u	-2.3559u	-3.2647u
V 292.401	3.5095u	3.9752u	3.7132u
Zn 206.200	60.0861	58.7320	63.3231

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4279b	ppb	0.0763	17.8	34.5783
Al 308.215	243.955b	ppb	0.7381	0.3	2177.45
As 188.980	32.8841b	ppb	1.4545	4.4	19.2954
B 249.678	130.450b	ppb	0.4594	0.4	2379.96
Ba 389.178	24.3382b	ppb	0.3710	1.5	522.371
Be 313.042	0.6228b	ppb	0.0061	1.0	-571.516
Ca 370.602	25053b	ppb	32.85	0.1	78514
Cd 226.502	2.1631b	ppb	0.0147	0.7	57.1903
Co 228.615	1.1417b	ppb	0.3403	29.8	3.1961
Cr 267.716	-1.6402b	ppb	0.0971	5.9	158.740
Cu 324.754	24.4025b	ppb	0.0535	0.2	2392.02
Fe 271.441	156.338b	ppb	6.3741	4.1	254.396
K 766.491	14066.3b	ppb	20.7127	0.1	645075
Mg 279.078	2875.82b	ppb	2.0575	0.1	8325.47
Mn 257.610	41.5047b	ppb	0.0534	0.1	9504.83
Mo 202.032	203.372b	ppb	0.4951	0.2	1324.25

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	11442466xb	ppb	24986.4	0.2	593418
Ni 231.604	4.2482b	ppb	0.7734	18.2	9.9192
Pb 220.353	3.2222b	ppb	1.6092	49.9	14.1596
Sb 206.834	2.1144b	ppb	2.1547	101.9	0.5581
Se 196.026	73.4100b	ppb	3.7570	5.1	34.9782
Sn 189.925	22.6873b	ppb	2.0087	8.9	14.2080
Sr 216.596	63.2712b	ppb	0.0794	0.1	758.020
Ti 334.941	4.9568b	ppb	0.0587	1.2	544.504
Tl 190.794	-6.2224b	ppb	5.9274	95.3	-17.5596
V 292.401	3.7326b	ppb	0.2334	6.3	-32.4757
Zn 206.200	60.7137b	ppb	2.3590	3.9	64.9267

680-110837-c-1-a (Samp) 3/23/2015, 2:46:58 PM Rack 1, Tube 19

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0786	-0.0320u	-0.0462u
Al 308.215	53.6805	54.7796	53.3104
As 188.980	3.0780	0.8931	-1.2838u
B 249.678	24.1594	24.8277	24.5609
Ba 389.178	4.5659	4.2099	4.8102
Be 313.042	0.1170u	0.1195u	0.1129u
Ca 370.602	5275	5212	5133
Cd 226.502	0.4368	0.3773	0.4190
Co 228.615	-0.0891u	0.4245	-0.0733u
Cr 267.716	-0.5170	-0.3369	-0.4759
Cu 324.754	4.9737	4.6801	4.5977
Fe 271.441	31.4795	40.5443	33.8942
K 766.491	1783.91	1757.06	1725.41
Mg 279.078	699.268	690.293	677.441
Mn 257.610	8.6684	8.6436	8.5383
Mo 202.032	42.5974	42.6729	40.9226
Na 330.237	2336283x	2287939x	2253796x
Ni 231.604	1.4758	1.2782	1.0595
Pb 220.353	-1.7854u	1.9890	-0.4231u
Sb 206.834	-0.5002u	0.2030u	0.4409u
Se 196.026	21.9638	18.6272	13.6061
Sn 189.925	3.7155	2.3397	3.7298
Sr 216.596	13.8061	13.7430	12.8313
Ti 334.941	0.9085	0.9021	0.9420
Tl 190.794	0.1166u	-2.1734u	-1.6011u
V 292.401	0.8582u	0.7521u	0.3864u
Zn 206.200	10.3375	9.5796	12.5041

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0001b	ppb	0.0683	53742.6	-2.1657
Al 308.215	53.9235b	ppb	0.7641	1.4	771.519
As 188.980	0.8958b	ppb	2.1809	243.5	-3.7927
B 249.678	24.5160b	ppb	0.3364	1.4	477.804
Ba 389.178	4.5287b	ppb	0.3019	6.7	64.3305
Be 313.042	0.1164b	ppb	0.0033	2.9	-502.366
Ca 370.602	5207b	ppb	70.73	1.4	16334
Cd 226.502	0.4110b	ppb	0.0305	7.4	36.2137
Co 228.615	0.0874b	ppb	0.2921	334.3	-4.3580

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.4433b	ppb	0.0943	21.3	49.9273
Cu 324.754	4.7505b	ppb	0.1977	4.2	795.625
Fe 271.441	35.3060b	ppb	4.6944	13.3	63.7307
K 766.491	1755.46b	ppb	29.2798	1.7	80890.1
Mg 279.078	689.001b	ppb	10.9707	1.6	2011.68
Mn 257.610	8.6168b	ppb	0.0691	0.8	2034.12
Mo 202.032	42.0643b	ppb	0.9895	2.4	280.067
Na 330.237	2292673xb	ppb	41446.7	1.8	118928
Ni 231.604	1.2711b	ppb	0.2083	16.4	0.5936
Pb 220.353	-0.0732b	ppb	1.9114	2612.4	9.1284
Sb 206.834	0.0479b	ppb	0.4893	1022.3	0.4243
Se 196.026	18.0657b	ppb	4.2071	23.3	8.7020
Sn 189.925	3.2617b	ppb	0.7985	24.5	-2.7274
Sr 216.596	13.4601b	ppb	0.5455	4.1	163.570
Ti 334.941	0.9175b	ppb	0.0214	2.3	67.6991
Tl 190.794	-1.2193b	ppb	1.1918	97.7	-11.4837
V 292.401	0.6656b	ppb	0.2475	37.2	-14.2644
Zn 206.200	10.8070b	ppb	1.5177	14.0	13.2723

680-110837-c-1-a (Samp)

3/23/2015, 2:51:42 PM

Rack 1, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	119.593	119.745	120.030
Al 308.215	1520.39	1519.59	1518.49
As 188.980	172.927	171.701	175.935
B 249.678	357.510	357.778	357.812
Ba 389.178	103.379	103.873	105.809
Be 313.042	96.3548	96.3984	96.3819
Ca 370.602	35010	35018	34946
Cd 226.502	91.9510	91.9369	91.8365
Co 228.615	88.5954	88.0776	88.5127
Cr 267.716	95.9271	95.8205	95.4617
Cu 324.754	149.044	148.751	148.847
Fe 271.441	9225.29	9205.20	9216.24
K 766.491	49736.1	49714.4	49894.7x
Mg 279.078	10605.8	10612.5	10603.9
Mn 257.610	1036.88	1034.81	1035.57
Mo 202.032	303.222	302.675	300.968
Na 330.237	11918892x	11922603x	11944384x
Ni 231.604	92.5595	90.1722	94.2746
Pb 220.353	87.3875	85.1307	89.5866
Sb 206.834	121.398	118.855	116.618
Se 196.026	237.068	243.531	243.566
Sn 189.925	110.331	106.169	114.211
Sr 216.596	157.851	156.610	156.710
Ti 334.941	101.905	102.174	102.170
Tl 190.794	9.5543	9.9718	7.7906
V 292.401	103.088	103.691	103.134
Zn 206.200	162.737	158.377	160.380

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	119.790b	ppb	0.2219	0.2	10773.9
Al 308.215	1519.49b	ppb	0.9534	0.1	11603.5

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	173.521b	ppb	2.1788	1.3	120.931
B 249.678	357.700b	ppb	0.1654	0.0	6440.23
Ba 389.178	104.354b	ppb	1.2845	1.2	2374.41
Be 313.042	96.3784b	ppb	0.0220	0.0	182748
Ca 370.602	34991b	ppb	39.41	0.1	109623
Cd 226.502	91.9081b	ppb	0.0625	0.1	4120.51
Co 228.615	88.3952b	ppb	0.2782	0.3	986.123
Cr 267.716	95.7365b	ppb	0.2438	0.3	5411.94
Cu 324.754	148.881b	ppb	0.1495	0.1	12465.1
Fe 271.441	9215.57b	ppb	10.0608	0.1	14517.0
K 766.491	49781.7xb	ppb	98.4423	0.2	2281846
Mg 279.078	10607.4b	ppb	4.4709	0.0	30628.6
Mn 257.610	1035.75b	ppb	1.0454	0.1	236301
Mo 202.032	302.289b	ppb	1.1755	0.4	1964.05
Na 330.237	11928627xb	ppb	13772.1	0.1	618626
Ni 231.604	92.3354b	ppb	2.0603	2.2	286.153
Pb 220.353	87.3683b	ppb	2.2280	2.6	149.339
Sb 206.834	118.957b	ppb	2.3912	2.0	169.849
Se 196.026	241.388b	ppb	3.7415	1.5	115.025
Sn 189.925	110.237b	ppb	4.0220	3.6	78.4474
Sr 216.596	157.057b	ppb	0.6891	0.4	1878.76
Ti 334.941	102.083b	ppb	0.1540	0.2	28763.5
Tl 190.794	9.1056b	ppb	1.1578	12.7	-1.5117
V 292.401	103.304b	ppb	0.3358	0.3	2784.30
Zn 206.200	160.498b	ppb	2.1822	1.4	168.324

680-110837-c-1-b ms (Samp) 3/23/2015, 2:56:27 PM Rack 1, Tube 21

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	70.3767	70.7515	70.8069
Al 308.215	6682.08	6719.74	6696.33
As 188.980	170.180	159.016	174.565
B 249.678	348.925	351.588	350.814
Ba 389.178	116.894	116.836	116.649
Be 313.042	49.9298	50.0539	49.9822
Ca 370.602	28645	28645	28626
Cd 226.502	48.4091	48.1253	48.1446
Co 228.615	46.0698	45.5185	44.7171
Cr 267.716	96.8983	97.6451	97.1944
Cu 324.754	149.265	150.253	149.600
Fe 271.441	4714.72	4724.74	4712.82
K 766.491	31514.5	31714.4	31550.5
Mg 279.078	6656.66	6660.11	6655.35
Mn 257.610	537.709	539.302	538.157
Mo 202.032	288.447	291.161	291.346
Na 330.237	11293063x	11348449x	11271966x
Ni 231.604	93.3751	91.7975	95.7168
Pb 220.353	421.002	426.173	429.289
Sb 206.834	63.5216	62.4367	66.2667
Se 196.026	216.865	215.169	225.291
Sn 189.925	196.438	197.770	202.441
Sr 216.596	152.728	152.051	152.995
Ti 334.941	102.345	102.638	102.757

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	29.3871	24.5971	34.5816
V 292.401	102.318	102.349	102.611
Zn 206.200	157.594	151.114	152.427

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	70.6450b	ppb	0.2340	0.3	6350.82
Al 308.215	6699.38b	ppb	19.0137	0.3	49810.8
As 188.980	167.920b	ppb	8.0173	4.8	116.916
B 249.678	350.442b	ppb	1.3699	0.4	6320.26
Ba 389.178	116.793b	ppb	0.1277	0.1	2646.57
Be 313.042	49.9886b	ppb	0.0623	0.1	93979.8
Ca 370.602	28639b	ppb	10.65	0.0	89757
Cd 226.502	48.2264b	ppb	0.1586	0.3	2144.78
Co 228.615	45.4351b	ppb	0.6802	1.5	502.224
Cr 267.716	97.2459b	ppb	0.3761	0.4	5477.10
Cu 324.754	149.706b	ppb	0.5028	0.3	12529.1
Fe 271.441	4717.43b	ppb	6.4060	0.1	7435.75
K 766.491	31593.1b	ppb	106.548	0.3	1448295
Mg 279.078	6657.37b	ppb	2.4586	0.0	19231.5
Mn 257.610	538.389b	ppb	0.8217	0.2	122850
Mo 202.032	290.318b	ppb	1.6230	0.6	1886.77
Na 330.237	11304492xb	ppb	39501.8	0.3	586261
Ni 231.604	93.6298b	ppb	1.9720	2.1	289.924
Pb 220.353	425.488b	ppb	4.1858	1.0	689.432
Sb 206.834	64.0750b	ppb	1.9741	3.1	90.3710
Se 196.026	219.108b	ppb	5.4213	2.5	104.290
Sn 189.925	198.883b	ppb	3.1528	1.6	143.163
Sr 216.596	152.592b	ppb	0.4867	0.3	1817.98
Ti 334.941	102.580b	ppb	0.2122	0.2	28949.3
Tl 190.794	29.5219b	ppb	4.9936	16.9	21.3826
V 292.401	102.426b	ppb	0.1609	0.2	2768.42
Zn 206.200	153.712b	ppb	3.4256	2.2	161.145

680-110837-c-1-c msd (Samp) 3/23/2015, 3:01:11 PM

Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	71.4666	71.3302	71.3721
Al 308.215	6788.82	6800.82	6781.68
As 188.980	168.822	171.555	168.008
B 249.678	354.286	354.466	355.764
Ba 389.178	119.352	118.794	117.913
Be 313.042	50.7580	50.7337	50.6742
Ca 370.602	28919	28822	28828
Cd 226.502	48.5853	48.5854	48.6154
Co 228.615	45.7441	46.0001	46.2195
Cr 267.716	98.2428	98.2120	98.2017
Cu 324.754	152.361	152.718	151.745
Fe 271.441	4776.76	4763.74	4771.08
K 766.491	32056.5	32120.6	31884.0
Mg 279.078	6714.15	6715.79	6722.67
Mn 257.610	545.031	544.012	544.961
Mo 202.032	293.453	291.862	291.977
Na 330.237	11424916x	11480403x	11439647x

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	94.1721	94.6711	92.8727
Pb 220.353	430.127	432.726	426.221
Sb 206.834	62.1164	57.8360	61.0964
Se 196.026	219.444	219.348	226.508
Sn 189.925	204.636	196.628	198.867
Sr 216.596	153.166	153.801	153.274
Ti 334.941	103.898	104.260	103.830
Tl 190.794	22.9110	31.0104	27.7284
V 292.401	103.919	103.377	103.664
Zn 206.200	154.400	159.846	156.378

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	71.3896b	ppb	0.0698	0.1	6417.79
Al 308.215	6790.44b	ppb	9.6730	0.1	50482.7
As 188.980	169.462b	ppb	1.8581	1.1	118.030
B 249.678	354.839b	ppb	0.8066	0.2	6399.04
Ba 389.178	118.686b	ppb	0.7252	0.6	2690.01
Be 313.042	50.7220b	ppb	0.0431	0.1	95368.0
Ca 370.602	28856b	ppb	54.00	0.2	90439
Cd 226.502	48.5954b	ppb	0.0174	0.0	2160.67
Co 228.615	45.9879b	ppb	0.2379	0.5	508.407
Cr 267.716	98.2188b	ppb	0.0214	0.0	5532.16
Cu 324.754	152.274b	ppb	0.4921	0.3	12737.0
Fe 271.441	4770.52b	ppb	6.5271	0.1	7519.36
K 766.491	32020.3b	ppb	122.375	0.4	1467874
Mg 279.078	6717.54b	ppb	4.5189	0.1	19405.0
Mn 257.610	544.668b	ppb	0.5690	0.1	124281
Mo 202.032	292.431b	ppb	0.8869	0.3	1900.44
Na 330.237	11448322xb	ppb	28742.7	0.3	593719
Ni 231.604	93.9053b	ppb	0.9284	1.0	290.789
Pb 220.353	429.691b	ppb	3.2743	0.8	696.151
Sb 206.834	60.3496b	ppb	2.2358	3.7	84.9308
Se 196.026	221.767b	ppb	4.1064	1.9	105.554
Sn 189.925	200.044b	ppb	4.1313	2.1	144.055
Sr 216.596	153.414b	ppb	0.3395	0.2	1827.82
Ti 334.941	103.996b	ppb	0.2314	0.2	29350.3
Tl 190.794	27.2166b	ppb	4.0739	15.0	18.8287
V 292.401	103.653b	ppb	0.2709	0.3	2801.74
Zn 206.200	156.875b	ppb	2.7567	1.8	164.419

680-110815-f-1-a (Samp)

3/23/2015, 3:05:56 PM

Rack 1, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2099u	-0.0764u	-0.1824u
Al 308.215	10037.4	10043.1	10053.2
As 188.980	-2.8806u	-0.3032u	4.1783
B 249.678	92.0530	92.3226	93.1365
Ba 389.178	51.6928	51.6343	52.1370
Be 313.042	-0.0023u	-0.0087u	-0.0091u
Ca 370.602	63449	63471	63520
Cd 226.502	-0.0180	0.0074	-0.0478u
Co 228.615	0.1872	-0.8336u	-0.7312u
Cr 267.716	6.0098	6.1351	5.9520

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	4.7855	4.5977	4.5548
Fe 271.441	312.187	314.980	312.485
K 766.491	4888.84	4889.85	4901.52
Mg 279.078	34983.5	34966.2	35020.8
Mn 257.610	10.4578	10.4267	10.4766
Mo 202.032	0.6759	0.9078	0.7164
Na 330.237	226902x	227566x	227807x
Ni 231.604	8.0666	7.0988	9.3998
Pb 220.353	-0.8820u	2.1289	0.2803
Sb 206.834	1.9484	2.8799	0.2781
Se 196.026	0.9622	8.9393	6.8478
Sn 189.925	-3.4684u	-1.3935u	-0.3033u
Sr 216.596	701.705	701.670	704.092
Ti 334.941	0.8699	0.8680	0.7850
Tl 190.794	0.3424	-1.9119u	-0.4795u
V 292.401	0.1282	-0.2263u	0.1031
Zn 206.200	18.7749	19.3434	17.9425

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1562b	ppb	0.0705	45.1	-41.8629
Al 308.215	10044.6b	ppb	7.9645	0.1	74463.5
As 188.980	0.3315b	ppb	3.5720	1077.6	-4.1901
B 249.678	92.5040b	ppb	0.5640	0.6	1698.11
Ba 389.178	51.8214b	ppb	0.2749	0.5	1217.28
Be 313.042	-0.0067b	ppb	0.0038	56.4	-481.023
Ca 370.602	63480b	ppb	36.09	0.1	198903
Cd 226.502	-0.0195b	ppb	0.0276	142.0	32.1766
Co 228.615	-0.4592b	ppb	0.5621	122.4	-9.3459
Cr 267.716	6.0323b	ppb	0.0936	1.6	359.406
Cu 324.754	4.6460b	ppb	0.1227	2.6	785.476
Fe 271.441	313.217b	ppb	1.5337	0.5	500.811
K 766.491	4893.40b	ppb	7.0492	0.1	224696
Mg 279.078	34990.1b	ppb	27.9054	0.1	101054
Mn 257.610	10.4537b	ppb	0.0252	0.2	2740.97
Mo 202.032	0.7667b	ppb	0.1238	16.2	12.7238
Na 330.237	227425xb	ppb	468.373	0.2	11828.6
Ni 231.604	8.1884b	ppb	1.1553	14.1	22.2713
Pb 220.353	0.5091b	ppb	1.5184	298.3	10.0076
Sb 206.834	1.7021b	ppb	1.3183	77.4	3.6422
Se 196.026	5.5831b	ppb	4.1362	74.1	2.7809
Sn 189.925	-1.7217b	ppb	1.6079	93.4	-6.9883
Sr 216.596	702.489b	ppb	1.3887	0.2	8333.60
Ti 334.941	0.8410b	ppb	0.0485	5.8	264.604
Tl 190.794	-0.6830b	ppb	1.1409	167.0	-10.7942
V 292.401	0.0017b	ppb	0.1978	11731.0	-8.3756
Zn 206.200	18.6869b	ppb	0.7046	3.8	21.4264

680-110785-f-1-a (Samp)

3/23/2015, 3:10:42 PM

Rack 1, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1192	-0.0544u	-0.0528u
Al 308.215	101.098	100.269	103.262
As 188.980	3.0791	6.2572	4.2289

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	50.6813	51.0149	50.7549
Ba 389.178	9.9991	9.6914	10.0005
Be 313.042	-0.0134u	-0.0040u	-0.0025u
Ca 370.602	96369	96454	96850
Cd 226.502	0.0911	0.1155	0.2375
Co 228.615	-0.0079	-0.8155u	0.1594
Cr 267.716	5.1948	5.1815	5.2494
Cu 324.754	31.5927	31.4590	31.3486
Fe 271.441	287.873	288.320	286.620
K 766.491	128922x	128599x	128281x
Mg 279.078	8025.50	8017.10	8014.44
Mn 257.610	24.6953	24.7983	24.8444
Mo 202.032	0.0222	0.1709	0.4255
Na 330.237	282808x	281970x	282864x
Ni 231.604	3.4140	2.8722	3.1893
Pb 220.353	-1.0536u	1.4215	2.7570
Sb 206.834	2.7788	2.2384	2.6751
Se 196.026	12.6509	11.7634	7.9624
Sn 189.925	8.7844	3.5796	6.4970
Sr 216.596	116.147	116.041	114.978
Ti 334.941	2.9580	2.9579	2.9377
Tl 190.794	-4.2227u	-2.0830u	-3.5279u
V 292.401	2.6287	2.6743	2.7863
Zn 206.200	19.0368	20.6658	20.4890

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0040b	ppb	0.0997	2487.3	-5.8973
Al 308.215	101.543b	ppb	1.5451	1.5	1122.13
As 188.980	4.5217b	ppb	1.6091	35.6	-1.1586
B 249.678	50.8170b	ppb	0.1752	0.3	949.950
Ba 389.178	9.8970b	ppb	0.1780	1.8	202.489
Be 313.042	-0.0066b	ppb	0.0059	88.5	-480.819
Ca 370.602	96558b	ppb	256.9	0.3	302538
Cd 226.502	0.1480b	ppb	0.0784	53.0	38.7485
Co 228.615	-0.2213b	ppb	0.5213	235.5	-6.5349
Cr 267.716	5.2086b	ppb	0.0360	0.7	316.050
Cu 324.754	31.4668b	ppb	0.1222	0.4	2954.26
Fe 271.441	287.604b	ppb	0.8816	0.3	460.591
K 766.491	128601xb	ppb	320.450	0.2	5893977
Mg 279.078	8019.02b	ppb	5.7695	0.1	23177.2
Mn 257.610	24.7794b	ppb	0.0763	0.3	5790.74
Mo 202.032	0.2062b	ppb	0.2039	98.9	9.0942
Na 330.237	282547xb	ppb	500.674	0.2	14687.1
Ni 231.604	3.1585b	ppb	0.2722	8.6	6.5223
Pb 220.353	1.0417b	ppb	1.9335	185.6	10.9978
Sb 206.834	2.5641b	ppb	0.2868	11.2	4.8950
Se 196.026	10.7922b	ppb	2.4905	23.1	5.2561
Sn 189.925	6.2870b	ppb	2.6088	41.5	-1.1085
Sr 216.596	115.722b	ppb	0.6462	0.6	1407.47
Ti 334.941	2.9512b	ppb	0.0117	0.4	826.089
Tl 190.794	-3.2779b	ppb	1.0915	33.3	-13.6365
V 292.401	2.6965b	ppb	0.0811	3.0	68.2185
Zn 206.200	20.0638b	ppb	0.8939	4.5	22.8521

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Cont Calib Verif (CCV) 3/23/2015, 3:15:25 PM Rack 1, Tube 25

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	486.534	484.602	483.795
Al 308.215	4827.59	4820.55	4807.28
As 188.980	481.159	483.221	484.063
B 249.678	481.193	483.788	483.278
Ba 389.178	4819.79	4826.82	4808.44
Be 313.042	487.151	486.695	487.327
Ca 370.602	4868	4862	4836
Cd 226.502	483.919	484.142	482.573
Co 228.615	490.567	489.428	488.087
Cr 267.716	4940.72	4945.68	4932.55
Cu 324.754	5060.16	5039.57	5011.90
Fe 271.441	4833.86	4831.44	4811.45
K 766.491	10333.0	10319.8	10303.8
Mg 279.078	4877.66	4869.99	4848.95
Mn 257.610	4920.71	4930.24	4909.86
Mo 202.032	483.148	483.005	480.114
Na 330.237	7484.68	7360.88	7285.25
Ni 231.604	2451.08	2446.67	2436.83
Pb 220.353	485.987	479.081	475.758
Sb 206.834	974.309	972.959	969.346
Se 196.026	4873.53	4876.49	4852.12
Sn 189.925	4788.17	4812.86	4779.23
Sr 216.596	2385.32	2392.33	2382.73
Ti 334.941	481.848	482.401	481.923
Tl 190.794	4916.51	4916.64	4898.72
V 292.401	4854.62	4851.00	4844.22
Zn 206.200	2416.27	2405.48	2382.04

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	484.977	ppb	1.4071	0.3	43583.5	96.99541
Al 308.215	4818.47	ppb	10.3127	0.2	36632.1	96.36945
As 188.980	482.814	ppb	1.4937	0.3	344.637	96.56284
B 249.678	482.753	ppb	1.3748	0.3	8710.61	96.55056
Ba 389.178	4818.35	ppb	9.2764	0.2	110051	96.36695
Be 313.042	487.057	ppb	0.3264	0.1	932496	97.41148
Ca 370.602	4855	ppb	17.34	0.4	15596	97.10645
Cd 226.502	483.545	ppb	0.8489	0.2	21689.4	96.70891
Co 228.615	489.361	ppb	1.2412	0.3	5512.92	97.87216
Cr 267.716	4939.65	ppb	6.6277	0.1	265659	98.79299
Cu 324.754	5037.21	ppb	24.2171	0.5	407690	100.74420
Fe 271.441	4825.59	ppb	12.2995	0.3	7696.83	96.51173
K 766.491	10318.9	ppb	14.6513	0.1	473336	103.18879
Mg 279.078	4865.53	ppb	14.8673	0.3	13961.8	97.31066
Mn 257.610	4920.27	ppb	10.1977	0.2	1122044	98.40539
Mo 202.032	482.089	ppb	1.7120	0.4	3123.22	96.41778
Na 330.237	7376.94	ppb	100.681	1.4	387.031	98.35915
Ni 231.604	2444.86	ppb	7.2949	0.3	7646.91	97.79433
Pb 220.353	480.275	ppb	5.2179	1.1	781.347	96.05504
Sb 206.834	972.205	ppb	2.5660	0.3	1469.05	97.22050
Se 196.026	4867.38	ppb	13.2995	0.3	2311.48	97.34756
Sn 189.925	4793.42	ppb	17.4165	0.4	3503.79	95.86840
Sr 216.596	2386.79	ppb	4.9671	0.2	28163.6	95.47170

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	482.057	ppb	0.3000	0.1	140145	96.41138
Tl 190.794	4910.62	ppb	10.3069	0.2	5415.18	98.21246
V 292.401	4849.94	ppb	5.2820	0.1	138416	96.99889
Zn 206.200	2401.26	ppb	17.4966	0.7	2478.10	96.05053

Cont Calib Blank (CCB)

3/23/2015, 3:20:08 PM

Rack 1, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1035u	-0.1222u	-0.1523u
Al 308.215	5.2385	5.8313	8.2170
As 188.980	0.7349	0.4902	-2.8189u
B 249.678	7.7082	7.2971	6.6417
Ba 389.178	-0.2161u	-0.9541u	-0.5318u
Be 313.042	0.0221	0.0228	0.0189
Ca 370.602	-0.9703u	4.378	2.741
Cd 226.502	0.1745	-0.1100u	-0.0571u
Co 228.615	0.0625	-0.6074u	-0.5384u
Cr 267.716	0.2850	0.3020	0.2834
Cu 324.754	-0.1286u	0.0255	0.2199
Fe 271.441	4.6622	-1.2187u	1.2833
K 766.491	-0.4072u	-0.6622u	0.2444
Mg 279.078	1.5576	2.0471	0.8607
Mn 257.610	0.0832	0.0457	0.1794
Mo 202.032	-0.2218u	0.0264	-0.2933u
Na 330.237	97.6853	-29.1194u	157.267
Ni 231.604	0.5495	-0.1827u	0.3731
Pb 220.353	0.8337	0.4446	0.9517
Sb 206.834	1.4528	1.2047	0.1789
Se 196.026	-1.9515u	4.0027	2.6570
Sn 189.925	2.3148	0.0158	-1.1118u
Sr 216.596	0.0733	0.3598	0.1105
Ti 334.941	0.1484	0.1421	0.1047
Tl 190.794	-0.0829u	-0.4222u	-0.1042u
V 292.401	0.1785	0.0906	0.1029
Zn 206.200	-1.4568u	-3.0117u	-1.7169u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1260	ppb	0.0246	19.6	-13.0368	-0.12600
Al 308.215	6.4289	ppb	1.5766	24.5	420.117	6.42895
As 188.980	-0.5313	ppb	1.9849	373.6	-4.8117	-0.53125
B 249.678	7.2157	ppb	0.5379	7.5	167.204	7.21568
Ba 389.178	-0.5674	ppb	0.3703	65.3	-53.7683	-0.56735
Be 313.042	0.0213	ppb	0.0021	9.8	-424.063	0.02129
Ca 370.602	2.050	ppb	2.740	133.7	28.48	2.04972
Cd 226.502	0.0025	ppb	0.1513	6120.1	32.3029	0.00247
Co 228.615	-0.3611	ppb	0.3685	102.0	-8.2751	-0.36110
Cr 267.716	0.2902	ppb	0.0103	3.6	45.9514	0.29016
Cu 324.754	0.0389	ppb	0.1746	448.6	412.737	0.03893
Fe 271.441	1.5756	ppb	2.9513	187.3	10.5605	1.57562
K 766.491	-0.2750	ppb	0.4675	170.0	428.007	-0.27498
Mg 279.078	1.4885	ppb	0.5962	40.1	26.6515	1.48847
Mn 257.610	0.1028	ppb	0.0690	67.1	98.7540	0.10279
Mo 202.032	-0.1629	ppb	0.1678	103.0	6.7205	-0.16288

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	75.2777	ppb	95.1923	126.5	39.0323	75.27771
Ni 231.604	0.2466	ppb	0.3822	155.0	-2.6143	0.24663
Pb 220.353	0.7433	ppb	0.2654	35.7	10.4955	0.74332
Sb 206.834	0.9455	ppb	0.6754	71.4	2.4787	0.94545
Se 196.026	1.5694	ppb	3.1226	199.0	0.8702	1.56938
Sn 189.925	0.4062	ppb	1.7464	429.9	-5.4981	0.40625
Sr 216.596	0.1812	ppb	0.1558	86.0	5.1187	0.18120
Ti 334.941	0.1318	ppb	0.0236	17.9	13.8706	0.13176
Tl 190.794	-0.2031	ppb	0.1901	93.6	-10.2180	-0.20313
V 292.401	0.1240	ppb	0.0476	38.4	-2.8852	0.12402
Zn 206.200	-2.0618	ppb	0.8329	40.4	-0.0482	-2.06182

480-76855-f-1-b (Samp)

3/23/2015, 3:24:51 PM

Rack 1, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1344u	-0.0824u	0.0268
Al 308.215	402.230	397.984	400.685
As 188.980	-0.5101u	0.1455	0.3443
B 249.678	48.2831	48.5376	48.6431
Ba 389.178	0.6209	0.7195	0.5542
Be 313.042	0.0154	0.0129	0.0063
Ca 370.602	4386	4356	4372
Cd 226.502	-0.0287u	0.1820	0.0101
Co 228.615	-0.7869u	-0.0746u	-0.2286u
Cr 267.716	0.3223	0.3360	0.3999
Cu 324.754	2.2309	2.3075	2.4208
Fe 271.441	19.0685	19.5611	22.5010
K 766.491	3169.01	3165.55	3177.42
Mg 279.078	318.284	318.581	315.882
Mn 257.610	2.4344	2.3777	2.3659
Mo 202.032	7.2641	7.5188	8.2967
Na 330.237	3687.06	3788.10	3715.62
Ni 231.604	-0.5431u	0.4943	0.2703
Pb 220.353	0.9435	-1.3555u	1.6155
Sb 206.834	3.5087	0.8538	1.1187
Se 196.026	5.5658	1.4426	0.1344
Sn 189.925	-3.1229u	1.0818	-2.2029u
Sr 216.596	20.2844	20.0905	20.4087
Ti 334.941	0.5921	0.5988	0.5146
Tl 190.794	1.3108	-1.1410u	-1.6719u
V 292.401	0.3991	0.1511	0.5614
Zn 206.200	134.938	129.045	131.683

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0633	ppb	0.0823	129.9	-8.1358
Al 308.215	400.299	ppb	2.1489	0.5	3325.62
As 188.980	-0.0067	ppb	0.4471	6629.0	-4.4348
B 249.678	48.4879	ppb	0.1851	0.4	908.368
Ba 389.178	0.6315	ppb	0.0832	13.2	-25.6602
Be 313.042	0.0115	ppb	0.0047	40.8	-442.911
Ca 370.602	4371	ppb	14.60	0.3	13717
Cd 226.502	0.0544	ppb	0.1121	205.9	34.7224
Co 228.615	-0.3634	ppb	0.3748	103.2	-8.4974

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.3528	ppb	0.0414	11.7	49.4068
Cu 324.754	2.3197	ppb	0.0955	4.1	597.526
Fe 271.441	20.3769	ppb	1.8560	9.1	40.1438
K 766.491	3170.66	ppb	6.1027	0.2	145746
Mg 279.078	317.583	ppb	1.4801	0.5	939.186
Mn 257.610	2.3926	ppb	0.0366	1.5	623.521
Mo 202.032	7.6932	ppb	0.5379	7.0	57.5736
Na 330.237	3730.26	ppb	52.0882	1.4	226.932
Ni 231.604	0.0738	ppb	0.5459	739.6	-3.1529
Pb 220.353	0.4012	ppb	1.5579	388.3	9.9326
Sb 206.834	1.8271	ppb	1.4624	80.0	3.6184
Se 196.026	2.3809	ppb	2.8347	119.1	1.2561
Sn 189.925	-1.4147	ppb	2.2104	156.2	-6.8302
Sr 216.596	20.2612	ppb	0.1603	0.8	244.115
Ti 334.941	0.5685	ppb	0.0468	8.2	141.158
Tl 190.794	-0.5007	ppb	1.5911	317.8	-10.5749
V 292.401	0.3705	ppb	0.2066	55.8	2.4744
Zn 206.200	131.889	ppb	2.9519	2.2	138.593

480-76941-f-1-b (Samp)

3/23/2015, 3:29:33 PM

Rack 1, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1320u	-0.0613u	0.0103
Al 308.215	229.400	227.770	228.600
As 188.980	-0.0312u	-3.7215u	-2.5009u
B 249.678	73.7467	73.3664	73.7117
Ba 389.178	1.2981	0.8878	0.6226
Be 313.042	0.0086	0.0117	0.0089
Ca 370.602	2669	2665	2670
Cd 226.502	-0.0247u	0.0784	0.0468
Co 228.615	0.1113	-0.2388u	-0.8521u
Cr 267.716	0.4496	0.4386	0.5438
Cu 324.754	1.6657	1.7644	1.6078
Fe 271.441	19.2389	20.8101	19.4882
K 766.491	3312.13	3301.00	3310.34
Mg 279.078	328.606	330.922	325.773
Mn 257.610	1.9092	1.8900	1.9113
Mo 202.032	16.1241	16.5601	16.0606
Na 330.237	3018.48	2999.65	2765.40
Ni 231.604	0.8892	-0.2938u	-0.0015u
Pb 220.353	0.0633	2.3640	0.9788
Sb 206.834	-0.7149u	-1.8797u	3.1224
Se 196.026	-4.0948u	4.7214	7.2333
Sn 189.925	3.2051	1.7400	0.9649
Sr 216.596	21.4541	21.2849	21.0523
Ti 334.941	0.6964	0.6778	0.6625
Tl 190.794	1.4388	-2.5020u	-0.9724u
V 292.401	0.1043u	0.2917	0.5507
Zn 206.200	327.245	324.099	327.011

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0610	ppb	0.0712	116.6	-7.9575
Al 308.215	228.590	ppb	0.8152	0.4	2059.27

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-2.0845	ppb	1.8801	90.2	-5.9405
B 249.678	73.6083	ppb	0.2102	0.3	1359.47
Ba 389.178	0.9361	ppb	0.3404	36.4	-18.6406
Be 313.042	0.0097	ppb	0.0017	17.6	-448.317
Ca 370.602	2668	ppb	2.920	0.1	8381
Cd 226.502	0.0335	ppb	0.0528	157.5	33.7743
Co 228.615	-0.3266	ppb	0.4877	149.3	-8.3135
Cr 267.716	0.4773	ppb	0.0578	12.1	56.0807
Cu 324.754	1.6793	ppb	0.0792	4.7	546.119
Fe 271.441	19.8458	ppb	0.8444	4.3	39.3215
K 766.491	3307.82	ppb	5.9763	0.2	152032
Mg 279.078	328.434	ppb	2.5791	0.8	970.598
Mn 257.610	1.9035	ppb	0.0118	0.6	512.040
Mo 202.032	16.2483	ppb	0.2719	1.7	112.953
Na 330.237	2927.84	ppb	140.995	4.8	182.940
Ni 231.604	0.1980	ppb	0.6162	311.2	-2.7646
Pb 220.353	1.1353	ppb	1.1583	102.0	11.0952
Sb 206.834	0.1759	ppb	2.6173	1487.9	1.0723
Se 196.026	2.6200	ppb	5.9492	227.1	1.3694
Sn 189.925	1.9700	ppb	1.1376	57.7	-4.3523
Sr 216.596	21.2638	ppb	0.2017	0.9	255.231
Ti 334.941	0.6789	ppb	0.0170	2.5	173.330
Tl 190.794	-0.6785	ppb	1.9868	292.8	-10.8004
V 292.401	0.3156	ppb	0.2241	71.0	-0.9129
Zn 206.200	326.118	ppb	1.7525	0.5	339.625

mb 680-375559/1-a (Samp) 3/23/2015, 3:34:17 PM Rack 1, Tube 29
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0346	-0.2391u	-0.0850u
Al 308.215	6.6014	5.8327	7.4742
As 188.980	-5.3136u	-0.3451u	-3.0606u
B 249.678	2.4038	2.1986	2.0837
Ba 389.178	-0.6525u	-1.1214u	-0.0372u
Be 313.042	0.0170	0.0144	0.0188
Ca 370.602	1.034	0.6113	-3.371u
Cd 226.502	-0.0456u	0.0099	-0.0778u
Co 228.615	-0.0230u	-0.3573u	-0.0227u
Cr 267.716	0.0275	0.1118	0.0730
Cu 324.754	0.0975	-0.2288u	0.0947
Fe 271.441	2.6474	-2.8138u	-0.4510u
K 766.491	1.2327	1.6808	0.6927
Mg 279.078	1.4855	-1.0669u	-2.0799u
Mn 257.610	0.0342	0.0273	0.0186
Mo 202.032	-0.1095u	-0.3736u	0.0398
Na 330.237	41.4072	94.8513	36.9796
Ni 231.604	-0.1218u	-0.6893u	-0.7966u
Pb 220.353	1.1184	0.0252	-2.1037u
Sb 206.834	-0.7202u	0.3916	1.5989
Se 196.026	3.8394	-0.0329u	1.1936
Sn 189.925	-2.1936u	-0.7291u	0.2291
Sr 216.596	0.2410	-0.0761u	0.3502
Ti 334.941	0.0895	0.0523	0.0455

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	0.1996	-1.5648u	-0.0094u
V 292.401	-0.0724u	0.1619	-0.1441u
Zn 206.200	1.1427	2.7334	-0.7051u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0965	ppb	0.1372	142.2	-10.3875
Al 308.215	6.6361	ppb	0.8213	12.4	421.631
As 188.980	-2.9065	ppb	2.4878	85.6	-6.5298
B 249.678	2.2287	ppb	0.1621	7.3	77.6481
Ba 389.178	-0.6037	ppb	0.5438	90.1	-54.6030
Be 313.042	0.0167	ppb	0.0022	13.1	-432.766
Ca 370.602	-0.5752	ppb	2.430	422.5	20.24
Cd 226.502	-0.0378	ppb	0.0444	117.3	30.4809
Co 228.615	-0.1343	ppb	0.1931	143.7	-5.7221
Cr 267.716	0.0708	ppb	0.0422	59.6	34.1504
Cu 324.754	-0.0122	ppb	0.1876	1535.5	408.599
Fe 271.441	-0.2058	ppb	2.7388	1331.0	7.7766
K 766.491	1.2021	ppb	0.4948	41.2	495.697
Mg 279.078	-0.5538	ppb	1.8373	331.8	20.7559
Mn 257.610	0.0267	ppb	0.0078	29.2	81.3860
Mo 202.032	-0.1478	ppb	0.2093	141.7	6.8185
Na 330.237	57.7460	ppb	32.2103	55.8	38.0888
Ni 231.604	-0.5359	ppb	0.3626	67.7	-5.0638
Pb 220.353	-0.3200	ppb	1.6386	512.0	8.7952
Sb 206.834	0.4234	ppb	1.1598	273.9	1.7194
Se 196.026	1.6667	ppb	1.9790	118.7	0.9163
Sn 189.925	-0.8978	ppb	1.2201	135.9	-6.4529
Sr 216.596	0.1717	ppb	0.2215	129.0	5.0128
Ti 334.941	0.0624	ppb	0.0237	38.0	-6.2827
Tl 190.794	-0.4582	ppb	0.9640	210.4	-10.4984
V 292.401	-0.0182	ppb	0.1600	878.8	-6.9381
Zn 206.200	1.0570	ppb	1.7209	162.8	3.1800

lcs 680-375559/2-a (Samp) 3/23/2015, 3:39:01 PM Rack 1, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.0163	21.2761	21.4695
Al 308.215	2051.51	2046.31	2055.22
As 188.980	43.5813	38.3477	39.0289
B 249.678	82.2142	82.0762	83.4617
Ba 389.178	39.9783	40.1304	39.0867
Be 313.042	20.6749	20.6585	20.7131
Ca 370.602	2103	2111	2110
Cd 226.502	20.5840	20.9140	20.8720
Co 228.615	21.1676	21.1635	20.9825
Cr 267.716	42.4849	42.6494	42.5894
Cu 324.754	42.5693	42.6492	42.7763
Fe 271.441	2079.38	2076.88	2082.93
K 766.491	2279.02	2277.18	2277.67
Mg 279.078	2075.47	2077.49	2079.33
Mn 257.610	217.658	217.165	217.509
Mo 202.032	39.7619	39.8029	40.1835
Na 330.237	2101.53	1916.08	2193.90

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	41.8067	41.1566	41.4758
Pb 220.353	205.810	207.268	205.756
Sb 206.834	17.5441	21.0407	20.5277
Se 196.026	38.9098	40.1518	46.5925
Sn 189.925	85.5375	83.6495	78.6956
Sr 216.596	40.1141	40.3164	40.0207
Ti 334.941	41.6869	41.5763	41.6261
Tl 190.794	19.2203	20.2041	16.5744
V 292.401	41.8872	42.3093	42.2367
Zn 206.200	38.9774	40.6055	40.9988

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.5873	ppb	0.3839	1.8	1939.93
Al 308.215	2051.01	ppb	4.4713	0.2	15508.6
As 188.980	40.3193	ppb	2.8455	7.1	24.7108
B 249.678	82.5840	ppb	0.7632	0.9	1515.82
Ba 389.178	39.7318	ppb	0.5639	1.4	873.103
Be 313.042	20.6821	ppb	0.0280	0.1	39139.9
Ca 370.602	2108	ppb	4.265	0.2	6630
Cd 226.502	20.7900	ppb	0.1796	0.9	973.964
Co 228.615	21.1045	ppb	0.1057	0.5	233.467
Cr 267.716	42.5746	ppb	0.0832	0.2	2321.56
Cu 324.754	42.6649	ppb	0.1044	0.2	3861.79
Fe 271.441	2079.73	ppb	3.0367	0.1	3282.68
K 766.491	2277.96	ppb	0.9541	0.0	104835
Mg 279.078	2077.43	ppb	1.9315	0.1	6015.47
Mn 257.610	217.444	ppb	0.2529	0.1	49680.0
Mo 202.032	39.9161	ppb	0.2325	0.6	266.026
Na 330.237	2070.50	ppb	141.487	6.8	141.453
Ni 231.604	41.4797	ppb	0.3251	0.8	126.550
Pb 220.353	206.278	ppb	0.8580	0.4	339.181
Sb 206.834	19.7042	ppb	1.8882	9.6	29.6107
Se 196.026	41.8847	ppb	4.1241	9.8	20.0757
Sn 189.925	82.6275	ppb	3.5336	4.3	54.7021
Sr 216.596	40.1504	ppb	0.1512	0.4	479.625
Ti 334.941	41.6298	ppb	0.0554	0.1	12083.5
Tl 190.794	18.6663	ppb	1.8772	10.1	10.3674
V 292.401	42.1444	ppb	0.2257	0.5	1188.33
Zn 206.200	40.1939	ppb	1.0717	2.7	43.6758

lles 680-375559/4-a (Samp)

3/23/2015, 3:43:44 PM

Rack 1, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.3725	10.5032	10.2837
Al 308.215	216.448	217.333	218.194
As 188.980	19.4974	17.5672	18.7077
B 249.678	101.498	102.219	102.845
Ba 389.178	9.6016	9.0849	8.8377
Be 313.042	4.2061	4.2302	4.2347
Ca 370.602	522.5	521.9	526.0
Cd 226.502	4.9294	5.1140	5.0710
Co 228.615	10.1085	10.4668	9.9773
Cr 267.716	10.3724	10.4075	10.5727

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	21.7894	21.6256	22.0474
Fe 271.441	56.2166	55.6241	56.0989
K 766.491	1126.08	1127.52	1130.30
Mg 279.078	523.048	519.144	525.660
Mn 257.610	10.7750	10.7857	10.8988
Mo 202.032	9.7389	9.4667	10.0540
Na 330.237	1051.33	996.155	1032.79
Ni 231.604	41.7214	42.2707	41.8960
Pb 220.353	10.2959	8.6620	11.4774
Sb 206.834	24.0891	24.6348	21.5309
Se 196.026	21.4994	18.6877	20.5043
Sn 189.925	50.2553	48.7899	48.0804
Sr 216.596	9.8999	9.8345	10.2437
Ti 334.941	10.2850	10.3487	10.3307
Tl 190.794	28.3436	25.4282	27.5162
V 292.401	10.1754	10.3621	10.2263
Zn 206.200	20.2091	18.7957	19.5146

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3865	ppb	0.1104	1.1	932.470
Al 308.215	217.325	ppb	0.8728	0.4	1977.40
As 188.980	18.5908	ppb	0.9704	5.2	9.0170
B 249.678	102.187	ppb	0.6743	0.7	1872.98
Ba 389.178	9.1747	ppb	0.3898	4.2	169.987
Be 313.042	4.2236	ppb	0.0154	0.4	7622.89
Ca 370.602	523.4	ppb	2.244	0.4	1667
Cd 226.502	5.0381	ppb	0.0966	1.9	257.840
Co 228.615	10.1842	ppb	0.2534	2.5	110.440
Cr 267.716	10.4509	ppb	0.1070	1.0	592.358
Cu 324.754	21.8208	ppb	0.2127	1.0	2174.43
Fe 271.441	55.9798	ppb	0.3137	0.6	97.4416
K 766.491	1127.97	ppb	2.1464	0.2	52133.2
Mg 279.078	522.617	ppb	3.2791	0.6	1531.12
Mn 257.610	10.8198	ppb	0.0686	0.6	2546.81
Mo 202.032	9.7532	ppb	0.2939	3.0	70.8970
Na 330.237	1026.76	ppb	28.0785	2.7	88.1000
Ni 231.604	41.9627	ppb	0.2806	0.7	127.913
Pb 220.353	10.1451	ppb	1.4138	13.9	25.5132
Sb 206.834	23.4183	ppb	1.6571	7.1	35.0490
Se 196.026	20.2305	ppb	1.4257	7.0	9.7301
Sn 189.925	49.0419	ppb	1.1091	2.3	30.1115
Sr 216.596	9.9927	ppb	0.2199	2.2	120.151
Ti 334.941	10.3215	ppb	0.0328	0.3	2977.46
Tl 190.794	27.0960	ppb	1.5024	5.5	19.8984
V 292.401	10.2546	ppb	0.0965	0.9	284.426
Zn 206.200	19.5064	ppb	0.7067	3.6	22.2574

680-110835-e-1-d (Samp)

3/23/2015, 3:48:28 PM

Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1929u	-0.0849u	-0.1184u
Al 308.215	31.2397	30.7199	29.9541
As 188.980	0.5535	-1.9511u	-0.0913u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	10.2857	9.6880	10.0535
Ba 389.178	129.007	128.675	128.717
Be 313.042	-0.0295	-0.0323	-0.0396u
Ca 370.602	187707	187729	186623
Cd 226.502	-0.0496	-0.1047	-0.2619u
Co 228.615	-0.2354u	0.0128	-0.2051u
Cr 267.716	0.2461	0.3404	0.3315
Cu 324.754	-0.0732u	-0.1983u	0.2847
Fe 271.441	1190.62	1191.06	1187.46
K 766.491	1114.90	1119.19	1119.06
Mg 279.078	8821.59	8819.69	8826.73
Mn 257.610	3.5548	3.5377	3.5213
Mo 202.032	0.4473	0.3185	-0.0845u
Na 330.237	20563.1	20586.8	20527.9
Ni 231.604	0.5185	1.0157	1.0032
Pb 220.353	1.6865	-1.3664u	2.2830
Sb 206.834	0.7201	1.3576	-1.0161u
Se 196.026	5.0976	2.3388	5.4705
Sn 189.925	-0.5386u	-0.0228u	-1.9701u
Sr 216.596	379.097	380.456	378.588
Ti 334.941	0.4657	0.4059	0.4455
Tl 190.794	-0.6716u	-2.4755u	0.4310
V 292.401	0.0387	-0.1586u	-0.0646u
Zn 206.200	-0.6857u	0.7255	-0.8409u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1321	ppb	0.0553	41.8	-28.2809
Al 308.215	30.6379	ppb	0.6467	2.1	598.840
As 188.980	-0.4963	ppb	1.3005	262.1	-4.7949
B 249.678	10.0091	ppb	0.3013	3.0	214.415
Ba 389.178	128.800	ppb	0.1805	0.1	2920.97
Be 313.042	-0.0338	ppb	0.0052	15.5	-464.669
Ca 370.602	187353	ppb	632.1	0.3	586988
Cd 226.502	-0.1388	ppb	0.1102	79.4	32.7228
Co 228.615	-0.1426	ppb	0.1354	95.0	-5.7353
Cr 267.716	0.3060	ppb	0.0521	17.0	47.7752
Cu 324.754	0.0044	ppb	0.2507	5710.6	410.526
Fe 271.441	1189.71	ppb	1.9674	0.2	1879.75
K 766.491	1117.71	ppb	2.4383	0.2	51663.4
Mg 279.078	8822.67	ppb	3.6413	0.0	25498.3
Mn 257.610	3.5379	ppb	0.0167	0.5	959.097
Mo 202.032	0.2271	ppb	0.2775	122.2	9.1919
Na 330.237	20559.3	ppb	29.6539	0.1	1100.97
Ni 231.604	0.8458	ppb	0.2835	33.5	-0.6378
Pb 220.353	0.8677	ppb	1.9576	225.6	10.7741
Sb 206.834	0.3539	ppb	1.2285	347.2	1.6361
Se 196.026	4.3023	ppb	1.7106	39.8	2.1792
Sn 189.925	-0.8438	ppb	1.0089	119.6	-6.4072
Sr 216.596	379.380	ppb	0.9659	0.3	4559.93
Ti 334.941	0.4390	ppb	0.0304	6.9	117.288
Tl 190.794	-0.9054	ppb	1.4673	162.1	-11.1774
V 292.401	-0.0615	ppb	0.0987	160.4	-8.7927
Zn 206.200	-0.2671	ppb	0.8631	323.2	1.8492

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

680-110835-e-1-e ms (Samp) 3/23/2015, 3:53:13 PM Rack 1, Tube 33**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	22.0274	21.9876	22.0743
Al 308.215	2161.67	2160.58	2163.79
As 188.980	45.0076	41.5412	42.5131
B 249.678	90.8334	91.1841	91.1131
Ba 389.178	165.840	167.726	167.798
Be 313.042	20.4040	20.3831	20.4765
Ca 370.602	186391	186311	187456
Cd 226.502	20.4762	20.3266	20.3359
Co 228.615	19.7797	20.0582	19.8954
Cr 267.716	42.0911	41.9785	42.0934
Cu 324.754	44.0231	43.2163	43.7751
Fe 271.441	2061.92	2063.29	2066.02
K 766.491	3686.89	3680.91	3696.28
Mg 279.078	10864.4	10844.2	10880.4
Mn 257.610	214.642	214.654	215.160
Mo 202.032	39.7395	39.8425	40.5287
Na 330.237	22452.2	22723.5	22686.7
Ni 231.604	40.8896	40.5903	41.7261
Pb 220.353	205.143	202.035	199.312
Sb 206.834	22.3806	20.0950	24.3445
Se 196.026	42.0598	40.9448	42.8960
Sn 189.925	77.8261	81.6168	78.2655
Sr 216.596	414.134	414.772	414.484
Ti 334.941	41.4690	41.3549	41.5678
Tl 190.794	14.4109	15.3604	13.9654
V 292.401	41.7926	41.9455	41.7182
Zn 206.200	39.2913	40.4134	39.7286

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.0298	ppb	0.0434	0.2	1965.47
Al 308.215	2162.01	ppb	1.6326	0.1	16327.4
As 188.980	43.0206	ppb	1.7881	4.2	26.6649
B 249.678	91.0435	ppb	0.1854	0.2	1667.82
Ba 389.178	167.121	ppb	1.1101	0.7	3801.64
Be 313.042	20.4212	ppb	0.0490	0.2	38703.9
Ca 370.602	186719	ppb	638.9	0.3	585019
Cd 226.502	20.3796	ppb	0.0838	0.4	955.515
Co 228.615	19.9111	ppb	0.1399	0.7	220.020
Cr 267.716	42.0543	ppb	0.0657	0.2	2293.96
Cu 324.754	43.6715	ppb	0.4133	0.9	3943.19
Fe 271.441	2063.74	ppb	2.0863	0.1	3257.42
K 766.491	3688.03	ppb	7.7518	0.2	169456
Mg 279.078	10863.0	ppb	18.1183	0.2	31384.4
Mn 257.610	214.819	ppb	0.2957	0.1	49154.2
Mo 202.032	40.0369	ppb	0.4290	1.1	266.809
Na 330.237	22620.8	ppb	147.164	0.7	1207.16
Ni 231.604	41.0687	ppb	0.5887	1.4	125.265
Pb 220.353	202.163	ppb	2.9174	1.4	332.599
Sb 206.834	22.2734	ppb	2.1268	9.5	33.3236
Se 196.026	41.9669	ppb	0.9789	2.3	20.1140
Sn 189.925	79.2361	ppb	2.0734	2.6	52.2252
Sr 216.596	414.463	ppb	0.3199	0.1	4973.81

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	41.4639	ppb	0.1065	0.3	12049.1
Tl 190.794	14.5789	ppb	0.7125	4.9	5.8570
V 292.401	41.8188	ppb	0.1159	0.3	1178.95
Zn 206.200	39.8111	ppb	0.5656	1.4	43.2801

680-110835-e-1-f msd (Samp) **3/23/2015, 3:57:58 PM** **Rack 1, Tube 34**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.9436	22.0358	22.1145
Al 308.215	2158.12	2155.36	2165.41
As 188.980	46.0212	40.6160	43.6231
B 249.678	90.2629	91.3659	90.9394
Ba 389.178	164.691	164.722	165.584
Be 313.042	20.4083	20.3957	20.4039
Ca 370.602	183727	183337	185462
Cd 226.502	20.2388	20.5086	20.4245
Co 228.615	19.7565	19.2458	19.8442
Cr 267.716	41.8685	42.0549	42.0999
Cu 324.754	43.4410	43.6217	43.3752
Fe 271.441	2063.42	2057.96	2065.05
K 766.491	3674.18	3672.75	3670.88
Mg 279.078	10716.0	10728.7	10753.2
Mn 257.610	214.203	214.390	214.912
Mo 202.032	39.8690	40.2574	40.0506
Na 330.237	22344.8	22222.9	22254.3
Ni 231.604	41.3219	40.3497	41.0344
Pb 220.353	199.546	200.069	202.543
Sb 206.834	19.3052	17.3750	23.0171
Se 196.026	43.9079	46.6269	46.4284
Sn 189.925	79.5519	75.5424	81.6579
Sr 216.596	409.150	409.478	409.350
Ti 334.941	41.9256	41.8897	41.6761
Tl 190.794	15.4785	16.7077	16.4927
V 292.401	41.4921	41.6108	42.1472
Zn 206.200	43.9587	45.3015	44.1885

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.0313	ppb	0.0855	0.4	1965.75
Al 308.215	2159.63	ppb	5.1923	0.2	16309.8
As 188.980	43.4201	ppb	2.7083	6.2	26.9538
B 249.678	90.8561	ppb	0.5562	0.6	1664.42
Ba 389.178	164.999	ppb	0.5069	0.3	3752.91
Be 313.042	20.4026	ppb	0.0064	0.0	38667.7
Ca 370.602	184175	ppb	1131	0.6	577049
Cd 226.502	20.3906	ppb	0.1381	0.7	956.016
Co 228.615	19.6155	ppb	0.3231	1.6	216.696
Cr 267.716	42.0078	ppb	0.1227	0.3	2291.45
Cu 324.754	43.4793	ppb	0.1276	0.3	3927.65
Fe 271.441	2062.15	ppb	3.7135	0.2	3254.84
K 766.491	3672.60	ppb	1.6507	0.0	168749
Mg 279.078	10732.6	ppb	18.8966	0.2	31008.0
Mn 257.610	214.502	ppb	0.3673	0.2	49080.9
Mo 202.032	40.0590	ppb	0.1943	0.5	266.951

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	22274.0	ppb	63.2865	0.3	1189.12
Ni 231.604	40.9020	ppb	0.4994	1.2	124.745
Pb 220.353	200.720	ppb	1.6009	0.8	330.291
Sb 206.834	19.8991	ppb	2.8676	14.4	29.8791
Se 196.026	45.6544	ppb	1.5158	3.3	21.8641
Sn 189.925	78.9174	ppb	3.1068	3.9	51.9917
Sr 216.596	409.326	ppb	0.1651	0.0	4912.47
Ti 334.941	41.8304	ppb	0.1349	0.3	12155.5
Tl 190.794	16.2263	ppb	0.6565	4.0	7.6717
V 292.401	41.7500	ppb	0.3491	0.8	1176.95
Zn 206.200	44.4829	ppb	0.7182	1.6	48.1154

680-110835-e-2-d (Samp) 3/23/2015, 4:02:42 PM Rack 1, Tube 35

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3159u	-0.1892u	-0.0726u
Al 308.215	21.4497	19.5220	20.3894
As 188.980	-3.7565u	-1.1240u	-0.7231u
B 249.678	13.1090	12.4688	12.7544
Ba 389.178	87.9757	88.6420	87.1626
Be 313.042	-0.0249u	-0.0192	-0.0141
Ca 370.602	127971	127927	127667
Cd 226.502	-0.0869u	-0.1674u	0.0420
Co 228.615	-0.5299u	-0.4659u	-0.7542u
Cr 267.716	0.0569	0.2264	0.0951
Cu 324.754	0.3458	0.0249	-0.1432u
Fe 271.441	30.8109	37.8389	33.2004
K 766.491	1193.36	1194.68	1195.08
Mg 279.078	8880.56	8869.94	8853.26
Mn 257.610	11.6009	11.5798	11.6157
Mo 202.032	-0.4868u	-0.0113u	0.5666
Na 330.237	10117.6	10345.0	10220.8
Ni 231.604	0.6511	1.2603	-0.2461u
Pb 220.353	2.3040	1.9203	-2.0900u
Sb 206.834	1.7873	2.6146	1.0846
Se 196.026	5.7119	2.0592	5.9804
Sn 189.925	-2.1950u	-1.4922u	3.8087
Sr 216.596	322.713	320.479	319.765
Ti 334.941	0.2209	0.2359	0.2693
Tl 190.794	1.9567	-0.0556u	-1.1918u
V 292.401	-0.2447u	-0.1428u	-0.0210u
Zn 206.200	-0.7724u	1.0195	-0.3390u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1926	ppb	0.1217	63.2	-31.1223
Al 308.215	20.4537	ppb	0.9655	4.7	523.570
As 188.980	-1.8679	ppb	1.6478	88.2	-5.7788
B 249.678	12.7774	ppb	0.3207	2.5	267.054
Ba 389.178	87.9268	ppb	0.7409	0.8	1986.49
Be 313.042	-0.0194	ppb	0.0054	27.7	-457.430
Ca 370.602	127855	ppb	164.3	0.1	400592
Cd 226.502	-0.0708	ppb	0.1056	149.2	29.2296
Co 228.615	-0.5833	ppb	0.1514	25.9	-10.7762

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1261	ppb	0.0889	70.5	37.3898
Cu 324.754	0.0759	ppb	0.2484	327.5	415.742
Fe 271.441	33.9501	ppb	3.5734	10.5	61.4888
K 766.491	1194.37	ppb	0.9034	0.1	55176.5
Mg 279.078	8867.92	ppb	13.7609	0.2	25628.8
Mn 257.610	11.5988	ppb	0.0180	0.2	2793.08
Mo 202.032	0.0228	ppb	0.5275	2312.4	7.9215
Na 330.237	10227.8	ppb	113.882	1.1	565.498
Ni 231.604	0.5551	ppb	0.7578	136.5	-1.6468
Pb 220.353	0.7114	ppb	2.4337	342.1	10.4479
Sb 206.834	1.8288	ppb	0.7659	41.9	3.7551
Se 196.026	4.5839	ppb	2.1905	47.8	2.3039
Sn 189.925	0.0405	ppb	3.2823	8107.5	-5.7629
Sr 216.596	320.986	ppb	1.5381	0.5	3845.88
Ti 334.941	0.2420	ppb	0.0248	10.2	60.7542
Tl 190.794	0.2364	ppb	1.5944	674.3	-9.7316
V 292.401	-0.1362	ppb	0.1120	82.2	-10.3329
Zn 206.200	-0.0306	ppb	0.9349	3052.0	2.0552

680-110835-e-2-dSD^5 (Samp) 3/23/2015, 4:07:28 PM

Rack 1, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0049u	0.3810	-0.0317u
Al 308.215	8.6085	8.1127	7.3063
As 188.980	-3.1086u	0.6143	2.7693
B 249.678	2.9765	3.4187	2.6994
Ba 389.178	16.5944	17.7606	17.2693
Be 313.042	0.0059	0.0060	0.0030
Ca 370.602	24383	24877	25160
Cd 226.502	0.0184	-0.1062u	-0.0497u
Co 228.615	-0.0743u	-0.4743u	-0.3325u
Cr 267.716	0.1774	-0.0379u	0.0486
Cu 324.754	0.9664	1.0866	0.9178
Fe 271.441	11.1924	8.2381	6.2432
K 766.491	207.510	211.116	214.628
Mg 279.078	1747.17	1774.96	1792.47
Mn 257.610	2.2751	2.3603	2.3208
Mo 202.032	-0.2512u	-0.3638u	-0.0205u
Na 330.237	2120.79	2187.34	1824.55
Ni 231.604	1.1800	0.3253	0.5419
Pb 220.353	2.6851	-3.5023u	0.5950
Sb 206.834	-1.8077u	3.5605	2.9575
Se 196.026	5.6831	3.9864	7.2294
Sn 189.925	-0.1610u	2.2379	-0.1324u
Sr 216.596	63.5051	64.5269	65.5914
Ti 334.941	0.0354	0.0791	0.0545
Tl 190.794	0.2240	-0.0990u	-0.0650u
V 292.401	-0.3298u	-0.2609u	-0.1829u
Zn 206.200	-1.4128u	-0.9214u	-1.1676u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1148	ppb	0.2309	201.1	6.2021
Al 308.215	8.0092	ppb	0.6573	8.2	431.736

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.0917	ppb	2.9736	3243.4	-4.3611
B 249.678	3.0315	ppb	0.3628	12.0	92.0592
Ba 389.178	17.2081	ppb	0.5855	3.4	356.026
Be 313.042	0.0050	ppb	0.0017	33.6	-446.689
Ca 370.602	24807	ppb	393.2	1.6	77743
Cd 226.502	-0.0458	ppb	0.0624	136.1	30.1837
Co 228.615	-0.2937	ppb	0.2028	69.1	-7.5156
Cr 267.716	0.0627	ppb	0.1084	172.8	33.7697
Cu 324.754	0.9903	ppb	0.0869	8.8	489.671
Fe 271.441	8.5579	ppb	2.4901	29.1	21.5670
K 766.491	211.085	ppb	3.5590	1.7	10114.2
Mg 279.078	1771.53	ppb	22.8438	1.3	5137.72
Mn 257.610	2.3187	ppb	0.0427	1.8	618.593
Mo 202.032	-0.2119	ppb	0.1750	82.6	6.4035
Na 330.237	2044.23	ppb	193.132	9.4	141.131
Ni 231.604	0.6824	ppb	0.4444	65.1	-1.2506
Pb 220.353	-0.0741	ppb	3.1475	4249.0	9.1893
Sb 206.834	1.5701	ppb	2.9407	187.3	3.3825
Se 196.026	5.6330	ppb	1.6221	28.8	2.7994
Sn 189.925	0.6481	ppb	1.3768	212.4	-5.3204
Sr 216.596	64.5411	ppb	1.0432	1.6	775.320
Ti 334.941	0.0563	ppb	0.0219	38.9	-5.0874
Tl 190.794	0.0200	ppb	0.1775	887.4	-9.9712
V 292.401	-0.2579	ppb	0.0735	28.5	-13.7871
Zn 206.200	-1.1673	ppb	0.2457	21.0	0.8783

Cont Calib Verif (CCV) 3/23/2015, 4:12:12 PM Rack 1, Tube 37
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	486.936	484.459	485.574
Al 308.215	4803.30	4795.27	4804.78
As 188.980	489.339	491.596	477.807
B 249.678	479.005	480.276	483.817
Ba 389.178	4833.72	4847.38	4840.67
Be 313.042	487.177	491.781	488.184
Ca 370.602	4875	4882	4876
Cd 226.502	485.691	485.609	486.810
Co 228.615	490.951	491.165	491.189
Cr 267.716	4948.51	4955.22	4949.93
Cu 324.754	5018.83	5036.02	5010.85
Fe 271.441	4821.48	4836.85	4833.13
K 766.491	10301.2	10278.2	10288.3
Mg 279.078	4856.96	4861.20	4864.95
Mn 257.610	4940.98	4938.06	4942.33
Mo 202.032	482.157	482.018	482.951
Na 330.237	7291.96	7383.76	7343.28
Ni 231.604	2446.05	2456.03	2455.68
Pb 220.353	487.890	480.334	484.234
Sb 206.834	975.083	969.165	971.239
Se 196.026	4841.05	4857.29	4863.26
Sn 189.925	4845.66	4810.79	4801.18
Sr 216.596	2406.61	2409.67	2413.93
Ti 334.941	481.354	482.126	482.540

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	4925.65	4927.46	4933.40
V 292.401	4846.63	4854.04	4856.70
Zn 206.200	2421.15	2422.95	2421.06

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	485.656	ppb	1.2409	0.3	43643.9	97.13129
Al 308.215	4801.12	ppb	5.1159	0.1	36505.2	96.02232
As 188.980	486.247	ppb	7.3961	1.5	347.120	97.24948
B 249.678	481.033	ppb	2.4938	0.5	8679.69	96.20651
Ba 389.178	4840.59	ppb	6.8312	0.1	110560	96.81184
Be 313.042	489.047	ppb	2.4202	0.5	936307	97.80943
Ca 370.602	4878	ppb	3.805	0.1	15667	97.55399
Cd 226.502	486.037	ppb	0.6710	0.1	21800.9	97.20731
Co 228.615	491.102	ppb	0.1308	0.0	5532.55	98.22033
Cr 267.716	4951.22	ppb	3.5355	0.1	266281	99.02444
Cu 324.754	5021.90	ppb	12.8636	0.3	406452	100.43794
Fe 271.441	4830.49	ppb	8.0180	0.2	7704.80	96.60971
K 766.491	10289.2	ppb	11.5458	0.1	471977	102.89222
Mg 279.078	4861.04	ppb	3.9954	0.1	13948.3	97.22076
Mn 257.610	4940.46	ppb	2.1830	0.0	1126648	98.80918
Mo 202.032	482.375	ppb	0.5031	0.1	3125.06	96.47508
Na 330.237	7339.66	ppb	46.0065	0.6	384.854	97.86217
Ni 231.604	2452.59	ppb	5.6630	0.2	7671.09	98.10349
Pb 220.353	484.153	ppb	3.7786	0.8	787.569	96.83051
Sb 206.834	971.829	ppb	3.0030	0.3	1468.80	97.18292
Se 196.026	4853.87	ppb	11.4926	0.2	2305.08	97.07736
Sn 189.925	4819.21	ppb	23.4057	0.5	3522.67	96.38427
Sr 216.596	2410.07	ppb	3.6771	0.2	28438.6	96.40292
Ti 334.941	482.006	ppb	0.6019	0.1	140131	96.40126
Tl 190.794	4928.84	ppb	4.0528	0.1	5435.30	98.57675
V 292.401	4852.46	ppb	5.2146	0.1	138486	97.04911
Zn 206.200	2421.72	ppb	1.0657	0.0	2499.23	96.86880

Cont Calib Blank (CCB) 3/23/2015, 4:16:55 PM Rack 1, Tube 38
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2857u	-0.0226u	-0.2368u
Al 308.215	5.1879	5.8628	4.7909
As 188.980	-1.1730u	-1.7992u	-4.9853u
B 249.678	7.2073	6.2435	5.5370
Ba 389.178	-0.7663u	-0.7280u	-1.2317u
Be 313.042	0.0238	0.0213	0.0222
Ca 370.602	-0.4831u	-1.612u	-2.329u
Cd 226.502	-0.1049u	0.1122	-0.1088u
Co 228.615	-0.0029u	-0.0451u	-0.6118u
Cr 267.716	0.2830	0.0630	0.0636
Cu 324.754	-0.2293u	-0.2452u	0.0040
Fe 271.441	-2.7551u	0.6652	0.2843
K 766.491	-2.6109u	-2.8955u	-2.7321u
Mg 279.078	0.1653	0.3383	-0.3722u
Mn 257.610	0.0575	0.0465	0.0369
Mo 202.032	0.1470	-0.4157u	-0.3281u
Na 330.237	108.403	-89.1549u	116.934

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	-1.3144u	-0.7111u	-0.0847u
Pb 220.353	0.9995	2.0466	-2.8701u
Sb 206.834	-0.6449u	3.2965	0.2767
Se 196.026	-0.9759u	8.2237	2.9302
Sn 189.925	0.7091	0.8155	1.4173
Sr 216.596	0.2287	-0.1849u	0.0352
Ti 334.941	0.1479	0.1411	0.1263
Tl 190.794	-0.1689u	-1.1048u	3.6704
V 292.401	0.0167	0.1615	0.1073
Zn 206.200	0.0478	-0.5505u	-1.6052u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1817	ppb	0.1399	77.0	-18.0514	-0.18173
Al 308.215	5.2805	ppb	0.5419	10.3	411.636	5.28051
As 188.980	-2.6525	ppb	2.0444	77.1	-6.3460	-2.65252
B 249.678	6.3293	ppb	0.8384	13.2	151.307	6.32926
Ba 389.178	-0.9087	ppb	0.2804	30.9	-61.5745	-0.90869
Be 313.042	0.0225	ppb	0.0013	5.7	-421.795	0.02246
Ca 370.602	-1.475	ppb	0.9306	63.1	17.47	-1.47471
Cd 226.502	-0.0338	ppb	0.1265	374.0	30.6522	-0.03382
Co 228.615	-0.2200	ppb	0.3400	154.6	-6.6846	-0.21995
Cr 267.716	0.1365	ppb	0.1268	92.9	37.6849	0.13653
Cu 324.754	-0.1568	ppb	0.1395	89.0	396.901	-0.15684
Fe 271.441	-0.6019	ppb	1.8745	311.4	7.1425	-0.60188
K 766.491	-2.7462	ppb	0.1428	5.2	314.757	-2.74617
Mg 279.078	0.0438	ppb	0.3705	845.3	22.4811	0.04383
Mn 257.610	0.0470	ppb	0.0103	22.0	85.9940	0.04697
Mo 202.032	-0.1989	ppb	0.3028	152.2	6.4873	-0.19894
Na 330.237	45.3940	ppb	116.601	256.9	37.4683	45.39399
Ni 231.604	-0.7034	ppb	0.6149	87.4	-5.5879	-0.70340
Pb 220.353	0.0586	ppb	2.5898	4417.2	9.4006	0.05863
Sb 206.834	0.9761	ppb	2.0617	211.2	2.5227	0.97614
Se 196.026	3.3927	ppb	4.6172	136.1	1.7355	3.39266
Sn 189.925	0.9806	ppb	0.3819	38.9	-5.0776	0.98062
Sr 216.596	0.0263	ppb	0.2070	786.7	3.3018	0.02631
Ti 334.941	0.1384	ppb	0.0111	8.0	15.8221	0.13845
Tl 190.794	0.7989	ppb	2.5305	316.7	-9.1117	0.79891
V 292.401	0.0952	ppb	0.0731	76.8	-3.6818	0.09519
Zn 206.200	-0.7026	ppb	0.8369	119.1	1.3587	-0.70261

680-110835-e-2-dPDS (Samp) 3/23/2015, 4:21:38 PM

Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	89.6773	89.8037	90.6130
Al 308.215	1020.66	1022.56	1022.86
As 188.980	100.692	99.4076	96.9787
B 249.678	205.026	206.172	207.514
Ba 389.178	173.982	173.065	173.759
Be 313.042	96.1405	96.1117	95.9587
Ca 370.602	137246	137272	137607
Cd 226.502	96.0478	96.3361	96.7162
Co 228.615	95.5866	95.3349	96.2648
Cr 267.716	99.6685	100.061	100.047

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	102.160	101.901	102.513
Fe 271.441	9738.21	9768.04	9763.07
K 766.491	12551.6	12556.6	12523.0
Mg 279.078	18688.6	18714.8	18741.1
Mn 257.610	1028.25	1030.84	1029.93
Mo 202.032	95.2967	96.4149	95.4522
Na 330.237	19966.6	19947.4	20180.1
Ni 231.604	97.6131	98.6317	97.0660
Pb 220.353	94.8458	95.4092	98.4110
Sb 206.834	85.0837	91.2392	92.3902
Se 196.026	104.787	104.596	108.108
Sn 189.925	95.0664	94.7966	94.6613
Sr 216.596	413.946	415.208	415.975
Ti 334.941	98.4154	98.5463	98.5552
Tl 190.794	19.7420	17.6147	18.8112
V 292.401	100.848	101.210	101.039
Zn 206.200	97.5771	96.2773	99.3633

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	90.0313	ppb	0.5076	0.6	8086.66
Al 308.215	1022.03	ppb	1.1915	0.1	7929.05
As 188.980	99.0261	ppb	1.8858	1.9	67.1046
B 249.678	206.238	ppb	1.2455	0.6	3718.30
Ba 389.178	173.602	ppb	0.4782	0.3	3972.83
Be 313.042	96.0703	ppb	0.0977	0.1	183555
Ca 370.602	137375	ppb	201.1	0.1	430385
Cd 226.502	96.3667	ppb	0.3353	0.3	4398.69
Co 228.615	95.7288	ppb	0.4810	0.5	1074.31
Cr 267.716	99.9255	ppb	0.2226	0.2	5412.58
Cu 324.754	102.191	ppb	0.3073	0.3	8680.62
Fe 271.441	9756.44	ppb	15.9873	0.2	15368.5
K 766.491	12543.7	ppb	18.0984	0.1	575297
Mg 279.078	18714.8	ppb	26.2178	0.1	54039.6
Mn 257.610	1029.67	ppb	1.3150	0.1	235043
Mo 202.032	95.7213	ppb	0.6057	0.6	626.861
Na 330.237	20031.4	ppb	129.149	0.6	1070.19
Ni 231.604	97.7702	ppb	0.7946	0.8	303.190
Pb 220.353	96.2220	ppb	1.9166	2.0	163.852
Sb 206.834	89.5710	ppb	3.9285	4.4	130.936
Se 196.026	105.830	ppb	1.9746	1.9	50.6911
Sn 189.925	94.8414	ppb	0.2062	0.2	63.6502
Sr 216.596	415.043	ppb	1.0245	0.2	4970.56
Ti 334.941	98.5056	ppb	0.0783	0.1	28649.2
Tl 190.794	18.7226	ppb	1.0664	5.7	9.7420
V 292.401	101.032	ppb	0.1810	0.2	2855.96
Zn 206.200	97.7392	ppb	1.5493	1.6	103.385

680-110835-e-2-e ms (Samp) 3/23/2015, 4:26:21 PM Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.0293	22.2177	22.0710
Al 308.215	2130.98	2129.51	2131.61
As 188.980	44.6929	41.5072	41.2053

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	96.7462	96.7130	96.3493
Ba 389.178	127.151	126.805	125.553
Be 313.042	20.6912	20.7194	20.6859
Ca 370.602	128327	128287	127868
Cd 226.502	20.5924	20.7716	20.5319
Co 228.615	20.3907	20.4296	20.0786
Cr 267.716	42.4692	42.5327	42.3623
Cu 324.754	43.0666	43.6514	43.6457
Fe 271.441	2084.87	2090.65	2090.30
K 766.491	3656.50	3659.40	3659.27
Mg 279.078	10850.1	10839.1	10809.8
Mn 257.610	228.286	227.885	227.381
Mo 202.032	39.9355	40.1584	40.5475
Na 330.237	12177.3	12070.2	12121.4
Ni 231.604	41.0223	42.0777	41.5417
Pb 220.353	206.329	203.679	203.759
Sb 206.834	23.2231	21.7513	21.1518
Se 196.026	49.2329	48.5019	44.7546
Sn 189.925	78.9972	82.0923	80.7030
Sr 216.596	356.850	356.904	355.540
Ti 334.941	41.6926	41.7101	41.5474
Tl 190.794	15.0924	15.3514	15.1876
V 292.401	41.9876	41.8925	42.2473
Zn 206.200	43.5335	38.4595	39.6193

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.1060	ppb	0.0990	0.4	1974.66
Al 308.215	2130.70	ppb	1.0808	0.1	16096.4
As 188.980	42.4685	ppb	1.9323	4.5	26.2653
B 249.678	96.6028	ppb	0.2202	0.2	1767.59
Ba 389.178	126.503	ppb	0.8408	0.7	2873.76
Be 313.042	20.6988	ppb	0.0180	0.1	39215.7
Ca 370.602	128161	ppb	254.1	0.2	401554
Cd 226.502	20.6319	ppb	0.1247	0.6	967.007
Co 228.615	20.2996	ppb	0.1924	0.9	224.399
Cr 267.716	42.4547	ppb	0.0861	0.2	2315.37
Cu 324.754	43.4546	ppb	0.3360	0.8	3925.66
Fe 271.441	2088.61	ppb	3.2395	0.2	3296.56
K 766.491	3658.39	ppb	1.6370	0.0	168098
Mg 279.078	10833.0	ppb	20.8603	0.2	31297.5
Mn 257.610	227.851	ppb	0.4536	0.2	52124.9
Mo 202.032	40.2138	ppb	0.3097	0.8	267.952
Na 330.237	12123.0	ppb	53.5852	0.4	662.751
Ni 231.604	41.5472	ppb	0.5277	1.3	126.764
Pb 220.353	204.589	ppb	1.5073	0.7	336.482
Sb 206.834	22.0421	ppb	1.0658	4.8	32.9923
Se 196.026	47.4965	ppb	2.4025	5.1	22.7418
Sn 189.925	80.5975	ppb	1.5502	1.9	53.2188
Sr 216.596	356.431	ppb	0.7723	0.2	4266.14
Ti 334.941	41.6500	ppb	0.0893	0.2	12104.0
Tl 190.794	15.2105	ppb	0.1310	0.9	6.5571
V 292.401	42.0425	ppb	0.1837	0.4	1185.38
Zn 206.200	40.5375	ppb	2.6587	6.6	44.0320

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

680-110835-e-2-f msd (Samp) 3/23/2015, 4:31:04 PM Rack 1, Tube 41**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	22.1476	21.9965	21.9480
Al 308.215	2137.57	2137.95	2138.20
As 188.980	39.5529	40.3071	38.1964
B 249.678	95.3459	95.7903	96.5901
Ba 389.178	126.940	126.428	126.070
Be 313.042	20.7238	20.7009	20.7305
Ca 370.602	127774	127815	128181
Cd 226.502	20.5421	20.7186	20.5959
Co 228.615	20.2344	20.2504	19.8804
Cr 267.716	42.4140	42.4154	42.6297
Cu 324.754	43.2201	43.8159	43.4284
Fe 271.441	2100.04	2095.64	2100.37
K 766.491	3663.41	3664.75	3668.26
Mg 279.078	10870.8	10863.3	10869.3
Mn 257.610	228.318	228.049	228.480
Mo 202.032	40.0320	40.2029	40.4523
Na 330.237	12103.5	12231.8	12688.4
Ni 231.604	42.6304	42.3901	42.7160
Pb 220.353	206.721	207.837	206.030
Sb 206.834	22.9243	24.9455	20.6511
Se 196.026	49.2233	39.7034	39.6697
Sn 189.925	81.1346	82.2857	83.7636
Sr 216.596	359.237	357.726	357.593
Ti 334.941	41.9112	41.7513	41.7891
Tl 190.794	15.7846	16.4761	17.3007
V 292.401	42.2888	41.9638	42.1523
Zn 206.200	41.0524	41.2785	39.4060

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.0307	ppb	0.1041	0.5	1967.80
Al 308.215	2137.91	ppb	0.3174	0.0	16149.6
As 188.980	39.3521	ppb	1.0696	2.7	24.0109
B 249.678	95.9088	ppb	0.6305	0.7	1755.11
Ba 389.178	126.480	ppb	0.4373	0.3	2873.33
Be 313.042	20.7184	ppb	0.0155	0.1	39253.2
Ca 370.602	127923	ppb	224.0	0.2	400809
Cd 226.502	20.6189	ppb	0.0905	0.4	966.513
Co 228.615	20.1217	ppb	0.2091	1.0	222.396
Cr 267.716	42.4864	ppb	0.1241	0.3	2317.08
Cu 324.754	43.4881	ppb	0.3023	0.7	3928.39
Fe 271.441	2098.68	ppb	2.6425	0.1	3312.39
K 766.491	3665.47	ppb	2.5051	0.1	168422
Mg 279.078	10867.8	ppb	3.9355	0.0	31398.0
Mn 257.610	228.283	ppb	0.2177	0.1	52223.7
Mo 202.032	40.2291	ppb	0.2113	0.5	268.050
Na 330.237	12341.2	ppb	307.443	2.5	674.073
Ni 231.604	42.5788	ppb	0.1690	0.4	129.994
Pb 220.353	206.863	ppb	0.9116	0.4	340.117
Sb 206.834	22.8403	ppb	2.1484	9.4	34.1510
Se 196.026	42.8655	ppb	5.5061	12.8	20.5441
Sn 189.925	82.3947	ppb	1.3179	1.6	54.5347
Sr 216.596	358.185	ppb	0.9131	0.3	4286.97

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	41.8172	ppb	0.0836	0.2	12152.7
Tl 190.794	16.5204	ppb	0.7590	4.6	7.9987
V 292.401	42.1350	ppb	0.1632	0.4	1187.99
Zn 206.200	40.5790	ppb	1.0221	2.5	44.0752

680-110835-f-1-b (Samp) 3/23/2015, 4:35:48 PM Rack 1, Tube 42
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1236u	0.1110u	-0.0433u
Al 308.215	28.8646	28.2284	28.3876
As 188.980	3.6398	3.2122	0.2676
B 249.678	11.1915	10.2408	10.5387
Ba 389.178	128.981	129.409	128.384
Be 313.042	-0.0275	-0.0246	-0.0331
Ca 370.602	188376	187712	187244
Cd 226.502	-0.1156u	-0.0592u	-0.0348u
Co 228.615	-0.3808u	-0.3458u	-0.4076u
Cr 267.716	0.2127	0.2595	0.0423
Cu 324.754	-0.1723u	0.0186	0.1305
Fe 271.441	23.8967	28.8357	21.0714
K 766.491	1131.10	1131.08	1129.43
Mg 279.078	8849.02	8836.62	8843.12
Mn 257.610	0.7176	0.7999	0.8345
Mo 202.032	-0.2292u	-0.0629u	-0.0533u
Na 330.237	20410.6	20547.5	20613.2
Ni 231.604	-0.2164u	0.3422	-0.0911u
Pb 220.353	0.1655	0.4452	-0.2928u
Sb 206.834	1.0576	-1.7963u	0.9973
Se 196.026	1.2742	7.0436	4.6402
Sn 189.925	0.2404	3.0933	-0.2718u
Sr 216.596	379.277	379.901	381.169
Ti 334.941	0.3182	0.2910	0.3626
Tl 190.794	-0.0760u	0.4016	-0.2758u
V 292.401	0.1514	-0.0392u	-0.0111u
Zn 206.200	2.4730	1.8719	0.3407

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0186	ppb	0.1192	640.6	-17.8964
Al 308.215	28.4935	ppb	0.3311	1.2	582.901
As 188.980	2.3732	ppb	1.8360	77.4	-2.7108
B 249.678	10.6570	ppb	0.4863	4.6	228.954
Ba 389.178	128.925	ppb	0.5151	0.4	2922.96
Be 313.042	-0.0284	ppb	0.0043	15.2	-454.212
Ca 370.602	187778	ppb	569.0	0.3	588331
Cd 226.502	-0.0699	ppb	0.0414	59.2	29.1769
Co 228.615	-0.3781	ppb	0.0310	8.2	-8.4595
Cr 267.716	0.1715	ppb	0.1143	66.6	39.9704
Cu 324.754	-0.0077	ppb	0.1531	1981.3	408.973
Fe 271.441	24.6013	ppb	3.9298	16.0	46.7756
K 766.491	1130.54	ppb	0.9577	0.1	52251.0
Mg 279.078	8842.92	ppb	6.2036	0.1	25556.8
Mn 257.610	0.7840	ppb	0.0600	7.7	327.644
Mo 202.032	-0.1151	ppb	0.0989	85.9	7.0287

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	20523.8	ppb	103.367	0.5	1099.40
Ni 231.604	0.0115	ppb	0.2931	2538.2	-3.3481
Pb 220.353	0.1060	ppb	0.3726	351.6	9.4774
Sb 206.834	0.0862	ppb	1.6306	1892.0	1.2299
Se 196.026	4.3193	ppb	2.8981	67.1	2.1758
Sn 189.925	1.0206	ppb	1.8132	177.7	-5.0422
Sr 216.596	380.116	ppb	0.9642	0.3	4567.12
Ti 334.941	0.3239	ppb	0.0361	11.2	83.7294
Tl 190.794	0.0166	ppb	0.3481	2097.5	-9.9783
V 292.401	0.0337	ppb	0.1029	305.4	-5.5301
Zn 206.200	1.5619	ppb	1.0994	70.4	3.7033

680-110835-f-2-b (Samp) 3/23/2015, 4:40:32 PM Rack 1, Tube 43

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0010u	-0.0209u	-0.3161u
Al 308.215	18.8696	19.8165	18.2470
As 188.980	-2.8841u	1.7131	-1.2964u
B 249.678	12.1912	12.5026	12.1388
Ba 389.178	87.9676	86.8424	88.7840
Be 313.042	-0.0197	-0.0217	-0.0268u
Ca 370.602	128001	127981	128237
Cd 226.502	-0.0073u	-0.0866u	-0.1084u
Co 228.615	-0.6074u	-0.5223u	-0.4651u
Cr 267.716	-0.1545u	0.1736	0.2143
Cu 324.754	0.3053	0.4173	0.0184
Fe 271.441	34.1904	29.3111	25.9302
K 766.491	1193.71	1194.92	1192.05
Mg 279.078	8863.96	8872.88	8868.15
Mn 257.610	11.5536	11.6038	11.5837
Mo 202.032	-0.0704u	-0.0946u	-0.3854u
Na 330.237	10322.6	10198.3	10212.3
Ni 231.604	-0.1511u	-0.2231u	0.1162
Pb 220.353	1.1721	0.4125	-0.4643u
Sb 206.834	1.4958	2.7937	1.8909
Se 196.026	6.6407	5.5534	7.3098
Sn 189.925	2.5601	-0.1020u	3.3199
Sr 216.596	320.506	320.800	322.441
Ti 334.941	0.2551	0.2396	0.2233
Tl 190.794	-0.3295u	-2.2795u	1.5641
V 292.401	0.3058	0.0144	-0.0003
Zn 206.200	-0.3989u	-0.0049u	-1.5594u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1126	ppb	0.1765	156.7	-23.9609
Al 308.215	18.9777	ppb	0.7903	4.2	512.717
As 188.980	-0.8225	ppb	2.3350	283.9	-5.0225
B 249.678	12.2775	ppb	0.1966	1.6	258.076
Ba 389.178	87.8647	ppb	0.9749	1.1	1985.08
Be 313.042	-0.0227	ppb	0.0036	16.0	-463.657
Ca 370.602	128073	ppb	142.5	0.1	401276
Cd 226.502	-0.0675	ppb	0.0532	78.9	29.3849
Co 228.615	-0.5316	ppb	0.0716	13.5	-10.1908

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0778	ppb	0.2022	259.9	34.7893
Cu 324.754	0.2470	ppb	0.2058	83.3	429.570
Fe 271.441	29.8106	ppb	4.1527	13.9	54.9695
K 766.491	1193.56	ppb	1.4394	0.1	55139.2
Mg 279.078	8868.33	ppb	4.4626	0.1	25630.0
Mn 257.610	11.5804	ppb	0.0252	0.2	2788.90
Mo 202.032	-0.1835	ppb	0.1753	95.5	6.5860
Na 330.237	10244.4	ppb	68.0647	0.7	566.369
Ni 231.604	-0.0860	ppb	0.1788	207.9	-3.6528
Pb 220.353	0.3735	ppb	0.8189	219.3	9.9079
Sb 206.834	2.0601	ppb	0.6653	32.3	4.0934
Se 196.026	6.5013	ppb	0.8864	13.6	3.2140
Sn 189.925	1.9260	ppb	1.7969	93.3	-4.3824
Sr 216.596	321.249	ppb	1.0428	0.3	3849.09
Ti 334.941	0.2393	ppb	0.0159	6.7	59.9608
Tl 190.794	-0.3483	ppb	1.9218	551.8	-10.3758
V 292.401	0.1066	ppb	0.1726	161.9	-3.3501
Zn 206.200	-0.6544	ppb	0.8081	123.5	1.4097

mb 680-375518/1-a (Samp)

3/23/2015, 4:45:16 PM

Rack 1, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4528	-0.1066u	-0.0703u
Al 308.215	5.8662	6.1487	5.6546
As 188.980	1.0055	-2.5290u	-2.4022u
B 249.678	1.3522	1.3349	0.8231
Ba 389.178	-0.3553u	-0.0400u	-0.5098u
Be 313.042	0.0220	0.0121	0.0154
Ca 370.602	11.82	21.03	18.48
Cd 226.502	-0.0547u	-0.0416u	-0.1869u
Co 228.615	-0.1118u	-0.1851u	-0.0311u
Cr 267.716	0.1292	0.1450	0.0233
Cu 324.754	-0.1782u	-0.0966u	-0.0364u
Fe 271.441	3.4182	-2.3038u	1.8889
K 766.491	-2.3435u	-2.9581u	-2.1757u
Mg 279.078	3.5867	2.4700	2.0267
Mn 257.610	0.0197	0.0673	0.0693
Mo 202.032	-0.1549u	-0.5204u	-0.6538u
Na 330.237	140.423	-54.3534u	-78.7319u
Ni 231.604	-0.0930u	0.9351	0.2033
Pb 220.353	-0.0970u	-1.7070u	-0.4365u
Sb 206.834	0.1605	0.8644	-0.2973u
Se 196.026	-2.3120u	-6.7673u	-4.9563u
Sn 189.925	-0.1195u	-0.1500u	-0.4057u
Sr 216.596	0.0847	-0.5045u	0.6173
Ti 334.941	0.0173	-0.0151u	0.0240
Tl 190.794	0.5750	2.1819	-1.0563u
V 292.401	-0.0669u	0.0409	-0.1926u
Zn 206.200	0.2494	-1.3084u	0.2194

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0920	ppb	0.3130	340.3	6.5743
Al 308.215	5.8898	ppb	0.2479	4.2	416.099

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.3086	ppb	2.0050	153.2	-5.3738
B 249.678	1.1701	ppb	0.3006	25.7	58.6324
Ba 389.178	-0.3017	ppb	0.2394	79.4	-47.7028
Be 313.042	0.0165	ppb	0.0051	30.7	-433.225
Ca 370.602	17.11	ppb	4.759	27.8	75.64
Cd 226.502	-0.0944	ppb	0.0804	85.1	27.9467
Co 228.615	-0.1093	ppb	0.0770	70.5	-5.4339
Cr 267.716	0.0992	ppb	0.0662	66.7	35.6779
Cu 324.754	-0.1037	ppb	0.0712	68.6	401.188
Fe 271.441	1.0011	ppb	2.9625	295.9	9.6917
K 766.491	-2.4925	ppb	0.4119	16.5	326.385
Mg 279.078	2.6945	ppb	0.8038	29.8	30.1352
Mn 257.610	0.0521	ppb	0.0281	54.0	87.1922
Mo 202.032	-0.4431	ppb	0.2583	58.3	4.9073
Na 330.237	2.4459	ppb	120.112	4910.8	35.2366
Ni 231.604	0.3485	ppb	0.5292	151.9	-2.2967
Pb 220.353	-0.7468	ppb	0.8487	113.6	8.1133
Sb 206.834	0.2425	ppb	0.5852	241.3	1.4623
Se 196.026	-4.6786	ppb	2.2406	47.9	-2.0952
Sn 189.925	-0.2251	ppb	0.1572	69.8	-5.9603
Sr 216.596	0.0658	ppb	0.5611	852.7	3.7621
Ti 334.941	0.0088	ppb	0.0209	238.5	-21.8772
Tl 190.794	0.5669	ppb	1.6191	285.6	-9.3665
V 292.401	-0.0729	ppb	0.1169	160.4	-8.4419
Zn 206.200	-0.2799	ppb	0.8908	318.3	1.7963

ics 680-375518/2-a (Samp)

3/23/2015, 4:50:01 PM

Rack 1, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.0853	52.7675	53.2451
Al 308.215	5069.31	5058.83	5070.95
As 188.980	102.453	97.0117	102.029
B 249.678	201.738	201.121	203.480
Ba 389.178	99.3117	98.5499	98.7648
Be 313.042	51.0427	50.9130	51.1155
Ca 370.602	5256	5250	5262
Cd 226.502	51.8757	51.8115	51.9563
Co 228.615	50.9518	51.0485	51.2850
Cr 267.716	106.092	106.277	105.926
Cu 324.754	105.443	104.127	104.568
Fe 271.441	5091.00	5078.11	5088.73
K 766.491	5602.39	5580.63	5597.82
Mg 279.078	5107.01	5085.82	5099.38
Mn 257.610	534.281	533.105	534.266
Mo 202.032	99.6125	100.662	99.1737
Na 330.237	4891.01	5117.17	5016.17
Ni 231.604	103.140	102.942	103.839
Pb 220.353	509.577	513.586	516.621
Sb 206.834	51.9400	50.7662	50.4572
Se 196.026	101.746	109.529	102.105
Sn 189.925	203.753	200.508	199.629
Sr 216.596	99.6011	99.0445	100.273
Ti 334.941	102.825	102.508	102.837

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	45.4222	43.8533	43.4334
V 292.401	103.527	103.350	103.585
Zn 206.200	106.963	104.568	102.781

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.0326	ppb	0.2431	0.5	4768.18
Al 308.215	5066.36	ppb	6.5779	0.1	37761.1
As 188.980	100.498	ppb	3.0268	3.0	68.2018
B 249.678	202.113	ppb	1.2236	0.6	3655.33
Ba 389.178	98.8755	ppb	0.3928	0.4	2233.32
Be 313.042	51.0237	ppb	0.1026	0.2	97241.5
Ca 370.602	5256	ppb	5.585	0.1	16497
Cd 226.502	51.8812	ppb	0.0725	0.1	2381.85
Co 228.615	51.0951	ppb	0.1714	0.3	571.181
Cr 267.716	106.098	ppb	0.1752	0.2	5740.12
Cu 324.754	104.713	ppb	0.6696	0.6	8882.43
Fe 271.441	5085.95	ppb	6.8798	0.1	8015.98
K 766.491	5593.61	ppb	11.4721	0.2	256786
Mg 279.078	5097.40	ppb	10.7281	0.2	14727.7
Mn 257.610	533.884	ppb	0.6743	0.1	121868
Mo 202.032	99.8161	ppb	0.7647	0.8	653.575
Na 330.237	5008.12	ppb	113.297	2.3	292.225
Ni 231.604	103.307	ppb	0.4710	0.5	320.223
Pb 220.353	513.261	ppb	3.5334	0.7	830.093
Sb 206.834	51.0545	ppb	0.7823	1.5	74.9601
Se 196.026	104.460	ppb	4.3936	4.2	49.8787
Sn 189.925	201.297	ppb	2.1724	1.1	141.588
Sr 216.596	99.6394	ppb	0.6149	0.6	1185.74
Ti 334.941	102.723	ppb	0.1864	0.2	29852.4
Tl 190.794	44.2363	ppb	1.0483	2.4	38.2320
V 292.401	103.487	ppb	0.1222	0.1	2926.90
Zn 206.200	104.770	ppb	2.0986	2.0	110.493

680-110790-i-10-a (Samp)

3/23/2015, 4:54:45 PM

Rack 1, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1751	0.2556	0.2048
Al 308.215	9.9781	9.0710	8.2528
As 188.980	3.7938	0.9477	4.8817
B 249.678	14.5864	14.4531	14.2871
Ba 389.178	397.738	398.505	399.079
Be 313.042	0.0108	0.0118	0.0173
Ca 370.602	1369	1370	1374
Cd 226.502	-0.2980	-0.3724	-0.3964
Co 228.615	0.1451	-0.4494u	-0.0085
Cr 267.716	0.2547	0.1699	0.3249
Cu 324.754	-0.0156	0.0453	0.3605
Fe 271.441	14213.9	14218.8	14250.1
K 766.491	820.139	815.075	819.327
Mg 279.078	889.592	886.225	896.160
Mn 257.610	1708.24	1709.70	1714.46
Mo 202.032	0.4895	-0.0109u	0.5436
Na 330.237	10528.8	10537.1	10652.9

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	0.3603	-1.3562u	0.2786
Pb 220.353	0.1615	3.9597	0.6354
Sb 206.834	-0.5565u	2.2905	-0.3829u
Se 196.026	4.8428	-1.6510u	-3.8328u
Sn 189.925	1.6360	-0.6949u	-0.2385u
Sr 216.596	11.5945	10.9309	11.3796
Ti 334.941	0.0813	0.1294	0.0811
Tl 190.794	-0.2398u	1.3354	3.7252
V 292.401	0.0998u	0.0523u	0.1909u
Zn 206.200	43.0684	40.2810	42.1014

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2119	ppb	0.0407	19.2	23.7465
Al 308.215	9.1006	ppb	0.8631	9.5	441.483
As 188.980	3.2077	ppb	2.0314	63.3	-2.2088
B 249.678	14.4422	ppb	0.1499	1.0	261.398
Ba 389.178	398.441	ppb	0.6729	0.2	9073.84
Be 313.042	0.0133	ppb	0.0035	26.3	-441.370
Ca 370.602	1371	ppb	2.289	0.2	4203
Cd 226.502	-0.3556	ppb	0.0513	14.4	97.3157
Co 228.615	-0.1043	ppb	0.3086	296.0	-4.4439
Cr 267.716	0.2498	ppb	0.0776	31.1	59.0667
Cu 324.754	0.1301	ppb	0.2019	155.2	426.946
Fe 271.441	14227.6	ppb	19.6351	0.1	22390.5
K 766.491	818.180	ppb	2.7201	0.3	37936.3
Mg 279.078	890.659	ppb	5.0526	0.6	2556.56
Mn 257.610	1710.80	ppb	3.2524	0.2	390222
Mo 202.032	0.3407	ppb	0.3057	89.7	9.3440
Na 330.237	10572.9	ppb	69.3485	0.7	579.242
Ni 231.604	-0.2391	ppb	0.9683	405.0	-2.9039
Pb 220.353	1.5855	ppb	2.0697	130.5	13.1636
Sb 206.834	0.4504	ppb	1.5960	354.4	2.0205
Se 196.026	-0.2137	ppb	4.5129	2112.2	0.5642
Sn 189.925	0.2342	ppb	1.2353	527.4	-5.6209
Sr 216.596	11.3017	ppb	0.3386	3.0	155.442
Ti 334.941	0.0972	ppb	0.0278	28.6	6.2588
Tl 190.794	1.6070	ppb	1.9964	124.2	-9.5881
V 292.401	0.1144	ppb	0.0704	61.6	-8.9596
Zn 206.200	41.8169	ppb	1.4153	3.4	45.8467

680-110790-i-10-aSD (Samp) 3/23/2015, 4:59:30 PM Rack 1, Tube 47

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2411	-0.3617u	0.2649
Al 308.215	6.1552	5.0568	5.3408
As 188.980	0.5706	-2.4821u	-2.8869u
B 249.678	3.6897	3.6622	3.4756
Ba 389.178	79.6855	80.5985	81.4122
Be 313.042	0.0148	0.0143	0.0165
Ca 370.602	278.1	278.0	284.6
Cd 226.502	-0.1109	-0.0740	-0.0598
Co 228.615	-0.0408u	-0.1357u	0.1056
Cr 267.716	0.0091	0.2418	0.1270

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	-0.5780u	0.0743	0.0279
Fe 271.441	2829.80	2861.64	2875.21
K 766.491	154.503	155.127	155.401
Mg 279.078	177.261	177.945	179.637
Mn 257.610	342.131	345.052	347.006
Mo 202.032	0.2040	-0.7073u	0.0554
Na 330.237	2077.24	2170.96	2124.33
Ni 231.604	0.2842	-0.3138u	0.8278
Pb 220.353	-0.1148	0.3476	2.0009
Sb 206.834	-1.1302u	2.4593	2.1535
Se 196.026	-1.9749u	-0.1784	1.8814
Sn 189.925	-1.0270u	0.9283	-1.3801u
Sr 216.596	2.5153	2.1984	2.2887
Ti 334.941	0.0251	0.0373	0.0373
Tl 190.794	-0.0229u	-0.3714u	2.5611
V 292.401	-0.1228u	0.0591	-0.0353u
Zn 206.200	7.3806	7.1762	8.2627

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0481	ppb	0.3551	738.2	3.9138
Al 308.215	5.5176	ppb	0.5701	10.3	413.701
As 188.980	-1.5995	ppb	1.8902	118.2	-5.6047
B 249.678	3.6091	ppb	0.1165	3.2	95.3125
Ba 389.178	80.5654	ppb	0.8638	1.1	1802.16
Be 313.042	0.0152	ppb	0.0011	7.5	-436.091
Ca 370.602	280.2	ppb	3.755	1.3	877.1
Cd 226.502	-0.0816	ppb	0.0264	32.4	44.7758
Co 228.615	-0.0237	ppb	0.1216	513.5	-4.2851
Cr 267.716	0.1260	ppb	0.1163	92.4	40.1911
Cu 324.754	-0.1586	ppb	0.3639	229.4	398.127
Fe 271.441	2855.55	ppb	23.3086	0.8	4500.38
K 766.491	155.010	ppb	0.4600	0.3	7544.45
Mg 279.078	178.281	ppb	1.2231	0.7	529.572
Mn 257.610	344.730	ppb	2.4532	0.7	78690.6
Mo 202.032	-0.1493	ppb	0.4889	327.5	6.6810
Na 330.237	2124.17	ppb	46.8629	2.2	144.432
Ni 231.604	0.2661	ppb	0.5710	214.6	-2.3076
Pb 220.353	0.7446	ppb	1.1123	149.4	10.7627
Sb 206.834	1.1609	ppb	1.9900	171.4	2.8435
Se 196.026	-0.0906	ppb	1.9297	2129.6	0.1910
Sn 189.925	-0.4929	ppb	1.2434	252.2	-6.1558
Sr 216.596	2.3342	ppb	0.1633	7.0	34.3411
Ti 334.941	0.0332	ppb	0.0071	21.3	-14.2847
Tl 190.794	0.7223	ppb	1.6020	221.8	-9.4691
V 292.401	-0.0330	ppb	0.0910	275.6	-8.5045
Zn 206.200	7.6065	ppb	0.5774	7.6	10.0550

680-110790-i-10-aPDS (Samp) 3/23/2015, 5:04:15 PM Rack 1, Tube 48

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	87.9655	88.0863	86.6300
Al 308.215	974.070	975.996	975.505
As 188.980	102.101	104.173	97.2933

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	201.786	203.418	203.398
Ba 389.178	480.647	481.062	482.210
Be 313.042	95.5813	95.7843	95.6743
Ca 370.602	11437	11458	11425
Cd 226.502	96.5080	96.6744	96.7194
Co 228.615	96.9627	96.4741	95.8795
Cr 267.716	100.545	100.750	100.564
Cu 324.754	99.1025	99.2385	98.2226
Fe 271.441	23769.0	23787.1	23756.5
K 766.491	11567.6	11556.5	11561.7
Mg 279.078	10586.5	10539.0	10591.2
Mn 257.610	2647.69	2655.47	2644.40
Mo 202.032	95.9563	95.6885	95.0599
Na 330.237	19611.4	19840.0	20012.7
Ni 231.604	99.2313	97.7469	98.4990
Pb 220.353	98.0777	98.5728	97.4309
Sb 206.834	86.7024	88.8409	93.0538
Se 196.026	99.5459	89.4095	99.9933
Sn 189.925	93.2697	94.1674	94.1370
Sr 216.596	105.977	106.408	106.747
Ti 334.941	97.6697	97.8440	98.0161
Tl 190.794	19.5665	21.0000	20.3205
V 292.401	100.991	100.579	100.744
Zn 206.200	140.039	138.318	133.178

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	87.5606	ppb	0.8082	0.9	7882.44
Al 308.215	975.190	ppb	1.0005	0.1	7585.12
As 188.980	101.189	ppb	3.5293	3.5	68.5690
B 249.678	202.867	ppb	0.9366	0.5	3622.70
Ba 389.178	481.306	ppb	0.8097	0.2	10995.5
Be 313.042	95.6800	ppb	0.1016	0.1	182761
Ca 370.602	11440	ppb	16.63	0.1	35714
Cd 226.502	96.6339	ppb	0.1113	0.1	4490.40
Co 228.615	96.4387	ppb	0.5425	0.6	1083.24
Cr 267.716	100.620	ppb	0.1130	0.1	5464.44
Cu 324.754	98.8545	ppb	0.5515	0.6	8417.51
Fe 271.441	23770.9	ppb	15.3440	0.1	37415.6
K 766.491	11561.9	ppb	5.5766	0.0	530303
Mg 279.078	10572.2	ppb	28.8625	0.3	30491.7
Mn 257.610	2649.19	ppb	5.6883	0.2	604300
Mo 202.032	95.5682	ppb	0.4601	0.5	625.243
Na 330.237	19821.4	ppb	201.300	1.0	1055.22
Ni 231.604	98.4924	ppb	0.7422	0.8	306.661
Pb 220.353	98.0271	ppb	0.5726	0.6	168.029
Sb 206.834	89.5324	ppb	3.2316	3.6	131.155
Se 196.026	96.3162	ppb	5.9856	6.2	46.6919
Sn 189.925	93.8580	ppb	0.5097	0.5	62.9301
Sr 216.596	106.377	ppb	0.3859	0.4	1291.96
Ti 334.941	97.8433	ppb	0.1732	0.2	28443.9
Tl 190.794	20.2957	ppb	0.7170	3.5	10.0993
V 292.401	100.771	ppb	0.2077	0.2	2842.87
Zn 206.200	137.178	ppb	3.5694	2.6	144.677

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Cont Calib Verif (CCV) 3/23/2015, 5:08:59 PM Rack 1, Tube 49

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	485.078	479.030	482.943
Al 308.215	4786.47	4765.06	4796.29
As 188.980	482.197	478.773	496.630
B 249.678	480.210	481.304	486.539
Ba 389.178	4849.88	4832.10	4847.13
Be 313.042	487.269	487.166	488.213
Ca 370.602	4873	4860	4881
Cd 226.502	488.230	486.058	489.428
Co 228.615	491.954	492.237	494.184
Cr 267.716	4958.78	4939.84	4965.08
Cu 324.754	5008.00	5033.79	5050.63
Fe 271.441	4851.99	4836.50	4842.36
K 766.491	10218.2	10165.6	10205.9
Mg 279.078	4852.33	4830.58	4871.52
Mn 257.610	4935.39	4918.55	4946.36
Mo 202.032	484.565	484.052	486.502
Na 330.237	7310.05	7522.71	7257.56
Ni 231.604	2457.45	2459.29	2470.81
Pb 220.353	488.140	482.134	484.721
Sb 206.834	973.845	967.653	977.942
Se 196.026	4873.34	4843.19	4883.98
Sn 189.925	4818.44	4792.48	4862.80
Sr 216.596	2421.99	2420.68	2432.96
Ti 334.941	482.534	480.573	482.597
Tl 190.794	4910.95	4911.34	4965.75
V 292.401	4852.52	4838.72	4860.76
Zn 206.200	2426.49	2431.95	2433.82

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	482.351	ppb	3.0672	0.6	43345.7	96.47011
Al 308.215	4782.61	ppb	15.9681	0.3	36368.9	95.65217
As 188.980	485.867	ppb	9.4771	2.0	346.844	97.17332
B 249.678	482.685	ppb	3.3827	0.7	8709.36	96.53690
Ba 389.178	4843.04	ppb	9.5698	0.2	110615	96.86074
Be 313.042	487.549	ppb	0.5772	0.1	933438	97.50985
Ca 370.602	4871	ppb	10.80	0.2	15646	97.42331
Cd 226.502	487.905	ppb	1.7081	0.4	21884.6	97.58106
Co 228.615	492.791	ppb	1.2145	0.2	5551.51	98.55830
Cr 267.716	4954.56	ppb	13.1342	0.3	266461	99.09129
Cu 324.754	5030.81	ppb	21.4725	0.4	407172	100.61613
Fe 271.441	4843.62	ppb	7.8223	0.2	7725.66	96.87239
K 766.491	10196.6	ppb	27.4859	0.3	467731	101.96577
Mg 279.078	4851.48	ppb	20.4797	0.4	13920.8	97.02957
Mn 257.610	4933.43	ppb	14.0053	0.3	1125046	98.66868
Mo 202.032	485.040	ppb	1.2918	0.3	3142.31	97.00790
Na 330.237	7363.44	ppb	140.410	1.9	385.936	98.17921
Ni 231.604	2462.52	ppb	7.2420	0.3	7702.17	98.50078
Pb 220.353	484.998	ppb	3.0122	0.6	788.924	96.99965
Sb 206.834	973.147	ppb	5.1802	0.5	1470.81	97.31467
Se 196.026	4866.84	ppb	21.1585	0.4	2311.23	97.33678
Sn 189.925	4824.57	ppb	35.5589	0.7	3526.59	96.49146
Sr 216.596	2425.21	ppb	6.7411	0.3	28617.3	97.00832

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	481.901	ppb	1.1508	0.2	140100	96.38027
Tl 190.794	4929.35	ppb	31.5292	0.6	5435.85	98.58694
V 292.401	4850.67	ppb	11.1407	0.2	138434	97.01335
Zn 206.200	2430.75	ppb	3.8077	0.2	2508.56	97.23011

Cont Calib Blank (CCB)

3/23/2015, 5:13:42 PM

Rack 1, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0147	0.0342	-0.1735u
Al 308.215	3.9750	5.0200	3.7125
As 188.980	0.9796	-0.9007u	-2.0685u
B 249.678	7.4385	6.7600	5.8131
Ba 389.178	-0.6536u	-0.4273u	0.0395
Be 313.042	0.0219	0.0274	0.0244
Ca 370.602	-0.3635u	-1.985u	1.837
Cd 226.502	0.0201	-0.0238u	-0.0099u
Co 228.615	-0.2350u	-0.2474u	-0.2836u
Cr 267.716	0.1352	0.1344	0.1049
Cu 324.754	0.2708	0.0871	-0.1116u
Fe 271.441	2.0727	3.3960	-1.0692u
K 766.491	-2.8279u	-2.5668u	-2.1442u
Mg 279.078	-1.4163u	2.0449	0.0014
Mn 257.610	0.1114	0.1074	0.0826
Mo 202.032	-0.4433u	0.2419	0.1770
Na 330.237	13.5091	-34.4128u	31.1293
Ni 231.604	-0.0890u	-1.9015u	-0.5138u
Pb 220.353	-0.8203u	0.8162	-0.1315u
Sb 206.834	2.8870	1.9559	2.7224
Se 196.026	5.3316	3.1906	4.8384
Sn 189.925	0.4271	2.5948	2.4397
Sr 216.596	0.4458	0.6519	-0.3281u
Ti 334.941	0.1765	0.1388	0.1575
Tl 190.794	1.6419	4.0904	4.1785
V 292.401	0.2653	0.1606	0.1009
Zn 206.200	-2.8644u	-0.7061u	-1.1300u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0415	ppb	0.1147	276.1	-5.4404	-0.04153
Al 308.215	4.2359	ppb	0.6917	16.3	403.947	4.23588
As 188.980	-0.6632	ppb	1.5379	231.9	-4.9071	-0.66320
B 249.678	6.6705	ppb	0.8164	12.2	157.457	6.67053
Ba 389.178	-0.3471	ppb	0.3534	101.8	-48.7440	-0.34715
Be 313.042	0.0246	ppb	0.0028	11.3	-417.819	0.02456
Ca 370.602	-0.1705	ppb	1.918	1125.4	21.55	-0.17045
Cd 226.502	-0.0045	ppb	0.0224	493.1	31.9670	-0.00454
Co 228.615	-0.2553	ppb	0.0253	9.9	-7.0903	-0.25529
Cr 267.716	0.1248	ppb	0.0173	13.8	37.0543	0.12481
Cu 324.754	0.0821	ppb	0.1912	232.9	416.234	0.08211
Fe 271.441	1.4665	ppb	2.2935	156.4	10.3951	1.46648
K 766.491	-2.5130	ppb	0.3450	13.7	325.444	-2.51297
Mg 279.078	0.2100	ppb	1.7400	828.6	22.9606	0.21000
Mn 257.610	0.1005	ppb	0.0156	15.5	98.2023	0.10048
Mo 202.032	-0.0081	ppb	0.3782	4649.7	7.7224	-0.00813

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	3.4085	ppb	33.9184	995.1	35.3040	3.40853
Ni 231.604	-0.8348	ppb	0.9479	113.6	-5.9989	-0.83477
Pb 220.353	-0.0452	ppb	0.8217	1817.1	9.2342	-0.04522
Sb 206.834	2.5218	ppb	0.4969	19.7	4.7601	2.52175
Se 196.026	4.4535	ppb	1.1212	25.2	2.2390	4.45350
Sn 189.925	1.8205	ppb	1.2092	66.4	-4.4626	1.82052
Sr 216.596	0.2565	ppb	0.5167	201.4	6.0136	0.25650
Ti 334.941	0.1576	ppb	0.0188	12.0	21.3885	0.15759
Tl 190.794	3.3036	ppb	1.4397	43.6	-6.3504	3.30359
V 292.401	0.1756	ppb	0.0832	47.4	-1.4379	0.17562
Zn 206.200	-1.5668	ppb	1.1435	73.0	0.4643	-1.56684

680-110790-i-10-b ms (Samp) 3/23/2015, 5:18:25 PM

Rack 1, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.1628	52.2238	51.7135
Al 308.215	4972.06	4971.09	4961.58
As 188.980	104.693	107.073	110.619
B 249.678	209.301	211.100	211.828
Ba 389.178	474.527	473.331	472.105
Be 313.042	50.0286	49.9633	49.7631
Ca 370.602	6433	6438	6434
Cd 226.502	50.5197	50.5506	50.2757
Co 228.615	50.2060	50.0743	50.2286
Cr 267.716	103.865	104.243	104.114
Cu 324.754	102.891	102.231	102.104
Fe 271.441	18480.6	18441.4	18397.9
K 766.491	6281.44	6285.59	6258.25
Mg 279.078	5816.63	5831.87	5811.10
Mn 257.610	2144.86	2142.95	2136.42
Mo 202.032	98.8075	98.1781	98.0583
Na 330.237	15444.7	15116.5	15228.7
Ni 231.604	100.163	99.2898	99.9009
Pb 220.353	503.534	497.112	506.013
Sb 206.834	51.6390	52.8076	53.3763
Se 196.026	97.4774	99.5314	100.084
Sn 189.925	193.567	194.626	191.493
Sr 216.596	109.563	108.026	107.848
Ti 334.941	100.688	100.436	100.226
Tl 190.794	43.7175	39.7952	45.8937
V 292.401	101.797	101.882	101.601
Zn 206.200	140.410	137.648	135.010

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.0334	ppb	0.2787	0.5	4684.34
Al 308.215	4968.24	ppb	5.7892	0.1	37038.6
As 188.980	107.462	ppb	2.9823	2.8	73.1438
B 249.678	210.743	ppb	1.3010	0.6	3776.94
Ba 389.178	473.321	ppb	1.2111	0.3	10798.8
Be 313.042	49.9184	ppb	0.1383	0.3	95122.9
Ca 370.602	6435	ppb	2.642	0.0	20083
Cd 226.502	50.4487	ppb	0.1506	0.3	2393.84
Co 228.615	50.1696	ppb	0.0833	0.2	561.642

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	104.074	ppb	0.1925	0.2	5645.65
Cu 324.754	102.409	ppb	0.4224	0.4	8702.46
Fe 271.441	18440.0	ppb	41.3792	0.2	29024.0
K 766.491	6275.10	ppb	14.7337	0.2	288017
Mg 279.078	5819.86	ppb	10.7586	0.2	16778.5
Mn 257.610	2141.41	ppb	4.4232	0.2	488462
Mo 202.032	98.3480	ppb	0.4024	0.4	643.476
Na 330.237	15263.3	ppb	166.853	1.1	820.214
Ni 231.604	99.7847	ppb	0.4482	0.4	310.358
Pb 220.353	502.220	ppb	4.5940	0.9	813.686
Sb 206.834	52.6076	ppb	0.8858	1.7	77.4634
Se 196.026	99.0311	ppb	1.3737	1.4	47.8094
Sn 189.925	193.229	ppb	1.5939	0.8	135.684
Sr 216.596	108.479	ppb	0.9431	0.9	1307.99
Ti 334.941	100.450	ppb	0.2313	0.2	29193.4
Tl 190.794	43.1355	ppb	3.0906	7.2	35.7357
V 292.401	101.760	ppb	0.1437	0.1	2872.45
Zn 206.200	137.689	ppb	2.7004	2.0	145.018

680-110790-i-10-c ms (Samp) 3/23/2015, 5:23:08 PM Rack 1, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.9381	52.3955	52.8920
Al 308.215	5056.92	5039.12	5026.83
As 188.980	111.304	107.436	105.816
B 249.678	213.985	213.565	214.531
Ba 389.178	483.832	481.539	481.206
Be 313.042	50.7367	50.5616	50.5161
Ca 370.602	6542	6514	6490
Cd 226.502	51.2818	51.1997	50.6894
Co 228.615	51.1467	51.3661	50.7182
Cr 267.716	105.568	104.880	104.943
Cu 324.754	104.239	103.206	102.981
Fe 271.441	18831.0	18668.5	18707.9
K 766.491	6385.32	6370.86	6351.85
Mg 279.078	5912.90	5874.15	5877.46
Mn 257.610	2186.62	2176.98	2172.27
Mo 202.032	99.1009	99.7980	100.404
Na 330.237	15525.7	15403.1	15566.0
Ni 231.604	102.674	103.386	101.833
Pb 220.353	504.403	501.865	508.057
Sb 206.834	56.1293	52.5341	48.5280
Se 196.026	98.0165	101.630	99.3425
Sn 189.925	199.666	197.041	202.574
Sr 216.596	110.117	109.600	109.804
Ti 334.941	102.246	101.773	101.842
Tl 190.794	41.9660	44.1776	40.7290
V 292.401	103.638	103.278	102.911
Zn 206.200	138.446	142.300	138.270

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.7419	ppb	0.3008	0.6	4748.19
Al 308.215	5040.95	ppb	15.1278	0.3	37575.2

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	108.185	ppb	2.8200	2.6	73.6647
B 249.678	214.027	ppb	0.4844	0.2	3835.17
Ba 389.178	482.192	ppb	1.4299	0.3	11001.8
Be 313.042	50.6048	ppb	0.1164	0.2	96437.4
Ca 370.602	6516	ppb	25.97	0.4	20333
Cd 226.502	51.0570	ppb	0.3210	0.6	2422.78
Co 228.615	51.0770	ppb	0.3295	0.6	571.876
Cr 267.716	105.131	ppb	0.3803	0.4	5702.78
Cu 324.754	103.475	ppb	0.6713	0.6	8788.90
Fe 271.441	18735.8	ppb	84.7563	0.5	29489.5
K 766.491	6369.34	ppb	16.7856	0.3	292336
Mg 279.078	5888.17	ppb	21.4788	0.4	16974.9
Mn 257.610	2178.62	ppb	7.3142	0.3	496948
Mo 202.032	99.7677	ppb	0.6522	0.7	652.651
Na 330.237	15498.2	ppb	84.8472	0.5	832.291
Ni 231.604	102.631	ppb	0.7777	0.8	319.290
Pb 220.353	504.775	ppb	3.1124	0.6	817.797
Sb 206.834	52.3972	ppb	3.8025	7.3	77.1558
Se 196.026	99.6630	ppb	1.8280	1.8	48.1212
Sn 189.925	199.760	ppb	2.7681	1.4	140.467
Sr 216.596	109.840	ppb	0.2607	0.2	1324.43
Ti 334.941	101.954	ppb	0.2553	0.3	29630.8
Tl 190.794	42.2909	ppb	1.7471	4.1	34.7759
V 292.401	103.276	ppb	0.3637	0.4	2915.36
Zn 206.200	139.672	ppb	2.2777	1.6	147.079

680-110790-i-5-a (Samp)

3/23/2015, 5:27:52 PM

Rack 1, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0094u	0.0544	0.1073
Al 308.215	76.4693	80.3519	80.7829
As 188.980	-1.4235u	3.9547	-0.4731u
B 249.678	49.7297	49.5778	49.0656
Ba 389.178	19.1946	19.3930	19.1760
Be 313.042	0.0311	0.0409	0.0407
Ca 370.602	11211	11175	11166
Cd 226.502	-0.1121u	-0.0661	-0.1746u
Co 228.615	0.0031	-0.1330u	0.6890
Cr 267.716	3.8278	3.7043	3.8913
Cu 324.754	1.2392	1.2797	1.3642
Fe 271.441	814.139	829.860	828.981
K 766.491	3564.89	3571.20	3564.01
Mg 279.078	4080.65	4070.47	4070.35
Mn 257.610	113.079	113.131	112.876
Mo 202.032	1.3146	1.2542	1.6688
Na 330.237	87118.7	87118.5	87127.3
Ni 231.604	5.7623	6.0052	5.8019
Pb 220.353	-2.0107u	1.6591	0.7174
Sb 206.834	1.0593	1.4971	2.3678
Se 196.026	11.2722	6.2335	-0.9350u
Sn 189.925	6.8571	2.1662	5.6593
Sr 216.596	66.8926	66.4803	66.6586
Ti 334.941	0.3802	0.4149	0.3539

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	0.5414	-0.9684u	1.4927
V 292.401	1.0377	0.8350	0.9603
Zn 206.200	16.3638	14.3148	15.3086

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0508	ppb	0.0584	115.0	0.8261
Al 308.215	79.2014	ppb	2.3759	3.0	957.162
As 188.980	0.6861	ppb	2.8704	418.4	-3.9374
B 249.678	49.4577	ppb	0.3480	0.7	923.780
Ba 389.178	19.2545	ppb	0.1203	0.6	408.302
Be 313.042	0.0375	ppb	0.0056	14.9	-399.291
Ca 370.602	11184	ppb	23.62	0.2	35055
Cd 226.502	-0.1176	ppb	0.0545	46.3	31.1166
Co 228.615	0.1864	ppb	0.4406	236.3	-2.0819
Cr 267.716	3.8078	ppb	0.0951	2.5	237.723
Cu 324.754	1.2944	ppb	0.0638	4.9	514.706
Fe 271.441	824.327	ppb	8.8336	1.1	1304.96
K 766.491	3566.70	ppb	3.9222	0.1	163896
Mg 279.078	4073.82	ppb	5.9144	0.1	11783.3
Mn 257.610	113.029	ppb	0.1350	0.1	25883.0
Mo 202.032	1.4126	ppb	0.2240	15.9	16.8810
Na 330.237	87121.5	ppb	5.0163	0.0	4552.66
Ni 231.604	5.8565	ppb	0.1303	2.2	15.0113
Pb 220.353	0.1219	ppb	1.9060	1563.4	9.5807
Sb 206.834	1.6414	ppb	0.6661	40.6	3.5236
Se 196.026	5.5236	ppb	6.1345	111.1	2.7815
Sn 189.925	4.8942	ppb	2.4372	49.8	-2.1862
Sr 216.596	66.6772	ppb	0.2068	0.3	796.445
Ti 334.941	0.3830	ppb	0.0306	8.0	87.4638
Tl 190.794	0.3552	ppb	1.2411	349.4	-9.6760
V 292.401	0.9443	ppb	0.1023	10.8	19.1369
Zn 206.200	15.3290	ppb	1.0247	6.7	17.9725

680-110790-i-5-b ms (Samp) 3/23/2015, 5:32:36 PM Rack 1, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.2622	53.3535	53.1633
Al 308.215	5177.82	5170.88	5170.38
As 188.980	104.448	103.129	103.258
B 249.678	245.354	246.848	247.471
Ba 389.178	116.442	117.052	117.279
Be 313.042	51.2970	51.1493	51.0503
Ca 370.602	15937	15864	15849
Cd 226.502	51.3801	51.1663	51.3492
Co 228.615	51.5782	51.4904	51.7151
Cr 267.716	108.650	108.454	108.597
Cu 324.754	105.807	106.691	105.597
Fe 271.441	5744.43	5725.94	5733.93
K 766.491	9489.23	9502.92	9494.34
Mg 279.078	8973.17	8968.66	8981.33
Mn 257.610	637.475	636.030	636.997
Mo 202.032	100.755	100.121	101.278
Na 330.237	89573.9	89292.5	89971.4

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	107.275	107.959	108.787
Pb 220.353	507.916	503.764	504.697
Sb 206.834	56.1339	53.6095	52.5448
Se 196.026	96.9322	107.290	103.602
Sn 189.925	203.880	201.648	201.567
Sr 216.596	164.511	164.049	163.362
Ti 334.941	102.501	102.442	102.337
Tl 190.794	36.9956	41.7559	42.2670
V 292.401	105.011	104.739	104.561
Zn 206.200	106.823	113.108	110.133

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.2597b	ppb	0.0951	0.2	4786.64
Al 308.215	5173.03b	ppb	4.1588	0.1	38548.2
As 188.980	103.611b	ppb	0.7269	0.7	70.4488
B 249.678	246.558b	ppb	1.0879	0.4	4451.93
Ba 389.178	116.924b	ppb	0.4331	0.4	2654.36
Be 313.042	51.1655b	ppb	0.1241	0.2	97507.0
Ca 370.602	15883b	ppb	47.07	0.3	49787
Cd 226.502	51.2985b	ppb	0.1155	0.2	2359.03
Co 228.615	51.5946b	ppb	0.1133	0.2	576.829
Cr 267.716	108.567b	ppb	0.1014	0.1	5875.31
Cu 324.754	106.032b	ppb	0.5808	0.5	8989.42
Fe 271.441	5734.76b	ppb	9.2729	0.2	9036.72
K 766.491	9495.50b	ppb	6.9140	0.1	435602
Mg 279.078	8974.39b	ppb	6.4241	0.1	25920.4
Mn 257.610	636.834b	ppb	0.7363	0.1	145375
Mo 202.032	100.718b	ppb	0.5792	0.6	659.384
Na 330.237	89612.6b	ppb	341.091	0.4	4679.42
Ni 231.604	108.007b	ppb	0.7576	0.7	334.987
Pb 220.353	505.459b	ppb	2.1785	0.4	817.685
Sb 206.834	54.0960b	ppb	1.8433	3.4	79.4044
Se 196.026	102.608b	ppb	5.2500	5.1	49.0302
Sn 189.925	202.365b	ppb	1.3125	0.6	142.396
Sr 216.596	163.974b	ppb	0.5783	0.4	1951.14
Ti 334.941	102.427b	ppb	0.0834	0.1	29766.5
Tl 190.794	40.3395b	ppb	2.9072	7.2	33.8840
V 292.401	104.770b	ppb	0.2268	0.2	2962.39
Zn 206.200	110.021b	ppb	3.1442	2.9	115.945

680-110790-i-5-c msd (Samp) 3/23/2015, 5:39:53 PM

Rack 1, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.5896	52.6908	52.1613
Al 308.215	5148.20	5141.78	5139.99
As 188.980	103.487	103.855	104.571
B 249.678	248.273	248.766	248.954
Ba 389.178	115.865	116.057	116.744
Be 313.042	50.6724	50.7647	50.7392
Ca 370.602	15786	15775	15769
Cd 226.502	51.2131	51.3372	51.0677
Co 228.615	51.1837	50.6992	51.2274
Cr 267.716	108.305	108.481	108.336

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	104.816	104.122	103.757
Fe 271.441	5687.38	5699.64	5698.20
K 766.491	9415.60	9394.50	9417.56
Mg 279.078	8943.19	8940.40	8930.28
Mn 257.610	633.151	633.169	632.487
Mo 202.032	100.246	98.8595	99.3244
Na 330.237	89317.1	89134.2	89229.2
Ni 231.604	108.470	108.884	106.264
Pb 220.353	502.571	503.175	500.823
Sb 206.834	53.3264	52.6012	54.2150
Se 196.026	101.478	105.327	108.193
Sn 189.925	194.733	203.691	200.167
Sr 216.596	162.907	163.168	162.872
Ti 334.941	101.518	101.463	101.542
Tl 190.794	40.5349	39.9968	42.6187
V 292.401	103.931	103.603	104.059
Zn 206.200	112.357	107.192	111.706

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.4805b	ppb	0.2811	0.5	4716.55
Al 308.215	5143.32b	ppb	4.3166	0.1	38328.9
As 188.980	103.971b	ppb	0.5517	0.5	70.7096
B 249.678	248.664b	ppb	0.3514	0.1	4489.86
Ba 389.178	116.222b	ppb	0.4623	0.4	2638.19
Be 313.042	50.7254b	ppb	0.0477	0.1	96664.4
Ca 370.602	15777b	ppb	8.553	0.1	49453
Cd 226.502	51.2060b	ppb	0.1349	0.3	2354.63
Co 228.615	51.0367b	ppb	0.2932	0.6	570.557
Cr 267.716	108.374b	ppb	0.0938	0.1	5864.88
Cu 324.754	104.232b	ppb	0.5380	0.5	8843.78
Fe 271.441	5695.07b	ppb	6.7000	0.1	8974.23
K 766.491	9409.22b	ppb	12.7866	0.1	431648
Mg 279.078	8937.96b	ppb	6.7949	0.1	25815.3
Mn 257.610	632.936b	ppb	0.3887	0.1	144486
Mo 202.032	99.4766b	ppb	0.7057	0.7	651.350
Na 330.237	89226.9b	ppb	91.4795	0.1	4659.41
Ni 231.604	107.873b	ppb	1.4083	1.3	334.564
Pb 220.353	502.190b	ppb	1.2214	0.2	812.458
Sb 206.834	53.3809b	ppb	0.8082	1.5	78.3834
Se 196.026	104.999b	ppb	3.3696	3.2	50.1637
Sn 189.925	199.530b	ppb	4.5126	2.3	140.320
Sr 216.596	162.983b	ppb	0.1620	0.1	1939.33
Ti 334.941	101.508b	ppb	0.0403	0.0	29499.3
Tl 190.794	41.0501b	ppb	1.3848	3.4	34.6750
V 292.401	103.864b	ppb	0.2352	0.2	2936.74
Zn 206.200	110.418b	ppb	2.8130	2.5	116.355

680-110790-i-1-a (Samp) 3/23/2015, 5:44:37 PM Rack 1, Tube 56

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1973u	-0.1971u	-0.1531u
Al 308.215	43.2594	43.5368	44.0398
As 188.980	2.9507	-0.0733u	-1.1260u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	49.3417	49.1465	49.5880
Ba 389.178	85.2454	86.1021	86.0960
Be 313.042	0.0348	0.0379	0.0406
Ca 370.602	5284	5288	5309
Cd 226.502	0.0124	-0.0361u	-0.0002u
Co 228.615	0.4547	0.1968	-0.1154u
Cr 267.716	0.2462	0.4002	0.3407
Cu 324.754	0.5389	0.6356	0.7213
Fe 271.441	49.8161	46.0647	48.9867
K 766.491	1683.67	1679.51	1681.66
Mg 279.078	2826.07	2820.97	2834.99
Mn 257.610	189.358	189.673	190.109
Mo 202.032	0.2698	-0.4614u	0.0865
Na 330.237	96165.0x	96509.2x	96337.2x
Ni 231.604	2.1289	1.8168	1.6765
Pb 220.353	0.0727	0.4524	-0.0954u
Sb 206.834	0.1318	2.4823	1.2892
Se 196.026	-3.5099u	0.5419	-4.3609u
Sn 189.925	-2.7893u	0.0275	0.8893
Sr 216.596	30.3155	30.5177	30.7725
Ti 334.941	0.1008	0.0565	0.0639
Tl 190.794	1.5061	0.8908	-2.0237u
V 292.401	-0.3308u	0.0378	0.0770
Zn 206.200	10.1414	9.6707	10.7923

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1825b	ppb	0.0254	13.9	-18.2622
Al 308.215	43.6120b	ppb	0.3956	0.9	694.366
As 188.980	0.5838b	ppb	2.1163	362.5	-4.0054
B 249.678	49.3588b	ppb	0.2212	0.4	923.938
Ba 389.178	85.8145b	ppb	0.4929	0.6	1925.47
Be 313.042	0.0377b	ppb	0.0029	7.7	-401.747
Ca 370.602	5294b	ppb	13.42	0.3	16611
Cd 226.502	-0.0080b	ppb	0.0252	315.1	31.4987
Co 228.615	0.1787b	ppb	0.2855	159.8	-2.1938
Cr 267.716	0.3290b	ppb	0.0776	23.6	50.8109
Cu 324.754	0.6319b	ppb	0.0913	14.4	460.716
Fe 271.441	48.2892b	ppb	1.9706	4.1	84.1035
K 766.491	1681.61b	ppb	2.0844	0.1	77505.8
Mg 279.078	2827.34b	ppb	7.0915	0.3	8182.32
Mn 257.610	189.714b	ppb	0.3774	0.2	43356.0
Mo 202.032	-0.0350b	ppb	0.3804	1085.6	7.5463
Na 330.237	96337.1xb	ppb	172.070	0.2	5030.82
Ni 231.604	1.8741b	ppb	0.2315	12.4	2.4811
Pb 220.353	0.1432b	ppb	0.2806	195.9	9.5778
Sb 206.834	1.3011b	ppb	1.1753	90.3	2.9956
Se 196.026	-2.4430b	ppb	2.6198	107.2	-0.9888
Sn 189.925	-0.6242b	ppb	1.9239	308.2	-6.2238
Sr 216.596	30.5353b	ppb	0.2290	0.7	366.006
Ti 334.941	0.0737b	ppb	0.0237	32.2	-5.4405
Tl 190.794	0.1244b	ppb	1.8856	1515.7	-9.7650
V 292.401	-0.0720b	ppb	0.2250	312.4	-9.2491
Zn 206.200	10.2015b	ppb	0.5632	5.5	12.6457

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

680-110790-i-2-a (Samp) 3/23/2015, 5:49:22 PM Rack 1, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0475	0.1157	0.0372
Al 308.215	157.581	154.747	155.683
As 188.980	-0.9688u	-0.9668u	-0.8485u
B 249.678	19.8870	19.4477	19.6659
Ba 389.178	57.5694	57.4952	58.0734
Be 313.042	0.0890	0.0780	0.0866
Ca 370.602	2325	2318	2321
Cd 226.502	0.1002	-0.1765u	-0.0986u
Co 228.615	-0.1110u	0.0218	0.5529
Cr 267.716	1.3210	1.5906	1.4627
Cu 324.754	2.9155	2.8764	2.3428
Fe 271.441	581.923	588.535	585.804
K 766.491	2103.15	2103.19	2105.76
Mg 279.078	1657.92	1655.10	1652.24
Mn 257.610	26.7743	26.6685	26.6679
Mo 202.032	-0.3508u	0.6814	0.0942
Na 330.237	4973.67	4816.38	4912.98
Ni 231.604	1.9301	1.9949	2.3293
Pb 220.353	1.6326	0.6739	1.4733
Sb 206.834	0.9552	0.4190	0.9299
Se 196.026	3.3840	1.8493	2.0328
Sn 189.925	-2.8537u	-1.5656u	2.0019
Sr 216.596	24.2306	23.9488	24.1021
Ti 334.941	2.1493	2.2280	2.1971
Tl 190.794	-0.8000u	-1.5084u	-1.8286u
V 292.401	0.3896	0.4586	0.3925
Zn 206.200	33.3101	33.5136	30.3440

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0668	ppb	0.0427	63.9	3.4537
Al 308.215	156.004	ppb	1.4438	0.9	1523.53
As 188.980	-0.9281	ppb	0.0689	7.4	-5.1029
B 249.678	19.6669	ppb	0.2196	1.1	389.365
Ba 389.178	57.7127	ppb	0.3146	0.5	1281.48
Be 313.042	0.0845	ppb	0.0058	6.9	-302.878
Ca 370.602	2321	ppb	3.668	0.2	7290
Cd 226.502	-0.0583	ppb	0.1427	244.7	32.8805
Co 228.615	0.1546	ppb	0.3513	227.3	-2.3882
Cr 267.716	1.4581	ppb	0.1349	9.2	109.262
Cu 324.754	2.7116	ppb	0.3199	11.8	629.143
Fe 271.441	585.421	ppb	3.3223	0.6	929.100
K 766.491	2104.03	ppb	1.4972	0.1	96864.4
Mg 279.078	1655.09	ppb	2.8395	0.2	4800.88
Mn 257.610	26.7035	ppb	0.0613	0.2	6179.37
Mo 202.032	0.1416	ppb	0.5177	365.6	8.6653
Na 330.237	4901.01	ppb	79.3296	1.6	288.712
Ni 231.604	2.0848	ppb	0.2143	10.3	3.1874
Pb 220.353	1.2599	ppb	0.5137	40.8	11.3636
Sb 206.834	0.7680	ppb	0.3025	39.4	2.2427
Se 196.026	2.4220	ppb	0.8381	34.6	1.2866
Sn 189.925	-0.8058	ppb	2.5154	312.2	-6.3840
Sr 216.596	24.0938	ppb	0.1411	0.6	289.426

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	2.1915	ppb	0.0396	1.8	615.362
Tl 190.794	-1.3790	ppb	0.5264	38.2	-11.5918
V 292.401	0.4136	ppb	0.0390	9.4	5.0611
Zn 206.200	32.3893	ppb	1.7742	5.5	35.6267

680-110790-i-3-a (Samp) 3/23/2015, 5:54:07 PM Rack 1, Tube 58

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1493u	-0.0912u	-0.1360u
Al 308.215	432.895	433.471	431.730
As 188.980	-2.5909u	0.1683	-0.9199u
B 249.678	13.5825	13.3041	13.6471
Ba 389.178	103.348	103.432	103.204
Be 313.042	0.2421	0.2442	0.2416
Ca 370.602	2145	2142	2149
Cd 226.502	-0.0216	0.0931	0.0608
Co 228.615	3.2174	3.5219	3.2932
Cr 267.716	14.6866	14.5635	14.6399
Cu 324.754	100.783	101.598	101.612
Fe 271.441	1584.12	1579.89	1575.04
K 766.491	430.294	427.836	429.984
Mg 279.078	1802.14	1803.91	1794.57
Mn 257.610	386.327	385.868	385.599
Mo 202.032	0.0150	-0.0954u	-0.1943u
Na 330.237	2050.53	2158.44	2197.33
Ni 231.604	10.9850	11.2646	11.2235
Pb 220.353	17.3407	18.4841	14.4436
Sb 206.834	-2.1030u	3.0823	2.4548
Se 196.026	1.5886	-3.3670u	0.7283
Sn 189.925	2.8249	-1.4402u	-0.0467u
Sr 216.596	20.8932	21.8159	21.7817
Ti 334.941	0.9967	1.0679	1.0510
Tl 190.794	0.5894	-0.0463u	-1.4054u
V 292.401	0.1625	0.0265u	0.2673
Zn 206.200	133.323	130.596	134.825

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1255	ppb	0.0304	24.3	-11.9708
Al 308.215	432.699	ppb	0.8873	0.2	3564.54
As 188.980	-1.1142	ppb	1.3898	124.7	-5.2446
B 249.678	13.5112	ppb	0.1823	1.3	276.342
Ba 389.178	103.328	ppb	0.1157	0.1	2324.56
Be 313.042	0.2426	ppb	0.0014	0.6	0.1638
Ca 370.602	2145	ppb	3.520	0.2	6736
Cd 226.502	0.0441	ppb	0.0591	134.1	43.1390
Co 228.615	3.3442	ppb	0.1585	4.7	33.6120
Cr 267.716	14.6300	ppb	0.0622	0.4	819.817
Cu 324.754	101.331	ppb	0.4747	0.5	8604.47
Fe 271.441	1579.69	ppb	4.5429	0.3	2493.64
K 766.491	429.371	ppb	1.3384	0.3	20117.9
Mg 279.078	1800.21	ppb	4.9606	0.3	5211.93
Mn 257.610	385.931	ppb	0.3683	0.1	88094.3
Mo 202.032	-0.0916	ppb	0.1047	114.3	7.1117

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	2135.43	ppb	76.0578	3.6	143.805
Ni 231.604	11.1577	ppb	0.1510	1.4	31.6587
Pb 220.353	16.7561	ppb	2.0827	12.4	36.2859
Sb 206.834	1.1447	ppb	2.8300	247.2	2.9833
Se 196.026	-0.3500	ppb	2.6479	756.5	0.0655
Sn 189.925	0.4460	ppb	2.1748	487.6	-5.4684
Sr 216.596	21.4969	ppb	0.5231	2.4	259.695
Ti 334.941	1.0385	ppb	0.0372	3.6	280.735
Tl 190.794	-0.2874	ppb	1.0191	354.5	-10.3510
V 292.401	0.1521	ppb	0.1208	79.4	-3.3924
Zn 206.200	132.915	ppb	2.1439	1.6	139.680

680-110790-i-4-a (Samp) 3/23/2015, 5:58:51 PM Rack 1, Tube 59
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1214u	-0.1179u	-0.0934u
Al 308.215	186.927	187.927	185.690
As 188.980	-2.2731u	-1.8380u	-5.5470u
B 249.678	17.6119	17.7466	17.7766
Ba 389.178	47.0040	46.3708	47.1674
Be 313.042	0.1564	0.1558	0.1577
Ca 370.602	2629	2625	2629
Cd 226.502	-0.2688u	-0.2201u	-0.1835u
Co 228.615	0.0106	-0.8194u	-0.1829u
Cr 267.716	1.1646	1.2035	1.0533
Cu 324.754	0.3833	0.1061	0.3922
Fe 271.441	1133.20	1124.31	1127.15
K 766.491	1924.68	1927.03	1925.84
Mg 279.078	1152.29	1159.09	1154.46
Mn 257.610	29.9685	29.9502	29.9720
Mo 202.032	0.1400	0.1441	-0.2874u
Na 330.237	4613.92	4391.36	4615.08
Ni 231.604	1.1640	0.6279	1.7853
Pb 220.353	1.0159	-3.0749u	0.1623
Sb 206.834	2.2152	0.5042	1.2478
Se 196.026	0.6947	0.4636	0.1008
Sn 189.925	-1.5073u	0.2657	-2.7836u
Sr 216.596	82.6279	82.4376	82.5227
Ti 334.941	2.0689	2.0262	2.0816
Tl 190.794	2.2711	-0.4151u	0.1648
V 292.401	0.4516	0.3308	0.2449
Zn 206.200	14.1573	14.9709	16.3755

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1109	ppb	0.0153	13.8	-14.7288
Al 308.215	186.848	ppb	1.1207	0.6	1751.10
As 188.980	-3.2194	ppb	2.0275	63.0	-6.7642
B 249.678	17.7117	ppb	0.0877	0.5	352.907
Ba 389.178	46.8474	ppb	0.4208	0.9	1032.66
Be 313.042	0.1567	ppb	0.0009	0.6	-164.576
Ca 370.602	2628	ppb	1.772	0.1	8243
Cd 226.502	-0.2241	ppb	0.0428	19.1	28.5493
Co 228.615	-0.3306	ppb	0.4342	131.4	-7.8148

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	1.1405	ppb	0.0780	6.8	92.4520
Cu 324.754	0.2938	ppb	0.1627	55.4	433.888
Fe 271.441	1128.22	ppb	4.5404	0.4	1782.98
K 766.491	1925.85	ppb	1.1712	0.1	88698.7
Mg 279.078	1155.28	ppb	3.4704	0.3	3357.57
Mn 257.610	29.9636	ppb	0.0117	0.0	6920.41
Mo 202.032	-0.0011	ppb	0.2480	22543.1	7.7172
Na 330.237	4540.12	ppb	128.831	2.8	270.073
Ni 231.604	1.1924	ppb	0.5792	48.6	0.4426
Pb 220.353	-0.6322	ppb	2.1580	341.3	8.3759
Sb 206.834	1.3224	ppb	0.8579	64.9	3.0558
Se 196.026	0.4197	ppb	0.2994	71.3	0.3422
Sn 189.925	-1.3417	ppb	1.5314	114.1	-6.7765
Sr 216.596	82.5294	ppb	0.0954	0.1	981.297
Ti 334.941	2.0589	ppb	0.0290	1.4	576.028
Tl 190.794	0.6736	ppb	1.4136	209.9	-9.4127
V 292.401	0.3424	ppb	0.1038	30.3	2.8495
Zn 206.200	15.1679	ppb	1.1221	7.4	17.8210

680-110790-i-6-a (Samp)

3/23/2015, 6:03:37 PM

Rack 1, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0821u	-0.0966u	-0.1002u
Al 308.215	97.0876	96.9292	97.5023
As 188.980	-1.4634u	-2.7835u	-4.4832u
B 249.678	9.6847	9.6281	9.4357
Ba 389.178	113.793	113.387	113.422
Be 313.042	0.4657	0.4587	0.4630
Ca 370.602	4891	4889	4898
Cd 226.502	-0.0515u	0.0540	-0.0313
Co 228.615	6.0896	5.6787	5.9375
Cr 267.716	0.1673	0.3584	0.4378
Cu 324.754	3.6872	3.4137	3.6834
Fe 271.441	333.757	337.482	332.538
K 766.491	1291.84	1290.22	1291.76
Mg 279.078	3669.17	3659.83	3668.53
Mn 257.610	53.2343	53.0185	53.0853
Mo 202.032	-0.2455u	-0.2576u	-0.0883u
Na 330.237	30480.1	30480.2	30241.7
Ni 231.604	8.2077	8.8650	9.7479
Pb 220.353	6.9645	6.1330	4.8285
Sb 206.834	-1.4026u	0.3202	-1.5686u
Se 196.026	-0.3071u	-2.6284u	5.1143
Sn 189.925	1.1373	-1.7007u	-1.6216u
Sr 216.596	46.5460	45.7754	46.3577
Ti 334.941	0.0156	0.0822	0.0460
Tl 190.794	-2.8485u	0.4778	0.4084
V 292.401	-0.0046u	-0.0713u	-0.2155u
Zn 206.200	50.6077	50.2087	49.9891

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0929	ppb	0.0096	10.3	-11.5829
Al 308.215	97.1730	ppb	0.2959	0.3	1089.43

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-2.9100	ppb	1.5139	52.0	-6.5347
B 249.678	9.5829	ppb	0.1305	1.4	208.866
Ba 389.178	113.534	ppb	0.2251	0.2	2560.68
Be 313.042	0.4625	ppb	0.0035	0.8	418.906
Ca 370.602	4893	ppb	4.586	0.1	15348
Cd 226.502	-0.0096	ppb	0.0560	583.9	33.5076
Co 228.615	5.9019	ppb	0.2078	3.5	62.2908
Cr 267.716	0.3212	ppb	0.1390	43.3	48.6108
Cu 324.754	3.5948	ppb	0.1569	4.4	700.440
Fe 271.441	334.592	ppb	2.5755	0.8	535.154
K 766.491	1291.27	ppb	0.9151	0.1	59617.3
Mg 279.078	3665.85	ppb	5.2161	0.1	10606.5
Mn 257.610	53.1127	ppb	0.1105	0.2	12216.5
Mo 202.032	-0.1971	ppb	0.0945	47.9	6.4842
Na 330.237	30400.7	ppb	137.644	0.5	1610.92
Ni 231.604	8.9402	ppb	0.7729	8.6	24.6050
Pb 220.353	5.9753	ppb	1.0767	18.0	18.8902
Sb 206.834	-0.8837	ppb	1.0458	118.4	-0.1659
Se 196.026	0.7262	ppb	3.9734	547.1	0.4857
Sn 189.925	-0.7284	ppb	1.6162	221.9	-6.3198
Sr 216.596	46.2264	ppb	0.4018	0.9	551.611
Ti 334.941	0.0480	ppb	0.0334	69.5	-6.3352
Tl 190.794	-0.6541	ppb	1.9007	290.6	-10.7231
V 292.401	-0.0971	ppb	0.1078	111.0	-9.5334
Zn 206.200	50.2685	ppb	0.3136	0.6	54.1256

Cont Calib Verif (CCV) 3/23/2015, 6:08:21 PM Rack 2, Tube 1
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	482.274	479.843	480.151
Al 308.215	4738.91	4710.03	4739.98
As 188.980	484.242	480.410	481.288
B 249.678	475.351	475.023	479.633
Ba 389.178	4830.32	4805.55	4827.25
Be 313.042	485.596	482.386	486.861
Ca 370.602	4860	4817	4852
Cd 226.502	484.376	482.294	484.867
Co 228.615	490.493	487.067	491.267
Cr 267.716	4935.65	4905.67	4931.45
Cu 324.754	4987.73	4944.30	4967.67
Fe 271.441	4827.04	4798.87	4816.75
K 766.491	10021.0	9962.20	10001.2
Mg 279.078	4821.21	4790.22	4827.57
Mn 257.610	4913.70	4888.22	4919.53
Mo 202.032	479.281	478.348	484.696
Na 330.237	7243.62	7183.75	7378.96
Ni 231.604	2448.87	2433.20	2450.28
Pb 220.353	479.566	479.292	485.245
Sb 206.834	960.568	963.023	967.110
Se 196.026	4842.91	4807.23	4836.96
Sn 189.925	4808.80	4773.24	4783.11
Sr 216.596	2418.16	2408.74	2427.15
Ti 334.941	482.433	479.551	481.015

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	4897.23	4880.89	4883.75
V 292.401	4832.12	4806.62	4830.25
Zn 206.200	2424.65	2408.85	2439.26

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	480.756	ppb	1.3237	0.3	43202.2	96.15117
Al 308.215	4729.64	ppb	16.9940	0.4	35973.9	94.59281
As 188.980	481.980	ppb	2.0076	0.4	344.033	96.39596
B 249.678	476.669	ppb	2.5720	0.5	8601.27	95.33376
Ba 389.178	4821.04	ppb	13.5014	0.3	110113	96.42088
Be 313.042	484.948	ppb	2.3067	0.5	928455	96.98956
Ca 370.602	4843	ppb	22.72	0.5	15556	96.86105
Cd 226.502	483.846	ppb	1.3659	0.3	21702.9	96.76918
Co 228.615	489.609	ppb	2.2354	0.5	5515.68	97.92175
Cr 267.716	4924.25	ppb	16.2319	0.3	264831	98.48508
Cu 324.754	4966.56	ppb	21.7370	0.4	401977	99.33126
Fe 271.441	4814.22	ppb	14.2574	0.3	7678.77	96.28436
K 766.491	9994.81	ppb	29.9322	0.3	458484	99.94813
Mg 279.078	4813.00	ppb	19.9848	0.4	13810.5	96.25998
Mn 257.610	4907.15	ppb	16.6497	0.3	1119052	98.14300
Mo 202.032	480.775	ppb	3.4275	0.7	3114.74	96.15502
Na 330.237	7268.78	ppb	100.008	1.4	381.107	96.91702
Ni 231.604	2444.12	ppb	9.4812	0.4	7644.60	97.76475
Pb 220.353	481.367	ppb	3.3607	0.7	783.094	96.27345
Sb 206.834	963.567	ppb	3.3048	0.3	1456.59	96.35670
Se 196.026	4829.03	ppb	19.1153	0.4	2293.28	96.58057
Sn 189.925	4788.38	ppb	18.3558	0.4	3500.10	95.76767
Sr 216.596	2418.02	ppb	9.2013	0.4	28532.8	96.72063
Ti 334.941	480.999	ppb	1.4409	0.3	139838	96.19990
Tl 190.794	4887.29	ppb	8.7258	0.2	5389.40	97.74571
V 292.401	4822.99	ppb	14.2140	0.3	137644	96.45988
Zn 206.200	2424.25	ppb	15.2092	0.6	2501.88	96.97007

Cont Calib Blank (CCB) 3/23/2015, 6:13:05 PM Rack 2, Tube 2
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2006	0.0852	-0.2212u
Al 308.215	2.7638	1.8197	2.9326
As 188.980	-3.2453u	0.3207	-1.3134u
B 249.678	7.0017	5.8118	5.6777
Ba 389.178	-0.0657u	-0.4237u	-0.9176u
Be 313.042	0.0342	0.0305	0.0287
Ca 370.602	1.779	-0.7858u	1.043
Cd 226.502	-0.0286u	-0.0209u	-0.0175u
Co 228.615	-0.1861u	-0.3529u	-0.2962u
Cr 267.716	0.2522	0.1009	0.1728
Cu 324.754	-0.2416u	-0.2015u	-0.1935u
Fe 271.441	2.0403	-0.4184u	0.3489
K 766.491	-2.7002u	-3.0005u	-3.0553u
Mg 279.078	-0.9420u	-0.0663u	-0.5376u
Mn 257.610	0.0903	0.0607	0.0541
Mo 202.032	-0.1764u	-0.2789u	-0.2605u
Na 330.237	66.9117	-20.5374u	-64.6851u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	-0.1003u	-0.0765u	1.2826
Pb 220.353	-0.6752u	-0.6975u	-0.4780u
Sb 206.834	0.0235	0.5116	1.2602
Se 196.026	-5.0343u	4.1655	-6.8305u
Sn 189.925	0.4520	-0.0224u	1.2360
Sr 216.596	0.2445	-0.0165u	-0.0957u
Ti 334.941	0.1030	0.1076	0.0710
Tl 190.794	3.0839	2.8487	3.3443
V 292.401	-0.0995u	0.0887	0.2127
Zn 206.200	-0.3514u	-1.7470u	-1.7242u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0215	ppb	0.2180	1013.2	0.2353	0.02151
Al 308.215	2.5054	ppb	0.5998	23.9	391.171	2.50538
As 188.980	-1.4127	ppb	1.7850	126.4	-5.4492	-1.41266
B 249.678	6.1637	ppb	0.7288	11.8	148.313	6.16374
Ba 389.178	-0.4690	ppb	0.4278	91.2	-51.5273	-0.46901
Be 313.042	0.0311	ppb	0.0028	8.9	-405.219	0.03112
Ca 370.602	0.6786	ppb	1.321	194.6	24.16	0.67862
Cd 226.502	-0.0223	ppb	0.0057	25.6	31.1927	-0.02231
Co 228.615	-0.2784	ppb	0.0848	30.5	-7.3438	-0.27843
Cr 267.716	0.1753	ppb	0.0757	43.2	39.7736	0.17531
Cu 324.754	-0.2122	ppb	0.0258	12.2	392.425	-0.21222
Fe 271.441	0.6569	ppb	1.2580	191.5	9.1251	0.65693
K 766.491	-2.9187	ppb	0.1912	6.6	306.852	-2.91867
Mg 279.078	-0.5153	ppb	0.4383	85.1	20.8687	-0.51530
Mn 257.610	0.0684	ppb	0.0193	28.2	90.8851	0.06836
Mo 202.032	-0.2386	ppb	0.0547	22.9	6.2301	-0.23864
Na 330.237	-6.1036	ppb	66.9752	1097.3	34.8056	-6.10358
Ni 231.604	0.3686	ppb	0.7917	214.8	-2.2328	0.36860
Pb 220.353	-0.6169	ppb	0.1208	19.6	8.3210	-0.61690
Sb 206.834	0.5985	ppb	0.6229	104.1	1.9755	0.59847
Se 196.026	-2.5664	ppb	5.8988	229.8	-1.0927	-2.56643
Sn 189.925	0.5552	ppb	0.6355	114.5	-5.3890	0.55518
Sr 216.596	0.0441	ppb	0.1780	403.3	3.4835	0.04414
Ti 334.941	0.0939	ppb	0.0200	21.3	2.8566	0.09387
Tl 190.794	3.0923	ppb	0.2479	8.0	-6.5832	3.09230
V 292.401	0.0673	ppb	0.1572	233.6	-4.4917	0.06729
Zn 206.200	-1.2742	ppb	0.7993	62.7	0.7671	-1.27422

680-110790-i-7-a (Samp)

3/23/2015, 6:17:49 PM

Rack 2, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1983u	0.1600	-0.0967u
Al 308.215	312.638	319.956	313.114
As 188.980	1.1794	3.2398	-0.5231u
B 249.678	31.2886	32.0541	31.2069
Ba 389.178	95.6912	98.0890	96.1344
Be 313.042	0.1992	0.1932	0.2011
Ca 370.602	3994	4066	4006
Cd 226.502	0.0522	-0.0412	-0.0226
Co 228.615	1.7913	1.3284	1.3903
Cr 267.716	2.1116	2.2120	2.1448

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	1.4777	1.6021	1.5381
Fe 271.441	469.064	477.755	476.562
K 766.491	1629.32	1655.04	1622.44
Mg 279.078	1986.23	2013.43	1981.76
Mn 257.610	384.489	390.142	383.691
Mo 202.032	0.0029u	-0.0224u	-0.1170u
Na 330.237	6644.08	6860.48	6899.47
Ni 231.604	2.5621	2.1046	2.0792
Pb 220.353	0.1066	2.7321	3.2975
Sb 206.834	-0.5262u	1.2984	3.0059
Se 196.026	-8.6924u	-1.0001u	-6.6070u
Sn 189.925	-0.0785u	1.0483	-0.9294u
Sr 216.596	28.4510	28.6462	28.1452
Ti 334.941	2.6480	2.6068	2.5206
Tl 190.794	2.3143	-2.1377u	-1.1815u
V 292.401	0.5697	0.3241	0.6708
Zn 206.200	23.6340	22.5715	21.2977

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0450	ppb	0.1847	410.4	-4.7905
Al 308.215	315.236	ppb	4.0948	1.3	2698.05
As 188.980	1.2987	ppb	1.8843	145.1	-3.4913
B 249.678	31.5165	ppb	0.4673	1.5	602.455
Ba 389.178	96.6382	ppb	1.2758	1.3	2171.28
Be 313.042	0.1979	ppb	0.0041	2.1	-85.5022
Ca 370.602	4022	ppb	38.92	1.0	12630
Cd 226.502	-0.0039	ppb	0.0494	1276.8	34.6670
Co 228.615	1.5033	ppb	0.2513	16.7	12.8093
Cr 267.716	2.1561	ppb	0.0511	2.4	148.528
Cu 324.754	1.5393	ppb	0.0622	4.0	534.288
Fe 271.441	474.460	ppb	4.7114	1.0	754.714
K 766.491	1635.60	ppb	17.1838	1.1	75397.1
Mg 279.078	1993.81	ppb	17.1402	0.9	5771.00
Mn 257.610	386.107	ppb	3.5170	0.9	88132.6
Mo 202.032	-0.0455	ppb	0.0632	138.9	7.4589
Na 330.237	6801.35	ppb	137.581	2.0	387.410
Ni 231.604	2.2486	ppb	0.2718	12.1	3.6867
Pb 220.353	2.0454	ppb	1.7026	83.2	12.6844
Sb 206.834	1.2594	ppb	1.7664	140.3	2.9660
Se 196.026	-5.4332	ppb	3.9782	73.2	-2.3573
Sn 189.925	0.0135	ppb	0.9921	7369.0	-5.7837
Sr 216.596	28.4141	ppb	0.2525	0.9	341.021
Ti 334.941	2.5918	ppb	0.0650	2.5	732.202
Tl 190.794	-0.3350	ppb	2.3436	699.6	-10.2331
V 292.401	0.5215	ppb	0.1783	34.2	8.1752
Zn 206.200	22.5011	ppb	1.1697	5.2	25.3869

680-110790-i-8-a (Samp)

3/23/2015, 6:22:33 PM

Rack 2, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5276u	-0.3915u	-0.4991u
Al 308.215	14669.8	14756.0	14683.7
As 188.980	1.0468	0.6393	-0.8597u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	72.0878	72.1888	72.6140
Ba 389.178	97.4844	97.1869	96.7018
Be 313.042	0.4133	0.4178	0.4174
Ca 370.602	6940	6997	6934
Cd 226.502	0.0579	0.0167	-0.0215
Co 228.615	16.9957	17.0389	17.5339
Cr 267.716	9.0366	9.0168	8.9421
Cu 324.754	22.1791	22.8078	22.3465
Fe 271.441	2418.74	2428.36	2402.50
K 766.491	3442.53	3467.34	3444.64
Mg 279.078	4094.29	4129.83	4097.54
Mn 257.610	437.981	440.703	437.523
Mo 202.032	0.7365	0.7036	1.4530
Na 330.237	161674x	162983x	162303x
Ni 231.604	13.4126	14.4986	13.8185
Pb 220.353	4.3162	3.0434	-0.6645u
Sb 206.834	-1.7057u	0.9455	1.6134
Se 196.026	3.8263	6.9403	2.3050
Sn 189.925	0.0475	1.9438	-1.0822u
Sr 216.596	87.7458	89.5009	87.6599
Ti 334.941	0.0689	0.0624	0.0684
Tl 190.794	0.4698	-1.7625u	2.2443
V 292.401	1.5626	1.8701	1.6569
Zn 206.200	40.7781	41.6148	42.9493

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4727b	ppb	0.0718	15.2	-45.4669
Al 308.215	14703.2b	ppb	46.2873	0.3	108827
As 188.980	0.2755b	ppb	1.0040	364.4	-4.2456
B 249.678	72.2969b	ppb	0.2792	0.4	1329.94
Ba 389.178	97.1244b	ppb	0.3950	0.4	2188.41
Be 313.042	0.4161b	ppb	0.0025	0.6	317.274
Ca 370.602	6957b	ppb	34.98	0.5	21803
Cd 226.502	0.0177b	ppb	0.0397	224.3	45.7642
Co 228.615	17.1895b	ppb	0.2991	1.7	189.557
Cr 267.716	8.9985b	ppb	0.0498	0.6	520.781
Cu 324.754	22.4445b	ppb	0.3256	1.5	2225.74
Fe 271.441	2416.53b	ppb	13.0701	0.5	3811.70
K 766.491	3451.51b	ppb	13.7555	0.4	158617
Mg 279.078	4107.22b	ppb	19.6445	0.5	11866.7
Mn 257.610	438.736b	ppb	1.7187	0.4	100155
Mo 202.032	0.9643b	ppb	0.4235	43.9	13.9076
Na 330.237	162320xb	ppb	654.654	0.4	8451.57
Ni 231.604	13.9099b	ppb	0.5487	3.9	40.3159
Pb 220.353	2.2317b	ppb	2.5877	116.0	12.9237
Sb 206.834	0.2844b	ppb	1.7555	617.2	1.6630
Se 196.026	4.3572b	ppb	2.3628	54.2	2.3201
Sn 189.925	0.3030b	ppb	1.5291	504.6	-5.5254
Sr 216.596	88.3022b	ppb	1.0390	1.2	1052.47
Ti 334.941	0.0665b	ppb	0.0036	5.4	-9.3113
Tl 190.794	0.3172b	ppb	2.0078	632.9	-9.7518
V 292.401	1.6965b	ppb	0.1575	9.3	39.1915
Zn 206.200	41.7807b	ppb	1.0950	2.6	45.3940

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

680-110790-i-9-a (Samp) **3/23/2015, 6:27:16 PM** **Rack 2, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6088u	-0.6258u	-0.9610u
Al 308.215	8320.96	8321.38	8501.56
As 188.980	1.0122	2.6111	1.5123
B 249.678	25.3417	25.8202	26.2350
Ba 389.178	23.1652	23.6787	23.7245
Be 313.042	0.4321	0.4266	0.4323
Ca 370.602	21539	21570	22040
Cd 226.502	0.1203	0.0131	0.1873
Co 228.615	2.4207	2.8894	3.0608
Cr 267.716	3.0848	3.1736	3.2149
Cu 324.754	10.3890	10.3526	10.7972
Fe 271.441	918.501	923.095	943.305
K 766.491	2093.18	2095.23	2140.76
Mg 279.078	7364.54	7360.01	7527.52
Mn 257.610	164.248	164.381	167.920
Mo 202.032	0.3030	0.3691	-0.0190u
Na 330.237	59352.4	59352.6	60774.4
Ni 231.604	4.6337	5.0746	6.2005
Pb 220.353	8.8956	9.3403	10.3301
Sb 206.834	1.5700	2.8362	0.8884
Se 196.026	9.5570	3.5351	-2.8191u
Sn 189.925	-2.2011u	-3.7255u	0.1668
Sr 216.596	239.068	237.725	242.881
Ti 334.941	4.5078	4.4948	4.5913
Tl 190.794	2.2370	-2.1096u	-0.6116u
V 292.401	1.7406	1.5297	1.7942
Zn 206.200	55.3725	58.0032	57.0143

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7319	ppb	0.1987	27.1	-75.6417
Al 308.215	8381.30	ppb	104.149	1.2	62195.2
As 188.980	1.7119	ppb	0.8179	47.8	-3.1958
B 249.678	25.7990	ppb	0.4470	1.7	498.645
Ba 389.178	23.5228	ppb	0.3105	1.3	512.979
Be 313.042	0.4304	ppb	0.0032	0.8	360.914
Ca 370.602	21717	ppb	280.7	1.3	68056
Cd 226.502	0.1069	ppb	0.0879	82.2	41.9704
Co 228.615	2.7903	ppb	0.3313	11.9	27.3753
Cr 267.716	3.1578	ppb	0.0665	2.1	202.631
Cu 324.754	10.5129	ppb	0.2469	2.3	1260.15
Fe 271.441	928.301	ppb	13.1957	1.4	1468.82
K 766.491	2109.72	ppb	26.8970	1.3	97125.2
Mg 279.078	7417.36	ppb	95.4292	1.3	21433.5
Mn 257.610	165.516	ppb	2.0826	1.3	37878.8
Mo 202.032	0.2177	ppb	0.2076	95.4	9.1409
Na 330.237	59826.5	ppb	820.933	1.4	3136.66
Ni 231.604	5.3029	ppb	0.8079	15.2	13.2853
Pb 220.353	9.5220	ppb	0.7343	7.7	24.5080
Sb 206.834	1.7649	ppb	0.9884	56.0	3.7160
Se 196.026	3.4243	ppb	6.1888	180.7	1.7985
Sn 189.925	-1.9199	ppb	1.9613	102.2	-7.1834
Sr 216.596	239.891	ppb	2.6747	1.1	2848.82

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	4.5313	ppb	0.0524	1.2	1302.05
Tl 190.794	-0.1614	ppb	2.2080	1367.8	-10.2230
V 292.401	1.6882	ppb	0.1399	8.3	40.8826
Zn 206.200	56.7967	ppb	1.3288	2.3	60.8971

680-110790-i-11-a (Samp) 3/23/2015, 6:32:00 PM Rack 2, Tube 6
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0693u	0.1758	0.2080
Al 308.215	15.0618	16.3525	16.5379
As 188.980	7.3633	3.5561	6.0172
B 249.678	15.6955	15.4374	16.3084
Ba 389.178	37.5877	36.9621	37.3358
Be 313.042	0.0217	0.0201	0.0164
Ca 370.602	3025	3026	3044
Cd 226.502	-0.2245	-0.2077	-0.2952
Co 228.615	-0.2555u	-0.3751u	-0.2255u
Cr 267.716	2.4051	2.3346	2.3003
Cu 324.754	0.2329	-0.0733u	0.1688
Fe 271.441	8911.78	8932.21	8964.86
K 766.491	718.965	722.142	723.374
Mg 279.078	3497.53	3503.71	3520.80
Mn 257.610	158.586	158.948	159.766
Mo 202.032	2.1236	1.8092	1.8020
Na 330.237	28146.1	28290.5	28356.3
Ni 231.604	1.8166	2.8121	2.1989
Pb 220.353	1.6856	-0.3665	-0.6118u
Sb 206.834	1.2896	-1.4502u	1.0479
Se 196.026	6.0184	3.9435	7.4543
Sn 189.925	-0.2443u	-1.6553u	-5.3963u
Sr 216.596	30.2692	29.8542	30.4776
Ti 334.941	0.1261	0.1288	0.1328
Tl 190.794	-2.7329u	2.5853	2.4556
V 292.401	0.1326u	0.1118u	0.1021u
Zn 206.200	10.4142	10.3551	9.9927

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1048	ppb	0.1517	144.7	5.8043
Al 308.215	15.9841	ppb	0.8041	5.0	491.681
As 188.980	5.6456	ppb	1.9306	34.2	-0.4081
B 249.678	15.8138	ppb	0.4474	2.8	299.254
Ba 389.178	37.2952	ppb	0.3148	0.8	825.633
Be 313.042	0.0194	ppb	0.0027	14.0	-430.558
Ca 370.602	3032	ppb	10.80	0.4	9423
Cd 226.502	-0.2424	ppb	0.0464	19.1	72.1695
Co 228.615	-0.2854	ppb	0.0791	27.7	-6.8725
Cr 267.716	2.3467	ppb	0.0535	2.3	162.117
Cu 324.754	0.1095	ppb	0.1615	147.5	422.815
Fe 271.441	8936.28	ppb	26.7752	0.3	14066.4
K 766.491	721.494	ppb	2.2751	0.3	33505.3
Mg 279.078	3507.35	ppb	12.0535	0.3	10146.6
Mn 257.610	159.100	ppb	0.6047	0.4	36409.4
Mo 202.032	1.9116	ppb	0.1836	9.6	19.7493

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	28264.3	ppb	107.522	0.4	1498.42
Ni 231.604	2.2758	ppb	0.5022	22.1	4.5096
Pb 220.353	0.2357	ppb	1.2616	535.2	10.3227
Sb 206.834	0.2958	ppb	1.5169	512.8	1.6948
Se 196.026	5.8054	ppb	1.7650	30.4	3.0023
Sn 189.925	-2.4319	ppb	2.6624	109.5	-7.5678
Sr 216.596	30.2003	ppb	0.3174	1.1	372.638
Ti 334.941	0.1292	ppb	0.0034	2.6	18.2178
Tl 190.794	0.7693	ppb	3.0337	394.3	-10.4824
V 292.401	0.1155	ppb	0.0156	13.5	-7.3632
Zn 206.200	10.2540	ppb	0.2282	2.2	12.9963

680-110790-i-12-a (Samp) 3/23/2015, 6:36:44 PM Rack 2, Tube 7
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.7216u	-3.4905u	-3.8012u
Al 308.215	22033.7	21930.7	21949.8
As 188.980	5.8533	8.3003	6.5820
B 249.678	55.0564	54.8749	54.3603
Ba 389.178	136.148	135.257	135.660
Be 313.042	4.7405	4.7189	4.7310
Ca 370.602	39712	39470	39498
Cd 226.502	1.5443	1.6088	1.3664
Co 228.615	21.2205	21.3042	21.6577
Cr 267.716	4.7698	4.6263	4.5777
Cu 324.754	123.186	123.647	123.393
Fe 271.441	419.682	404.206	405.198
K 766.491	6269.17	6250.13	6243.39
Mg 279.078	27409.3	27264.7	27287.1
Mn 257.610	683.131	679.526	679.422
Mo 202.032	0.2507	-0.2954u	-0.0233u
Na 330.237	15050.1	15115.8	15096.9
Ni 231.604	26.0463	25.9154	24.4629
Pb 220.353	13.8413	12.8831	13.7399
Sb 206.834	0.2494	2.1168	-1.5386u
Se 196.026	2.6146	4.9606	5.1191
Sn 189.925	-2.1549u	-0.3744u	0.7347
Sr 216.596	385.337	384.225	384.946
Ti 334.941	0.3356	0.2999	0.3639
Tl 190.794	1.7355	1.3363	1.6807
V 292.401	0.9669	0.6436	0.4889
Zn 206.200	165.408	162.014	163.243

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.6711	ppb	0.1614	4.4	-342.757
Al 308.215	21971.4	ppb	54.8244	0.2	162438
As 188.980	6.9119	ppb	1.2564	18.2	0.5695
B 249.678	54.7639	ppb	0.3611	0.7	1020.10
Ba 389.178	135.688	ppb	0.4465	0.3	3116.97
Be 313.042	4.7301	ppb	0.0108	0.2	8607.03
Ca 370.602	39560	ppb	132.9	0.3	123978
Cd 226.502	1.5065	ppb	0.1256	8.3	102.194
Co 228.615	21.3941	ppb	0.2321	1.1	236.811

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	4.6579	ppb	0.0999	2.1	284.838
Cu 324.754	123.408	ppb	0.2311	0.2	10389.2
Fe 271.441	409.695	ppb	8.6627	2.1	655.088
K 766.491	6254.23	ppb	13.3717	0.2	287060
Mg 279.078	27320.4	ppb	77.8551	0.3	78888.0
Mn 257.610	680.693	ppb	2.1124	0.3	155508
Mo 202.032	-0.0227	ppb	0.2731	1204.3	7.6093
Na 330.237	15087.6	ppb	33.8309	0.2	815.409
Ni 231.604	25.4749	ppb	0.8788	3.4	76.3266
Pb 220.353	13.4881	ppb	0.5264	3.9	30.7268
Sb 206.834	0.2759	ppb	1.8278	662.6	1.5764
Se 196.026	4.2315	ppb	1.4024	33.1	2.2991
Sn 189.925	-0.5982	ppb	1.4577	243.7	-6.2290
Sr 216.596	384.836	ppb	0.5641	0.1	4568.23
Ti 334.941	0.3331	ppb	0.0321	9.6	120.519
Tl 190.794	1.5842	ppb	0.2164	13.7	-7.8990
V 292.401	0.6998	ppb	0.2439	34.9	13.2565
Zn 206.200	163.555	ppb	1.7181	1.1	171.373

680-110790-i-13-a (Samp) 3/23/2015, 6:41:29 PM Rack 2, Tube 8
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4896u	-1.0735u	-1.6323u
Al 308.215	3365.10	3359.78	3338.58
As 188.980	7.2069	4.5398	7.2435
B 249.678	86.1110	85.7606	86.2576
Ba 389.178	11.5729	11.3799	12.4168
Be 313.042	2.0461	2.0491	2.0330
Ca 370.602	43941	43948	43606
Cd 226.502	-0.5836	-0.7714	-0.6720
Co 228.615	17.2870	17.0409	16.6230
Cr 267.716	1.8241	1.3898	1.7005
Cu 324.754	0.3160	0.2894	-0.0842
Fe 271.441	16390.5	16394.6	16253.6
K 766.491	13510.8	13467.8	13422.2
Mg 279.078	33015.9	33011.3	32753.7
Mn 257.610	874.474	873.816	865.760
Mo 202.032	0.6272	-0.1831u	-0.2060u
Na 330.237	27530.8	27488.0	27238.3
Ni 231.604	46.0233	47.3392	47.1386
Pb 220.353	2.3919	-0.4067	2.4802
Sb 206.834	-0.8522u	0.0824	1.5243
Se 196.026	5.1716	-5.1056u	4.0553
Sn 189.925	-0.0735u	-1.1659u	-1.9043u
Sr 216.596	1204.44	1202.05	1192.45
Ti 334.941	3.3156	3.2948	3.2230
Tl 190.794	1.1140u	3.0548	0.5801u
V 292.401	10.4398	9.8140	9.8436
Zn 206.200	107.559	111.998	106.048

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3985	ppb	0.2903	20.8	-169.832
Al 308.215	3354.49	ppb	14.0322	0.4	25119.3

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	6.3301	ppb	1.5505	24.5	0.0348
B 249.678	86.0430	ppb	0.2554	0.3	1541.99
Ba 389.178	11.7899	ppb	0.5515	4.7	311.277
Be 313.042	2.0427	ppb	0.0085	0.4	3458.16
Ca 370.602	43832	ppb	195.5	0.4	137187
Cd 226.502	-0.6757	ppb	0.0940	13.9	95.4249
Co 228.615	16.9836	ppb	0.3357	2.0	188.260
Cr 267.716	1.6381	ppb	0.2238	13.7	130.920
Cu 324.754	0.1737	ppb	0.2238	128.8	431.308
Fe 271.441	16346.2	ppb	80.2795	0.5	25725.5
K 766.491	13466.9	ppb	44.3229	0.3	617606
Mg 279.078	32927.0	ppb	150.074	0.5	95080.6
Mn 257.610	871.350	ppb	4.8526	0.6	199077
Mo 202.032	0.0794	ppb	0.4746	597.7	7.5471
Na 330.237	27419.0	ppb	157.949	0.6	1451.48
Ni 231.604	46.8337	ppb	0.7089	1.5	144.550
Pb 220.353	1.4885	ppb	1.6419	110.3	12.9245
Sb 206.834	0.2515	ppb	1.1972	476.1	1.7990
Se 196.026	1.3738	ppb	5.6390	410.5	1.1376
Sn 189.925	-1.0479	ppb	0.9211	87.9	-6.5546
Sr 216.596	1199.64	ppb	6.3479	0.5	14224.9
Ti 334.941	3.2778	ppb	0.0486	1.5	986.589
Tl 190.794	1.5830	ppb	1.3023	82.3	-10.3158
V 292.401	10.0325	ppb	0.3531	3.5	274.251
Zn 206.200	108.535	ppb	3.0924	2.8	114.970

680-110790-i-14-a (Samp)

3/23/2015, 6:46:13 PM

Rack 2, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1138u	0.0644	-0.0839u
Al 308.215	46.3015	47.1136	45.5484
As 188.980	1.0155	-1.3950u	1.2000
B 249.678	45.5114	45.2144	45.8470
Ba 389.178	86.0593	86.0656	85.5109
Be 313.042	0.0375	0.0353	0.0273
Ca 370.602	5287	5271	5278
Cd 226.502	-0.0731u	0.0262	-0.0487u
Co 228.615	0.6405	0.4208	0.5935
Cr 267.716	0.3790	0.3566	0.4744
Cu 324.754	0.5596	0.4342	0.6747
Fe 271.441	59.8364	63.1949	67.5549
K 766.491	1681.30	1679.95	1684.99
Mg 279.078	2859.33	2848.18	2856.67
Mn 257.610	190.060	189.892	189.832
Mo 202.032	0.0419	0.1354	0.0604
Na 330.237	96129.8x	96501.0x	96744.1x
Ni 231.604	1.2972	2.4135	2.7226
Pb 220.353	0.0578	-2.8928u	-1.2506u
Sb 206.834	0.0194	-0.9787u	1.3496
Se 196.026	3.8055	1.2514	7.2977
Sn 189.925	-3.6453u	-1.6980u	-2.2083u
Sr 216.596	31.1201	30.7995	31.6871
Ti 334.941	0.0711	0.0531	0.0439

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	-2.7354u	1.5423	2.0223
V 292.401	0.3372	-0.0727u	-0.0037u
Zn 206.200	9.3582	8.9657	9.6945

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0444b	ppb	0.0954	214.9	-5.8662
Al 308.215	46.3211b	ppb	0.7828	1.7	714.365
As 188.980	0.2735b	ppb	1.4479	529.4	-4.2300
B 249.678	45.5243b	ppb	0.3165	0.7	855.015
Ba 389.178	85.8786b	ppb	0.3184	0.4	1927.01
Be 313.042	0.0334b	ppb	0.0054	16.1	-410.125
Ca 370.602	5279b	ppb	8.213	0.2	16565
Cd 226.502	-0.0319b	ppb	0.0518	162.4	30.5265
Co 228.615	0.5516b	ppb	0.1157	21.0	2.0050
Cr 267.716	0.4033b	ppb	0.0626	15.5	54.8181
Cu 324.754	0.5561b	ppb	0.1203	21.6	454.597
Fe 271.441	63.5287b	ppb	3.8701	6.1	108.120
K 766.491	1682.08b	ppb	2.6125	0.2	77527.2
Mg 279.078	2854.73b	ppb	5.8236	0.2	8261.39
Mn 257.610	189.928b	ppb	0.1183	0.1	43405.3
Mo 202.032	0.0792b	ppb	0.0495	62.5	8.2852
Na 330.237	96458.3xb	ppb	309.358	0.3	5037.12
Ni 231.604	2.1444b	ppb	0.7498	35.0	3.3278
Pb 220.353	-1.3618b	ppb	1.4784	108.6	7.1725
Sb 206.834	0.1301b	ppb	1.1681	897.7	1.2954
Se 196.026	4.1182b	ppb	3.0352	73.7	2.1255
Sn 189.925	-2.5172b	ppb	1.0097	40.1	-7.6098
Sr 216.596	31.2023b	ppb	0.4494	1.4	373.914
Ti 334.941	0.0561b	ppb	0.0138	24.7	-10.5277
Tl 190.794	0.2764b	ppb	2.6193	947.7	-9.5991
V 292.401	0.0870b	ppb	0.2195	252.3	-4.7375
Zn 206.200	9.3394b	ppb	0.3648	3.9	11.7540

680-110790-i-15-a (Samp) 3/23/2015, 6:50:58 PM Rack 2, Tube 10
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0835u	-0.2116u	-0.0217u
Al 308.215	42.0964	42.3202	42.3215
As 188.980	-1.0438u	-1.1276u	-3.4311u
B 249.678	44.7921	45.4716	45.8306
Ba 389.178	85.3382	85.9916	85.6635
Be 313.042	0.0372	0.0276	0.0374
Ca 370.602	5218	5226	5239
Cd 226.502	-0.1506u	-0.1800u	0.0352
Co 228.615	0.3265	0.1477	-0.0347u
Cr 267.716	0.3844	0.2776	0.4026
Cu 324.754	0.5160	0.5977	0.5319
Fe 271.441	50.5718	40.0321	53.6751
K 766.491	1656.63	1659.99	1660.98
Mg 279.078	2803.48	2820.93	2815.81
Mn 257.610	188.948	189.376	189.654
Mo 202.032	-0.2866u	-0.1320u	-0.6376u
Na 330.237	95858.9x	96212.5x	96314.2x

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	2.1648	2.6768	1.4483
Pb 220.353	-0.8860u	0.0822	2.9310
Sb 206.834	-0.4095u	2.2990	2.8035
Se 196.026	5.9426	-2.4806u	1.7865
Sn 189.925	-2.7966u	-0.4711u	-2.3485u
Sr 216.596	30.7543	30.8745	31.1427
Ti 334.941	0.0406	0.0121	0.0157
Tl 190.794	2.2667	-3.0656u	-2.1015u
V 292.401	0.0905	-0.2266u	-0.0245u
Zn 206.200	9.9601	10.5978	7.6999

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1056b	ppb	0.0969	91.7	-11.3587
Al 308.215	42.2460b	ppb	0.1296	0.3	684.284
As 188.980	-1.8675b	ppb	1.3548	72.5	-5.7785
B 249.678	45.3648b	ppb	0.5275	1.2	852.207
Ba 389.178	85.6644b	ppb	0.3267	0.4	1922.02
Be 313.042	0.0341b	ppb	0.0056	16.5	-408.746
Ca 370.602	5228b	ppb	10.13	0.2	16406
Cd 226.502	-0.0985b	ppb	0.1167	118.5	27.4753
Co 228.615	0.1465b	ppb	0.1806	123.3	-2.5498
Cr 267.716	0.3549b	ppb	0.0675	19.0	52.1969
Cu 324.754	0.5485b	ppb	0.0433	7.9	453.960
Fe 271.441	48.0930b	ppb	7.1513	14.9	83.7920
K 766.491	1659.20b	ppb	2.2806	0.1	76478.6
Mg 279.078	2813.41b	ppb	8.9682	0.3	8142.09
Mn 257.610	189.326b	ppb	0.3555	0.2	43267.6
Mo 202.032	-0.3520b	ppb	0.2591	73.6	5.4942
Na 330.237	96128.5xb	ppb	238.948	0.2	5020.02
Ni 231.604	2.0966b	ppb	0.6171	29.4	3.1781
Pb 220.353	0.7091b	ppb	1.9842	279.8	10.4830
Sb 206.834	1.5643b	ppb	1.7279	110.5	3.3816
Se 196.026	1.7495b	ppb	4.2117	240.7	1.0010
Sn 189.925	-1.8721b	ppb	1.2338	65.9	-7.1375
Sr 216.596	30.9239b	ppb	0.1988	0.6	370.587
Ti 334.941	0.0228b	ppb	0.0155	68.0	-20.2549
Tl 190.794	-0.9668b	ppb	2.8415	293.9	-10.9684
V 292.401	-0.0536b	ppb	0.1605	299.7	-8.6688
Zn 206.200	9.4193b	ppb	1.5227	16.2	11.8362

mb 680-375492/1-b (Samp)

3/23/2015, 6:55:43 PM

Rack 2, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0328u	0.0372	-0.1461u
Al 308.215	2.6894	2.3194	3.1644
As 188.980	0.6487	-0.4758u	0.1544
B 249.678	1.6241	1.4142	1.5370
Ba 389.178	-0.9305u	-0.0931u	-0.3252u
Be 313.042	0.0171	0.0217	0.0239
Ca 370.602	1.445	1.621	6.139
Cd 226.502	-0.0970u	-0.0898u	-0.0523u
Co 228.615	-0.0264u	0.2016	0.3719
Cr 267.716	0.0341	0.0667	0.0165

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	-0.1229u	-0.2819u	-0.0967u
Fe 271.441	0.5618	-1.6367u	-0.1059u
K 766.491	-2.0438u	-1.6303u	-2.2939u
Mg 279.078	1.6689	1.3355	1.1490
Mn 257.610	0.0349	0.0586	0.0897
Mo 202.032	-0.1978u	-0.0360u	0.3214
Na 330.237	22.7318	-3.0039u	48.2519
Ni 231.604	0.0759	-0.2849u	-0.1493u
Pb 220.353	-0.0376u	1.1979	-0.2758u
Sb 206.834	3.0619	2.4747	0.2826
Se 196.026	2.7046	4.7970	-2.0471u
Sn 189.925	-0.1775u	0.8954	-0.4333u
Sr 216.596	0.1539	0.1207	0.2220
Ti 334.941	-0.0101u	-0.0060u	0.0386
Tl 190.794	1.8182	0.1112	-1.4139u
V 292.401	-0.0808u	0.2852	-0.0681u
Zn 206.200	1.1072	1.5966	1.6994

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0472	ppb	0.0925	195.9	-5.9556
Al 308.215	2.7244	ppb	0.4236	15.5	392.781
As 188.980	0.1091	ppb	0.5636	516.7	-4.3485
B 249.678	1.5251	ppb	0.1055	6.9	65.0408
Ba 389.178	-0.4496	ppb	0.4323	96.1	-51.0815
Be 313.042	0.0209	ppb	0.0035	16.7	-424.876
Ca 370.602	3.068	ppb	2.661	86.7	31.64
Cd 226.502	-0.0797	ppb	0.0240	30.2	28.6027
Co 228.615	0.1824	ppb	0.1998	109.6	-2.1618
Cr 267.716	0.0391	ppb	0.0255	65.1	32.4459
Cu 324.754	-0.1672	ppb	0.1002	59.9	396.074
Fe 271.441	-0.3936	ppb	1.1271	286.4	7.5160
K 766.491	-1.9893	ppb	0.3352	16.8	349.441
Mg 279.078	1.3845	ppb	0.2634	19.0	26.3538
Mn 257.610	0.0610	ppb	0.0275	45.0	89.2235
Mo 202.032	0.0292	ppb	0.2657	910.4	7.9640
Na 330.237	22.6599	ppb	25.6280	113.1	36.2642
Ni 231.604	-0.1194	ppb	0.1822	152.6	-3.7613
Pb 220.353	0.2948	ppb	0.7911	268.3	9.7778
Sb 206.834	1.9397	ppb	1.4648	75.5	3.9148
Se 196.026	1.8182	ppb	3.5071	192.9	0.9882
Sn 189.925	0.0949	ppb	0.7049	743.0	-5.7261
Sr 216.596	0.1656	ppb	0.0517	31.2	4.9297
Ti 334.941	0.0075	ppb	0.0270	359.4	-22.2435
Tl 190.794	0.1719	ppb	1.6169	940.9	-9.8032
V 292.401	0.0455	ppb	0.2077	456.9	-5.1565
Zn 206.200	1.4678	ppb	0.3164	21.6	3.6052

lcs 680-375492/2-b (Samp) 3/23/2015, 7:00:28 PM Rack 2, Tube 12

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.6394	52.1306	53.0882
Al 308.215	4950.76	4961.29	5049.68
As 188.980	100.233	100.386	102.146

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	198.448	200.392	202.310
Ba 389.178	96.9765	98.3685	98.9964
Be 313.042	50.2735	50.4450	51.2063
Ca 370.602	5181	5180	5270
Cd 226.502	50.7659	50.9169	51.7947
Co 228.615	50.8443	50.6149	51.7111
Cr 267.716	104.469	104.835	106.264
Cu 324.754	102.605	102.685	104.037
Fe 271.441	5022.09	5038.09	5105.00
K 766.491	5423.70	5436.65	5534.50
Mg 279.078	5006.47	5023.96	5093.95
Mn 257.610	526.781	528.323	535.246
Mo 202.032	97.4940	98.3463	99.6131
Na 330.237	4951.55	4962.01	5369.26
Ni 231.604	100.671	101.649	103.861
Pb 220.353	505.519	504.319	511.468
Sb 206.834	50.1278	53.3926	51.2835
Se 196.026	107.851	102.643	102.758
Sn 189.925	196.610	193.065	197.544
Sr 216.596	98.5690	99.6713	100.438
Ti 334.941	101.734	102.063	103.720
Tl 190.794	38.1424	40.6023	40.9837
V 292.401	101.912	102.416	103.790
Zn 206.200	102.838	101.437	105.150

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.2861	ppb	0.7368	1.4	4700.99
Al 308.215	4987.25	ppb	54.3298	1.1	37177.4
As 188.980	100.922	ppb	1.0629	1.1	68.5084
B 249.678	200.383	ppb	1.9312	1.0	3624.36
Ba 389.178	98.1138	ppb	1.0338	1.1	2215.80
Be 313.042	50.6416	ppb	0.4965	1.0	96509.8
Ca 370.602	5210	ppb	51.61	1.0	16353
Cd 226.502	51.1591	ppb	0.5555	1.1	2349.39
Co 228.615	51.0568	ppb	0.5782	1.1	570.760
Cr 267.716	105.189	ppb	0.9486	0.9	5691.21
Cu 324.754	103.109	ppb	0.8045	0.8	8752.69
Fe 271.441	5055.06	ppb	43.9835	0.9	7967.34
K 766.491	5464.95	ppb	60.5791	1.1	250889
Mg 279.078	5041.46	ppb	46.2904	0.9	14566.3
Mn 257.610	530.117	ppb	4.5083	0.9	121008
Mo 202.032	98.4845	ppb	1.0663	1.1	644.958
Na 330.237	5094.27	ppb	238.202	4.7	296.719
Ni 231.604	102.060	ppb	1.6342	1.6	316.320
Pb 220.353	507.102	ppb	3.8284	0.8	820.245
Sb 206.834	51.6013	ppb	1.6554	3.2	75.7510
Se 196.026	104.417	ppb	2.9745	2.8	49.8569
Sn 189.925	195.740	ppb	2.3631	1.2	137.520
Sr 216.596	99.5595	ppb	0.9397	0.9	1184.80
Ti 334.941	102.506	ppb	1.0643	1.0	29789.0
Tl 190.794	39.9095	ppb	1.5422	3.9	33.4619
V 292.401	102.706	ppb	0.9722	0.9	2904.69
Zn 206.200	103.142	ppb	1.8752	1.8	108.808

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Cont Calib Verif (CCV) 3/23/2015, 7:05:13 PM Rack 2, Tube 13

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	484.824	481.348	481.788
Al 308.215	4761.21	4739.00	4730.60
As 188.980	478.778	486.272	484.666
B 249.678	482.166	483.392	483.440
Ba 389.178	4846.54	4819.24	4813.57
Be 313.042	487.747	484.014	484.013
Ca 370.602	4905	4869	4879
Cd 226.502	487.738	485.524	484.737
Co 228.615	493.873	490.714	489.327
Cr 267.716	4964.30	4938.54	4929.96
Cu 324.754	4956.26	4936.03	4916.53
Fe 271.441	4853.82	4826.66	4828.69
K 766.491	10110.4	10084.4	10053.5
Mg 279.078	4853.48	4829.49	4820.24
Mn 257.610	4944.40	4936.46	4932.05
Mo 202.032	485.076	480.377	481.026
Na 330.237	7208.15	7228.48	7014.21
Ni 231.604	2473.65	2456.63	2448.88
Pb 220.353	486.533	486.157	487.087
Sb 206.834	968.776	963.519	970.309
Se 196.026	4895.64	4880.29	4850.86
Sn 189.925	4887.31	4855.10	4842.15
Sr 216.596	2444.09	2426.25	2417.75
Ti 334.941	484.953	481.957	481.346
Tl 190.794	4930.38	4898.72	4897.01
V 292.401	4848.67	4825.75	4818.40
Zn 206.200	2457.81	2447.97	2434.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	482.653	ppb	1.8928	0.4	43372.8	96.53068
Al 308.215	4743.60	ppb	15.8204	0.3	36077.6	94.87204
As 188.980	483.239	ppb	3.9456	0.8	344.943	96.64772
B 249.678	482.999	ppb	0.7222	0.1	8714.99	96.59981
Ba 389.178	4826.45	ppb	17.6268	0.4	110236	96.52903
Be 313.042	485.258	ppb	2.1554	0.4	929048	97.05159
Ca 370.602	4885	ppb	18.55	0.4	15688	97.69411
Cd 226.502	486.000	ppb	1.5559	0.3	21799.3	97.19997
Co 228.615	491.305	ppb	2.3299	0.5	5534.71	98.26096
Cr 267.716	4944.27	ppb	17.8753	0.4	265908	98.88535
Cu 324.754	4936.27	ppb	19.8634	0.4	399528	98.72546
Fe 271.441	4836.39	ppb	15.1276	0.3	7713.89	96.72779
K 766.491	10082.8	ppb	28.4885	0.3	462515	100.82761
Mg 279.078	4834.40	ppb	17.1578	0.4	13871.7	96.68810
Mn 257.610	4937.64	ppb	6.2585	0.1	1126004	98.75272
Mo 202.032	482.160	ppb	2.5464	0.5	3123.69	96.43191
Na 330.237	7150.28	ppb	118.279	1.7	374.721	95.33706
Ni 231.604	2459.72	ppb	12.6694	0.5	7693.41	98.38877
Pb 220.353	486.592	ppb	0.4676	0.1	791.454	97.31849
Sb 206.834	967.535	ppb	3.5610	0.4	1462.40	96.75346
Se 196.026	4875.60	ppb	22.7576	0.5	2315.38	97.51192
Sn 189.925	4861.52	ppb	23.2525	0.5	3553.64	97.23036
Sr 216.596	2429.36	ppb	13.4411	0.6	28666.7	97.17457

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	482.752	ppb	1.9309	0.4	140347	96.55038
Tl 190.794	4908.71	ppb	18.7933	0.4	5413.04	98.17413
V 292.401	4830.94	ppb	15.7891	0.3	137871	96.61887
Zn 206.200	2446.67	ppb	11.8348	0.5	2525.08	97.86691

Cont Calib Blank (CCB)

3/23/2015, 7:09:56 PM

Rack 2, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0935u	0.1100	-0.2958u
Al 308.215	2.9541	3.0725	1.5491
As 188.980	-1.6743u	-0.8913u	-1.4254u
B 249.678	7.5189	6.2580	5.7378
Ba 389.178	-0.7800u	-0.2713u	-0.8244u
Be 313.042	0.0360	0.0369	0.0320
Ca 370.602	0.0044	-1.235u	-2.613u
Cd 226.502	-0.0386u	-0.1504u	0.0835
Co 228.615	-0.3804u	-0.4154u	-0.2738u
Cr 267.716	0.0870	0.2091	0.2040
Cu 324.754	-0.2492u	-0.2434u	0.0526
Fe 271.441	-2.8608u	-4.7060u	1.3680
K 766.491	-3.1307u	-3.0616u	-3.0312u
Mg 279.078	2.9583	-0.5236u	2.2945
Mn 257.610	0.0674	0.0726	0.0757
Mo 202.032	0.0669	0.7583	-0.0101u
Na 330.237	132.466	59.4443	-12.9178u
Ni 231.604	-0.0598u	0.0822	-0.4609u
Pb 220.353	0.0396	0.3356	0.5412
Sb 206.834	-0.6722u	-0.3221u	0.4887
Se 196.026	5.8336	10.7119	1.5914
Sn 189.925	1.5192	1.2894	6.0355
Sr 216.596	0.3227	0.1295	-0.4162u
Ti 334.941	0.1620	0.0742	0.1214
Tl 190.794	-1.6288u	0.3634	-0.1322u
V 292.401	-0.0067u	0.1665	0.0801
Zn 206.200	-2.2748u	-4.1830u	-2.6658u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0931	ppb	0.2029	217.9	-10.0733	-0.09309
Al 308.215	2.5253	ppb	0.8474	33.6	391.336	2.52527
As 188.980	-1.3303	ppb	0.4001	30.1	-5.3898	-1.33032
B 249.678	6.5049	ppb	0.9159	14.1	154.430	6.50490
Ba 389.178	-0.6252	ppb	0.3073	49.2	-55.0899	-0.62520
Be 313.042	0.0350	ppb	0.0026	7.4	-397.920	0.03497
Ca 370.602	-1.281	ppb	1.310	102.2	18.06	-1.28122
Cd 226.502	-0.0351	ppb	0.1170	332.9	30.5989	-0.03514
Co 228.615	-0.3565	ppb	0.0738	20.7	-8.2379	-0.35654
Cr 267.716	0.1667	ppb	0.0691	41.5	39.3085	0.16671
Cu 324.754	-0.1467	ppb	0.1726	117.7	397.744	-0.14668
Fe 271.441	-2.0663	ppb	3.1140	150.7	4.8420	-2.06626
K 766.491	-3.0745	ppb	0.0510	1.7	299.710	-3.07450
Mg 279.078	1.5764	ppb	1.8487	117.3	26.9086	1.57639
Mn 257.610	0.0719	ppb	0.0042	5.8	91.6975	0.07188
Mo 202.032	0.2717	ppb	0.4232	155.7	9.5339	0.27172

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	59.6643	ppb	72.6924	121.8	38.2357	59.66428
Ni 231.604	-0.1462	ppb	0.2817	192.7	-3.8441	-0.14618
Pb 220.353	0.3055	ppb	0.2521	82.5	9.7946	0.30547
Sb 206.834	-0.1685	ppb	0.5955	353.4	0.8553	-0.16852
Se 196.026	6.0456	ppb	4.5640	75.5	2.9947	6.04562
Sn 189.925	2.9480	ppb	2.6763	90.8	-3.6371	2.94802
Sr 216.596	0.0120	ppb	0.3832	3193.8	3.1160	0.01200
Ti 334.941	0.1192	ppb	0.0439	36.9	10.2217	0.11918
Tl 190.794	-0.4659	ppb	1.0372	222.6	-10.5083	-0.46586
V 292.401	0.0800	ppb	0.0866	108.2	-4.2245	0.08001
Zn 206.200	-3.0412	ppb	1.0080	33.1	-1.0618	-3.04119

680-110790-h-1-d (Samp)

3/23/2015, 7:14:40 PM

Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0675u	-0.2965u	-0.1299u
Al 308.215	23.7075	24.3954	24.0975
As 188.980	-4.7647u	-2.5291u	2.9180
B 249.678	46.4789	46.5445	46.4920
Ba 389.178	87.1482	87.7267	87.3150
Be 313.042	0.0405	0.0432	0.0438
Ca 370.602	5310	5301	5303
Cd 226.502	-0.0023u	0.0284	-0.1952u
Co 228.615	0.1787	0.7614	0.1676
Cr 267.716	0.1544	0.1667	0.0731
Cu 324.754	0.1980	0.3101	0.4412
Fe 271.441	38.8851	37.5654	33.7269
K 766.491	1688.86	1685.71	1688.39
Mg 279.078	2865.39	2857.35	2852.87
Mn 257.610	192.381	192.150	191.991
Mo 202.032	0.0208	-0.0021u	0.2918
Na 330.237	97179.0x	97092.7x	97127.0x
Ni 231.604	2.6659	1.7673	3.0042
Pb 220.353	-0.0055	2.1107	-0.4604u
Sb 206.834	-0.2957u	2.3722	1.0669
Se 196.026	-2.5535u	3.9356	3.0668
Sn 189.925	-0.1882u	-2.9898u	-1.9289u
Sr 216.596	30.5247	31.4977	31.4563
Ti 334.941	0.0763	0.0556	0.0185
Tl 190.794	1.3821	-0.2633u	0.6364
V 292.401	0.1221	-0.2314u	-0.0979u
Zn 206.200	8.5358	8.0585	7.3772

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1646b	ppb	0.1184	71.9	-16.6632
Al 308.215	24.0668b	ppb	0.3449	1.4	550.201
As 188.980	-1.4586b	ppb	3.9516	270.9	-5.4828
B 249.678	46.5051b	ppb	0.0347	0.1	872.705
Ba 389.178	87.3966b	ppb	0.2977	0.3	1961.67
Be 313.042	0.0425b	ppb	0.0018	4.2	-392.687
Ca 370.602	5305b	ppb	5.041	0.1	16646
Cd 226.502	-0.0564b	ppb	0.1212	215.0	29.2865
Co 228.615	0.3692b	ppb	0.3397	92.0	-0.0533

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1314b	ppb	0.0508	38.7	40.2003
Cu 324.754	0.3164b	ppb	0.1217	38.5	435.203
Fe 271.441	36.7258b	ppb	2.6796	7.3	65.9387
K 766.491	1687.65b	ppb	1.7018	0.1	77782.5
Mg 279.078	2858.54b	ppb	6.3461	0.2	8272.35
Mn 257.610	192.174b	ppb	0.1963	0.1	43917.3
Mo 202.032	0.1035b	ppb	0.1635	158.0	8.4436
Na 330.237	97132.9xb	ppb	43.4749	0.0	5072.12
Ni 231.604	2.4791b	ppb	0.6393	25.8	4.3733
Pb 220.353	0.5482b	ppb	1.3721	250.3	10.2250
Sb 206.834	1.0478b	ppb	1.3340	127.3	2.6222
Se 196.026	1.4830b	ppb	3.5226	237.5	0.8751
Sn 189.925	-1.7023b	ppb	1.4145	83.1	-7.0130
Sr 216.596	31.1595b	ppb	0.5502	1.8	373.378
Ti 334.941	0.0502b	ppb	0.0293	58.4	-12.2821
Tl 190.794	0.5851b	ppb	0.8239	140.8	-9.2543
V 292.401	-0.0691b	ppb	0.1785	258.3	-9.1936
Zn 206.200	7.9905b	ppb	0.5823	7.3	10.3574

680-110790-h-1-dSD^5 (Samp) 3/23/2015, 7:19:24 PM Rack 2, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1001u	0.0565	-0.4063u
Al 308.215	7.1654	6.2613	6.1778
As 188.980	-1.9636u	-2.4859u	-0.7793u
B 249.678	10.1123	10.4998	10.1728
Ba 389.178	16.7016	17.1505	16.6729
Be 313.042	0.0202	0.0149	0.0231
Ca 370.602	1023	1033	1045
Cd 226.502	-0.0103u	-0.0067u	-0.1252u
Co 228.615	-0.3452u	-0.2511u	-0.3507u
Cr 267.716	0.0748	0.1520	-0.0097u
Cu 324.754	-0.4008u	-0.2021u	-0.2045u
Fe 271.441	13.6969	12.2391	7.4184
K 766.491	295.465	296.117	299.130
Mg 279.078	560.287	561.686	567.540
Mn 257.610	37.1483	37.2845	37.5667
Mo 202.032	0.1565	-0.2382u	0.0105
Na 330.237	17524.7	17573.9	17734.8
Ni 231.604	1.1749	0.9897	1.4019
Pb 220.353	0.1226	1.1711	-0.5338u
Sb 206.834	2.6563	1.9100	2.2385
Se 196.026	6.8698	-0.1395u	6.6229
Sn 189.925	-3.6026u	-2.9643u	-2.7197u
Sr 216.596	6.2713	6.6125	5.9620
Ti 334.941	-0.0080u	0.0164	0.0132
Tl 190.794	0.1428	-1.5077u	1.2186
V 292.401	0.0565	0.0631	-0.1118u
Zn 206.200	0.2500	0.8471	-0.4669u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1499	ppb	0.2354	157.0	-15.2288
Al 308.215	6.5348	ppb	0.5477	8.4	420.893

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.7429	ppb	0.8744	50.2	-5.6882
B 249.678	10.2616	ppb	0.2085	2.0	221.923
Ba 389.178	16.8417	ppb	0.2679	1.6	345.101
Be 313.042	0.0194	ppb	0.0042	21.5	-429.341
Ca 370.602	1034	ppb	11.00	1.1	3262
Cd 226.502	-0.0474	ppb	0.0674	142.2	29.9894
Co 228.615	-0.3157	ppb	0.0560	17.7	-7.7671
Cr 267.716	0.0724	ppb	0.0809	111.8	34.7548
Cu 324.754	-0.2691	ppb	0.1140	42.4	387.832
Fe 271.441	11.1181	ppb	3.2859	29.6	25.5691
K 766.491	296.904	ppb	1.9553	0.7	14047.2
Mg 279.078	563.171	ppb	3.8476	0.7	1647.73
Mn 257.610	37.3332	ppb	0.2134	0.6	8592.44
Mo 202.032	-0.0237	ppb	0.1995	841.3	7.6212
Na 330.237	17611.1	ppb	109.873	0.6	948.382
Ni 231.604	1.1888	ppb	0.2064	17.4	0.3347
Pb 220.353	0.2533	ppb	0.8599	339.5	9.7199
Sb 206.834	2.2683	ppb	0.3740	16.5	4.3925
Se 196.026	4.4511	ppb	3.9775	89.4	2.2468
Sn 189.925	-3.0956	ppb	0.4559	14.7	-8.0567
Sr 216.596	6.2819	ppb	0.3254	5.2	77.6161
Ti 334.941	0.0072	ppb	0.0132	184.1	-22.7084
Tl 190.794	-0.0487	ppb	1.3732	2817.1	-10.0296
V 292.401	0.0026	ppb	0.0991	3798.7	-6.5013
Zn 206.200	0.2101	ppb	0.6579	313.1	2.3038

680-110790-h-1-dPDS (Samp) 3/23/2015, 7:24:08 PM

Rack 2, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	89.1623	89.8073	88.6486
Al 308.215	1003.97	1006.11	1006.66
As 188.980	101.224	93.6226	97.7447
B 249.678	235.477	237.274	237.731
Ba 389.178	172.881	172.923	172.707
Be 313.042	97.0527	97.1436	96.8897
Ca 370.602	15459	15445	15408
Cd 226.502	97.2796	97.1096	96.6996
Co 228.615	97.1251	98.1189	97.1288
Cr 267.716	100.979	101.277	100.733
Cu 324.754	99.5638	99.6747	99.4560
Fe 271.441	9864.74	9881.52	9849.26
K 766.491	12987.7	13056.9	13060.1
Mg 279.078	12535.2	12550.8	12512.0
Mn 257.610	1213.26	1214.51	1210.41
Mo 202.032	94.8806	96.2140	95.3108
Na 330.237	107264x	107246x	107469x
Ni 231.604	100.259	99.4361	98.4036
Pb 220.353	95.7380	97.0012	97.4956
Sb 206.834	85.0642	87.5971	88.5848
Se 196.026	106.974	98.7999	102.533
Sn 189.925	97.8974	96.6177	92.5438
Sr 216.596	127.913	127.232	126.464
Ti 334.941	98.9533	99.3002	99.0884

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	20.0739	20.7518	17.7077
V 292.401	101.299	101.575	101.172
Zn 206.200	107.500	105.923	108.024

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	89.2061b	ppb	0.5806	0.7	8024.30
Al 308.215	1005.58b	ppb	1.4237	0.1	7807.74
As 188.980	97.5306b	ppb	3.8054	3.9	66.0220
B 249.678	236.827b	ppb	1.1916	0.5	4267.38
Ba 389.178	172.837b	ppb	0.1150	0.1	3942.38
Be 313.042	97.0287b	ppb	0.1286	0.1	185337
Ca 370.602	15437b	ppb	26.65	0.2	48357
Cd 226.502	97.0296b	ppb	0.2982	0.3	4428.20
Co 228.615	97.4576b	ppb	0.5727	0.6	1093.79
Cr 267.716	100.996b	ppb	0.2729	0.3	5472.74
Cu 324.754	99.5649b	ppb	0.1094	0.1	8468.30
Fe 271.441	9865.17b	ppb	16.1347	0.2	15539.7
K 766.491	13034.9b	ppb	40.9228	0.3	597805
Mg 279.078	12532.7b	ppb	19.5532	0.2	36184.2
Mn 257.610	1212.72b	ppb	2.1019	0.2	276731
Mo 202.032	95.4685b	ppb	0.6806	0.7	625.220
Na 330.237	107326xb	ppb	124.122	0.1	5596.99
Ni 231.604	99.3661b	ppb	0.9295	0.9	308.188
Pb 220.353	96.7449b	ppb	0.9064	0.9	164.732
Sb 206.834	87.0820b	ppb	1.8159	2.1	127.337
Se 196.026	102.769b	ppb	4.0923	4.0	49.2819
Sn 189.925	95.6863b	ppb	2.7957	2.9	64.2948
Sr 216.596	127.203b	ppb	0.7251	0.6	1521.76
Ti 334.941	99.1140b	ppb	0.1749	0.2	28808.5
Tl 190.794	19.5111b	ppb	1.5982	8.2	10.6937
V 292.401	101.349b	ppb	0.2062	0.2	2864.09
Zn 206.200	107.149b	ppb	1.0936	1.0	113.125

680-110790-h-1-e ms (Samp) 3/23/2015, 7:28:51 PM Rack 2, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.1740	52.7832	53.1137
Al 308.215	5160.74	5126.44	5156.03
As 188.980	105.476	101.629	103.301
B 249.678	248.684	247.293	249.598
Ba 389.178	184.407	182.898	184.182
Be 313.042	51.2910	51.0555	51.3717
Ca 370.602	10420	10400	10447
Cd 226.502	51.4848	51.3441	51.9644
Co 228.615	51.8962	52.2057	52.7509
Cr 267.716	105.903	105.547	105.574
Cu 324.754	104.863	104.050	105.057
Fe 271.441	5127.54	5096.14	5112.96
K 766.491	7834.18	7776.79	7805.89
Mg 279.078	7908.50	7861.50	7909.05
Mn 257.610	720.763	717.916	720.893
Mo 202.032	100.293	99.4995	99.8107
Na 330.237	101903x	101346x	102003x

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	104.844	105.360	104.611
Pb 220.353	507.262	510.611	509.848
Sb 206.834	52.6234	55.4055	54.2400
Se 196.026	108.400	107.415	97.8239
Sn 189.925	198.719	198.906	204.114
Sr 216.596	130.873	130.189	130.692
Ti 334.941	102.890	102.423	102.820
Tl 190.794	42.4742	42.0369	39.5190
V 292.401	103.628	103.361	103.612
Zn 206.200	111.710	116.530	113.418

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.0236b	ppb	0.2104	0.4	4767.19
Al 308.215	5147.74b	ppb	18.5967	0.4	38361.4
As 188.980	103.468b	ppb	1.9288	1.9	70.3498
B 249.678	248.525b	ppb	1.1607	0.5	4488.81
Ba 389.178	183.829b	ppb	0.8142	0.4	4179.90
Be 313.042	51.2394b	ppb	0.1643	0.3	97645.2
Ca 370.602	10422b	ppb	23.68	0.2	32687
Cd 226.502	51.5978b	ppb	0.3252	0.6	2368.78
Co 228.615	52.2843b	ppb	0.4327	0.8	584.556
Cr 267.716	105.675b	ppb	0.1984	0.2	5720.09
Cu 324.754	104.657b	ppb	0.5346	0.5	8877.93
Fe 271.441	5112.21b	ppb	15.7164	0.3	8057.39
K 766.491	7805.62b	ppb	28.6975	0.4	358158
Mg 279.078	7893.02b	ppb	27.2940	0.3	22796.1
Mn 257.610	719.857b	ppb	1.6824	0.2	164296
Mo 202.032	99.8676b	ppb	0.3996	0.4	653.908
Na 330.237	101751xb	ppb	353.964	0.3	5308.98
Ni 231.604	104.938b	ppb	0.3832	0.4	325.329
Pb 220.353	509.240b	ppb	1.7550	0.3	823.702
Sb 206.834	54.0896b	ppb	1.3972	2.6	79.3475
Se 196.026	104.546b	ppb	5.8425	5.6	49.9637
Sn 189.925	200.580b	ppb	3.0626	1.5	141.092
Sr 216.596	130.585b	ppb	0.3548	0.3	1553.59
Ti 334.941	102.711b	ppb	0.2515	0.2	29846.3
Tl 190.794	41.3434b	ppb	1.5950	3.9	35.1312
V 292.401	103.534b	ppb	0.1498	0.1	2927.29
Zn 206.200	113.886b	ppb	2.4437	2.1	119.929

680-110790-h-1-f msd (Samp) 3/23/2015, 7:33:35 PM

Rack 2, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.2076	53.6239	53.3900
Al 308.215	5156.94	5160.78	5163.34
As 188.980	102.138	100.272	104.032
B 249.678	249.362	250.118	251.495
Ba 389.178	184.514	184.903	184.887
Be 313.042	51.4530	51.4076	51.4118
Ca 370.602	10447	10426	10450
Cd 226.502	51.4868	51.5939	51.4636
Co 228.615	52.0790	51.4644	51.5862
Cr 267.716	105.811	105.672	105.969

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	104.470	104.940	105.171
Fe 271.441	5117.81	5124.12	5137.71
K 766.491	7862.34	7868.71	7862.67
Mg 279.078	7917.07	7927.01	7941.35
Mn 257.610	721.727	721.870	723.028
Mo 202.032	100.089	98.8290	100.364
Na 330.237	102535x	102826x	102848x
Ni 231.604	105.480	106.259	103.864
Pb 220.353	509.132	510.692	504.602
Sb 206.834	51.3689	51.8760	52.0613
Se 196.026	106.577	106.719	116.533
Sn 189.925	196.401	204.254	196.892
Sr 216.596	132.074	132.201	132.365
Ti 334.941	103.454	103.400	103.371
Tl 190.794	44.7765	41.4286	39.2296
V 292.401	103.815	103.797	104.051
Zn 206.200	112.036	115.514	115.093

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.4071b	ppb	0.2087	0.4	4801.64
Al 308.215	5160.36b	ppb	3.2226	0.1	38454.5
As 188.980	102.147b	ppb	1.8803	1.8	69.3938
B 249.678	250.325b	ppb	1.0813	0.4	4521.05
Ba 389.178	184.768b	ppb	0.2201	0.1	4201.45
Be 313.042	51.4241b	ppb	0.0251	0.0	97998.9
Ca 370.602	10441b	ppb	13.14	0.1	32747
Cd 226.502	51.5148b	ppb	0.0695	0.1	2365.15
Co 228.615	51.7098b	ppb	0.3254	0.6	578.097
Cr 267.716	105.817b	ppb	0.1488	0.1	5727.79
Cu 324.754	104.860b	ppb	0.3572	0.3	8894.40
Fe 271.441	5126.54b	ppb	10.1687	0.2	8079.89
K 766.491	7864.57b	ppb	3.5907	0.0	360859
Mg 279.078	7928.48b	ppb	12.2080	0.2	22898.4
Mn 257.610	722.208b	ppb	0.7136	0.1	164832
Mo 202.032	99.7608b	ppb	0.8187	0.8	653.215
Na 330.237	102736xb	ppb	174.805	0.2	5360.07
Ni 231.604	105.201b	ppb	1.2217	1.2	326.152
Pb 220.353	508.142b	ppb	3.1634	0.6	821.948
Sb 206.834	51.7687b	ppb	0.3584	0.7	75.9815
Se 196.026	109.943b	ppb	5.7076	5.2	52.5259
Sn 189.925	199.183b	ppb	4.3987	2.2	140.070
Sr 216.596	132.213b	ppb	0.1463	0.1	1572.88
Ti 334.941	103.408b	ppb	0.0423	0.0	30049.1
Tl 190.794	41.8116b	ppb	2.7932	6.7	35.6448
V 292.401	103.888b	ppb	0.1414	0.1	2937.32
Zn 206.200	114.215b	ppb	1.8981	1.7	120.269

680-110790-h-8-d (Samp) 3/23/2015, 7:38:19 PM Rack 2, Tube 20

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6072u	-0.5139u	-0.6758u
Al 308.215	15495.6	15498.4	15510.1
As 188.980	0.5071	2.3225	-4.2341u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	76.2697	76.3714	76.0982
Ba 389.178	99.8578	99.3188	100.319
Be 313.042	0.4496	0.4560	0.4476
Ca 370.602	7126	7142	7127
Cd 226.502	0.0558	-0.1086u	0.1536
Co 228.615	20.2832	20.2647	20.0790
Cr 267.716	7.6823	7.8886	7.7060
Cu 324.754	25.0754	24.8571	24.8921
Fe 271.441	932.798	929.779	935.239
K 766.491	3576.32	3578.37	3578.66
Mg 279.078	4356.48	4355.67	4353.94
Mn 257.610	418.750	418.624	418.547
Mo 202.032	1.1420	1.3654	1.3937
Na 330.237	163559x	163432x	161980x
Ni 231.604	16.6135	16.8392	15.5700
Pb 220.353	3.8232	2.5746	3.8717
Sb 206.834	1.9050	2.0020	-0.0435
Se 196.026	6.4904	4.6384	3.7230
Sn 189.925	1.2646	0.2489	0.4991
Sr 216.596	97.8679	96.5975	97.0525
Ti 334.941	0.1445	0.1014	0.0687
Tl 190.794	-1.0515u	-0.0230	3.0523
V 292.401	1.5971	1.6679	1.8879
Zn 206.200	49.7170	52.6406	51.9431

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5989b	ppb	0.0813	13.6	-56.9758
Al 308.215	15501.4b	ppb	7.7065	0.0	114714
As 188.980	-0.4681b	ppb	3.3854	723.1	-4.7731
B 249.678	76.2464b	ppb	0.1381	0.2	1404.60
Ba 389.178	99.8319b	ppb	0.5007	0.5	2249.62
Be 313.042	0.4511b	ppb	0.0044	1.0	384.179
Ca 370.602	7132b	ppb	9.150	0.1	22367
Cd 226.502	0.0336b	ppb	0.1325	394.3	37.9963
Co 228.615	20.2090b	ppb	0.1130	0.6	223.454
Cr 267.716	7.7590b	ppb	0.1129	1.5	453.340
Cu 324.754	24.9415b	ppb	0.1173	0.5	2426.97
Fe 271.441	932.605b	ppb	2.7353	0.3	1477.58
K 766.491	3577.78b	ppb	1.2753	0.0	164404
Mg 279.078	4355.36b	ppb	1.2994	0.0	12583.3
Mn 257.610	418.640b	ppb	0.1027	0.0	95570.4
Mo 202.032	1.3004b	ppb	0.1379	10.6	16.1494
Na 330.237	162990xb	ppb	877.440	0.5	8486.60
Ni 231.604	16.3409b	ppb	0.6771	4.1	47.7876
Pb 220.353	3.4232b	ppb	0.7353	21.5	14.7091
Sb 206.834	1.2879b	ppb	1.1540	89.6	3.0662
Se 196.026	4.9506b	ppb	1.4098	28.5	2.5830
Sn 189.925	0.6709b	ppb	0.5292	78.9	-5.2558
Sr 216.596	97.1726b	ppb	0.6437	0.7	1155.45
Ti 334.941	0.1049b	ppb	0.0380	36.2	2.0659
Tl 190.794	0.6593b	ppb	2.1353	323.9	-9.1428
V 292.401	1.7176b	ppb	0.1517	8.8	40.3367
Zn 206.200	51.4335b	ppb	1.5270	3.0	55.3371

E03232015.vvq. All Data Report 3/26/2015, 2:01:10 PM

680-110790-h-8-e ms (Samp) 3/23/2015, 7:43:04 PM Rack 2, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.3882	52.4552	52.6446
Al 308.215	21548.4	21592.5	21651.6
As 188.980	105.828	104.447	103.555
B 249.678	273.048	273.339	275.135
Ba 389.178	195.016	195.135	196.213
Be 313.042	50.9748	51.0705	51.1884
Ca 370.602	12098	12116	12185
Cd 226.502	50.6758	50.8163	51.0936
Co 228.615	70.6402	70.7514	70.7504
Cr 267.716	112.013	111.933	112.729
Cu 324.754	127.881	127.918	128.228
Fe 271.441	5881.32	5886.65	5906.30
K 766.491	9920.50	9969.08	9955.64
Mg 279.078	9248.57	9274.82	9295.77
Mn 257.610	934.187	935.622	938.122
Mo 202.032	99.3614	99.9816	99.0437
Na 330.237	165419x	165434x	165674x
Ni 231.604	117.361	116.891	117.497
Pb 220.353	499.613	497.190	495.879
Sb 206.834	50.5390	49.1427	53.4184
Se 196.026	107.233	103.034	103.010
Sn 189.925	196.415	194.294	200.307
Sr 216.596	195.067	194.056	195.409
Ti 334.941	101.609	101.637	101.924
Tl 190.794	38.9807	39.9263	39.4556
V 292.401	104.262	103.910	103.902
Zn 206.200	153.709	150.752	150.613

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.4960b	ppb	0.1330	0.3	4718.50
Al 308.215	21597.5b	ppb	51.7765	0.2	159698
As 188.980	104.610b	ppb	1.1449	1.1	71.1702
B 249.678	273.840b	ppb	1.1304	0.4	4941.46
Ba 389.178	195.455b	ppb	0.6598	0.3	4449.00
Be 313.042	51.0779b	ppb	0.1070	0.2	97330.9
Ca 370.602	12133b	ppb	45.70	0.4	38044
Cd 226.502	50.8619b	ppb	0.2126	0.4	2339.91
Co 228.615	70.7140b	ppb	0.0639	0.1	792.194
Cr 267.716	112.225b	ppb	0.4383	0.4	6075.17
Cu 324.754	128.009b	ppb	0.1907	0.1	10766.7
Fe 271.441	5891.42b	ppb	13.1528	0.2	9285.33
K 766.491	9948.41b	ppb	25.0827	0.3	456358
Mg 279.078	9273.05b	ppb	23.6541	0.3	26769.7
Mn 257.610	935.977b	ppb	1.9915	0.2	213588
Mo 202.032	99.4622b	ppb	0.4770	0.5	651.248
Na 330.237	165509xb	ppb	143.066	0.1	8614.68
Ni 231.604	117.250b	ppb	0.3182	0.3	363.885
Pb 220.353	497.561b	ppb	1.8942	0.4	804.897
Sb 206.834	51.0334b	ppb	2.1803	4.3	75.0204
Se 196.026	104.425b	ppb	2.4313	2.3	49.9650
Sn 189.925	197.005b	ppb	3.0497	1.5	138.494
Sr 216.596	194.844b	ppb	0.7032	0.4	2314.79

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	101.724b	ppb	0.1744	0.2	29557.7
Tl 190.794	39.4542b	ppb	0.4728	1.2	33.0893
V 292.401	104.025b	ppb	0.2058	0.2	2940.14
Zn 206.200	151.691b	ppb	1.7489	1.2	159.071

680-110790-h-8-f msd (Samp) 3/23/2015, 7:47:49 PM Rack 2, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.8323	51.7745	51.9390
Al 308.215	19422.0	19378.5	19391.5
As 188.980	106.010	104.357	105.933
B 249.678	271.176	271.227	272.304
Ba 389.178	194.217	191.932	192.857
Be 313.042	50.4549	50.3842	50.3741
Ca 370.602	11969	11937	11907
Cd 226.502	50.1554	50.1885	50.4474
Co 228.615	69.9871	69.5728	69.5057
Cr 267.716	109.719	109.621	109.819
Cu 324.754	125.147	125.629	125.398
Fe 271.441	5819.98	5807.22	5803.97
K 766.491	9804.79	9798.16	9782.55
Mg 279.078	9132.37	9118.09	9136.13
Mn 257.610	922.106	920.453	920.075
Mo 202.032	98.1726	97.4114	97.9210
Na 330.237	162604x	163025x	163063x
Ni 231.604	114.704	114.609	115.706
Pb 220.353	490.796	490.404	486.785
Sb 206.834	52.3318	51.7026	48.1978
Se 196.026	101.863	102.898	106.225
Sn 189.925	194.179	196.198	193.419
Sr 216.596	192.198	191.530	191.856
Ti 334.941	100.505	100.466	100.580
Tl 190.794	40.7653	38.5291	35.0025
V 292.401	102.569	102.553	102.564
Zn 206.200	148.504	151.291	148.181

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.8486b	ppb	0.0835	0.2	4660.29
Al 308.215	19397.3b	ppb	22.2952	0.1	143469
As 188.980	105.433b	ppb	0.9329	0.9	71.7668
B 249.678	271.569b	ppb	0.6372	0.2	4900.86
Ba 389.178	193.002b	ppb	1.1494	0.6	4392.60
Be 313.042	50.4044b	ppb	0.0440	0.1	96041.2
Ca 370.602	11938b	ppb	31.10	0.3	37432
Cd 226.502	50.2638b	ppb	0.1599	0.3	2312.72
Co 228.615	69.6885b	ppb	0.2607	0.4	780.657
Cr 267.716	109.720b	ppb	0.0988	0.1	5940.28
Cu 324.754	125.392b	ppb	0.2413	0.2	10554.9
Fe 271.441	5810.39b	ppb	8.4640	0.1	9157.72
K 766.491	9795.17b	ppb	11.4188	0.1	449335
Mg 279.078	9128.86b	ppb	9.5172	0.1	26354.5
Mn 257.610	920.878b	ppb	1.0804	0.1	210144
Mo 202.032	97.8350b	ppb	0.3878	0.4	640.720

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	162897xb	ppb	254.687	0.2	8479.31
Ni 231.604	115.006b	ppb	0.6076	0.5	356.859
Pb 220.353	489.328b	ppb	2.2113	0.5	791.761
Sb 206.834	50.7441b	ppb	2.2274	4.4	74.5954
Se 196.026	103.662b	ppb	2.2792	2.2	49.5985
Sn 189.925	194.598b	ppb	1.4361	0.7	136.731
Sr 216.596	191.861b	ppb	0.3337	0.2	2279.43
Ti 334.941	100.517b	ppb	0.0581	0.1	29206.7
Tl 190.794	38.0990b	ppb	2.9054	7.6	31.6001
V 292.401	102.562b	ppb	0.0086	0.0	2898.84
Zn 206.200	149.325b	ppb	1.7101	1.1	156.625

680-110790-h-2-b (Samp) 3/23/2015, 7:52:34 PM Rack 2, Tube 23

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0047u	-0.2566u	0.0398
Al 308.215	60.6393	59.4147	57.0136
As 188.980	-2.6921u	-0.2629u	0.5096
B 249.678	22.6420	22.2168	21.5109
Ba 389.178	58.6888	58.7652	56.9893
Be 313.042	0.0892	0.0772	0.0870
Ca 370.602	2296	2296	2251
Cd 226.502	-0.0180u	0.0402	0.0152
Co 228.615	0.4869	0.4323	0.6024
Cr 267.716	0.4488	0.6843	0.4102
Cu 324.754	1.7067	1.7333	1.4463
Fe 271.441	63.3102	61.4527	60.3627
K 766.491	2157.41	2160.82	2107.78
Mg 279.078	1673.74	1662.88	1631.03
Mn 257.610	26.2415	26.2542	25.6598
Mo 202.032	-0.0919u	-0.2229u	0.3142
Na 330.237	4825.68	4994.76	4654.71
Ni 231.604	2.0531	1.0220	1.6670
Pb 220.353	-0.8393u	2.3939	2.1075
Sb 206.834	4.1410	0.6917	5.8543
Se 196.026	2.6829	1.6488	6.7712
Sn 189.925	3.9097	-0.6289u	-1.9035u
Sr 216.596	24.8470	23.9714	23.7220
Ti 334.941	0.4882	0.5406	0.5265
Tl 190.794	0.1383	-0.2334u	0.5862
V 292.401	-0.3791u	-0.1045u	-0.0715u
Zn 206.200	30.8011	31.5739	29.2586

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0707	ppb	0.1619	229.1	-8.8429
Al 308.215	59.0225	ppb	1.8444	3.1	808.034
As 188.980	-0.8152	ppb	1.6708	205.0	-5.0175
B 249.678	22.1232	ppb	0.5713	2.6	434.833
Ba 389.178	58.1478	ppb	1.0040	1.7	1291.02
Be 313.042	0.0845	ppb	0.0064	7.6	-302.995
Ca 370.602	2281	ppb	25.82	1.1	7169
Cd 226.502	0.0125	ppb	0.0292	233.7	33.0778
Co 228.615	0.5072	ppb	0.0868	17.1	1.5152

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.5144	ppb	0.1484	28.8	58.2583
Cu 324.754	1.6288	ppb	0.1585	9.7	541.336
Fe 271.441	61.7085	ppb	1.4903	2.4	105.236
K 766.491	2142.00	ppb	29.6893	1.4	98604.6
Mg 279.078	1655.88	ppb	22.1965	1.3	4803.23
Mn 257.610	26.0518	ppb	0.3396	1.3	6029.16
Mo 202.032	-0.0002	ppb	0.2801	144995.7	7.7712
Na 330.237	4825.05	ppb	170.028	3.5	284.936
Ni 231.604	1.5807	ppb	0.5209	33.0	1.5640
Pb 220.353	1.2207	ppb	1.7897	146.6	11.2669
Sb 206.834	3.5623	ppb	2.6295	73.8	6.2763
Se 196.026	3.7009	ppb	2.7087	73.2	1.8886
Sn 189.925	0.4591	ppb	3.0555	665.6	-5.4580
Sr 216.596	24.1802	ppb	0.5908	2.4	289.796
Ti 334.941	0.5185	ppb	0.0271	5.2	128.875
Tl 190.794	0.1637	ppb	0.4104	250.7	-9.8082
V 292.401	-0.1850	ppb	0.1688	91.3	-11.8074
Zn 206.200	30.5445	ppb	1.1788	3.9	33.7014

680-110790-g-3-b (Samp)

3/23/2015, 7:57:19 PM

Rack 2, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1448u	-0.0551u	0.0216
Al 308.215	276.323	275.755	276.196
As 188.980	0.2563	-5.4322u	-0.8044u
B 249.678	13.5200	14.0919	13.7776
Ba 389.178	101.873	101.771	101.287
Be 313.042	0.2187	0.2200	0.2211
Ca 370.602	2180	2183	2183
Cd 226.502	0.0177	0.0080	-0.1079u
Co 228.615	2.6123	3.1526	3.0759
Cr 267.716	0.3615	0.4271	0.4594
Cu 324.754	23.8684	24.1232	23.5543
Fe 271.441	136.214	133.528	135.058
K 766.491	417.989	416.945	416.719
Mg 279.078	1893.07	1899.66	1891.29
Mn 257.610	372.741	372.146	372.301
Mo 202.032	-0.0886u	-0.0783u	-0.0296u
Na 330.237	2112.19	2017.01	2123.27
Ni 231.604	7.5320	8.3984	7.4822
Pb 220.353	10.3448	10.0518	9.9739
Sb 206.834	0.3534	0.3630	2.0754
Se 196.026	0.9182	5.5158	-0.0877
Sn 189.925	-0.7054u	-0.8809u	2.9021
Sr 216.596	22.2622	22.6180	22.6495
Ti 334.941	0.1218	0.1730	0.1549
Tl 190.794	-0.6137u	0.0867	-0.0730
V 292.401	0.0284	0.1549	0.0778
Zn 206.200	88.6082	90.2624	90.0935

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0594	ppb	0.0833	140.1	-5.8810
Al 308.215	276.091	ppb	0.2985	0.1	2409.19

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.9934	ppb	3.0249	151.7	-5.8703
B 249.678	13.7965	ppb	0.2864	2.1	285.060
Ba 389.178	101.643	ppb	0.3131	0.3	2285.14
Be 313.042	0.2199	ppb	0.0012	0.5	-43.2667
Ca 370.602	2182	ppb	1.760	0.1	6866
Cd 226.502	-0.0274	ppb	0.0699	255.3	31.7264
Co 228.615	2.9469	ppb	0.2923	9.9	28.9918
Cr 267.716	0.4160	ppb	0.0499	12.0	54.6245
Cu 324.754	23.8487	ppb	0.2850	1.2	2338.18
Fe 271.441	134.934	ppb	1.3473	1.0	220.744
K 766.491	417.218	ppb	0.6774	0.2	19560.9
Mg 279.078	1894.67	ppb	4.4103	0.2	5485.06
Mn 257.610	372.396	ppb	0.3090	0.1	85004.3
Mo 202.032	-0.0655	ppb	0.0315	48.1	7.3450
Na 330.237	2084.16	ppb	58.4160	2.8	142.051
Ni 231.604	7.8042	ppb	0.5152	6.6	21.0398
Pb 220.353	10.1235	ppb	0.1956	1.9	25.5728
Sb 206.834	0.9306	ppb	0.9914	106.5	2.4611
Se 196.026	2.1155	ppb	2.9874	141.2	1.2191
Sn 189.925	0.4386	ppb	2.1353	486.8	-5.4738
Sr 216.596	22.5099	ppb	0.2151	1.0	269.935
Ti 334.941	0.1499	ppb	0.0259	17.3	22.3600
Tl 190.794	-0.2000	ppb	0.3671	183.5	-10.0342
V 292.401	0.0870	ppb	0.0637	73.2	-4.0099
Zn 206.200	89.6547	ppb	0.9102	1.0	94.8842

Cont Calib Verif (CCV)

3/23/2015, 8:02:04 PM

Rack 2, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	481.144	483.101	487.596
Al 308.215	4697.92	4720.61	4738.07
As 188.980	480.023	485.402	485.220
B 249.678	475.624	479.947	484.677
Ba 389.178	4802.57	4820.52	4845.90
Be 313.042	484.217	486.617	487.383
Ca 370.602	4855	4872	4890
Cd 226.502	480.896	482.858	484.046
Co 228.615	486.644	487.761	491.673
Cr 267.716	4921.09	4941.10	4957.68
Cu 324.754	4902.72	4860.46	4970.99
Fe 271.441	4811.38	4824.66	4859.39
K 766.491	10016.8	10068.6	10140.3
Mg 279.078	4808.61	4829.93	4842.62
Mn 257.610	4892.05	4920.60	4928.74
Mo 202.032	477.689	479.204	479.777
Na 330.237	7193.24	7293.60	7377.59
Ni 231.604	2441.32	2445.26	2456.79
Pb 220.353	475.815	478.454	481.136
Sb 206.834	949.152	954.388	958.890
Se 196.026	4825.66	4821.39	4850.78
Sn 189.925	4820.73	4804.36	4823.49
Sr 216.596	2415.66	2426.38	2436.92
Ti 334.941	481.729	484.206	486.803

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	4835.32	4856.47	4872.90
V 292.401	4792.86	4820.81	4834.44
Zn 206.200	2420.99	2441.87	2441.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	483.947	ppb	3.3080	0.7	43489.2	96.78940
Al 308.215	4718.87	ppb	20.1338	0.4	35892.9	94.37737
As 188.980	483.549	ppb	3.0544	0.6	345.168	96.70970
B 249.678	480.083	ppb	4.5282	0.9	8662.45	96.01651
Ba 389.178	4823.00	ppb	21.7710	0.5	110158	96.45996
Be 313.042	486.072	ppb	1.6521	0.3	930607	97.21446
Ca 370.602	4872	ppb	17.33	0.4	15649	97.44542
Cd 226.502	482.600	ppb	1.5910	0.3	21647.2	96.51999
Co 228.615	488.693	ppb	2.6409	0.5	5505.38	97.73851
Cr 267.716	4939.96	ppb	18.3230	0.4	265676	98.79916
Cu 324.754	4911.39	ppb	55.7701	1.1	397516	98.22781
Fe 271.441	4831.81	ppb	24.7904	0.5	7706.20	96.63612
K 766.491	10075.3	ppb	62.0186	0.6	462171	100.75259
Mg 279.078	4827.05	ppb	17.1886	0.4	13850.9	96.54105
Mn 257.610	4913.80	ppb	19.2658	0.4	1120568	98.27598
Mo 202.032	478.890	ppb	1.0791	0.2	3102.54	95.77798
Na 330.237	7288.14	ppb	92.2985	1.3	381.984	97.17521
Ni 231.604	2447.79	ppb	8.0386	0.3	7656.09	97.91160
Pb 220.353	478.469	ppb	2.6606	0.6	778.462	95.69371
Sb 206.834	954.143	ppb	4.8736	0.5	1442.93	95.41434
Se 196.026	4832.61	ppb	15.8800	0.3	2294.98	96.65219
Sn 189.925	4816.19	ppb	10.3427	0.2	3520.46	96.32383
Sr 216.596	2426.32	ppb	10.6264	0.4	28631.2	97.05284
Ti 334.941	484.246	ppb	2.5374	0.5	140782	96.84914
Tl 190.794	4854.90	ppb	18.8416	0.4	5353.65	97.09793
V 292.401	4816.04	ppb	21.1954	0.4	137445	96.32074
Zn 206.200	2434.95	ppb	12.0863	0.5	2512.95	97.39804

Cont Calib Blank (CCB) 3/23/2015, 8:06:48 PM Rack 2, Tube 26
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0672	0.0485	-0.1454u
Al 308.215	4.5796	2.6331	1.9189
As 188.980	-1.1015u	-1.5252u	-3.5380u
B 249.678	7.3460	6.6626	5.8823
Ba 389.178	-0.7043u	-0.2189u	-0.8226u
Be 313.042	0.0356	0.0316	0.0290
Ca 370.602	-3.242u	-2.015u	-3.660u
Cd 226.502	-0.1730u	-0.0350u	-0.1594u
Co 228.615	-0.2851u	-0.1493u	-0.1221u
Cr 267.716	0.1490	0.2215	0.1393
Cu 324.754	-0.2172u	-0.2426u	-0.3127u
Fe 271.441	3.9449	-3.0037u	-1.6994u
K 766.491	-3.1913u	-3.2896u	-3.1839u
Mg 279.078	-0.6958u	-0.7150u	-1.4396u
Mn 257.610	0.0695	0.0552	0.0348
Mo 202.032	-0.0841u	0.0386	-0.2855u
Na 330.237	100.794	-57.2585u	-108.107u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	-0.1410u	-0.1495u	0.4130
Pb 220.353	0.9212	1.7238	-0.1341u
Sb 206.834	-0.6510u	1.3701	2.1772
Se 196.026	-2.6727u	-2.0729u	6.6604
Sn 189.925	0.1225	4.9888	-0.8735u
Sr 216.596	0.3154	-0.0937u	0.2898
Ti 334.941	0.1605	0.1224	0.0949
Tl 190.794	1.1362	2.0228	2.3317
V 292.401	0.3615	-0.1808u	-0.0104u
Zn 206.200	-2.8119u	-2.5336u	-1.9145u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0099	ppb	0.1177	1192.1	-2.5901	-0.00987
Al 308.215	3.0439	ppb	1.3771	45.2	395.146	3.04389
As 188.980	-2.0549	ppb	1.3018	63.4	-5.9138	-2.05490
B 249.678	6.6303	ppb	0.7324	11.0	156.702	6.63028
Ba 389.178	-0.5820	ppb	0.3199	55.0	-54.1095	-0.58195
Be 313.042	0.0321	ppb	0.0033	10.4	-403.374	0.03208
Ca 370.602	-2.972	ppb	0.8551	28.8	12.80	-2.97218
Cd 226.502	-0.1224	ppb	0.0761	62.1	26.6823	-0.12245
Co 228.615	-0.1855	ppb	0.0873	47.1	-6.2982	-0.18550
Cr 267.716	0.1699	ppb	0.0449	26.4	39.4809	0.16994
Cu 324.754	-0.2575	ppb	0.0494	19.2	388.761	-0.25751
Fe 271.441	-0.2527	ppb	3.6933	1461.3	7.6923	-0.25273
K 766.491	-3.2216	ppb	0.0590	1.8	292.969	-3.22160
Mg 279.078	-0.9501	ppb	0.4240	44.6	19.6126	-0.95015
Mn 257.610	0.0532	ppb	0.0174	32.8	87.4085	0.05316
Mo 202.032	-0.1104	ppb	0.1636	148.2	7.0607	-0.11037
Na 330.237	-21.5240	ppb	108.939	506.1	34.0189	-21.52404
Ni 231.604	0.0408	ppb	0.3223	789.3	-3.2590	0.04084
Pb 220.353	0.8370	ppb	0.9318	111.3	10.6448	0.83696
Sb 206.834	0.9654	ppb	1.4569	150.9	2.5069	0.96541
Se 196.026	0.6383	ppb	5.2240	818.5	0.4282	0.63826
Sn 189.925	1.4126	ppb	3.1369	222.1	-4.7613	1.41263
Sr 216.596	0.1705	ppb	0.2291	134.4	4.9832	0.17047
Ti 334.941	0.1259	ppb	0.0330	26.2	12.1818	0.12591
Tl 190.794	1.8302	ppb	0.6206	33.9	-7.9743	1.83023
V 292.401	0.0568	ppb	0.2773	488.5	-4.7933	0.05677
Zn 206.200	-2.4200	ppb	0.4594	19.0	-0.4189	-2.42002

680-110790-g-4-b (Samp)

3/23/2015, 8:11:31 PM

Rack 2, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1598u	-0.0170u	-0.2788u
Al 308.215	48.1178	46.3521	52.1008
As 188.980	-1.4427u	-1.1203u	-1.1707u
B 249.678	12.6262	13.1753	13.1766
Ba 389.178	43.8794	44.9533	44.8429
Be 313.042	0.1140	0.1146	0.1071
Ca 370.602	2582	2570	2639
Cd 226.502	-0.3551u	-0.2581u	-0.3170u
Co 228.615	-0.2654u	-0.1429u	-0.7159u
Cr 267.716	0.3632	0.2223	0.2411

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	-0.4327u	-0.4588u	-0.1095u
Fe 271.441	625.530	624.832	641.049
K 766.491	1865.30	1862.55	1902.90
Mg 279.078	1100.68	1106.55	1126.80
Mn 257.610	28.1640	28.1284	28.7209
Mo 202.032	-0.0553u	-0.4028u	-0.0217u
Na 330.237	4225.55	4261.38	4373.98
Ni 231.604	0.1876	0.6937	-0.4383u
Pb 220.353	0.1060	-0.6673u	0.2130
Sb 206.834	1.2042	2.1920	0.3252
Se 196.026	0.2129	7.6976	-4.0126u
Sn 189.925	-0.7071u	0.7634	1.3386
Sr 216.596	81.2819	82.5099	84.0819
Ti 334.941	0.4989	0.4930	0.5238
Tl 190.794	2.4321	-4.4386u	0.8709
V 292.401	0.2203	0.1774	0.3630
Zn 206.200	10.0713	10.9829	10.0524

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1519	ppb	0.1311	86.3	-18.3381
Al 308.215	48.8569	ppb	2.9447	6.0	733.168
As 188.980	-1.2446	ppb	0.1734	13.9	-5.3321
B 249.678	12.9927	ppb	0.3174	2.4	269.410
Ba 389.178	44.5585	ppb	0.5907	1.3	979.885
Be 313.042	0.1119	ppb	0.0042	3.7	-250.251
Ca 370.602	2597	ppb	36.67	1.4	8152
Cd 226.502	-0.3101	ppb	0.0489	15.8	21.8611
Co 228.615	-0.3747	ppb	0.3018	80.5	-8.3780
Cr 267.716	0.2755	ppb	0.0765	27.8	45.6799
Cu 324.754	-0.3337	ppb	0.1946	58.3	382.901
Fe 271.441	630.470	ppb	9.1681	1.5	999.916
K 766.491	1876.92	ppb	22.5403	1.2	86456.3
Mg 279.078	1111.34	ppb	13.7009	1.2	3230.79
Mn 257.610	28.3378	ppb	0.3323	1.2	6547.78
Mo 202.032	-0.1599	ppb	0.2110	131.9	6.7116
Na 330.237	4286.97	ppb	77.4546	1.8	257.130
Ni 231.604	0.1477	ppb	0.5671	384.0	-2.8699
Pb 220.353	-0.1161	ppb	0.4804	413.7	9.1690
Sb 206.834	1.2405	ppb	0.9339	75.3	2.9192
Se 196.026	1.2993	ppb	5.9302	456.4	0.7546
Sn 189.925	0.4650	ppb	1.0550	226.9	-5.4538
Sr 216.596	82.6246	ppb	1.4035	1.7	981.790
Ti 334.941	0.5052	ppb	0.0164	3.2	124.164
Tl 190.794	-0.3785	ppb	3.6017	951.5	-10.4950
V 292.401	0.2536	ppb	0.0972	38.3	0.5627
Zn 206.200	10.3689	ppb	0.5319	5.1	12.8388

680-110790-g-5-b (Samp)

3/23/2015, 8:16:15 PM

Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0413u	0.0302	-0.0298u
Al 308.215	7.2500	8.0924	7.9672
As 188.980	-1.7563u	-3.2312u	0.5496

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	46.4234	46.4429	46.3344
Ba 389.178	17.2406	17.5549	17.8369
Be 313.042	0.0247	0.0311	0.0336
Ca 370.602	10748	10703	10737
Cd 226.502	0.0141	-0.0987u	-0.0545u
Co 228.615	0.1239	0.0605	0.0533
Cr 267.716	0.5536	0.6136	0.5648
Cu 324.754	0.1228	-0.0388u	-0.0587u
Fe 271.441	484.856	481.328	480.107
K 766.491	3455.26	3460.53	3449.08
Mg 279.078	3921.80	3895.16	3921.56
Mn 257.610	104.270	103.860	104.179
Mo 202.032	1.1727	1.4037	1.2212
Na 330.237	86262.6	86139.8	86138.6
Ni 231.604	3.6425	3.8601	4.8762
Pb 220.353	1.4181	0.8242	-0.6486u
Sb 206.834	1.7992	1.1120	-0.8847u
Se 196.026	11.7101	-1.3494u	7.6233
Sn 189.925	-2.5172u	-0.4142u	0.4179
Sr 216.596	64.2771	63.6368	64.0779
Ti 334.941	0.0209	0.0760	0.0633
Tl 190.794	-0.7071u	0.0417	-3.2105u
V 292.401	0.8320	0.9182	0.7652
Zn 206.200	8.1633	5.9762	7.7413

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0136	ppb	0.0384	282.1	-4.8433
Al 308.215	7.7698	ppb	0.4545	5.9	430.224
As 188.980	-1.4793	ppb	1.9055	128.8	-5.5013
B 249.678	46.4002	ppb	0.0579	0.1	869.729
Ba 389.178	17.5441	ppb	0.2983	1.7	368.639
Be 313.042	0.0298	ppb	0.0046	15.5	-414.094
Ca 370.602	10729	ppb	23.86	0.2	33635
Cd 226.502	-0.0464	ppb	0.0568	122.6	32.3375
Co 228.615	0.0792	ppb	0.0389	49.1	-3.3209
Cr 267.716	0.5773	ppb	0.0319	5.5	63.7559
Cu 324.754	0.0084	ppb	0.0995	1178.2	410.547
Fe 271.441	482.097	ppb	2.4661	0.5	766.560
K 766.491	3454.96	ppb	5.7327	0.2	158775
Mg 279.078	3912.84	ppb	15.3140	0.4	11318.6
Mn 257.610	104.103	ppb	0.2151	0.2	23845.5
Mo 202.032	1.2659	ppb	0.1218	9.6	15.9470
Na 330.237	86180.3	ppb	71.2737	0.1	4504.03
Ni 231.604	4.1263	ppb	0.6585	16.0	9.5670
Pb 220.353	0.5312	ppb	1.0641	200.3	10.2085
Sb 206.834	0.6755	ppb	1.3942	206.4	2.0753
Se 196.026	5.9947	ppb	6.6804	111.4	2.9997
Sn 189.925	-0.8378	ppb	1.5127	180.6	-6.3832
Sr 216.596	63.9973	ppb	0.3277	0.5	764.187
Ti 334.941	0.0534	ppb	0.0289	54.1	-8.6110
Tl 190.794	-1.2920	ppb	1.7032	131.8	-11.4425
V 292.401	0.8385	ppb	0.0767	9.1	16.4279
Zn 206.200	7.2936	ppb	1.1603	15.9	9.6502

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

680-110790-h-6-b (Samp) 3/23/2015, 8:21:00 PM Rack 2, Tube 29

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0468u	-0.1779u	-0.0860u
Al 308.215	89.1695	90.5314	90.0792
As 188.980	-2.5115u	-3.3144u	-1.4947u
B 249.678	9.3863	9.6134	9.1383
Ba 389.178	110.139	110.783	110.569
Be 313.042	0.4420	0.4451	0.4449
Ca 370.602	4795	4794	4783
Cd 226.502	-0.0858u	0.0679	0.1253
Co 228.615	6.0227	6.1646	5.9599
Cr 267.716	0.0363	0.0337	0.0552
Cu 324.754	1.2603	1.0960	1.3729
Fe 271.441	37.5289	37.1993	34.9243
K 766.491	1283.18	1288.30	1284.23
Mg 279.078	3616.42	3618.16	3606.98
Mn 257.610	52.1168	52.1092	51.9862
Mo 202.032	-0.5707u	-0.4314u	-0.3279u
Na 330.237	29821.4	29846.8	29733.1
Ni 231.604	7.9380	8.9720	7.6559
Pb 220.353	2.4323	3.5051	-0.1116u
Sb 206.834	-0.9811u	-0.4273u	2.0123
Se 196.026	1.1857	3.6075	0.4417
Sn 189.925	-0.2681u	-2.2544u	-0.9370u
Sr 216.596	46.5769	46.2612	46.1846
Ti 334.941	0.0393	0.0171	0.0298
Tl 190.794	1.8133	-1.5741u	1.3135
V 292.401	-0.1745u	-0.0601u	0.0089
Zn 206.200	43.9911	44.3872	46.7545

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1036	ppb	0.0673	65.0	-12.4958
Al 308.215	89.9267	ppb	0.6936	0.8	1035.94
As 188.980	-2.4402	ppb	0.9119	37.4	-6.1927
B 249.678	9.3793	ppb	0.2376	2.5	205.970
Ba 389.178	110.497	ppb	0.3284	0.3	2490.96
Be 313.042	0.4440	ppb	0.0018	0.4	383.628
Ca 370.602	4791	ppb	6.864	0.1	15032
Cd 226.502	0.0358	ppb	0.1091	305.0	33.8440
Co 228.615	6.0491	ppb	0.1048	1.7	63.9339
Cr 267.716	0.0417	ppb	0.0117	28.1	33.4233
Cu 324.754	1.2431	ppb	0.1393	11.2	510.115
Fe 271.441	36.5508	ppb	1.4182	3.9	66.2974
K 766.491	1285.24	ppb	2.7040	0.2	59340.7
Mg 279.078	3613.85	ppb	6.0163	0.2	10456.4
Mn 257.610	52.0707	ppb	0.0733	0.1	11977.6
Mo 202.032	-0.4433	ppb	0.1219	27.5	4.9036
Na 330.237	29800.4	ppb	59.6994	0.2	1579.93
Ni 231.604	8.1886	ppb	0.6929	8.5	22.2270
Pb 220.353	1.9419	ppb	1.8575	95.7	12.4219
Sb 206.834	0.2013	ppb	1.5926	791.2	1.4024
Se 196.026	1.7449	ppb	1.6553	94.9	0.9662
Sn 189.925	-1.1532	ppb	1.0106	87.6	-6.6310
Sr 216.596	46.3409	ppb	0.2079	0.4	552.566

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0287	ppb	0.0112	38.9	-12.0014
Tl 190.794	0.5176	ppb	1.8286	353.3	-9.3832
V 292.401	-0.0752	ppb	0.0926	123.2	-8.7177
Zn 206.200	45.0443	ppb	1.4943	3.3	48.7090

680-110790-h-7-b (Samp) 3/23/2015, 8:25:43 PM Rack 2, Tube 30

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0168	-0.0569u	-0.1142u
Al 308.215	236.584	231.448	230.581
As 188.980	-5.2498u	0.7613	1.4915
B 249.678	30.2764	29.3245	29.4826
Ba 389.178	98.0230	96.3900	95.8762
Be 313.042	0.1857	0.1959	0.1848
Ca 370.602	4102	3993	3983
Cd 226.502	0.0139	0.0494	0.1818
Co 228.615	1.7422	1.8584	1.8719
Cr 267.716	1.1872	0.9649	1.2504
Cu 324.754	1.6945	1.5149	1.4486
Fe 271.441	149.361	146.654	137.533
K 766.491	1684.97	1635.65	1645.40
Mg 279.078	2024.78	1975.56	1970.97
Mn 257.610	390.549	381.768	381.891
Mo 202.032	-0.3556u	0.2752	-0.3645u
Na 330.237	6882.71	6734.95	6723.09
Ni 231.604	1.5280	1.1427	1.7954
Pb 220.353	4.2725	0.1085	3.0288
Sb 206.834	1.2124	1.2240	-2.2566u
Se 196.026	0.9726	-5.7586u	5.3639
Sn 189.925	-2.3171u	1.8871	1.0965
Sr 216.596	28.6017	27.6456	27.3640
Ti 334.941	1.9579	1.9426	1.8793
Tl 190.794	-0.4019u	0.0563	2.8897
V 292.401	0.1882	0.0831	0.2511
Zn 206.200	20.9208	19.5187	20.4623

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0514	ppb	0.0657	127.7	-5.2953
Al 308.215	232.871	ppb	3.2443	1.4	2090.42
As 188.980	-0.9990	ppb	3.6994	370.3	-5.1510
B 249.678	29.6945	ppb	0.5101	1.7	570.528
Ba 389.178	96.7631	ppb	1.1210	1.2	2173.88
Be 313.042	0.1888	ppb	0.0062	3.3	-102.874
Ca 370.602	4026	ppb	65.78	1.6	12645
Cd 226.502	0.0817	ppb	0.0885	108.3	36.6329
Co 228.615	1.8241	ppb	0.0713	3.9	16.3863
Cr 267.716	1.1342	ppb	0.1500	13.2	93.4053
Cu 324.754	1.5527	ppb	0.1272	8.2	535.215
Fe 271.441	144.516	ppb	6.1971	4.3	235.685
K 766.491	1655.34	ppb	26.1192	1.6	76301.7
Mg 279.078	1990.44	ppb	29.8332	1.5	5761.32
Mn 257.610	384.736	ppb	5.0351	1.3	87818.8
Mo 202.032	-0.1483	ppb	0.3668	247.4	6.8086

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	6780.25	ppb	88.9293	1.3	386.437
Ni 231.604	1.4887	ppb	0.3282	22.0	1.2794
Pb 220.353	2.4699	ppb	2.1375	86.5	13.3413
Sb 206.834	0.0600	ppb	2.0062	3346.1	1.2081
Se 196.026	0.1927	ppb	5.6021	2907.7	0.3095
Sn 189.925	0.2222	ppb	2.2343	1005.7	-5.6309
Sr 216.596	27.8705	ppb	0.6487	2.3	334.187
Ti 334.941	1.9266	ppb	0.0417	2.2	538.755
Tl 190.794	0.8480	ppb	1.7829	210.2	-8.8767
V 292.401	0.1742	ppb	0.0849	48.7	-1.5759
Zn 206.200	20.3006	ppb	0.7149	3.5	23.1003

680-110790-g-9-b (Samp)

3/23/2015, 8:30:27 PM

Rack 2, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6185u	-0.9785u	-0.7308u
Al 308.215	1642.32	1679.37	1678.33
As 188.980	0.2975	2.2959	3.3259
B 249.678	23.6409	24.8673	24.6515
Ba 389.178	21.4311	22.1921	22.3444
Be 313.042	0.3103	0.3095	0.3080
Ca 370.602	22826	23341	23329
Cd 226.502	-0.0724u	0.0965	0.1619
Co 228.615	2.2921	2.6244	2.5416
Cr 267.716	0.1544	0.2296	0.2636
Cu 324.754	8.3871	8.6768	8.8838
Fe 271.441	301.645	309.220	307.781
K 766.491	2102.86	2154.08	2156.41
Mg 279.078	7373.62	7522.68	7522.24
Mn 257.610	165.156	168.594	168.650
Mo 202.032	-0.2445u	-0.4464u	-0.0206u
Na 330.237	60184.1	61546.4	61460.6
Ni 231.604	5.1426	4.3184	5.3218
Pb 220.353	6.4384	5.5921	6.8758
Sb 206.834	2.8620	1.2513	0.4832
Se 196.026	4.6038	12.8283	2.0381
Sn 189.925	0.6731	0.8394	-1.1859u
Sr 216.596	263.176	268.191	268.687
Ti 334.941	0.0069	0.0091	0.0089
Tl 190.794	1.4176	2.7524	-1.0936u
V 292.401	-0.4540u	-0.2366u	-0.1809u
Zn 206.200	63.3166	65.8462	64.1309

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7759	ppb	0.1842	23.7	-80.4864
Al 308.215	1666.67	ppb	21.0932	1.3	12666.4
As 188.980	1.9731	ppb	1.5398	78.0	-3.0022
B 249.678	24.3866	ppb	0.6547	2.7	474.842
Ba 389.178	21.9892	ppb	0.4893	2.2	477.584
Be 313.042	0.3092	ppb	0.0011	0.4	128.646
Ca 370.602	23165	ppb	294.3	1.3	72600
Cd 226.502	0.0620	ppb	0.1209	195.1	36.3874
Co 228.615	2.4860	ppb	0.1730	7.0	23.8174

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2159	ppb	0.0559	25.9	44.0883
Cu 324.754	8.6492	ppb	0.2495	2.9	1109.15
Fe 271.441	306.215	ppb	4.0231	1.3	490.132
K 766.491	2137.78	ppb	30.2666	1.4	98411.3
Mg 279.078	7472.85	ppb	85.9306	1.1	21596.3
Mn 257.610	167.467	ppb	2.0014	1.2	38322.0
Mo 202.032	-0.2372	ppb	0.2130	89.8	6.2267
Na 330.237	61063.7	ppb	762.984	1.2	3200.89
Ni 231.604	4.9276	ppb	0.5351	10.9	12.0541
Pb 220.353	6.3021	ppb	0.6526	10.4	19.4132
Sb 206.834	1.5322	ppb	1.2140	79.2	3.3379
Se 196.026	6.4901	ppb	5.6370	86.9	3.2482
Sn 189.925	0.1089	ppb	1.1244	1032.8	-5.6976
Sr 216.596	266.684	ppb	3.0488	1.1	3165.34
Ti 334.941	0.0083	ppb	0.0012	14.4	-13.4330
Tl 190.794	1.0255	ppb	1.9528	190.4	-8.8159
V 292.401	-0.2905	ppb	0.1443	49.7	-15.2260
Zn 206.200	64.4312	ppb	1.2913	2.0	68.7835

680-110790-h-10-b (Samp)

3/23/2015, 8:35:11 PM

Rack 2, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1226u	-0.0474	-0.3369u
Al 308.215	6.1854	6.1859	7.4502
As 188.980	-1.5752u	-0.8406u	0.1904
B 249.678	11.6591	11.1874	11.5635
Ba 389.178	371.002	370.849	378.215
Be 313.042	0.0262	0.0225	0.0095
Ca 370.602	1264	1262	1293
Cd 226.502	-0.0747u	-0.2008u	-0.0853u
Co 228.615	0.5442	0.0436	-0.4790u
Cr 267.716	-0.0550	-0.0551	-0.1630u
Cu 324.754	-0.0135u	-0.5320u	0.0406
Fe 271.441	426.776	427.377	434.455
K 766.491	815.471	812.126	832.319
Mg 279.078	881.197	882.188	901.009
Mn 257.610	1649.67	1648.88	1683.35
Mo 202.032	0.0490	-0.2017u	-0.2575u
Na 330.237	10288.1	10370.8	10643.6
Ni 231.604	0.2978	-0.6912u	-0.9070u
Pb 220.353	1.3218	-1.1787u	0.2622
Sb 206.834	-2.2423u	-0.3455u	3.1635
Se 196.026	-4.2071u	6.6673	-0.8752u
Sn 189.925	-1.9378u	-2.3503u	-3.8968u
Sr 216.596	11.5186	11.7111	12.2142
Ti 334.941	0.0290	0.0014	0.0076
Tl 190.794	-1.9988u	-1.5972u	-0.8918u
V 292.401	-0.0332u	0.0164	-0.0147u
Zn 206.200	10.9447	9.5887	10.3019

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1690	ppb	0.1502	88.9	-8.3050
Al 308.215	6.6072	ppb	0.7301	11.0	421.467

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.7418	ppb	0.8869	119.6	-4.9670
B 249.678	11.4700	ppb	0.2493	2.2	242.525
Ba 389.178	373.356	ppb	4.2093	1.1	8489.92
Be 313.042	0.0194	ppb	0.0087	45.0	-429.105
Ca 370.602	1273	ppb	17.23	1.4	4051
Cd 226.502	-0.1202	ppb	0.0699	58.2	29.1871
Co 228.615	0.0363	ppb	0.5116	1409.9	-3.7711
Cr 267.716	-0.0910	ppb	0.0623	68.5	33.8987
Cu 324.754	-0.1683	ppb	0.3161	187.8	396.183
Fe 271.441	429.536	ppb	4.2705	1.0	683.857
K 766.491	819.972	ppb	10.8227	1.3	38018.4
Mg 279.078	888.131	ppb	11.1632	1.3	2550.41
Mn 257.610	1660.64	ppb	19.6783	1.2	378740
Mo 202.032	-0.1367	ppb	0.1633	119.4	6.8708
Na 330.237	10434.2	ppb	186.001	1.8	575.969
Ni 231.604	-0.4335	ppb	0.6424	148.2	-4.7067
Pb 220.353	0.1351	ppb	1.2551	929.1	9.8973
Sb 206.834	0.1919	ppb	2.7427	1429.1	1.3903
Se 196.026	0.5283	ppb	5.5714	1054.5	0.7746
Sn 189.925	-2.7283	ppb	1.0327	37.9	-7.7900
Sr 216.596	11.8146	ppb	0.3592	3.0	143.717
Ti 334.941	0.0126	ppb	0.0145	114.5	-19.9710
Tl 190.794	-1.4960	ppb	0.5604	37.5	-10.8556
V 292.401	-0.0105	ppb	0.0251	239.0	-6.9566
Zn 206.200	10.2785	ppb	0.6783	6.6	12.7390

680-110790-h-11-b (Samp)

3/23/2015, 8:39:56 PM

Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1530u	-0.0764u	-0.3074u
Al 308.215	5.4695	3.4868	2.3566
As 188.980	3.3414	1.5178	-1.4481u
B 249.678	14.5108	14.5676	13.9796
Ba 389.178	31.1011	30.0240	29.9465
Be 313.042	0.0284	0.0185	0.0237
Ca 370.602	3040	3037	3038
Cd 226.502	-0.1923u	-0.0950u	-0.0232
Co 228.615	0.5824	-0.2287u	0.0577
Cr 267.716	0.0335	0.1511	0.0708
Cu 324.754	-0.4388u	-0.3685u	-0.4252u
Fe 271.441	208.647	215.335	205.640
K 766.491	719.399	723.857	725.701
Mg 279.078	3515.05	3509.76	3517.50
Mn 257.610	151.962	152.256	152.535
Mo 202.032	1.4567	0.9762	1.6615
Na 330.237	27881.8	28074.6	28122.4
Ni 231.604	0.6339	0.6999	0.3963
Pb 220.353	0.5076	-0.2337u	3.4168
Sb 206.834	0.7064	2.0967	-2.2696u
Se 196.026	3.0913	1.3491	1.1730
Sn 189.925	0.1349	-0.4432u	-0.2553u
Sr 216.596	29.5617	29.1678	30.2465
Ti 334.941	0.0029	0.0558	0.0056

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	0.0836	2.1901	0.1952
V 292.401	0.0796	-0.0581u	-0.0938u
Zn 206.200	3.7214	1.5317	1.9015

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1789	ppb	0.1176	65.7	-18.1519
Al 308.215	3.7710	ppb	1.5758	41.8	400.559
As 188.980	1.1370	ppb	2.4174	212.6	-3.6068
B 249.678	14.3527	ppb	0.3244	2.3	294.851
Ba 389.178	30.3572	ppb	0.6454	2.1	660.265
Be 313.042	0.0235	ppb	0.0050	21.2	-422.275
Ca 370.602	3038	ppb	1.385	0.0	9543
Cd 226.502	-0.1035	ppb	0.0849	82.0	28.6042
Co 228.615	0.1371	ppb	0.4114	300.0	-2.6936
Cr 267.716	0.0851	ppb	0.0601	70.6	36.2919
Cu 324.754	-0.4109	ppb	0.0373	9.1	376.531
Fe 271.441	209.874	ppb	4.9625	2.4	338.308
K 766.491	722.986	ppb	3.2402	0.4	33573.7
Mg 279.078	3514.10	ppb	3.9561	0.1	10166.2
Mn 257.610	152.251	ppb	0.2865	0.2	34820.3
Mo 202.032	1.3648	ppb	0.3518	25.8	16.6005
Na 330.237	28026.3	ppb	127.370	0.5	1488.41
Ni 231.604	0.5767	ppb	0.1597	27.7	-1.5650
Pb 220.353	1.2302	ppb	1.9296	156.8	11.3169
Sb 206.834	0.1779	ppb	2.2306	1254.2	1.3392
Se 196.026	1.8711	ppb	1.0603	56.7	1.0515
Sn 189.925	-0.1879	ppb	0.2949	157.0	-5.9248
Sr 216.596	29.6587	ppb	0.5458	1.8	355.063
Ti 334.941	0.0214	ppb	0.0298	139.0	-14.1412
Tl 190.794	0.8229	ppb	1.1853	144.0	-9.0444
V 292.401	-0.0241	ppb	0.0916	380.4	-7.6975
Zn 206.200	2.3849	ppb	1.1722	49.2	4.5615

680-110790-g-12-b (Samp)

3/23/2015, 8:44:40 PM

Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.2746u	-3.2734u	-3.4748u
Al 308.215	22277.3	22174.8	22310.3
As 188.980	8.8183	6.5126	10.5153
B 249.678	55.3840	55.2169	55.6982
Ba 389.178	133.490	133.234	133.169
Be 313.042	4.6961	4.6862	4.6971
Ca 370.602	39795	39590	39702
Cd 226.502	1.3523	1.4671	1.5063
Co 228.615	20.7554	20.6561	21.4929
Cr 267.716	4.5676	4.5975	4.4231
Cu 324.754	98.1193	97.1102	99.2488
Fe 271.441	367.592	371.121	367.436
K 766.491	6237.64	6185.80	6244.59
Mg 279.078	27377.4	27251.5	27358.3
Mn 257.610	680.902	678.790	680.727
Mo 202.032	-0.1922u	-0.2190u	0.1046
Na 330.237	14976.7	15059.5	14997.9

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	26.4220	26.1464	25.9385
Pb 220.353	12.9723	14.9247	15.5074
Sb 206.834	-0.2603u	-1.4865u	1.2255
Se 196.026	3.5657	3.6972	5.9597
Sn 189.925	1.5778	-0.4719u	0.5266
Sr 216.596	385.080	383.284	386.240
Ti 334.941	0.0345	0.0370	0.0160
Tl 190.794	1.7678	2.1558	0.1852
V 292.401	0.6621	0.5873	0.4985
Zn 206.200	164.767	164.643	167.099

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.3410	ppb	0.1159	3.5	-313.015
Al 308.215	22254.1	ppb	70.6655	0.3	164524
As 188.980	8.6154	ppb	2.0090	23.3	1.8021
B 249.678	55.4330	ppb	0.2444	0.4	1032.22
Ba 389.178	133.298	ppb	0.1694	0.1	3062.39
Be 313.042	4.6931	ppb	0.0060	0.1	8536.21
Ca 370.602	39696	ppb	102.8	0.3	124404
Cd 226.502	1.4419	ppb	0.0800	5.5	99.0668
Co 228.615	20.9681	ppb	0.4572	2.2	232.004
Cr 267.716	4.5294	ppb	0.0933	2.1	277.910
Cu 324.754	98.1595	ppb	1.0699	1.1	8347.44
Fe 271.441	368.716	ppb	2.0838	0.6	590.564
K 766.491	6222.68	ppb	32.1266	0.5	285614
Mg 279.078	27329.1	ppb	67.8274	0.2	78913.0
Mn 257.610	680.140	ppb	1.1719	0.2	155382
Mo 202.032	-0.1022	ppb	0.1796	175.7	7.0964
Na 330.237	15011.4	ppb	43.0161	0.3	811.441
Ni 231.604	26.1690	ppb	0.2425	0.9	78.4965
Pb 220.353	14.4681	ppb	1.3278	9.2	32.2873
Sb 206.834	-0.1738	ppb	1.3581	781.5	0.9237
Se 196.026	4.4075	ppb	1.3458	30.5	2.3823
Sn 189.925	0.5442	ppb	1.0250	188.4	-5.3926
Sr 216.596	384.868	ppb	1.4895	0.4	4568.55
Ti 334.941	0.0291	ppb	0.0115	39.4	32.1996
Tl 190.794	1.3696	ppb	1.0439	76.2	-8.1300
V 292.401	0.5826	ppb	0.0819	14.1	9.9442
Zn 206.200	165.503	ppb	1.3839	0.8	173.388

680-110790-g-13-b (Samp)

3/23/2015, 8:49:26 PM

Rack 2, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1222u	-1.5609u	-1.3152u
Al 308.215	2940.87	2951.80	2948.42
As 188.980	8.8059	-1.3178u	1.5080
B 249.678	84.8941	86.1481	86.0666
Ba 389.178	11.0080	10.9109	10.1759
Be 313.042	2.0349	2.0329	2.0355
Ca 370.602	43564	43671	43888
Cd 226.502	-0.6572	-0.6364	-0.7232
Co 228.615	16.8015	16.7967	16.0160
Cr 267.716	0.8987	0.7567	0.8477

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	-0.6058u	-0.6253u	-0.6208u
Fe 271.441	15621.5	15657.0	15661.3
K 766.491	13356.9	13382.3	13359.5
Mg 279.078	32761.0	32798.6	32851.6
Mn 257.610	862.885	864.254	865.826
Mo 202.032	-0.4710u	-0.5389u	-0.5608u
Na 330.237	27012.8	27202.3	27281.0
Ni 231.604	45.1978	45.7954	47.3984
Pb 220.353	1.1220	1.1776	-0.5773
Sb 206.834	1.9588	-3.6095u	-0.6646u
Se 196.026	1.1410	2.4051	6.3363
Sn 189.925	-1.5466u	-0.0527u	1.0075
Sr 216.596	1202.80	1200.66	1200.04
Ti 334.941	1.2495	1.2741	1.2077
Tl 190.794	-1.2463u	-3.7189u	2.2136
V 292.401	8.6826	8.6350	8.4091
Zn 206.200	111.738	109.261	108.975

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3328	ppb	0.2199	16.5	-163.923
Al 308.215	2947.03	ppb	5.5980	0.2	22113.5
As 188.980	2.9987	ppb	5.2239	174.2	-2.3698
B 249.678	85.7029	ppb	0.7017	0.8	1537.63
Ba 389.178	10.6982	ppb	0.4550	4.3	285.594
Be 313.042	2.0344	ppb	0.0014	0.1	3442.24
Ca 370.602	43708	ppb	165.2	0.4	136805
Cd 226.502	-0.6722	ppb	0.0453	6.7	91.5714
Co 228.615	16.5381	ppb	0.4521	2.7	183.164
Cr 267.716	0.8344	ppb	0.0720	8.6	87.3302
Cu 324.754	-0.6173	ppb	0.0102	1.7	367.003
Fe 271.441	15646.6	ppb	21.8157	0.1	24624.8
K 766.491	13366.2	ppb	13.9884	0.1	612991
Mg 279.078	32803.7	ppb	45.5262	0.1	94725.1
Mn 257.610	864.322	ppb	1.4716	0.2	197471
Mo 202.032	-0.5236	ppb	0.0468	8.9	3.6771
Na 330.237	27165.3	ppb	137.885	0.5	1438.48
Ni 231.604	46.1305	ppb	1.1379	2.5	142.290
Pb 220.353	0.5741	ppb	0.9975	173.8	11.4208
Sb 206.834	-0.7718	ppb	2.7857	361.0	0.3013
Se 196.026	3.2941	ppb	2.7093	82.2	2.0411
Sn 189.925	-0.1973	ppb	1.2832	650.5	-5.9319
Sr 216.596	1201.17	ppb	1.4466	0.1	14242.0
Ti 334.941	1.2438	ppb	0.0335	2.7	394.947
Tl 190.794	-0.9172	ppb	2.9799	324.9	-12.9670
V 292.401	8.5756	ppb	0.1461	1.7	232.985
Zn 206.200	109.991	ppb	1.5196	1.4	116.455

680-110790-g-14-b (Samp)

3/23/2015, 8:54:12 PM

Rack 2, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0689	-0.2219u	-0.0810u
Al 308.215	22.2503	21.5665	20.7687
As 188.980	-1.5697u	-4.1223u	-0.0865u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	44.7304	45.6978	45.4920
Ba 389.178	86.5139	86.6903	87.4472
Be 313.042	0.0399	0.0347	0.0379
Ca 370.602	5336	5333	5322
Cd 226.502	-0.0900u	0.0479	-0.0564u
Co 228.615	0.5711	0.2418	0.0472
Cr 267.716	0.1572	0.0337	0.0302
Cu 324.754	0.2841	0.1890	0.2667
Fe 271.441	52.3209	56.0668	50.7569
K 766.491	1697.62	1701.27	1702.91
Mg 279.078	2863.14	2879.95	2867.46
Mn 257.610	192.008	192.062	191.749
Mo 202.032	-0.8817u	-0.3636u	-0.2955u
Na 330.237	97168.3x	97468.3x	97054.7x
Ni 231.604	2.8365	1.0960	2.1080
Pb 220.353	0.3512	1.7154	-1.7847u
Sb 206.834	-1.1652u	0.3341	0.4786
Se 196.026	2.7478	5.4933	0.3582
Sn 189.925	-1.9739u	0.2680	-0.6564u
Sr 216.596	31.4137	31.5375	32.0629
Ti 334.941	0.0534	0.0106	0.0065u
Tl 190.794	-2.9521u	1.5057	0.6141
V 292.401	-0.1640u	-0.0077u	-0.1647u
Zn 206.200	9.4323	9.9099	10.6667

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0780b	ppb	0.1454	186.4	-8.8852
Al 308.215	21.5285b	ppb	0.7415	3.4	531.463
As 188.980	-1.9262b	ppb	2.0414	106.0	-5.8209
B 249.678	45.3067b	ppb	0.5096	1.1	851.133
Ba 389.178	86.8838b	ppb	0.4958	0.6	1950.00
Be 313.042	0.0375b	ppb	0.0026	7.0	-402.192
Ca 370.602	5330b	ppb	7.509	0.1	16726
Cd 226.502	-0.0328b	ppb	0.0720	219.2	30.4173
Co 228.615	0.2867b	ppb	0.2649	92.4	-0.9672
Cr 267.716	0.0737b	ppb	0.0723	98.1	37.1103
Cu 324.754	0.2466b	ppb	0.0507	20.5	429.537
Fe 271.441	53.0482b	ppb	2.7287	5.1	91.6162
K 766.491	1700.60b	ppb	2.7077	0.2	78376.0
Mg 279.078	2870.18b	ppb	8.7261	0.3	8305.97
Mn 257.610	191.940b	ppb	0.1676	0.1	43864.0
Mo 202.032	-0.5136b	ppb	0.3206	62.4	4.4484
Na 330.237	97230.4xb	ppb	213.693	0.2	5077.15
Ni 231.604	2.0135b	ppb	0.8741	43.4	2.9174
Pb 220.353	0.0940b	ppb	1.7642	1877.1	9.5007
Sb 206.834	-0.1175b	ppb	0.9102	774.6	0.9424
Se 196.026	2.8664b	ppb	2.5696	89.6	1.5318
Sn 189.925	-0.7874b	ppb	1.1266	143.1	-6.3431
Sr 216.596	31.6714b	ppb	0.3446	1.1	379.471
Ti 334.941	0.0235b	ppb	0.0260	110.6	-20.0319
Tl 190.794	-0.2774b	ppb	2.3588	850.3	-10.2056
V 292.401	-0.1121b	ppb	0.0904	80.7	-10.2998
Zn 206.200	10.0030b	ppb	0.6225	6.2	12.4410

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Cont Calib Verif (CCV) 3/23/2015, 8:58:57 PM Rack 2, Tube 37

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	483.880	483.015	482.655
Al 308.215	4718.35	4714.75	4725.90
As 188.980	483.674	479.493	484.181
B 249.678	478.251	481.238	482.300
Ba 389.178	4823.98	4829.02	4836.21
Be 313.042	486.444	487.739	487.469
Ca 370.602	4885	4894	4890
Cd 226.502	483.928	485.191	484.354
Co 228.615	490.221	491.689	489.686
Cr 267.716	4945.61	4950.03	4948.76
Cu 324.754	4927.92	4962.48	4947.40
Fe 271.441	4830.13	4846.92	4841.47
K 766.491	10055.2	10074.0	10068.9
Mg 279.078	4839.82	4835.90	4840.18
Mn 257.610	4921.21	4917.29	4927.92
Mo 202.032	482.169	483.666	481.504
Na 330.237	7175.09	6922.14	7246.39
Ni 231.604	2456.91	2462.62	2449.29
Pb 220.353	486.712	480.346	482.072
Sb 206.834	962.206	962.684	956.345
Se 196.026	4832.62	4824.18	4830.46
Sn 189.925	4829.70	4823.65	4815.67
Sr 216.596	2434.79	2443.00	2432.28
Ti 334.941	484.044	484.430	484.512
Tl 190.794	4867.77	4880.34	4895.81
V 292.401	4808.92	4819.18	4816.95
Zn 206.200	2439.03	2448.76	2448.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	483.183	ppb	0.6298	0.1	43420.2	96.63666
Al 308.215	4719.67	ppb	5.6912	0.1	35898.6	94.39330
As 188.980	482.449	ppb	2.5725	0.5	344.372	96.48990
B 249.678	480.596	ppb	2.0993	0.4	8671.76	96.11922
Ba 389.178	4829.74	ppb	6.1446	0.1	110312	96.59475
Be 313.042	487.217	ppb	0.6831	0.1	932799	97.44341
Ca 370.602	4890	ppb	4.813	0.1	15704	97.79356
Cd 226.502	484.491	ppb	0.6424	0.1	21731.8	96.89821
Co 228.615	490.532	ppb	1.0369	0.2	5526.01	98.10645
Cr 267.716	4948.13	ppb	2.2738	0.0	266116	98.96265
Cu 324.754	4945.93	ppb	17.3280	0.4	400309	98.91861
Fe 271.441	4839.51	ppb	8.5685	0.2	7718.53	96.79013
K 766.491	10066.0	ppb	9.7613	0.1	461749	100.66047
Mg 279.078	4838.63	ppb	2.3687	0.0	13884.1	96.77264
Mn 257.610	4922.14	ppb	5.3752	0.1	1122470	98.44277
Mo 202.032	482.447	ppb	1.1074	0.2	3125.57	96.48930
Na 330.237	7114.54	ppb	170.394	2.4	372.838	94.86057
Ni 231.604	2456.27	ppb	6.6855	0.3	7682.63	98.25092
Pb 220.353	483.043	ppb	3.2925	0.7	785.775	96.60864
Sb 206.834	960.412	ppb	3.5296	0.4	1452.02	96.04115
Se 196.026	4829.09	ppb	4.3832	0.1	2293.31	96.58181
Sn 189.925	4823.01	ppb	7.0400	0.1	3525.45	96.46011
Sr 216.596	2436.69	ppb	5.6088	0.2	28753.5	97.46764

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	484.329	ppb	0.2500	0.1	140806	96.86572
Tl 190.794	4881.31	ppb	14.0477	0.3	5382.78	97.62617
V 292.401	4815.02	ppb	5.3948	0.1	137415	96.30033
Zn 206.200	2445.34	ppb	5.4756	0.2	2523.70	97.81364

Cont Calib Blank (CCB)

3/23/2015, 9:03:41 PM

Rack 2, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2008u	-0.1119u	0.1013
Al 308.215	2.4384	1.8576	3.4876
As 188.980	-1.6233u	-2.8365u	-5.9005u
B 249.678	6.5644	6.4531	5.9901
Ba 389.178	0.0775	-0.1923u	-0.6174u
Be 313.042	0.0319	0.0308	0.0301
Ca 370.602	-1.201u	1.212	-1.088u
Cd 226.502	-0.0004u	-0.1041u	-0.0241u
Co 228.615	-0.4991u	-0.5152u	0.1206
Cr 267.716	0.1290	0.0251	0.1510
Cu 324.754	-0.1885u	-0.2682u	-0.5601u
Fe 271.441	2.3896	-3.1716u	0.3157
K 766.491	-2.7352u	-3.3015u	-2.9193u
Mg 279.078	-0.7538u	-0.0092u	-0.6978u
Mn 257.610	0.0591	0.0281	0.0559
Mo 202.032	0.1011	0.2112	0.0063
Na 330.237	-101.003u	-41.2639u	26.9551
Ni 231.604	-0.3290u	0.0440	-0.4681u
Pb 220.353	1.7877	-0.7344u	1.3505
Sb 206.834	3.7846	-0.4988u	1.3810
Se 196.026	0.6972	-0.1936u	-0.9529u
Sn 189.925	3.2153	2.3208	-2.1051u
Sr 216.596	-0.4048u	0.8924	-0.0515u
Ti 334.941	0.1611	0.1178	0.1190
Tl 190.794	3.4408	-0.2903u	1.8316
V 292.401	-0.1889u	0.1914	-0.1166u
Zn 206.200	-0.9767u	-0.2623u	-1.9428u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0705	ppb	0.1552	220.3	-8.0412	-0.07047
Al 308.215	2.5946	ppb	0.8262	31.8	391.828	2.59455
As 188.980	-3.4534	ppb	2.2043	63.8	-6.9255	-3.45341
B 249.678	6.3359	ppb	0.3046	4.8	151.424	6.33586
Ba 389.178	-0.2441	ppb	0.3503	143.5	-46.3911	-0.24407
Be 313.042	0.0310	ppb	0.0009	3.0	-405.588	0.03095
Ca 370.602	-0.3590	ppb	1.362	379.4	20.96	-0.35897
Cd 226.502	-0.0428	ppb	0.0543	126.8	30.2518	-0.04284
Co 228.615	-0.2979	ppb	0.3625	121.7	-7.5728	-0.29789
Cr 267.716	0.1017	ppb	0.0673	66.1	35.8116	0.10170
Cu 324.754	-0.3389	ppb	0.1956	57.7	382.192	-0.33895
Fe 271.441	-0.1554	ppb	2.8104	1807.9	7.8365	-0.15545
K 766.491	-2.9854	ppb	0.2889	9.7	303.796	-2.98536
Mg 279.078	-0.4869	ppb	0.4147	85.2	20.9511	-0.48694
Mn 257.610	0.0477	ppb	0.0171	35.8	86.1579	0.04769
Mo 202.032	0.1062	ppb	0.1026	96.6	8.4626	0.10620

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-38.4374	ppb	64.0261	166.6	33.1297	-38.43742
Ni 231.604	-0.2510	ppb	0.2648	105.5	-4.1721	-0.25103
Pb 220.353	0.8013	ppb	1.3478	168.2	10.5874	0.80130
Sb 206.834	1.5556	ppb	2.1470	138.0	3.3567	1.55562
Se 196.026	-0.1497	ppb	0.8259	551.6	0.0542	-0.14974
Sn 189.925	1.1437	ppb	2.8488	249.1	-4.9582	1.14368
Sr 216.596	0.1454	ppb	0.6706	461.3	4.6962	0.14539
Ti 334.941	0.1326	ppb	0.0246	18.6	14.1372	0.13264
Tl 190.794	1.6607	ppb	1.8714	112.7	-8.1630	1.66070
V 292.401	-0.0380	ppb	0.2019	530.8	-7.5716	-0.03805
Zn 206.200	-1.0606	ppb	0.8434	79.5	0.9882	-1.06061

680-110790-g-15-b (Samp) 3/23/2015, 9:08:26 PM Rack 2, Tube 39

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2086u	-0.2094u	-0.0664u
Al 308.215	24.6272	23.6195	22.6697
As 188.980	0.1901	-0.0038u	-0.5091u
B 249.678	45.9533	45.5106	45.3386
Ba 389.178	85.9472	86.6547	85.7959
Be 313.042	0.0439	0.0470	0.0485
Ca 370.602	5287	5283	5284
Cd 226.502	0.0682	-0.0179u	0.0544
Co 228.615	0.2863	0.2737	0.6011
Cr 267.716	0.2258	0.1508	0.0304
Cu 324.754	0.0720	0.1281	0.0877
Fe 271.441	35.2888	36.3019	38.7214
K 766.491	1676.34	1675.86	1685.69
Mg 279.078	2839.82	2837.12	2837.37
Mn 257.610	190.796	189.995	190.177
Mo 202.032	0.2264	0.4443	0.0383
Na 330.237	96669.4x	96287.4x	96207.8x
Ni 231.604	2.0834	2.7267	2.5768
Pb 220.353	-0.8050u	-0.7871u	-0.8724u
Sb 206.834	3.9997	2.3414	1.8366
Se 196.026	-5.0024u	-5.0328u	4.9257
Sn 189.925	-1.1055u	-0.0225	-0.6880u
Sr 216.596	30.8915	31.0127	31.5232
Ti 334.941	0.0160	0.0540	0.0518
Tl 190.794	-1.1833u	-0.4949u	2.5494
V 292.401	0.0762	0.2503	-0.0507u
Zn 206.200	8.1689	9.7858	9.6401

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1615b	ppb	0.0823	51.0	-16.3812
Al 308.215	23.6388b	ppb	0.9789	4.1	547.068
As 188.980	-0.1076b	ppb	0.3610	335.4	-4.5055
B 249.678	45.6008b	ppb	0.3171	0.7	856.507
Ba 389.178	86.1326b	ppb	0.4584	0.5	1932.76
Be 313.042	0.0465b	ppb	0.0023	5.0	-385.107
Ca 370.602	5285b	ppb	1.913	0.0	16584
Cd 226.502	0.0349b	ppb	0.0462	132.4	33.3473
Co 228.615	0.3870b	ppb	0.1855	47.9	0.1431

E03232015.vvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1357b	ppb	0.0986	72.7	40.4100
Cu 324.754	0.0959b	ppb	0.0289	30.2	417.372
Fe 271.441	36.7707b	ppb	1.7637	4.8	66.0259
K 766.491	1679.30b	ppb	5.5451	0.3	77399.7
Mg 279.078	2838.10b	ppb	1.4894	0.1	8213.37
Mn 257.610	190.323b	ppb	0.4198	0.2	43495.0
Mo 202.032	0.2363b	ppb	0.2032	86.0	9.3035
Na 330.237	96388.2xb	ppb	246.765	0.3	5033.49
Ni 231.604	2.4623b	ppb	0.3366	13.7	4.3200
Pb 220.353	-0.8215b	ppb	0.0450	5.5	8.0344
Sb 206.834	2.7259b	ppb	1.1317	41.5	5.0541
Se 196.026	-1.7032b	ppb	5.7408	337.1	-0.6375
Sn 189.925	-0.6053b	ppb	0.5462	90.2	-6.2100
Sr 216.596	31.1425b	ppb	0.3352	1.1	373.153
Ti 334.941	0.0406b	ppb	0.0213	52.6	-15.0745
Tl 190.794	0.2904b	ppb	1.9864	684.0	-9.5790
V 292.401	0.0919b	ppb	0.1511	164.4	-4.5989
Zn 206.200	9.1983b	ppb	0.8945	9.7	11.6074

680-110754-b-5-b (Samp)

3/23/2015, 9:13:10 PM

Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1275u	0.0826	-0.0661u
Al 308.215	7.3092	7.6024	8.0180
As 188.980	3.2742	2.7142	1.8356
B 249.678	104.815	105.531	105.839
Ba 389.178	138.020	137.424	136.905
Be 313.042	0.0098	0.0040	0.0027
Ca 370.602	97757	97865	98008
Cd 226.502	0.0316	-0.1930u	0.0731
Co 228.615	0.7837	1.2802	0.5977
Cr 267.716	0.1122	0.1865	-0.1015
Cu 324.754	0.8014	0.3531	0.7068
Fe 271.441	44.6980	52.6263	54.6355
K 766.491	4164.23	4167.53	4176.63
Mg 279.078	16898.7	16926.2	16921.0
Mn 257.610	1159.78	1161.41	1161.87
Mo 202.032	0.0504	-0.1185u	-0.1791u
Na 330.237	24440.6	24299.0	24474.4
Ni 231.604	6.1723	6.2787	6.8371
Pb 220.353	-0.7911u	2.3959	0.5504
Sb 206.834	0.8364	-3.0817u	0.5628
Se 196.026	3.3090	3.4790	9.3318
Sn 189.925	2.5124	-2.5585u	-2.3488u
Sr 216.596	324.731	324.544	324.431
Ti 334.941	0.0111	-0.0025	0.0107
Tl 190.794	0.6018	0.0280	0.9423
V 292.401	-0.1429u	-0.4257u	0.3075
Zn 206.200	12.0750	12.9381	13.2297

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0370	ppb	0.1081	292.1	-11.0265
Al 308.215	7.6432	ppb	0.3562	4.7	429.068

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2.6080	ppb	0.7251	27.8	-2.5412
B 249.678	105.395	ppb	0.5252	0.5	1930.24
Ba 389.178	137.450	ppb	0.5576	0.4	3134.88
Be 313.042	0.0055	ppb	0.0038	69.3	-422.847
Ca 370.602	97877	ppb	125.7	0.1	306702
Cd 226.502	-0.0295	ppb	0.1432	485.9	31.2171
Co 228.615	0.8872	ppb	0.3528	39.8	5.7896
Cr 267.716	0.0658	ppb	0.1495	227.4	39.9930
Cu 324.754	0.6204	ppb	0.2363	38.1	459.784
Fe 271.441	50.6533	ppb	5.2543	10.4	87.9312
K 766.491	4169.46	ppb	6.4237	0.2	191519
Mg 279.078	16915.3	ppb	14.5946	0.1	48840.9
Mn 257.610	1161.02	ppb	1.1004	0.1	264947
Mo 202.032	-0.0824	ppb	0.1190	144.4	7.2396
Na 330.237	24404.7	ppb	93.0484	0.4	1300.52
Ni 231.604	6.4293	ppb	0.3571	5.6	16.7344
Pb 220.353	0.7184	ppb	1.6002	222.7	10.6996
Sb 206.834	-0.5609	ppb	2.1874	390.0	0.2917
Se 196.026	5.3732	ppb	3.4292	63.8	2.9519
Sn 189.925	-0.7983	ppb	2.8690	359.4	-6.3728
Sr 216.596	324.569	ppb	0.1517	0.0	3877.16
Ti 334.941	0.0065	ppb	0.0077	119.7	5.3819
Tl 190.794	0.5240	ppb	0.4621	88.2	-8.8214
V 292.401	-0.0870	ppb	0.3697	424.9	-8.9239
Zn 206.200	12.7476	ppb	0.6005	4.7	15.2815

680-110750-b-1-b (Samp)

3/23/2015, 9:17:55 PM

Rack 2, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1292u	0.0668	0.0142u
Al 308.215	612.612	611.039	612.544
As 188.980	0.0564	0.5466	-1.7262u
B 249.678	65.8990	65.8812	65.9710
Ba 389.178	223.686	223.737	224.272
Be 313.042	0.0418	0.0382	0.0442
Ca 370.602	79163	79001	78974
Cd 226.502	-0.0672	-0.0120	-0.1570
Co 228.615	1.7659	0.6410	1.2066
Cr 267.716	3.8897	3.9780	4.1870
Cu 324.754	4.8886	4.7382	4.6208
Fe 271.441	3614.27	3612.26	3610.95
K 766.491	24875.6	24838.5	24788.5
Mg 279.078	8379.23	8391.72	8373.16
Mn 257.610	1246.61	1246.97	1246.32
Mo 202.032	4.1510	4.3906	4.6749
Na 330.237	306219x	306625x	304241x
Ni 231.604	10.2358	9.9152	8.9270
Pb 220.353	2.5449	1.2719	1.4148
Sb 206.834	3.0828	1.2967	-0.5771u
Se 196.026	5.5564	7.8276	-1.2670u
Sn 189.925	4.6684	-1.5078u	4.4642
Sr 216.596	312.128	313.796	312.118
Ti 334.941	7.6425	7.6896	7.5819

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	1.2039	-6.4561u	-1.2314u
V 292.401	2.5581	2.0182	2.3334
Zn 206.200	10.6902	11.5096	10.8069

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0161b	ppb	0.1015	630.7	-8.6820
Al 308.215	612.065b	ppb	0.8895	0.1	4888.26
As 188.980	-0.3744b	ppb	1.1961	319.5	-4.7254
B 249.678	65.9171b	ppb	0.0475	0.1	1212.46
Ba 389.178	223.899b	ppb	0.3244	0.1	5094.35
Be 313.042	0.0414b	ppb	0.0030	7.3	-393.828
Ca 370.602	79046b	ppb	101.9	0.1	247671
Cd 226.502	-0.0787b	ppb	0.0732	93.0	47.3881
Co 228.615	1.2045b	ppb	0.5624	46.7	9.6572
Cr 267.716	4.0182b	ppb	0.1527	3.8	260.016
Cu 324.754	4.7492b	ppb	0.1342	2.8	795.528
Fe 271.441	3612.50b	ppb	1.6729	0.0	5691.36
K 766.491	24834.2b	ppb	43.7159	0.2	1138546
Mg 279.078	8381.37b	ppb	9.4601	0.1	24196.5
Mn 257.610	1246.63b	ppb	0.3289	0.0	284409
Mo 202.032	4.4055b	ppb	0.2623	6.0	36.1291
Na 330.237	305695xb	ppb	1275.12	0.4	15886.8
Ni 231.604	9.6927b	ppb	0.6822	7.0	27.2549
Pb 220.353	1.7439b	ppb	0.6974	40.0	12.5828
Sb 206.834	1.2675b	ppb	1.8301	144.4	2.9844
Se 196.026	4.0390b	ppb	4.7334	117.2	2.3725
Sn 189.925	2.5416b	ppb	3.5084	138.0	-3.8437
Sr 216.596	312.681b	ppb	0.9657	0.3	3734.06
Ti 334.941	7.6380b	ppb	0.0540	0.7	2188.04
Tl 190.794	-2.1612b	ppb	3.9138	181.1	-12.3125
V 292.401	2.3032b	ppb	0.2712	11.8	54.6406
Zn 206.200	11.0022b	ppb	0.4432	4.0	13.5873

mb 680-375688/1-a (Samp) 3/23/2015, 9:22:40 PM Rack 2, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0737	-0.3223u	-0.0994u
Al 308.215	4.2957	4.9386	2.9783
As 188.980	1.4287	-2.9742u	1.8437
B 249.678	2.7475	2.6152	1.9656
Ba 389.178	-0.6135u	-1.0736u	-0.5694u
Be 313.042	0.0195	0.0261	0.0260
Ca 370.602	9.977	9.567	10.94
Cd 226.502	-0.0860u	-0.0857u	0.0204
Co 228.615	-0.3432u	-0.1734u	-0.1539u
Cr 267.716	0.1138	0.2848	0.3313
Cu 324.754	-0.0725u	-0.3467u	-0.1719u
Fe 271.441	4.5328	1.1534	1.5440
K 766.491	-1.7235u	-2.1892u	-1.9388u
Mg 279.078	0.3672	0.2649	1.8767
Mn 257.610	-0.0101u	-0.0242u	-0.0047u
Mo 202.032	0.0429	-0.0665u	-0.1639u
Na 330.237	144.516	149.142	123.186

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	-0.0892u	0.8139	-1.1475u
Pb 220.353	0.1177	-0.2748u	-0.2083u
Sb 206.834	1.5569	2.3708	1.5694
Se 196.026	8.0736	3.0088	-0.5945u
Sn 189.925	2.7524	0.1423	-2.2312u
Sr 216.596	-0.0854u	0.0200	0.2747
Ti 334.941	0.0825	0.0486	0.0651
Tl 190.794	-0.6490u	3.0501	0.9387
V 292.401	-0.1738u	-0.1392u	-0.2614u
Zn 206.200	1.6152	-1.0582u	-0.1510u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1160	ppb	0.1985	171.2	-12.1339
Al 308.215	4.0709	ppb	0.9993	24.5	402.689
As 188.980	0.0994	ppb	2.6699	2685.6	-4.3555
B 249.678	2.4428	ppb	0.4185	17.1	81.5127
Ba 389.178	-0.7522	ppb	0.2792	37.1	-57.9930
Be 313.042	0.0239	ppb	0.0038	15.8	-419.150
Ca 370.602	10.16	ppb	0.7069	7.0	53.85
Cd 226.502	-0.0504	ppb	0.0613	121.7	29.9383
Co 228.615	-0.2235	ppb	0.1042	46.6	-6.7281
Cr 267.716	0.2433	ppb	0.1145	47.1	43.4337
Cu 324.754	-0.1970	ppb	0.1389	70.5	393.663
Fe 271.441	2.4101	ppb	1.8487	76.7	11.8717
K 766.491	-1.9505	ppb	0.2331	12.0	351.220
Mg 279.078	0.8363	ppb	0.9025	107.9	24.7726
Mn 257.610	-0.0130	ppb	0.0101	77.6	72.3488
Mo 202.032	-0.0625	ppb	0.1035	165.6	7.3706
Na 330.237	138.948	ppb	13.8449	10.0	42.3144
Ni 231.604	-0.1410	ppb	0.9817	696.5	-3.8272
Pb 220.353	-0.1218	ppb	0.2101	172.5	9.1124
Sb 206.834	1.8324	ppb	0.4664	25.5	3.7638
Se 196.026	3.4960	ppb	4.3546	124.6	1.7846
Sn 189.925	0.2212	ppb	2.4927	1127.1	-5.6336
Sr 216.596	0.0698	ppb	0.1851	265.3	3.8055
Ti 334.941	0.0654	ppb	0.0170	26.0	-5.4211
Tl 190.794	1.1133	ppb	1.8557	166.7	-8.7669
V 292.401	-0.1915	ppb	0.0630	32.9	-11.9246
Zn 206.200	0.1353	ppb	1.3595	1004.7	2.2259

lcs 680-375688/2-a (Samp)

3/23/2015, 9:27:24 PM

Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.9801	51.1796	51.3003
Al 308.215	4851.42	4875.37	4868.90
As 188.980	98.7164	100.525	95.2730
B 249.678	195.279	198.044	197.595
Ba 389.178	96.0597	96.3681	95.7168
Be 313.042	51.0721	51.3528	51.2300
Ca 370.602	5144	5167	5144
Cd 226.502	49.5273	49.4954	49.9051
Co 228.615	49.7222	50.6388	49.6181
Cr 267.716	103.732	104.423	104.282

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	101.714	100.524	101.197
Fe 271.441	4977.17	5000.26	4987.24
K 766.491	5081.46	5095.03	5089.44
Mg 279.078	4882.14	4898.08	4894.84
Mn 257.610	522.838	525.147	524.485
Mo 202.032	97.4207	100.072	98.6356
Na 330.237	4757.04	5014.24	4944.06
Ni 231.604	100.415	100.483	101.470
Pb 220.353	486.171	497.787	494.833
Sb 206.834	50.2965	50.5562	54.3891
Se 196.026	99.6946	107.536	102.071
Sn 189.925	198.516	190.487	197.903
Sr 216.596	97.9906	98.1597	98.3352
Ti 334.941	101.980	102.255	102.151
Tl 190.794	38.1023	42.3521	36.5380
V 292.401	101.374	101.675	101.604
Zn 206.200	100.873	100.860	98.8817

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.1533	ppb	0.1617	0.3	4599.11
Al 308.215	4865.23	ppb	12.3935	0.3	36277.2
As 188.980	98.1716	ppb	2.6683	2.7	66.5195
B 249.678	196.973	ppb	1.4839	0.8	3563.31
Ba 389.178	96.0482	ppb	0.3258	0.3	2168.25
Be 313.042	51.2183	ppb	0.1407	0.3	97614.1
Ca 370.602	5152	ppb	13.22	0.3	16171
Cd 226.502	49.6426	ppb	0.2279	0.5	2281.12
Co 228.615	49.9930	ppb	0.5617	1.1	558.743
Cr 267.716	104.146	ppb	0.3649	0.4	5635.05
Cu 324.754	101.145	ppb	0.5965	0.6	8593.92
Fe 271.441	4988.22	ppb	11.5759	0.2	7862.09
K 766.491	5088.64	ppb	6.8237	0.1	233644
Mg 279.078	4891.69	ppb	8.4255	0.2	14134.0
Mn 257.610	524.157	ppb	1.1893	0.2	119648
Mo 202.032	98.7095	ppb	1.3273	1.3	646.419
Na 330.237	4905.12	ppb	132.952	2.7	286.967
Ni 231.604	100.789	ppb	0.5904	0.6	312.338
Pb 220.353	492.930	ppb	6.0371	1.2	797.583
Sb 206.834	51.7472	ppb	2.2916	4.4	75.9362
Se 196.026	103.101	ppb	4.0206	3.9	49.2300
Sn 189.925	195.636	ppb	4.4689	2.3	137.444
Sr 216.596	98.1618	ppb	0.1723	0.2	1168.17
Ti 334.941	102.128	ppb	0.1387	0.1	29679.1
Tl 190.794	38.9975	ppb	3.0086	7.7	32.4584
V 292.401	101.551	ppb	0.1573	0.2	2871.57
Zn 206.200	100.205	ppb	1.1458	1.1	105.767

680-110776-a-2-a (Samp)

3/23/2015, 9:32:09 PM

Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1255u	-0.1512u	-0.1712u
Al 308.215	44.6498	46.3272	43.6398
As 188.980	-2.7514u	-1.1363u	-0.9349u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	88.9553	88.6483	89.3106
Ba 389.178	43.3469	43.8524	43.7351
Be 313.042	0.0304	0.0276	0.0262
Ca 370.602	17884	17786	17822
Cd 226.502	-0.0182	-0.0091	0.0983
Co 228.615	0.6250	0.1572	0.5601
Cr 267.716	0.3232	0.2909	0.5221
Cu 324.754	0.1596	0.1636	0.2782
Fe 271.441	315.552	315.687	316.386
K 766.491	269.586	268.459	266.813
Mg 279.078	3708.12	3691.32	3702.04
Mn 257.610	393.828	392.741	393.236
Mo 202.032	-0.6566u	0.2734	-0.3213u
Na 330.237	6616.32	6787.32	6709.87
Ni 231.604	1.1450	0.9126	0.7844
Pb 220.353	2.4626	1.8844	0.4092
Sb 206.834	5.0529	-0.9094u	2.9978
Se 196.026	-2.5379u	4.6893	2.3917
Sn 189.925	-0.9321u	-3.2869u	-4.5938u
Sr 216.596	65.9043	66.1328	66.6458
Ti 334.941	1.4922	1.3665	1.3869
Tl 190.794	0.8470	-0.3185u	-2.3252u
V 292.401	-0.0863u	0.2769	-0.0260u
Zn 206.200	4.8696	4.1318	3.1525

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1493	ppb	0.0229	15.4	-15.5579
Al 308.215	44.8723	ppb	1.3574	3.0	703.718
As 188.980	-1.6075	ppb	0.9957	61.9	-5.5924
B 249.678	88.9714	ppb	0.3314	0.4	1634.67
Ba 389.178	43.6448	ppb	0.2646	0.6	964.261
Be 313.042	0.0281	ppb	0.0021	7.6	-405.602
Ca 370.602	17831	ppb	49.94	0.3	55893
Cd 226.502	0.0237	ppb	0.0648	273.9	35.0282
Co 228.615	0.4474	ppb	0.2535	56.6	0.8876
Cr 267.716	0.3787	ppb	0.1252	33.1	52.8948
Cu 324.754	0.2005	ppb	0.0673	33.6	425.940
Fe 271.441	315.875	ppb	0.4478	0.1	505.103
K 766.491	268.286	ppb	1.3944	0.5	12735.7
Mg 279.078	3700.49	ppb	8.5048	0.2	10699.1
Mn 257.610	393.268	ppb	0.5444	0.1	89778.8
Mo 202.032	-0.2348	ppb	0.4710	200.6	6.2409
Na 330.237	6704.50	ppb	85.6240	1.3	382.660
Ni 231.604	0.9473	ppb	0.1828	19.3	-0.3967
Pb 220.353	1.5854	ppb	1.0589	66.8	11.9435
Sb 206.834	2.3804	ppb	3.0287	127.2	4.5699
Se 196.026	1.5144	ppb	3.6926	243.8	0.9405
Sn 189.925	-2.9376	ppb	1.8556	63.2	-7.9444
Sr 216.596	66.2276	ppb	0.3797	0.6	793.117
Ti 334.941	1.4152	ppb	0.0675	4.8	393.105
Tl 190.794	-0.5989	ppb	1.6046	267.9	-10.4978
V 292.401	0.0549	ppb	0.1946	354.6	-4.9460
Zn 206.200	4.0513	ppb	0.8614	21.3	6.2892

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

680-110776-a-2-aSD^5 (Samp) 3/23/2015, 9:36:53 PM Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0025	-0.2022u	-0.1302u
Al 308.215	10.5989	10.8851	11.6521
As 188.980	-0.1777u	-4.6128u	0.9548
B 249.678	19.5983	18.8428	19.7654
Ba 389.178	8.2877	8.1802	8.4768
Be 313.042	0.0304	0.0305	0.0220
Ca 370.602	3626	3603	3561
Cd 226.502	-0.0894u	-0.1106u	-0.0180u
Co 228.615	-0.0959u	-0.1233u	0.1695
Cr 267.716	0.2043	0.0905	0.2746
Cu 324.754	-0.0556u	-0.2869u	-0.4037u
Fe 271.441	64.1925	67.7497	65.6357
K 766.491	51.7532	51.8716	51.3701
Mg 279.078	775.064	764.646	761.340
Mn 257.610	80.8414	80.0618	79.4198
Mo 202.032	-0.2070u	0.2580	0.2415
Na 330.237	1291.32	1285.44	1273.81
Ni 231.604	0.3601	0.8129	0.4719
Pb 220.353	1.4743	0.5408	0.4645
Sb 206.834	2.5872	0.0321	0.1296
Se 196.026	-0.0555u	4.4906	6.2082
Sn 189.925	0.2869	-1.4911u	0.4296
Sr 216.596	13.4317	13.3191	13.1008
Ti 334.941	0.3201	0.2787	0.3397
Tl 190.794	0.6374	-3.8228u	-1.8165u
V 292.401	0.1398	-0.1991u	0.1011
Zn 206.200	-1.2076u	-0.1277u	0.6501

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1100	ppb	0.1039	94.4	-11.6664
Al 308.215	11.0454	ppb	0.5446	4.9	454.173
As 188.980	-1.2786	ppb	2.9426	230.1	-5.3528
B 249.678	19.4022	ppb	0.4916	2.5	385.906
Ba 389.178	8.3149	ppb	0.1501	1.8	150.799
Be 313.042	0.0277	ppb	0.0049	17.6	-410.795
Ca 370.602	3597	ppb	32.58	0.9	11293
Cd 226.502	-0.0727	ppb	0.0486	66.8	29.2870
Co 228.615	-0.0166	ppb	0.1617	976.3	-4.3938
Cr 267.716	0.1898	ppb	0.0929	48.9	40.9947
Cu 324.754	-0.2488	ppb	0.1772	71.2	389.514
Fe 271.441	65.8593	ppb	1.7891	2.7	111.719
K 766.491	51.6650	ppb	0.2621	0.5	2808.32
Mg 279.078	767.017	ppb	7.1625	0.9	2235.41
Mn 257.610	80.1077	ppb	0.7119	0.9	18347.8
Mo 202.032	0.0975	ppb	0.2638	270.6	8.4032
Na 330.237	1283.52	ppb	8.9093	0.7	101.653
Ni 231.604	0.5483	ppb	0.2359	43.0	-1.6656
Pb 220.353	0.8265	ppb	0.5623	68.0	10.6486
Sb 206.834	0.9163	ppb	1.4479	158.0	2.4324
Se 196.026	3.5478	ppb	3.2365	91.2	1.8288
Sn 189.925	-0.2582	ppb	1.0701	414.4	-5.9842
Sr 216.596	13.2839	ppb	0.1683	1.3	161.442

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.3128	ppb	0.0311	10.0	67.7816
Tl 190.794	-1.6673	ppb	2.2339	134.0	-11.8013
V 292.401	0.0140	ppb	0.1856	1330.0	-6.1061
Zn 206.200	-0.2284	ppb	0.9329	408.4	1.8515

680-110776-a-2-aPDS (Samp) 3/23/2015, 9:41:38 PM Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	85.8467	85.6417	86.4762
Al 308.215	993.142	991.673	989.929
As 188.980	98.3768	94.7101	94.5062
B 249.678	274.275	274.813	275.869
Ba 389.178	129.163	128.066	128.301
Be 313.042	98.1499	98.0221	98.0517
Ca 370.602	27572	27591	27610
Cd 226.502	94.3770	94.7322	94.7049
Co 228.615	95.2465	96.0119	95.7305
Cr 267.716	100.502	100.696	100.324
Cu 324.754	98.4938	99.5704	98.8001
Fe 271.441	10010.2	10001.4	10014.0
K 766.491	10401.7	10398.2	10391.1
Mg 279.078	13141.5	13155.0	13139.9
Mn 257.610	1408.52	1406.94	1406.31
Mo 202.032	96.2435	94.7829	94.8977
Na 330.237	15491.3	15513.1	15650.4
Ni 231.604	97.1816	97.9758	97.3830
Pb 220.353	93.3418	97.6379	93.7564
Sb 206.834	95.4811	96.2886	95.6523
Se 196.026	93.1686	96.1581	98.1072
Sn 189.925	96.7530	92.8192	95.0384
Sr 216.596	160.309	161.182	160.452
Ti 334.941	100.542	100.034	100.168
Tl 190.794	17.5267	14.1212	14.4429
V 292.401	100.749	100.257	100.431
Zn 206.200	101.054	100.621	99.2497

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	85.9882	ppb	0.4349	0.5	7734.59
Al 308.215	991.581	ppb	1.6087	0.2	7704.38
As 188.980	95.8644	ppb	2.1782	2.3	64.8156
B 249.678	274.986	ppb	0.8109	0.3	4952.41
Ba 389.178	128.510	ppb	0.5780	0.4	2931.26
Be 313.042	98.0746	ppb	0.0669	0.1	187354
Ca 370.602	27591	ppb	18.98	0.1	86440
Cd 226.502	94.6047	ppb	0.1976	0.2	4321.14
Co 228.615	95.6630	ppb	0.3871	0.4	1073.60
Cr 267.716	100.507	ppb	0.1860	0.2	5445.75
Cu 324.754	98.9548	ppb	0.5548	0.6	8419.07
Fe 271.441	10008.5	ppb	6.4302	0.1	15765.0
K 766.491	10397.0	ppb	5.3978	0.1	476917
Mg 279.078	13145.5	ppb	8.3184	0.1	37949.4
Mn 257.610	1407.26	ppb	1.1417	0.1	321094
Mo 202.032	95.3080	ppb	0.8122	0.9	624.176

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	15551.6	ppb	86.2985	0.6	837.777
Ni 231.604	97.5134	ppb	0.4128	0.4	302.407
Pb 220.353	94.9120	ppb	2.3697	2.5	161.851
Sb 206.834	95.8073	ppb	0.4255	0.4	139.984
Se 196.026	95.8113	ppb	2.4875	2.6	46.0276
Sn 189.925	94.8702	ppb	1.9723	2.1	63.6700
Sr 216.596	160.648	ppb	0.4679	0.3	1922.01
Ti 334.941	100.248	ppb	0.2635	0.3	29146.4
Tl 190.794	15.3636	ppb	1.8802	12.2	6.1900
V 292.401	100.479	ppb	0.2495	0.2	2839.82
Zn 206.200	100.308	ppb	0.9418	0.9	106.051

680-110776-a-2-b ms (Samp) 3/23/2015, 9:46:23 PM Rack 2, Tube 47
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.0788	50.7636	49.9628
Al 308.215	4869.61	4863.49	4861.76
As 188.980	100.593	94.8527	94.1483
B 249.678	279.066	280.168	280.327
Ba 389.178	137.903	136.814	137.182
Be 313.042	50.5380	50.6646	50.5044
Ca 370.602	22087	22118	22043
Cd 226.502	48.9919	48.8447	48.7241
Co 228.615	49.7367	49.8200	50.0136
Cr 267.716	102.489	102.966	102.720
Cu 324.754	101.406	100.894	100.137
Fe 271.441	5228.27	5230.06	5224.19
K 766.491	5391.24	5404.32	5414.00
Mg 279.078	8423.94	8423.81	8399.09
Mn 257.610	896.039	897.871	896.302
Mo 202.032	97.0433	97.4860	96.7318
Na 330.237	11185.5	11249.5	11474.5
Ni 231.604	100.679	101.076	99.4673
Pb 220.353	483.448	481.506	478.699
Sb 206.834	49.7845	49.5992	51.1488
Se 196.026	94.5515	103.601	99.2188
Sn 189.925	190.317	198.445	196.854
Sr 216.596	160.694	160.531	160.016
Ti 334.941	101.553	101.711	101.879
Tl 190.794	40.1218	41.3607	35.4642
V 292.401	100.096	99.9426	100.334
Zn 206.200	102.133	101.605	99.5290

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6018	ppb	0.5753	1.1	4549.11
Al 308.215	4864.95	ppb	4.1246	0.1	36275.0
As 188.980	96.5314	ppb	3.5353	3.7	65.3318
B 249.678	279.854	ppb	0.6865	0.2	5051.10
Ba 389.178	137.300	ppb	0.5543	0.4	3118.22
Be 313.042	50.5690	ppb	0.0845	0.2	96375.9
Ca 370.602	22083	ppb	37.39	0.2	69222
Cd 226.502	48.8536	ppb	0.1341	0.3	2247.20
Co 228.615	49.8567	ppb	0.1420	0.3	557.258

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	102.725	ppb	0.2386	0.2	5560.70
Cu 324.754	100.812	ppb	0.6385	0.6	8567.07
Fe 271.441	5227.51	ppb	3.0096	0.1	8238.47
K 766.491	5403.19	ppb	11.4228	0.2	248059
Mg 279.078	8415.61	ppb	14.3087	0.2	24301.3
Mn 257.610	896.737	ppb	0.9906	0.1	204633
Mo 202.032	97.0871	ppb	0.3790	0.4	635.907
Na 330.237	11303.2	ppb	151.742	1.3	618.681
Ni 231.604	100.408	ppb	0.8382	0.8	311.165
Pb 220.353	481.218	ppb	2.3876	0.5	778.954
Sb 206.834	50.1775	ppb	0.8463	1.7	73.6762
Se 196.026	99.1238	ppb	4.5256	4.6	47.4334
Sn 189.925	195.206	ppb	4.3073	2.2	137.131
Sr 216.596	160.414	ppb	0.3541	0.2	1910.92
Ti 334.941	101.714	ppb	0.1630	0.2	29564.4
Tl 190.794	38.9822	ppb	3.1090	8.0	32.5982
V 292.401	100.124	ppb	0.1971	0.2	2831.05
Zn 206.200	101.089	ppb	1.3765	1.4	106.693

680-110776-a-2-c msd (Samp) 3/23/2015, 9:51:08 PM Rack 2, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.9641	51.1164	52.2801
Al 308.215	4912.12	4913.17	4907.55
As 188.980	101.013	104.492	99.2722
B 249.678	283.257	283.525	284.266
Ba 389.178	138.778	138.505	138.438
Be 313.042	51.0871	51.1917	51.1459
Ca 370.602	22335	22376	22366
Cd 226.502	49.5266	49.4608	49.4471
Co 228.615	50.0499	50.7719	50.3564
Cr 267.716	103.662	103.967	103.609
Cu 324.754	102.144	101.923	101.831
Fe 271.441	5208.20	5210.23	5198.58
K 766.491	5466.35	5446.64	5450.70
Mg 279.078	8527.85	8519.51	8515.30
Mn 257.610	903.225	904.922	903.355
Mo 202.032	97.6134	97.7475	97.0524
Na 330.237	11424.9	11761.5	11404.4
Ni 231.604	101.477	100.702	99.7912
Pb 220.353	490.464	486.046	484.506
Sb 206.834	49.3896	49.2415	48.6016
Se 196.026	97.5655	97.8513	96.4827
Sn 189.925	195.452	192.772	197.694
Sr 216.596	162.227	162.585	162.897
Ti 334.941	102.262	102.241	102.392
Tl 190.794	36.9452	36.9767	38.3024
V 292.401	101.049	101.205	101.000
Zn 206.200	106.160	100.990	102.298

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.4535	ppb	0.7199	1.4	4625.73
Al 308.215	4910.94	ppb	2.9876	0.1	36614.3

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	101.592	ppb	2.6576	2.6	68.9928
B 249.678	283.683	ppb	0.5229	0.2	5119.91
Ba 389.178	138.574	ppb	0.1801	0.1	3147.51
Be 313.042	51.1416	ppb	0.0524	0.1	97472.5
Ca 370.602	22359	ppb	21.28	0.1	70089
Cd 226.502	49.4782	ppb	0.0425	0.1	2275.01
Co 228.615	50.3927	ppb	0.3624	0.7	563.297
Cr 267.716	103.746	ppb	0.1929	0.2	5615.63
Cu 324.754	101.966	ppb	0.1605	0.2	8660.36
Fe 271.441	5205.67	ppb	6.2208	0.1	8204.18
K 766.491	5454.57	ppb	10.4079	0.2	250413
Mg 279.078	8520.89	ppb	6.3907	0.1	24605.1
Mn 257.610	903.834	ppb	0.9446	0.1	206252
Mo 202.032	97.4711	ppb	0.3687	0.4	638.393
Na 330.237	11530.3	ppb	200.483	1.7	630.449
Ni 231.604	100.657	ppb	0.8436	0.8	311.941
Pb 220.353	487.005	ppb	3.0924	0.6	788.205
Sb 206.834	49.0776	ppb	0.4188	0.9	72.0848
Se 196.026	97.2999	ppb	0.7219	0.7	46.5691
Sn 189.925	195.306	ppb	2.4645	1.3	137.204
Sr 216.596	162.570	ppb	0.3350	0.2	1936.47
Ti 334.941	102.298	ppb	0.0816	0.1	29734.4
Tl 190.794	37.4081	ppb	0.7746	2.1	30.8712
V 292.401	101.085	ppb	0.1073	0.1	2858.42
Zn 206.200	103.149	ppb	2.6882	2.6	108.823

Cont Calib Verif (CCV)

3/23/2015, 9:55:53 PM

Rack 2, Tube 49

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	480.903	484.229	482.362
Al 308.215	4701.95	4721.17	4719.47
As 188.980	478.681	481.901	483.166
B 249.678	480.864	484.562	486.229
Ba 389.178	4828.19	4828.21	4840.30
Be 313.042	486.603	487.768	489.342
Ca 370.602	4855	4887	4905
Cd 226.502	482.103	483.491	486.406
Co 228.615	489.519	489.747	492.507
Cr 267.716	4935.96	4948.32	4967.55
Cu 324.754	4872.79	4918.01	4948.14
Fe 271.441	4820.93	4828.07	4861.77
K 766.491	10063.2	10076.1	10073.6
Mg 279.078	4832.85	4837.94	4843.43
Mn 257.610	4880.70	4927.33	4929.19
Mo 202.032	480.641	480.336	482.225
Na 330.237	7089.02	7496.04	7274.93
Ni 231.604	2446.42	2458.30	2461.83
Pb 220.353	477.723	480.829	488.122
Sb 206.834	957.711	959.940	958.959
Se 196.026	4816.43	4821.36	4815.46
Sn 189.925	4820.73	4860.79	4845.55
Sr 216.596	2441.01	2440.19	2447.79
Ti 334.941	484.259	484.992	484.941

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	4855.67	4876.50	4901.50
V 292.401	4802.84	4814.84	4828.23
Zn 206.200	2444.54	2471.52	2464.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	482.498	ppb	1.6671	0.3	43358.0	96.49953
Al 308.215	4714.20	ppb	10.6407	0.2	35858.7	94.28391
As 188.980	481.249	ppb	2.3124	0.5	343.504	96.24989
B 249.678	483.885	ppb	2.7460	0.6	8730.83	96.77702
Ba 389.178	4832.23	ppb	6.9849	0.1	110369	96.64463
Be 313.042	487.905	ppb	1.3745	0.3	934116	97.58090
Ca 370.602	4882	ppb	24.91	0.5	15681	97.64356
Cd 226.502	484.000	ppb	2.1963	0.5	21709.8	96.80000
Co 228.615	490.591	ppb	1.6631	0.3	5526.70	98.11818
Cr 267.716	4950.61	ppb	15.9174	0.3	266249	99.01218
Cu 324.754	4912.98	ppb	37.9219	0.8	397645	98.25957
Fe 271.441	4836.92	ppb	21.8107	0.5	7714.49	96.73848
K 766.491	10071.0	ppb	6.8618	0.1	461974	100.70965
Mg 279.078	4838.07	ppb	5.2942	0.1	13882.7	96.76150
Mn 257.610	4912.41	ppb	27.4743	0.6	1120251	98.24815
Mo 202.032	481.068	ppb	1.0140	0.2	3116.64	96.21352
Na 330.237	7286.66	ppb	203.767	2.8	381.619	97.15550
Ni 231.604	2455.52	ppb	8.0739	0.3	7680.26	98.22060
Pb 220.353	482.225	ppb	5.3381	1.1	784.475	96.44494
Sb 206.834	958.870	ppb	1.1172	0.1	1449.94	95.88702
Se 196.026	4817.75	ppb	3.1614	0.1	2287.93	96.35498
Sn 189.925	4842.36	ppb	20.2173	0.4	3539.62	96.84718
Sr 216.596	2443.00	ppb	4.1673	0.2	28828.2	97.71997
Ti 334.941	484.731	ppb	0.4090	0.1	140923	96.94615
Tl 190.794	4877.89	ppb	22.9480	0.5	5379.01	97.55782
V 292.401	4815.31	ppb	12.7032	0.3	137422	96.30611
Zn 206.200	2460.12	ppb	13.9667	0.6	2538.97	98.40465

Cont Calib Blank (CCB) 3/23/2015, 10:00:38 PM Rack 2, Tube 50
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0810u	-0.1790u	0.0850
Al 308.215	2.4348	2.7060	1.5774
As 188.980	1.0839	-4.2068u	-1.2623u
B 249.678	8.8125	7.5670	6.8624
Ba 389.178	-0.3374u	-0.6845u	-0.8700u
Be 313.042	0.0357	0.0328	0.0342
Ca 370.602	-2.015u	1.086	-0.8299u
Cd 226.502	-0.0392u	-0.0351u	-0.0401u
Co 228.615	-0.1311u	0.5100	-0.1100u
Cr 267.716	0.1413	0.2248	0.1710
Cu 324.754	0.0827	-0.4153u	-0.6179u
Fe 271.441	-1.1884u	1.7886	-4.9269u
K 766.491	-2.8374u	-2.6080u	-2.9665u
Mg 279.078	2.3875	1.3387	-1.8496u
Mn 257.610	0.0993	0.0910	0.0554
Mo 202.032	0.2153	-0.3287u	-0.0667u
Na 330.237	-57.1869u	-72.5982u	198.374

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	0.0786	-0.3084u	-1.3920u
Pb 220.353	0.4550	1.1412	0.7771
Sb 206.834	3.4898	3.2116	0.9741
Se 196.026	9.1158	0.4323	4.0049
Sn 189.925	-0.3960u	0.5974	-2.0342u
Sr 216.596	-0.4770u	0.0972	0.3893
Ti 334.941	0.1990	0.1234	0.1405
Tl 190.794	-0.6372u	0.0470	-1.3416u
V 292.401	0.2310	0.1288	0.0647
Zn 206.200	-0.9985u	-2.8541u	-1.7236u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0583	ppb	0.1334	228.8	-6.9438	-0.05832
Al 308.215	2.2394	ppb	0.5891	26.3	389.222	2.23941
As 188.980	-1.4617	ppb	2.6510	181.4	-5.4847	-1.46174
B 249.678	7.7473	ppb	0.9875	12.7	176.796	7.74731
Ba 389.178	-0.6306	ppb	0.2704	42.9	-55.2198	-0.63063
Be 313.042	0.0342	ppb	0.0015	4.2	-399.264	0.03424
Ca 370.602	-0.5860	ppb	1.565	267.0	20.27	-0.58601
Cd 226.502	-0.0381	ppb	0.0027	7.0	30.4574	-0.03813
Co 228.615	0.0896	ppb	0.3642	406.3	-3.2010	0.08964
Cr 267.716	0.1790	ppb	0.0423	23.6	39.9694	0.17904
Cu 324.754	-0.3168	ppb	0.3605	113.8	383.968	-0.31684
Fe 271.441	-1.4422	ppb	3.3649	233.3	5.8602	-1.44225
K 766.491	-2.8040	ppb	0.1815	6.5	312.108	-2.80398
Mg 279.078	0.6255	ppb	2.2068	352.8	24.1626	0.62551
Mn 257.610	0.0819	ppb	0.0233	28.5	93.9737	0.08193
Mo 202.032	-0.0600	ppb	0.2721	453.2	7.3864	-0.06004
Na 330.237	22.8631	ppb	152.192	665.7	36.3152	22.86309
Ni 231.604	-0.5406	ppb	0.7623	141.0	-5.0794	-0.54062
Pb 220.353	0.7911	ppb	0.3433	43.4	10.5712	0.79108
Sb 206.834	2.5585	ppb	1.3791	53.9	4.8149	2.55848
Se 196.026	4.5176	ppb	4.3644	96.6	2.2694	4.51763
Sn 189.925	-0.6109	ppb	1.3289	217.5	-6.2429	-0.61094
Sr 216.596	0.0032	ppb	0.4407	13966.1	3.0240	0.00316
Ti 334.941	0.1543	ppb	0.0396	25.7	20.4399	0.15431
Tl 190.794	-0.6440	ppb	0.6943	107.8	-10.7024	-0.64397
V 292.401	0.1415	ppb	0.0839	59.3	-2.3991	0.14150
Zn 206.200	-1.8587	ppb	0.9351	50.3	0.1620	-1.85875

680-110788-a-2-a (Samp)

3/23/2015, 10:05:23 PM

Rack 2, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1275u	0.2362	-0.3033u
Al 308.215	35.6285	33.5173	34.2917
As 188.980	1.5591	0.2519	-0.8333u
B 249.678	8.7260	8.7726	8.1456
Ba 389.178	41.1588	40.8551	40.2777
Be 313.042	-0.0061	0.0048	-0.0058
Ca 370.602	124455	124681	124834
Cd 226.502	0.0744	-0.0743u	0.0485
Co 228.615	-0.4161u	-0.4110u	-0.1841u
Cr 267.716	0.4496	0.3482	0.3937

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	2.7095	2.5041	2.3595
Fe 271.441	35.0334	31.7252	26.3349
K 766.491	615.831	613.084	613.466
Mg 279.078	20631.3	20630.6	20633.3
Mn 257.610	7.9916	7.9997	8.0688
Mo 202.032	-0.0327u	-0.3123u	-0.1905u
Na 330.237	6139.12	5921.00	5900.42
Ni 231.604	2.2085	1.6936	1.2945
Pb 220.353	0.9249	0.4939	2.3700
Sb 206.834	0.3631	0.1987	3.0276
Se 196.026	12.4248	1.3023	5.7114
Sn 189.925	1.5960	1.8249	1.2173
Sr 216.596	168.417	168.130	168.112
Ti 334.941	1.3322	0.5063	0.5372
Tl 190.794	-2.1313u	-3.1638u	0.2641
V 292.401	0.3732	0.3978	0.3173
Zn 206.200	5.0330	4.8146	6.2190

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0648	ppb	0.2751	424.3	-14.3788
Al 308.215	34.4791	ppb	1.0680	3.1	627.084
As 188.980	0.3259	ppb	1.1979	367.6	-4.1918
B 249.678	8.5480	ppb	0.3493	4.1	191.087
Ba 389.178	40.7639	ppb	0.4476	1.1	934.201
Be 313.042	-0.0024	ppb	0.0062	260.2	-425.642
Ca 370.602	124657	ppb	190.6	0.2	390573
Cd 226.502	0.0162	ppb	0.0794	490.3	33.3444
Co 228.615	-0.3371	ppb	0.1325	39.3	-7.9858
Cr 267.716	0.3972	ppb	0.0508	12.8	51.8672
Cu 324.754	2.5243	ppb	0.1759	7.0	613.726
Fe 271.441	31.0312	ppb	4.3906	14.1	56.9072
K 766.491	614.127	ppb	1.4880	0.2	28584.9
Mg 279.078	20631.7	ppb	1.3933	0.0	59597.7
Mn 257.610	8.0200	ppb	0.0425	0.5	2072.16
Mo 202.032	-0.1785	ppb	0.1402	78.5	6.6178
Na 330.237	5986.85	ppb	132.275	2.2	345.496
Ni 231.604	1.7322	ppb	0.4582	26.5	2.0370
Pb 220.353	1.2629	ppb	0.9826	77.8	11.3291
Sb 206.834	1.1965	ppb	1.5879	132.7	2.8457
Se 196.026	6.4795	ppb	5.6009	86.4	3.2029
Sn 189.925	1.5461	ppb	0.3069	19.8	-4.6618
Sr 216.596	168.220	ppb	0.1713	0.1	2038.41
Ti 334.941	0.7919	ppb	0.4682	59.1	241.750
Tl 190.794	-1.6770	ppb	1.7585	104.9	-11.8424
V 292.401	0.3627	ppb	0.0412	11.4	4.1517
Zn 206.200	5.3555	ppb	0.7557	14.1	7.6296

680-110788-a-2-b ms (Samp) 3/23/2015, 10:10:07 PM Rack 2, Tube 52

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.2324	51.5979	51.2531
Al 308.215	4984.07	4975.68	4986.85
As 188.980	98.4281	98.8320	97.6675

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	199.701	200.126	202.290
Ba 389.178	134.700	134.390	134.916
Be 313.042	50.1542	50.0844	50.1448
Ca 370.602	122068	121914	122503
Cd 226.502	48.4536	48.1738	48.7520
Co 228.615	49.1309	48.5123	48.7228
Cr 267.716	101.426	101.422	101.586
Cu 324.754	105.311	104.402	105.273
Fe 271.441	4877.68	4873.97	4883.86
K 766.491	6162.75	6155.50	6152.50
Mg 279.078	24306.2	24284.3	24367.2
Mn 257.610	518.099	517.871	518.669
Mo 202.032	95.8650	96.6025	97.0964
Na 330.237	10685.7	10695.8	10661.8
Ni 231.604	98.8626	100.485	99.1200
Pb 220.353	479.257	476.667	478.235
Sb 206.834	50.9053	48.3350	49.9472
Se 196.026	95.2418	104.507	100.826
Sn 189.925	195.723	184.552	189.288
Sr 216.596	253.522	252.510	253.322
Ti 334.941	100.683	100.528	100.751
Tl 190.794	38.3203	35.4175	37.1128
V 292.401	100.445	99.8152	100.366
Zn 206.200	103.798	100.926	101.696

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.3611	ppb	0.2053	0.4	4611.44
Al 308.215	4982.20	ppb	5.8152	0.1	37139.8
As 188.980	98.3092	ppb	0.5913	0.6	66.6204
B 249.678	200.706	ppb	1.3885	0.7	3630.57
Ba 389.178	134.668	ppb	0.2644	0.2	3091.63
Be 313.042	50.1278	ppb	0.0378	0.1	95566.9
Ca 370.602	122162	ppb	305.6	0.3	382764
Cd 226.502	48.4598	ppb	0.2892	0.6	2227.87
Co 228.615	48.7887	ppb	0.3145	0.6	545.198
Cr 267.716	101.478	ppb	0.0931	0.1	5491.65
Cu 324.754	104.995	ppb	0.5142	0.5	8905.14
Fe 271.441	4878.50	ppb	4.9936	0.1	7689.32
K 766.491	6156.92	ppb	5.2706	0.1	282601
Mg 279.078	24319.2	ppb	42.9632	0.2	70232.3
Mn 257.610	518.213	ppb	0.4111	0.1	118451
Mo 202.032	96.5213	ppb	0.6197	0.6	632.260
Na 330.237	10681.1	ppb	17.4805	0.2	586.502
Ni 231.604	99.4892	ppb	0.8719	0.9	308.264
Pb 220.353	478.053	ppb	1.3045	0.3	773.791
Sb 206.834	49.7292	ppb	1.2990	2.6	73.0063
Se 196.026	100.192	ppb	4.6653	4.7	47.8473
Sn 189.925	189.854	ppb	5.6067	3.0	133.213
Sr 216.596	253.118	ppb	0.5357	0.2	3043.92
Ti 334.941	100.654	ppb	0.1139	0.1	29284.2
Tl 190.794	36.9502	ppb	1.4582	3.9	30.2161
V 292.401	100.209	ppb	0.3430	0.3	2833.93
Zn 206.200	102.140	ppb	1.4865	1.5	107.772

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

680-110788-a-2-c msd (Samp) 3/23/2015, 10:14:52 PM Rack 2, Tube 53**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.9182	52.2360	52.4816
Al 308.215	5283.10	5268.12	5276.84
As 188.980	101.843	98.6306	95.9232
B 249.678	205.416	204.878	205.010
Ba 389.178	137.712	137.261	137.385
Be 313.042	50.8718	50.8591	50.9283
Ca 370.602	122805	122836	122739
Cd 226.502	49.2374	49.1694	49.2236
Co 228.615	49.7285	49.8369	49.8970
Cr 267.716	103.307	103.394	103.800
Cu 324.754	108.058	106.724	108.048
Fe 271.441	5304.00	5302.31	5304.85
K 766.491	6289.77	6270.74	6272.05
Mg 279.078	24312.8	24261.5	24287.7
Mn 257.610	541.529	540.026	540.465
Mo 202.032	97.5594	97.6129	97.9560
Na 330.237	10842.3	10603.3	10880.1
Ni 231.604	103.146	100.947	102.084
Pb 220.353	486.874	485.059	484.445
Sb 206.834	53.4066	53.6638	53.4863
Se 196.026	97.2369	109.154	103.559
Sn 189.925	192.008	193.952	194.371
Sr 216.596	254.727	253.383	254.187
Ti 334.941	104.654	104.524	105.344
Tl 190.794	37.8645	39.0566	40.0298
V 292.401	102.081	101.647	102.276
Zn 206.200	106.671	106.718	105.499

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.5453	ppb	0.3456	0.7	4718.01
Al 308.215	5276.02	ppb	7.5209	0.1	39307.4
As 188.980	98.7989	ppb	2.9635	3.0	66.9713
B 249.678	205.101	ppb	0.2806	0.1	3708.53
Ba 389.178	137.452	ppb	0.2329	0.2	3155.47
Be 313.042	50.8864	ppb	0.0368	0.1	97019.7
Ca 370.602	122793	ppb	49.68	0.0	384741
Cd 226.502	49.2102	ppb	0.0360	0.1	2263.80
Co 228.615	49.8208	ppb	0.0854	0.2	556.914
Cr 267.716	103.500	ppb	0.2627	0.3	5600.69
Cu 324.754	107.610	ppb	0.7672	0.7	9116.77
Fe 271.441	5303.72	ppb	1.2950	0.0	8358.39
K 766.491	6277.52	ppb	10.6306	0.2	288128
Mg 279.078	24287.3	ppb	25.6406	0.1	70139.6
Mn 257.610	540.673	ppb	0.7728	0.1	123573
Mo 202.032	97.7094	ppb	0.2152	0.2	639.930
Na 330.237	10775.2	ppb	150.095	1.4	591.227
Ni 231.604	102.059	ppb	1.0999	1.1	316.339
Pb 220.353	485.459	ppb	1.2629	0.3	785.658
Sb 206.834	53.5189	ppb	0.1316	0.2	78.5194
Se 196.026	103.317	ppb	5.9625	5.8	49.3397
Sn 189.925	193.444	ppb	1.2606	0.7	135.841
Sr 216.596	254.099	ppb	0.6765	0.3	3056.01

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	104.841	ppb	0.4406	0.4	30501.6
Tl 190.794	38.9836	ppb	1.0845	2.8	32.4067
V 292.401	102.001	ppb	0.3217	0.3	2884.81
Zn 206.200	106.296	ppb	0.6904	0.6	112.084

680-110776-a-1-a (Samp) **3/23/2015, 10:19:36 PM** **Rack 2, Tube 54**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0794u	-0.2440u	0.0348
Al 308.215	215.490	211.912	215.010
As 188.980	-4.1875u	-0.9654u	-2.0628u
B 249.678	78.1082	79.1290	78.6574
Ba 389.178	58.9145	58.9239	59.2224
Be 313.042	0.0376	0.0328	0.0354
Ca 370.602	36073	36119	36040
Cd 226.502	0.1229	-0.0145	0.0404
Co 228.615	1.3265	0.8952	1.6052
Cr 267.716	1.0615	1.0688	1.1802
Cu 324.754	0.6795	1.1283	1.0708
Fe 271.441	1733.65	1736.81	1744.77
K 766.491	330.553	330.163	330.493
Mg 279.078	7568.25	7557.44	7543.79
Mn 257.610	660.289	661.224	659.942
Mo 202.032	-0.5445u	-0.4728u	0.1699
Na 330.237	10842.9	10838.4	10746.1
Ni 231.604	2.6489	0.8965	1.0899
Pb 220.353	1.7428	-0.4804u	1.1409
Sb 206.834	3.3558	0.3620	-0.6867u
Se 196.026	-1.4597u	1.0681	5.7399
Sn 189.925	-1.0727u	-3.3937u	2.1166
Sr 216.596	120.791	121.708	120.112
Ti 334.941	7.6282	6.8046	7.5458
Tl 190.794	4.3353	-0.8272u	-0.4191u
V 292.401	0.6513	0.7126	0.6921
Zn 206.200	5.1083	6.0781	4.8463

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0962	ppb	0.1402	145.7	-11.6640
Al 308.215	214.137	ppb	1.9418	0.9	1952.50
As 188.980	-2.4052	ppb	1.6381	68.1	-6.1795
B 249.678	78.6315	ppb	0.5109	0.6	1445.41
Ba 389.178	59.0203	ppb	0.1751	0.3	1324.79
Be 313.042	0.0352	ppb	0.0024	6.7	-385.965
Ca 370.602	36077	ppb	39.68	0.1	113054
Cd 226.502	0.0496	ppb	0.0691	139.4	44.2952
Co 228.615	1.2756	ppb	0.3577	28.0	10.4337
Cr 267.716	1.1035	ppb	0.0665	6.0	93.9323
Cu 324.754	0.9595	ppb	0.2442	25.4	487.992
Fe 271.441	1738.41	ppb	5.7333	0.3	2743.09
K 766.491	330.403	ppb	0.2098	0.1	15582.4
Mg 279.078	7556.49	ppb	12.2561	0.2	21827.6
Mn 257.610	660.485	ppb	0.6633	0.1	150745
Mo 202.032	-0.2825	ppb	0.3934	139.3	5.8683

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	10809.1	ppb	54.6184	0.5	595.140
Ni 231.604	1.5451	ppb	0.9608	62.2	1.5946
Pb 220.353	0.8011	ppb	1.1499	143.5	10.8364
Sb 206.834	1.0104	ppb	2.0978	207.6	2.6190
Se 196.026	1.7828	ppb	3.6526	204.9	1.1447
Sn 189.925	-0.7833	ppb	2.7665	353.2	-6.3658
Sr 216.596	120.870	ppb	0.8010	0.7	1447.80
Ti 334.941	7.3262	ppb	0.4536	6.2	2118.41
Tl 190.794	1.0296	ppb	2.8700	278.7	-8.7851
V 292.401	0.6853	ppb	0.0312	4.5	12.5481
Zn 206.200	5.3442	ppb	0.6489	12.1	7.6738

680-110776-a-4-a (Samp)

3/23/2015, 10:24:21 PM

Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1044	-0.1640	-0.2100
Al 308.215	219.550	223.043	219.160
As 188.980	-1.7178u	0.1492	-2.8185u
B 249.678	133.831	134.825	135.752
Ba 389.178	218.838	219.623	218.117
Be 313.042	0.0267	0.0227	0.0224
Ca 370.602	48817	48725	48649
Cd 226.502	0.6142	0.6890	0.5679
Co 228.615	11.7263	12.0894	12.2183
Cr 267.716	3.2809	2.9977	3.1571
Cu 324.754	33.0025	33.4104	33.5373
Fe 271.441	230.662	227.101	228.114
K 766.491	3765.56	3755.99	3752.62
Mg 279.078	7357.36	7372.16	7383.04
Mn 257.610	9293.94	9280.07	9276.13
Mo 202.032	1.2727	1.1916	1.3598
Na 330.237	6046.38	6101.08	6200.10
Ni 231.604	3.5482	4.2465	4.6829
Pb 220.353	2.3237	0.0591	2.1227
Sb 206.834	1.6073	-0.0102	0.0625
Se 196.026	2.7884	-4.2529	1.8214
Sn 189.925	1.3917	-0.1159u	-1.2794u
Sr 216.596	151.458	153.259	152.252
Ti 334.941	8.6300	9.2342	7.9396
Tl 190.794	-4.5904u	-2.4461	-3.0198
V 292.401	0.6159	0.3095	0.8058
Zn 206.200	7.0752	10.3159	8.0376

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1595	ppb	0.0529	33.2	29.1675
Al 308.215	220.585	ppb	2.1381	1.0	1999.84
As 188.980	-1.4624	ppb	1.5003	102.6	-5.4872
B 249.678	134.803	ppb	0.9607	0.7	2457.93
Ba 389.178	218.859	ppb	0.7532	0.3	4974.25
Be 313.042	0.0239	ppb	0.0024	10.0	-405.368
Ca 370.602	48730	ppb	84.13	0.2	152955
Cd 226.502	0.6237	ppb	0.0611	9.8	61.4195
Co 228.615	12.0113	ppb	0.2551	2.1	131.248

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	3.1453	ppb	0.1420	4.5	244.765
Cu 324.754	33.3167	ppb	0.2795	0.8	3103.91
Fe 271.441	228.626	ppb	1.8348	0.8	369.149
K 766.491	3758.06	ppb	6.7130	0.2	172665
Mg 279.078	7370.85	ppb	12.8940	0.2	21101.9
Mn 257.610	9283.38	ppb	9.3535	0.1	2116922
Mo 202.032	1.2747	ppb	0.0841	6.6	16.0156
Na 330.237	6115.85	ppb	77.9196	1.3	352.096
Ni 231.604	4.1592	ppb	0.5723	13.8	9.6187
Pb 220.353	1.5018	ppb	1.2535	83.5	13.6465
Sb 206.834	0.5532	ppb	0.9136	165.2	1.9351
Se 196.026	0.1190	ppb	3.8169	3207.8	2.3920
Sn 189.925	-0.0012	ppb	1.3392	111067.5	-5.7946
Sr 216.596	152.323	ppb	0.9026	0.6	1822.44
Ti 334.941	8.6012	ppb	0.6478	7.5	2488.85
Tl 190.794	-3.3521	ppb	1.1101	33.1	-8.9136
V 292.401	0.5770	ppb	0.2504	43.4	9.6479
Zn 206.200	8.4762	ppb	1.6642	19.6	10.8597

680-110776-a-5-a (Samp)

3/23/2015, 10:29:06 PM

Rack 2, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1961u	-0.3190u	-0.2516u
Al 308.215	1798.02	1790.01	1780.12
As 188.980	-2.6101u	0.6478	-5.2969u
B 249.678	75.3237	75.7584	75.3600
Ba 389.178	125.291	124.793	124.138
Be 313.042	0.1552	0.1540	0.1478
Ca 370.602	47933	47953	47997
Cd 226.502	0.4223	0.3292	0.3694
Co 228.615	24.9334	25.1396	24.7043
Cr 267.716	3.8470	4.9019	3.6869
Cu 324.754	85.0293	84.5090	85.7121
Fe 271.441	5275.44	5289.81	5289.60
K 766.491	1019.46	1019.18	1018.25
Mg 279.078	9266.29	9266.66	9242.91
Mn 257.610	3269.00	3282.61	3276.72
Mo 202.032	0.2437	0.8672	-0.2397u
Na 330.237	10149.7	9970.26	10167.5
Ni 231.604	5.0409	5.7178	5.8130
Pb 220.353	16.9910	16.3115	14.9774
Sb 206.834	2.9543	3.0462	1.3454
Se 196.026	2.3240	3.0485	7.8126
Sn 189.925	-0.7476u	3.4733	-0.8090u
Sr 216.596	158.903	158.469	158.773
Ti 334.941	73.0819	75.5012	77.9792
Tl 190.794	-2.0804u	-0.9629u	-2.0509u
V 292.401	9.4323	9.1843	9.3605
Zn 206.200	12.7659	12.4937	12.9216

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2556	ppb	0.0615	24.1	-13.6892
Al 308.215	1789.39	ppb	8.9670	0.5	13573.4

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-2.4197	ppb	2.9770	123.0	-6.2155
B 249.678	75.4807	ppb	0.2412	0.3	1380.01
Ba 389.178	124.741	ppb	0.5786	0.5	2832.40
Be 313.042	0.1523	ppb	0.0040	2.6	-157.751
Ca 370.602	47961	ppb	32.67	0.1	150353
Cd 226.502	0.3736	ppb	0.0467	12.5	78.8660
Co 228.615	24.9257	ppb	0.2178	0.9	278.462
Cr 267.716	4.1452	ppb	0.6601	15.9	271.946
Cu 324.754	85.0835	ppb	0.6034	0.7	7292.27
Fe 271.441	5284.95	ppb	8.2403	0.2	8325.16
K 766.491	1018.96	ppb	0.6296	0.1	47137.8
Mg 279.078	9258.62	ppb	13.6070	0.1	26684.5
Mn 257.610	3276.11	ppb	6.8273	0.2	747181
Mo 202.032	0.2904	ppb	0.5550	191.1	9.4092
Na 330.237	10095.8	ppb	109.097	1.1	557.149
Ni 231.604	5.5239	ppb	0.4210	7.6	14.2937
Pb 220.353	16.0933	ppb	1.0244	6.4	36.0054
Sb 206.834	2.4486	ppb	0.9566	39.1	4.8040
Se 196.026	4.3950	ppb	2.9818	67.8	3.0397
Sn 189.925	0.6389	ppb	2.4549	384.2	-5.3247
Sr 216.596	158.715	ppb	0.2231	0.1	1904.17
Ti 334.941	75.5208	ppb	2.4488	3.2	21949.9
Tl 190.794	-1.6981	ppb	0.6368	37.5	-10.9265
V 292.401	9.3257	ppb	0.1276	1.4	258.625
Zn 206.200	12.7271	ppb	0.2165	1.7	15.4283

680-110788-a-1-a (Samp)

3/23/2015, 10:33:50 PM

Rack 2, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0778	-0.4690u	-0.1347u
Al 308.215	27.9869	28.5514	28.5330
As 188.980	0.4438	-2.1924u	-6.8169u
B 249.678	7.4947	7.6070	7.0791
Ba 389.178	31.3388	31.9757	31.1226
Be 313.042	-0.0008	-0.0079	0.0045
Ca 370.602	87896	87867	87843
Cd 226.502	-0.0022	0.0023	0.0042
Co 228.615	-0.0370u	0.0869	0.0567
Cr 267.716	0.2392	0.4535	0.3031
Cu 324.754	2.3479	2.4923	2.4038
Fe 271.441	343.082	342.323	342.774
K 766.491	1534.92	1530.98	1531.99
Mg 279.078	10115.3	10117.8	10109.6
Mn 257.610	66.6631	66.6317	66.5437
Mo 202.032	-0.3464u	0.5385	0.3850
Na 330.237	2491.33	2445.30	2507.66
Ni 231.604	0.2051	1.3638	2.1793
Pb 220.353	2.4785	2.2286	2.2864
Sb 206.834	-0.8576u	3.4332	1.4510
Se 196.026	1.8196	1.6649	4.9472
Sn 189.925	-1.4654u	3.3160	-0.4335u
Sr 216.596	175.913	175.907	176.351
Ti 334.941	0.4000	0.3785	0.3376

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	-2.3403u	-1.0622u	0.6243
V 292.401	0.3022	0.1836	0.1773
Zn 206.200	3.3072	4.6247	3.2232

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1753	ppb	0.2757	157.2	-24.0205
Al 308.215	28.3571	ppb	0.3207	1.1	581.943
As 188.980	-2.8551	ppb	3.6755	128.7	-6.4952
B 249.678	7.3936	ppb	0.2781	3.8	169.577
Ba 389.178	31.4790	ppb	0.4435	1.4	699.976
Be 313.042	-0.0014	ppb	0.0062	458.8	-436.400
Ca 370.602	87869	ppb	26.65	0.0	275314
Cd 226.502	0.0014	ppb	0.0033	226.0	34.3105
Co 228.615	0.0356	ppb	0.0646	181.7	-3.7857
Cr 267.716	0.3319	ppb	0.1100	33.1	48.7262
Cu 324.754	2.4146	ppb	0.0728	3.0	605.021
Fe 271.441	342.726	ppb	0.3817	0.1	547.301
K 766.491	1532.63	ppb	2.0492	0.1	70678.2
Mg 279.078	10114.3	ppb	4.1882	0.0	29226.4
Mn 257.610	66.6129	ppb	0.0619	0.1	15348.0
Mo 202.032	0.1924	ppb	0.4728	245.8	9.0048
Na 330.237	2481.43	ppb	32.3331	1.3	163.656
Ni 231.604	1.2494	ppb	0.9920	79.4	0.5519
Pb 220.353	2.3312	ppb	0.1308	5.6	13.0696
Sb 206.834	1.3422	ppb	2.1475	160.0	3.0557
Se 196.026	2.8106	ppb	1.8520	65.9	1.4783
Sn 189.925	0.4724	ppb	2.5161	532.6	-5.4489
Sr 216.596	176.057	ppb	0.2546	0.1	2117.82
Ti 334.941	0.3720	ppb	0.0317	8.5	101.397
Tl 190.794	-0.9261	ppb	1.4870	160.6	-11.0334
V 292.401	0.2210	ppb	0.0704	31.8	-0.2024
Zn 206.200	3.7184	ppb	0.7860	21.1	5.9456

680-110788-a-3-a (Samp)

3/23/2015, 10:38:35 PM

Rack 2, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0901	0.1612	-0.2884u
Al 308.215	31.4889	32.2953	29.5408
As 188.980	-3.5344u	-1.2815u	1.9605
B 249.678	5.8160	5.9283	6.2435
Ba 389.178	39.9535	39.1538	40.0035
Be 313.042	-0.0023	0.0034	-0.0112
Ca 370.602	121735	121693	121494
Cd 226.502	0.1331	0.1559	0.0389
Co 228.615	-0.5865u	-0.1533u	-0.2216u
Cr 267.716	0.2498	0.3494	0.3802
Cu 324.754	3.7798	4.1400	3.3857
Fe 271.441	25.6929	31.3787	26.4509
K 766.491	601.647	604.839	603.170
Mg 279.078	20080.5	20078.0	20099.2
Mn 257.610	7.4254	7.3565	7.3950
Mo 202.032	-0.1670u	-0.3124u	-0.3273u
Na 330.237	5837.56	5713.13	5925.61

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	2.6873	2.4390	1.7511
Pb 220.353	-1.1535u	0.4320	3.6828
Sb 206.834	2.3973	-0.0121u	2.0993
Se 196.026	3.8466	-0.6415u	5.7763
Sn 189.925	2.7949	2.6999	-2.0855u
Sr 216.596	163.466	163.416	164.203
Ti 334.941	0.4195	0.5298	0.3442
Tl 190.794	-1.3435u	-0.0619u	-3.1620u
V 292.401	0.4485	0.3774	0.1860
Zn 206.200	6.9753	3.2111	6.3237

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0124	ppb	0.2417	1956.4	-9.4879
Al 308.215	31.1083	ppb	1.4162	4.6	602.213
As 188.980	-0.9518	ppb	2.7622	290.2	-5.1160
B 249.678	5.9959	ppb	0.2216	3.7	145.257
Ba 389.178	39.7036	ppb	0.4768	1.2	908.763
Be 313.042	-0.0034	ppb	0.0074	216.7	-428.631
Ca 370.602	121641	ppb	129.1	0.1	381123
Cd 226.502	0.1093	ppb	0.0620	56.7	37.4820
Co 228.615	-0.3205	ppb	0.2329	72.7	-7.8021
Cr 267.716	0.3264	ppb	0.0682	20.9	48.0560
Cu 324.754	3.7685	ppb	0.3773	10.0	714.326
Fe 271.441	27.8408	ppb	3.0872	11.1	51.8975
K 766.491	603.219	ppb	1.5969	0.3	28085.0
Mg 279.078	20085.9	ppb	11.5891	0.1	58021.6
Mn 257.610	7.3923	ppb	0.0346	0.5	1924.37
Mo 202.032	-0.2689	ppb	0.0886	32.9	6.0328
Na 330.237	5825.43	ppb	106.759	1.8	337.133
Ni 231.604	2.2925	ppb	0.4850	21.2	3.7899
Pb 220.353	0.9871	ppb	2.4655	249.8	10.8882
Sb 206.834	1.4948	ppb	1.3135	87.9	3.2794
Se 196.026	2.9938	ppb	3.2928	110.0	1.5484
Sn 189.925	1.1364	ppb	2.7907	245.6	-4.9617
Sr 216.596	163.695	ppb	0.4405	0.3	1983.76
Ti 334.941	0.4312	ppb	0.0934	21.7	135.861
Tl 190.794	-1.5225	ppb	1.5578	102.3	-11.6711
V 292.401	0.3373	ppb	0.1358	40.2	3.4484
Zn 206.200	5.5034	ppb	2.0118	36.6	7.7826

680-110788-a-4-a (Samp)

3/23/2015, 10:43:20 PM

Rack 2, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0537	-0.1137u	0.1948
Al 308.215	5.2183	5.3393	7.7542
As 188.980	-0.3493u	-5.4460u	-0.5933u
B 249.678	5.3660	5.4408	5.4004
Ba 389.178	-1.8091u	-0.9783u	-0.4002u
Be 313.042	0.0284	0.0219	0.0198
Ca 370.602	33.07	30.60	29.91
Cd 226.502	0.0178	-0.0064u	0.0552
Co 228.615	0.1001	-0.3844u	-0.7312u
Cr 267.716	0.1061	0.2032	0.0632

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	-0.3741u	-0.3742u	-0.0905u
Fe 271.441	8.3183	9.9476	7.1920
K 766.491	27.4833	27.2984	27.5852
Mg 279.078	2.7346	5.4914	3.6430
Mn 257.610	0.0629	0.1053	0.0614
Mo 202.032	-0.5519u	-0.0473u	-0.1049u
Na 330.237	54.3739	138.951	296.774
Ni 231.604	0.5177	-1.5334u	-0.6599u
Pb 220.353	1.2291	1.1821	0.7958
Sb 206.834	-0.6587u	1.2961	1.7269
Se 196.026	2.7791	1.5309	2.1930
Sn 189.925	-1.1194u	-2.9273u	0.4087
Sr 216.596	0.4002	0.3566	0.1256
Ti 334.941	0.0678	0.1094	0.0423
Tl 190.794	-1.2478u	-5.2041u	0.2949
V 292.401	-0.0748u	0.0472	-0.1328u
Zn 206.200	3.9802	3.2376	1.7034

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0449	ppb	0.1545	343.8	2.3346
Al 308.215	6.1040	ppb	1.4305	23.4	417.700
As 188.980	-2.1295	ppb	2.8747	135.0	-5.9678
B 249.678	5.4024	ppb	0.0374	0.7	134.640
Ba 389.178	-1.0626	ppb	0.7082	66.7	-65.0752
Be 313.042	0.0233	ppb	0.0045	19.2	-420.108
Ca 370.602	31.19	ppb	1.659	5.3	119.7
Cd 226.502	0.0222	ppb	0.0310	140.1	33.1977
Co 228.615	-0.3385	ppb	0.4176	123.4	-8.0164
Cr 267.716	0.1242	ppb	0.0718	57.8	37.0259
Cu 324.754	-0.2796	ppb	0.1638	58.6	386.975
Fe 271.441	8.4859	ppb	1.3854	16.3	21.4372
K 766.491	27.4557	ppb	0.1454	0.5	1698.85
Mg 279.078	3.9563	ppb	1.4048	35.5	33.7793
Mn 257.610	0.0765	ppb	0.0249	32.6	92.7911
Mo 202.032	-0.2347	ppb	0.2762	117.7	6.2554
Na 330.237	163.366	ppb	123.031	75.3	43.5342
Ni 231.604	-0.5585	ppb	1.0293	184.3	-5.1339
Pb 220.353	1.0690	ppb	0.2378	22.2	11.0164
Sb 206.834	0.7881	ppb	1.2714	161.3	2.2511
Se 196.026	2.1677	ppb	0.6245	28.8	1.1542
Sn 189.925	-1.2127	ppb	1.6700	137.7	-6.6834
Sr 216.596	0.2941	ppb	0.1476	50.2	6.4777
Ti 334.941	0.0732	ppb	0.0338	46.2	-3.1535
Tl 190.794	-2.0523	ppb	2.8364	138.2	-12.2573
V 292.401	-0.0535	ppb	0.0919	171.9	-7.9280
Zn 206.200	2.9737	ppb	1.1611	39.0	5.1640

680-110823-b-1-a (Samp)

3/23/2015, 10:48:05 PM

Rack 2, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2785	-0.2068u	0.3014
Al 308.215	134.503	134.004	135.926
As 188.980	-0.1252u	-3.6220u	-7.0565u

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	332.762	334.232	336.269
Ba 389.178	50.3224	51.1279	50.4174
Be 313.042	0.0338	0.0421	0.0420
Ca 370.602	22980	23027	23033
Cd 226.502	0.0349	0.2664	0.1580
Co 228.615	0.6692	0.9901	0.2032
Cr 267.716	1382.14	1383.64	1384.18
Cu 324.754	0.6648	0.6740	1.1010
Fe 271.441	270.585	272.402	272.344
K 766.491	671.127	668.718	669.606
Mg 279.078	4499.88	4498.09	4500.42
Mn 257.610	364.259	364.171	364.196
Mo 202.032	0.1350	0.2055	-0.6065u
Na 330.237	10386.2	10433.0	10524.1
Ni 231.604	8.9998	8.7868	8.1562
Pb 220.353	1.8339	0.4241	2.3369
Sb 206.834	-7.3308	-0.4293	-1.2676
Se 196.026	5.1081	2.6204	-5.6943u
Sn 189.925	-0.1771u	-3.5861u	0.9222
Sr 216.596	90.6684	90.1046	89.7364
Ti 334.941	4.2758	3.8748	3.8927
Tl 190.794	-1.0021u	-4.8838u	2.9833
V 292.401	0.8211u	0.5390u	0.9134u
Zn 206.200	7.6069	6.5797	8.4196

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1244	ppb	0.2870	230.8	8.0015
Al 308.215	134.811	ppb	0.9972	0.7	1366.90
As 188.980	-3.6013	ppb	3.4657	96.2	-7.0343
B 249.678	334.421	ppb	1.7614	0.5	6042.77
Ba 389.178	50.6226	ppb	0.4402	0.9	1125.30
Be 313.042	0.0393	ppb	0.0048	12.1	-382.824
Ca 370.602	23014	ppb	28.81	0.1	72133
Cd 226.502	0.1531	ppb	0.1158	75.7	40.5570
Co 228.615	0.6208	ppb	0.3957	63.7	6.0100
Cr 267.716	1383.32	ppb	1.0578	0.1	74428.7
Cu 324.754	0.8132	ppb	0.2493	30.6	475.505
Fe 271.441	271.777	ppb	1.0328	0.4	438.297
K 766.491	669.817	ppb	1.2180	0.2	31137.1
Mg 279.078	4499.46	ppb	1.2222	0.0	13006.8
Mn 257.610	364.209	ppb	0.0454	0.0	83159.0
Mo 202.032	-0.0887	ppb	0.4499	507.3	7.1904
Na 330.237	10447.8	ppb	70.1064	0.7	576.781
Ni 231.604	8.6476	ppb	0.4387	5.1	23.6974
Pb 220.353	1.5316	ppb	0.9916	64.7	12.9977
Sb 206.834	-3.0092	ppb	3.7660	125.1	14.8394
Se 196.026	0.6781	ppb	5.6571	834.3	0.5363
Sn 189.925	-0.9470	ppb	2.3507	248.2	-6.4858
Sr 216.596	90.1698	ppb	0.4694	0.5	1077.88
Ti 334.941	4.0144	ppb	0.2265	5.6	1149.94
Tl 190.794	-0.9676	ppb	3.9337	406.6	-10.9145
V 292.401	0.7578	ppb	0.1950	25.7	-49.8878
Zn 206.200	7.5354	ppb	0.9221	12.2	7.2258

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Cont Calib Verif (CCV) 3/23/2015, 10:52:50 PM Rack 3, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	485.564	484.284	484.615
Al 308.215	4725.56	4703.00	4704.23
As 188.980	482.061	479.535	481.586
B 249.678	482.460	481.302	483.362
Ba 389.178	4855.31	4836.41	4840.69
Be 313.042	491.189	490.971	487.866
Ca 370.602	4918	4912	4873
Cd 226.502	485.822	483.080	482.107
Co 228.615	493.236	490.111	489.985
Cr 267.716	4978.11	4960.24	4954.60
Cu 324.754	4892.21	4942.43	4929.27
Fe 271.441	4857.56	4845.70	4828.80
K 766.491	10147.0	10081.6	10096.8
Mg 279.078	4850.16	4841.41	4834.12
Mn 257.610	4926.67	4922.71	4916.26
Mo 202.032	482.940	479.453	479.345
Na 330.237	7393.24	7131.46	7160.05
Ni 231.604	2465.20	2453.14	2447.43
Pb 220.353	482.481	478.689	479.169
Sb 206.834	953.914	955.470	955.103
Se 196.026	4817.16	4804.86	4806.48
Sn 189.925	4812.64	4826.04	4840.96
Sr 216.596	2448.54	2443.59	2446.63
Ti 334.941	488.112	486.728	487.066
Tl 190.794	4887.73	4860.91	4857.42
V 292.401	4836.71	4814.27	4811.08
Zn 206.200	2462.62	2450.54	2469.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	484.821	ppb	0.6646	0.1	43566.8	96.96420
Al 308.215	4710.93	ppb	12.6857	0.3	35835.3	94.21862
As 188.980	481.061	ppb	1.3425	0.3	343.367	96.21215
B 249.678	482.375	ppb	1.0326	0.2	8703.65	96.47497
Ba 389.178	4844.14	ppb	9.9125	0.2	110640	96.88271
Be 313.042	490.009	ppb	1.8589	0.4	938145	98.00172
Ca 370.602	4901	ppb	24.79	0.5	15741	98.02113
Cd 226.502	483.670	ppb	1.9267	0.4	21695.1	96.73391
Co 228.615	491.110	ppb	1.8416	0.4	5532.62	98.22206
Cr 267.716	4964.32	ppb	12.2734	0.2	266986	99.28632
Cu 324.754	4921.30	ppb	26.0447	0.5	398318	98.42606
Fe 271.441	4844.02	ppb	14.4527	0.3	7725.74	96.88040
K 766.491	10108.5	ppb	34.2460	0.3	463694	101.08479
Mg 279.078	4841.90	ppb	8.0291	0.2	13893.4	96.83795
Mn 257.610	4921.88	ppb	5.2544	0.1	1122410	98.43752
Mo 202.032	480.579	ppb	2.0454	0.4	3113.47	96.11586
Na 330.237	7228.25	ppb	143.594	2.0	378.539	96.37667
Ni 231.604	2455.26	ppb	9.0707	0.4	7679.46	98.21035
Pb 220.353	480.113	ppb	2.0645	0.4	781.110	96.02257
Sb 206.834	954.829	ppb	0.8134	0.1	1444.23	95.48286
Se 196.026	4809.50	ppb	6.6861	0.1	2284.01	96.19001
Sn 189.925	4826.55	ppb	14.1642	0.3	3528.04	96.53098
Sr 216.596	2446.25	ppb	2.4948	0.1	28866.7	97.85005

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	487.302	ppb	0.7218	0.1	141670	97.46040
Tl 190.794	4868.69	ppb	16.5839	0.3	5368.87	97.37373
V 292.401	4820.69	ppb	13.9684	0.3	137576	96.41376
Zn 206.200	2461.00	ppb	9.7457	0.4	2539.86	98.43996

Cont Calib Blank (CCB) 3/23/2015, 10:57:36 PM Rack 3, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1361	0.0974	0.4938
Al 308.215	3.0938	0.7484	2.5125
As 188.980	-2.7957u	-1.1491u	-2.1505u
B 249.678	8.2325	7.0169	7.2133
Ba 389.178	-0.5733u	-0.6061u	-0.5583u
Be 313.042	0.0315	0.0422	0.0355
Ca 370.602	5.375	-0.2357u	2.914
Cd 226.502	-0.1010u	0.0368	-0.1688u
Co 228.615	-0.0809u	-0.3659u	0.1287
Cr 267.716	-0.0254u	0.1073	0.3153
Cu 324.754	-0.1390u	-0.2410u	-0.3184u
Fe 271.441	4.5362	-3.4142u	3.8313
K 766.491	-2.9641u	-3.4184u	-2.7419u
Mg 279.078	0.1549	-1.2291u	-1.6758u
Mn 257.610	0.0424	0.0617	0.1025
Mo 202.032	-0.0408u	-0.1112u	-0.4784u
Na 330.237	-53.8318u	85.0293	-55.8802u
Ni 231.604	-1.7345u	0.4117	-0.6276u
Pb 220.353	-0.3989u	2.5221	0.2338
Sb 206.834	4.4970	-0.5391u	-1.4228u
Se 196.026	0.0415	1.7973	2.0123
Sn 189.925	1.9926	-1.4304u	3.1671
Sr 216.596	0.0167	-0.2339u	0.1975
Ti 334.941	0.1388	0.1020	0.1392
Tl 190.794	0.7188	1.1720	0.8271
V 292.401	-0.0107u	0.0995	0.0246
Zn 206.200	-0.5373u	-1.5883u	-2.1753u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2424	ppb	0.2186	90.2	20.1134	0.24242
Al 308.215	2.1182	ppb	1.2214	57.7	388.310	2.11824
As 188.980	-2.0318	ppb	0.8297	40.8	-5.8970	-2.03176
B 249.678	7.4875	ppb	0.6525	8.7	172.102	7.48755
Ba 389.178	-0.5792	ppb	0.0244	4.2	-54.0438	-0.57921
Be 313.042	0.0364	ppb	0.0054	14.8	-395.164	0.03637
Ca 370.602	2.684	ppb	2.812	104.8	30.52	2.68443
Cd 226.502	-0.0777	ppb	0.1048	134.9	28.6915	-0.07768
Co 228.615	-0.1060	ppb	0.2483	234.1	-5.4015	-0.10604
Cr 267.716	0.1324	ppb	0.1717	129.7	37.4630	0.13240
Cu 324.754	-0.2328	ppb	0.0900	38.6	390.758	-0.23281
Fe 271.441	1.6511	ppb	4.4008	266.5	10.7073	1.65111
K 766.491	-3.0415	ppb	0.3448	11.3	301.223	-3.04150
Mg 279.078	-0.9167	ppb	0.9545	104.1	19.7098	-0.91665
Mn 257.610	0.0689	ppb	0.0307	44.6	91.0091	0.06889
Mo 202.032	-0.2101	ppb	0.2350	111.8	6.4151	-0.21009

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-8.2275	ppb	80.7693	981.7	34.7002	-8.22751
Ni 231.604	-0.6502	ppb	1.0733	165.1	-5.4218	-0.65017
Pb 220.353	0.7856	ppb	1.5367	195.6	10.5628	0.78564
Sb 206.834	0.8450	ppb	3.1934	377.9	2.3326	0.84502
Se 196.026	1.2837	ppb	1.0811	84.2	0.7346	1.28370
Sn 189.925	1.2431	ppb	2.3887	192.2	-4.8854	1.24310
Sr 216.596	-0.0066	ppb	0.2167	3291.9	2.9047	-0.00658
Ti 334.941	0.1267	ppb	0.0214	16.9	12.4023	0.12666
Tl 190.794	0.9060	ppb	0.2367	26.1	-8.9932	0.90597
V 292.401	0.0378	ppb	0.0563	148.9	-5.3280	0.03780
Zn 206.200	-1.4336	ppb	0.8298	57.9	0.6021	-1.43365

680-110823-b-2-a (Samp)

3/23/2015, 11:02:21 PM

Rack 3, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0314u	-0.2973u	0.0679
Al 308.215	120.044	115.750	120.819
As 188.980	-1.0990u	-0.3926u	-2.5421u
B 249.678	17.6807	18.1380	18.2358
Ba 389.178	71.1067	69.9689	69.4840
Be 313.042	0.0145	0.0154	0.0127
Ca 370.602	80086	80241	80581
Cd 226.502	-0.0337	0.0305	0.0485
Co 228.615	-0.6348u	-0.1657u	-0.4878u
Cr 267.716	0.3960	0.6558	0.4353
Cu 324.754	-0.2996u	-0.3080u	-0.1172u
Fe 271.441	167.569	167.845	170.878
K 766.491	808.952	804.654	805.246
Mg 279.078	39829.2	39835.3	39834.7
Mn 257.610	25.5691	25.5611	25.5450
Mo 202.032	-0.2656u	-0.5066u	0.2321
Na 330.237	3717.85	3651.95	3844.09
Ni 231.604	1.2474	1.0206	2.0140
Pb 220.353	3.0480	-0.8224u	1.4111
Sb 206.834	0.3105	2.0535	2.5194
Se 196.026	9.0185	1.4777	6.1341
Sn 189.925	-0.1068u	-2.7121u	0.5373
Sr 216.596	80.6768	80.6068	80.3356
Ti 334.941	3.4662	3.6993	3.8995
Tl 190.794	-2.4448u	-1.5563u	-3.7764u
V 292.401	0.5020	0.3321	0.4551
Zn 206.200	0.4336	0.6928	1.8584

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0869	ppb	0.1888	217.2	-13.3304
Al 308.215	118.871	ppb	2.7307	2.3	1249.60
As 188.980	-1.3446	ppb	1.0956	81.5	-5.4012
B 249.678	18.0182	ppb	0.2963	1.6	360.806
Ba 389.178	70.1865	ppb	0.8330	1.2	1647.11
Be 313.042	0.0142	ppb	0.0014	9.7	-410.439
Ca 370.602	80303	ppb	253.4	0.3	251612
Cd 226.502	0.0151	ppb	0.0432	286.2	34.3881
Co 228.615	-0.4294	ppb	0.2399	55.9	-8.9486

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.4957	ppb	0.1400	28.3	57.2860
Cu 324.754	-0.2416	ppb	0.1078	44.6	390.120
Fe 271.441	168.764	ppb	1.8362	1.1	273.573
K 766.491	806.284	ppb	2.3291	0.3	37391.1
Mg 279.078	39833.1	ppb	3.3861	0.0	115042
Mn 257.610	25.5584	ppb	0.0123	0.0	6225.65
Mo 202.032	-0.1801	ppb	0.3767	209.2	6.6014
Na 330.237	3737.97	ppb	97.6344	2.6	228.899
Ni 231.604	1.4273	ppb	0.5205	36.5	1.0952
Pb 220.353	1.2122	ppb	1.9428	160.3	11.2588
Sb 206.834	1.6278	ppb	1.1644	71.5	3.4760
Se 196.026	5.5434	ppb	3.8049	68.6	2.7643
Sn 189.925	-0.7605	ppb	1.7205	226.2	-6.3513
Sr 216.596	80.5397	ppb	0.1802	0.2	985.388
Ti 334.941	3.6883	ppb	0.2168	5.9	1117.88
Tl 190.794	-2.5925	ppb	1.1174	43.1	-12.8646
V 292.401	0.4297	ppb	0.0878	20.4	6.3088
Zn 206.200	0.9949	ppb	0.7590	76.3	3.1207

680-110823-b-3-a (Samp)

3/23/2015, 11:07:07 PM

Rack 3, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0432	0.1988	0.0923
Al 308.215	111.137	112.959	110.454
As 188.980	-1.6199u	-5.7907u	-1.1765u
B 249.678	16.3529	16.2097	15.9393
Ba 389.178	70.4026	69.4019	70.3369
Be 313.042	0.0130	0.0110	0.0179
Ca 370.602	80583	80328	80328
Cd 226.502	-0.0801u	-0.0133	-0.0301
Co 228.615	-0.2173u	-0.0155u	-0.2838u
Cr 267.716	0.5995	0.5049	0.5443
Cu 324.754	-0.0454u	-0.0308u	-0.5198u
Fe 271.441	159.641	156.969	151.684
K 766.491	804.015	806.941	803.904
Mg 279.078	39891.1	39788.2	39793.0
Mn 257.610	22.9114	22.8438	22.8285
Mo 202.032	-0.3566u	-0.3485u	-0.2512u
Na 330.237	3540.77	3639.87	3657.94
Ni 231.604	2.8760	1.3081	2.0082
Pb 220.353	0.4946	0.8352	1.2493
Sb 206.834	-4.0713u	-1.5360u	0.4095
Se 196.026	0.5483	3.8367	0.4393
Sn 189.925	1.5957	-2.7040u	-3.3697u
Sr 216.596	80.1986	79.0121	79.9695
Ti 334.941	3.3306	3.1491	3.2513
Tl 190.794	-1.5063u	-1.9726u	-2.3975u
V 292.401	0.1389	0.1370	0.4238
Zn 206.200	2.3440	1.6450	1.3017

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1115	ppb	0.0796	71.4	4.5457
Al 308.215	111.516	ppb	1.2950	1.2	1195.32

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-2.8623	ppb	2.5457	88.9	-6.4989
B 249.678	16.1673	ppb	0.2100	1.3	327.536
Ba 389.178	70.0471	ppb	0.5598	0.8	1643.72
Be 313.042	0.0140	ppb	0.0036	25.6	-410.865
Ca 370.602	80413	ppb	146.8	0.2	251957
Cd 226.502	-0.0412	ppb	0.0347	84.3	31.8220
Co 228.615	-0.1722	ppb	0.1397	81.1	-6.0577
Cr 267.716	0.5496	ppb	0.0475	8.6	60.1665
Cu 324.754	-0.1987	ppb	0.2782	140.1	393.585
Fe 271.441	156.098	ppb	4.0496	2.6	253.665
K 766.491	804.954	ppb	1.7224	0.2	37330.2
Mg 279.078	39824.1	ppb	58.0696	0.1	115016
Mn 257.610	22.8612	ppb	0.0441	0.2	5609.88
Mo 202.032	-0.3188	ppb	0.0587	18.4	5.7040
Na 330.237	3612.86	ppb	63.0807	1.7	222.400
Ni 231.604	2.0641	ppb	0.7854	38.1	3.0869
Pb 220.353	0.8597	ppb	0.3779	44.0	10.6946
Sb 206.834	-1.7326	ppb	2.2468	129.7	-1.3951
Se 196.026	1.6081	ppb	1.9308	120.1	0.8958
Sn 189.925	-1.4927	ppb	2.6952	180.6	-6.8873
Sr 216.596	79.7267	ppb	0.6294	0.8	975.706
Ti 334.941	3.2437	ppb	0.0910	2.8	988.434
Tl 190.794	-1.9588	ppb	0.4458	22.8	-12.1652
V 292.401	0.2333	ppb	0.1650	70.8	0.7101
Zn 206.200	1.7636	ppb	0.5312	30.1	3.9159

680-110768-k-1-b (Samp)

3/23/2015, 11:11:52 PM

Rack 3, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1607	0.0967	0.2687
Al 308.215	13125.7	13106.2	13114.3
As 188.980	65.7221	65.2481	57.4611
B 249.678	38.5529	37.8431	37.8740
Ba 389.178	55.5385	55.8975	56.0358
Be 313.042	0.5627	0.5610	0.5694
Ca 370.602	20249	20209	20198
Cd 226.502	1.2626	1.2454	1.1664
Co 228.615	10.6641	11.4204	11.3155
Cr 267.716	37.7442	37.9525	37.7135
Cu 324.754	294.974	292.730	293.894
Fe 271.441	7100.87	7103.06	7100.07
K 766.491	15175.2	15222.3	15193.3
Mg 279.078	1344.35	1345.27	1345.62
Mn 257.610	148.624	148.794	148.501
Mo 202.032	10.6139	10.5616	10.8724
Na 330.237	1494250x	1491545x	1487366x
Ni 231.604	49.8693	50.4647	49.6170
Pb 220.353	63.1953	61.2072	65.7559
Sb 206.834	4.7940	5.3925	8.3518
Se 196.026	8.2684	17.8217	11.2528
Sn 189.925	1.9003	2.0657	2.8931
Sr 216.596	115.821	116.799	115.820
Ti 334.941	187.667	187.727	187.550

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Tl 190.794	-1.0565u	-4.3286u	-4.2814u
V 292.401	70.3438	69.8887	70.3664
Zn 206.200	179.005	176.912	180.323

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1754b	ppb	0.0869	49.6	9.5503
Al 308.215	13115.4b	ppb	9.7887	0.1	97125.8
As 188.980	62.8104b	ppb	4.6387	7.4	40.9533
B 249.678	38.0900b	ppb	0.4012	1.1	704.084
Ba 389.178	55.8239b	ppb	0.2567	0.5	1243.01
Be 313.042	0.5644b	ppb	0.0044	0.8	458.656
Ca 370.602	20219b	ppb	26.79	0.1	63383
Cd 226.502	1.2248b	ppb	0.0513	4.2	117.519
Co 228.615	11.1333b	ppb	0.4098	3.7	125.359
Cr 267.716	37.8034b	ppb	0.1300	0.3	2095.66
Cu 324.754	293.866b	ppb	1.1220	0.4	24175.9
Fe 271.441	7101.33b	ppb	1.5477	0.0	11181.6
K 766.491	15196.9b	ppb	23.7380	0.2	696888
Mg 279.078	1345.08b	ppb	0.6586	0.0	3897.84
Mn 257.610	148.640b	ppb	0.1474	0.1	33993.7
Mo 202.032	10.6826b	ppb	0.1664	1.6	76.5369
Na 330.237	1491054xb	ppb	3467.89	0.2	77354.2
Ni 231.604	49.9836b	ppb	0.4353	0.9	153.625
Pb 220.353	63.3861b	ppb	2.2803	3.6	110.883
Sb 206.834	6.1795b	ppb	1.9050	30.8	10.5084
Se 196.026	12.4476b	ppb	4.8875	39.3	6.1350
Sn 189.925	2.2864b	ppb	0.5319	23.3	-3.6771
Sr 216.596	116.146b	ppb	0.5650	0.5	1391.53
Ti 334.941	187.648b	ppb	0.0898	0.0	54424.3
Tl 190.794	-3.2222b	ppb	1.8757	58.2	-14.4783
V 292.401	70.1996b	ppb	0.2695	0.4	1984.72
Zn 206.200	178.747b	ppb	1.7204	1.0	187.258

680-110877-c-5-a (Samp)

3/23/2015, 11:16:37 PM

Rack 3, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1982	0.0592	-0.0798u
Al 308.215	1077.86	1075.11	1075.47
As 188.980	-4.4203u	-2.5562u	-2.1142u
B 249.678	6.6376	6.3944	7.1240
Ba 389.178	5.2446	5.1966	5.7959
Be 313.042	0.0560	0.0612	0.0600
Ca 370.602	6191	6168	6195
Cd 226.502	0.6193	0.7122	0.4965
Co 228.615	0.2358	-0.2720u	-0.1213u
Cr 267.716	0.5965	0.5318	0.4786
Cu 324.754	10.5047	10.7696	10.6057
Fe 271.441	57.3392	52.0371	54.8831
K 766.491	524.027	519.533	520.488
Mg 279.078	221.307	218.529	220.402
Mn 257.610	8.4472	8.4048	8.4367
Mo 202.032	0.3732	0.2428	0.2038
Na 330.237	5243.06	4855.55	5136.34

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Ni 231.604	16.7710	15.5799	15.1423
Pb 220.353	3.1700	2.2243	2.8490
Sb 206.834	1.9292	2.6792	0.5786
Se 196.026	3.2108	1.5774	7.3926
Sn 189.925	-1.4037u	0.6395	1.8059
Sr 216.596	63.4652	63.2259	62.7068
Ti 334.941	1.8479	1.6711	1.7158
Tl 190.794	1.7093	-0.1174u	-1.8547u
V 292.401	0.1031	0.7240	0.4444
Zn 206.200	11.7325	10.1038	10.0649

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0592	ppb	0.1390	234.9	1.3450
Al 308.215	1076.15	ppb	1.4959	0.1	8310.66
As 188.980	-3.0303	ppb	1.2240	40.4	-6.6198
B 249.678	6.7187	ppb	0.3715	5.5	158.173
Ba 389.178	5.4124	ppb	0.3330	6.2	83.3293
Be 313.042	0.0591	ppb	0.0027	4.6	-349.984
Ca 370.602	6185	ppb	14.57	0.2	19399
Cd 226.502	0.6093	ppb	0.1082	17.8	59.6961
Co 228.615	-0.0525	ppb	0.2608	496.6	-4.7723
Cr 267.716	0.5357	ppb	0.0591	11.0	59.3139
Cu 324.754	10.6267	ppb	0.1337	1.3	1268.95
Fe 271.441	54.7531	ppb	2.6534	4.8	94.2600
K 766.491	521.349	ppb	2.3675	0.5	24333.1
Mg 279.078	220.079	ppb	1.4168	0.6	657.235
Mn 257.610	8.4296	ppb	0.0221	0.3	1999.38
Mo 202.032	0.2733	ppb	0.0887	32.5	9.5412
Na 330.237	5078.32	ppb	200.162	3.9	298.317
Ni 231.604	15.8310	ppb	0.8429	5.3	46.1604
Pb 220.353	2.7478	ppb	0.4809	17.5	13.6886
Sb 206.834	1.7290	ppb	1.0645	61.6	3.6121
Se 196.026	4.0603	ppb	2.9992	73.9	2.0548
Sn 189.925	0.3472	ppb	1.6246	467.9	-5.5398
Sr 216.596	63.1326	ppb	0.3877	0.6	751.454
Ti 334.941	1.7449	ppb	0.0919	5.3	482.980
Tl 190.794	-0.0876	ppb	1.7822	2033.7	-10.0938
V 292.401	0.4238	ppb	0.3110	73.4	5.5404
Zn 206.200	10.6337	ppb	0.9517	9.0	13.0930

680-110758-a-3-b (Samp)

3/23/2015, 11:21:23 PM

Rack 3, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2899u	0.0950u	0.0417u
Al 308.215	380.419	378.224	379.035
As 188.980	0.7350	1.8135	-2.3619u
B 249.678	305.059	303.750	304.720
Ba 389.178	222.125	221.184	221.884
Be 313.042	0.1680	0.1765	0.1797
Ca 370.602	6143	6152	6134
Cd 226.502	-1.6236	-1.8120	-1.7337
Co 228.615	-0.3159	-0.5304u	-0.2666
Cr 267.716	3.2175	3.2326	3.1274

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
Cu 324.754	5.2667	5.2142	5.3627
Fe 271.441	70676.5	70636.4	70460.5
K 766.491	2451.57	2455.75	2450.75
Mg 279.078	5247.85	5255.95	5229.76
Mn 257.610	378.822	378.763	377.811
Mo 202.032	7.5325	6.9806	6.8186
Na 330.237	21402.6	21193.6	21588.0
Ni 231.604	7.0479	6.5860	7.5860
Pb 220.353	3.2791	2.6305	3.4115
Sb 206.834	4.2084	-0.9023u	2.1697
Se 196.026	10.1818	-0.3541	3.6125
Sn 189.925	0.2222	-3.2573u	1.4459
Sr 216.596	50.6580	50.8246	50.1671
Ti 334.941	2.5428	3.0176	2.8247
Tl 190.794	1.7865u	4.6351u	2.4304u
V 292.401	4.9032	4.5235	4.3242
Zn 206.200	7.6093	8.1165	6.0410

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0511	ppb	0.2086	408.2	-19.0441
Al 308.215	379.226	ppb	1.1101	0.3	3178.93
As 188.980	0.0622	ppb	2.1675	3485.4	-4.8884
B 249.678	304.510	ppb	0.6796	0.2	5329.84
Ba 389.178	221.731	ppb	0.4888	0.2	5091.03
Be 313.042	0.1747	ppb	0.0061	3.5	-134.182
Ca 370.602	6143	ppb	9.329	0.2	18474
Cd 226.502	-1.7231	ppb	0.0946	5.5	357.012
Co 228.615	-0.3710	ppb	0.1402	37.8	-3.7991
Cr 267.716	3.1925	ppb	0.0569	1.8	237.891
Cu 324.754	5.2812	ppb	0.0753	1.4	870.691
Fe 271.441	70591.1	ppb	114.865	0.2	111060
K 766.491	2452.69	ppb	2.6784	0.1	112843
Mg 279.078	5244.52	ppb	13.4075	0.3	15157.7
Mn 257.610	378.465	ppb	0.5675	0.1	86637.0
Mo 202.032	7.1105	ppb	0.3743	5.3	50.6427
Na 330.237	21394.7	ppb	197.315	0.9	1126.41
Ni 231.604	7.0733	ppb	0.5005	7.1	24.8512
Pb 220.353	3.1070	ppb	0.4180	13.5	19.1272
Sb 206.834	1.8253	ppb	2.5727	140.9	4.9912
Se 196.026	4.4801	ppb	5.3212	118.8	3.0032
Sn 189.925	-0.5297	ppb	2.4401	460.6	-6.1772
Sr 216.596	50.5499	ppb	0.3418	0.7	693.369
Ti 334.941	2.7950	ppb	0.2388	8.5	804.229
Tl 190.794	2.9507	ppb	1.4939	50.6	-17.6980
V 292.401	4.5836	ppb	0.2942	6.4	95.0976
Zn 206.200	7.2556	ppb	1.0820	14.9	11.9678

X (Samp) 3/23/2015, 11:26:09 PM Rack 3, Tube 8
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.1850	10.5502	10.1097
Al 308.215	211.976	210.662	210.965
As 188.980	21.7632	15.9479	17.8565

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Replicates Concentration		
B 249.678	102.506	103.286	102.774
Ba 389.178	9.8797	8.9400	9.0338
Be 313.042	4.2963	4.2902	4.3136
Ca 370.602	529.9	531.3	528.6
Cd 226.502	4.9836	4.9796	4.9631
Co 228.615	9.4259	9.8074	9.9467
Cr 267.716	10.4071	10.3002	10.4628
Cu 324.754	20.9061	20.8099	21.2923
Fe 271.441	59.6567	62.6652	63.8413
K 766.491	1063.34	1062.56	1071.31
Mg 279.078	512.235	515.387	517.665
Mn 257.610	10.8965	10.8965	10.9877
Mo 202.032	9.9641	9.6275	10.0577
Na 330.237	918.692	1093.88	1015.96
Ni 231.604	40.9067	42.0001	41.1710
Pb 220.353	9.1553	10.2304	11.0031
Sb 206.834	23.9313	19.5773	22.9474
Se 196.026	27.3083	17.7699	26.2140
Sn 189.925	48.3515	49.3935	48.9920
Sr 216.596	9.9218	9.9784	10.0001
Ti 334.941	10.2789	10.2600	10.2848
Tl 190.794	27.9369	23.3000	27.2117
V 292.401	10.0280	10.4960	10.3116
Zn 206.200	21.7513	21.6732	20.6644

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.2816	ppb	0.2356	2.3	923.033
Al 308.215	211.201	ppb	0.6879	0.3	1932.24
As 188.980	18.5226	ppb	2.9643	16.0	8.9676
B 249.678	102.855	ppb	0.3962	0.4	1884.95
Ba 389.178	9.2845	ppb	0.5176	5.6	172.482
Be 313.042	4.3001	ppb	0.0121	0.3	7769.19
Ca 370.602	529.9	ppb	1.371	0.3	1687
Cd 226.502	4.9754	ppb	0.0109	0.2	255.060
Co 228.615	9.7267	ppb	0.2696	2.8	105.277
Cr 267.716	10.3900	ppb	0.0826	0.8	589.088
Cu 324.754	21.0028	ppb	0.2553	1.2	2108.30
Fe 271.441	62.0544	ppb	2.1581	3.5	106.941
K 766.491	1065.74	ppb	4.8447	0.5	49281.4
Mg 279.078	515.095	ppb	2.7267	0.5	1509.41
Mn 257.610	10.9269	ppb	0.0526	0.5	2571.16
Mo 202.032	9.8831	ppb	0.2262	2.3	71.7377
Na 330.237	1009.51	ppb	87.7709	8.7	87.1833
Ni 231.604	41.3593	ppb	0.5705	1.4	126.026
Pb 220.353	10.1296	ppb	0.9280	9.2	25.4885
Sb 206.834	22.1520	ppb	2.2834	10.3	33.2059
Se 196.026	23.7641	ppb	5.2199	22.0	11.4073
Sn 189.925	48.9124	ppb	0.5256	1.1	30.0167
Sr 216.596	9.9668	ppb	0.0404	0.4	119.881
Ti 334.941	10.2746	ppb	0.0129	0.1	2963.81
Tl 190.794	26.1496	ppb	2.4943	9.5	18.8515
V 292.401	10.2785	ppb	0.2357	2.3	285.049
Zn 206.200	21.3630	ppb	0.6063	2.8	24.1793

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

CRI (Samp) **3/23/2015, 11:30:54 PM** **Rack 3, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.1575	10.2756	10.0441
Al 308.215	213.082	219.311	219.683
As 188.980	23.1854	16.5201	22.1469
B 249.678	100.986	103.800	103.493
Ba 389.178	9.5432	9.5427	9.5598
Be 313.042	4.3105	4.4035	4.3530
Ca 370.602	542.2	549.3	546.2
Cd 226.502	4.8779	5.0824	5.0942
Co 228.615	10.1538	10.0414	9.5989
Cr 267.716	10.4147	10.7800	10.7895
Cu 324.754	20.9135	21.1372	21.0605
Fe 271.441	54.2006	55.3237	62.3132
K 766.491	1073.44	1098.82	1084.90
Mg 279.078	514.703	527.944	525.166
Mn 257.610	10.9293	11.1488	11.0634
Mo 202.032	9.5867	9.4496	9.7974
Na 330.237	1081.07	1018.32	1164.73
Ni 231.604	41.8225	42.7831	43.0803
Pb 220.353	10.3594	10.7279	11.6359
Sb 206.834	20.2209	21.8855	25.7492
Se 196.026	18.6140	17.4770	21.5469
Sn 189.925	53.5718	52.9574	50.1568
Sr 216.596	9.8334	10.7138	10.2373
Ti 334.941	10.3660	10.5520	10.4402
Tl 190.794	23.0289	24.8545	24.2837
V 292.401	10.2432	10.6184	10.4864
Zn 206.200	20.9786	21.0788	21.6071

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.1591	ppb	0.1158	1.1	912.000
Al 308.215	217.359	ppb	3.7080	1.7	1977.68
As 188.980	20.6175	ppb	3.5862	17.4	10.4831
B 249.678	102.760	ppb	1.5441	1.5	1883.25
Ba 389.178	9.5486	ppb	0.0097	0.1	178.525
Be 313.042	4.3556	ppb	0.0466	1.1	7875.71
Ca 370.602	545.9	ppb	3.516	0.6	1737
Cd 226.502	5.0182	ppb	0.1216	2.4	256.950
Co 228.615	9.9314	ppb	0.2934	3.0	107.595
Cr 267.716	10.6614	ppb	0.2137	2.0	603.679
Cu 324.754	21.0371	ppb	0.1137	0.5	2111.05
Fe 271.441	57.2792	ppb	4.3956	7.7	99.4479
K 766.491	1085.72	ppb	12.7106	1.2	50197.2
Mg 279.078	522.604	ppb	6.9820	1.3	1531.08
Mn 257.610	11.0472	ppb	0.1107	1.0	2598.64
Mo 202.032	9.6112	ppb	0.1752	1.8	69.9777
Na 330.237	1088.04	ppb	73.4507	6.8	91.2583
Ni 231.604	42.5620	ppb	0.6574	1.5	129.789
Pb 220.353	10.9077	ppb	0.6570	6.0	26.7327
Sb 206.834	22.6185	ppb	2.8361	12.5	33.8933
Se 196.026	19.2126	ppb	2.0999	10.9	9.2471
Sn 189.925	52.2287	ppb	1.8204	3.5	32.4448
Sr 216.596	10.2615	ppb	0.4407	4.3	123.341

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	10.4527	ppb	0.0937	0.9	3015.62
Tl 190.794	24.0557	ppb	0.9340	3.9	16.5449
V 292.401	10.4493	ppb	0.1903	1.8	289.995
Zn 206.200	21.2215	ppb	0.3377	1.6	24.0322

Cont Calib Verif (CCV) 3/23/2015, 11:35:39 PM Rack 3, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	485.704	484.683	487.933
Al 308.215	4719.57	4696.77	4711.81
As 188.980	480.569	484.109	490.368
B 249.678	480.828	481.089	483.587
Ba 389.178	4846.37	4834.99	4849.51
Be 313.042	490.308	489.648	491.880
Ca 370.602	4917	4905	4916
Cd 226.502	485.553	483.131	482.714
Co 228.615	493.800	492.172	493.086
Cr 267.716	4979.08	4959.83	4970.87
Cu 324.754	4931.97	4895.37	4963.42
Fe 271.441	4859.42	4848.64	4860.62
K 766.491	10122.9	10098.1	10146.3
Mg 279.078	4874.59	4844.79	4855.98
Mn 257.610	4936.58	4927.35	4923.13
Mo 202.032	482.787	480.323	480.045
Na 330.237	7224.25	7164.81	7240.33
Ni 231.604	2470.32	2456.35	2460.33
Pb 220.353	477.653	472.859	481.945
Sb 206.834	959.933	952.111	952.524
Se 196.026	4821.98	4809.40	4828.77
Sn 189.925	4862.59	4837.32	4868.88
Sr 216.596	2455.50	2431.71	2446.97
Ti 334.941	488.946	487.051	489.473
Tl 190.794	4882.42	4862.80	4866.17
V 292.401	4826.47	4815.32	4830.36
Zn 206.200	2486.22	2461.02	2456.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	486.107	ppb	1.6620	0.3	43682.5	97.22138
Al 308.215	4709.38	ppb	11.5925	0.2	35823.9	94.18761
As 188.980	485.015	ppb	4.9622	1.0	346.227	97.00307
B 249.678	481.835	ppb	1.5233	0.3	8693.94	96.36697
Ba 389.178	4843.62	ppb	7.6418	0.2	110629	96.87246
Be 313.042	490.612	ppb	1.1463	0.2	939301	98.12241
Ca 370.602	4913	ppb	7.074	0.1	15779	98.25680
Cd 226.502	483.799	ppb	1.5328	0.3	21700.9	96.75984
Co 228.615	493.019	ppb	0.8159	0.2	5554.13	98.60385
Cr 267.716	4969.92	ppb	9.6591	0.2	267288	99.39848
Cu 324.754	4930.26	ppb	34.0598	0.7	399042	98.60513
Fe 271.441	4856.23	ppb	6.5991	0.1	7745.12	97.12456
K 766.491	10122.4	ppb	24.1048	0.2	464333	101.22441
Mg 279.078	4858.45	ppb	15.0517	0.3	13941.0	97.16902
Mn 257.610	4929.02	ppb	6.8818	0.1	1124039	98.58037
Mo 202.032	481.051	ppb	1.5092	0.3	3116.53	96.21028

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	7209.80	ppb	39.7781	0.6	377.528	96.13063
Ni 231.604	2462.33	ppb	7.1959	0.3	7701.60	98.49338
Pb 220.353	477.486	ppb	4.5456	1.0	776.911	95.49711
Sb 206.834	954.856	ppb	4.4017	0.5	1444.27	95.48563
Se 196.026	4820.05	ppb	9.8294	0.2	2289.02	96.40103
Sn 189.925	4856.26	ppb	16.7057	0.3	3549.80	97.12528
Sr 216.596	2444.72	ppb	12.0537	0.5	28848.5	97.78897
Ti 334.941	488.490	ppb	1.2739	0.3	142016	97.69804
Tl 190.794	4870.47	ppb	10.4889	0.2	5370.84	97.40931
V 292.401	4824.05	ppb	7.8070	0.2	137672	96.48105
Zn 206.200	2468.08	ppb	15.8415	0.6	2547.19	98.72312

Cont Calib Blank (CCB)

3/23/2015, 11:40:24 PM

Rack 3, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1711	-0.0043u	-0.0718u
Al 308.215	2.8653	3.1876	1.7364
As 188.980	-4.1387u	-3.0712u	-2.1127u
B 249.678	7.9430	7.0045	6.2046
Ba 389.178	-0.3617u	-0.2400u	-0.6930u
Be 313.042	0.0391	0.0419	0.0348
Ca 370.602	3.929	0.0534	3.502
Cd 226.502	-0.0797u	0.0058	-0.0082u
Co 228.615	-0.1299u	-0.0028u	-0.3806u
Cr 267.716	-0.0071u	0.3028	0.2282
Cu 324.754	-0.2347u	-0.2538u	-0.6233u
Fe 271.441	0.4552	-2.9236u	0.4037
K 766.491	-3.1457u	-3.0511u	-2.8421u
Mg 279.078	1.4772	-0.9080u	2.4760
Mn 257.610	0.0830	0.0662	0.0630
Mo 202.032	-0.3969u	-0.0573u	-0.1849u
Na 330.237	71.3220	16.4764	15.9678
Ni 231.604	0.2999	0.4663	0.3109
Pb 220.353	1.5197	0.7179	1.3152
Sb 206.834	3.5891	1.7591	2.0849
Se 196.026	2.3248	8.9072	3.6387
Sn 189.925	0.4165	-1.3575u	-0.2732u
Sr 216.596	-0.1700u	-0.3426u	-0.0176u
Ti 334.941	0.1434	0.0735	0.1161
Tl 190.794	0.6441	3.1646	-0.3835u
V 292.401	0.1269	-0.0915u	0.1772
Zn 206.200	-1.8460u	-0.3239u	-1.7644u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0317	ppb	0.1254	396.0	1.1584	0.03166
Al 308.215	2.5964	ppb	0.7620	29.3	391.841	2.59644
As 188.980	-3.1075	ppb	1.0135	32.6	-6.6752	-3.10753
B 249.678	7.0507	ppb	0.8701	12.3	164.282	7.05071
Ba 389.178	-0.4316	ppb	0.2345	54.3	-50.6737	-0.43158
Be 313.042	0.0386	ppb	0.0036	9.3	-390.865	0.03861
Ca 370.602	2.495	ppb	2.125	85.2	29.90	2.49470
Cd 226.502	-0.0274	ppb	0.0459	167.7	30.9451	-0.02737
Co 228.615	-0.1711	ppb	0.1922	112.4	-6.1323	-0.17106

E03232015.wvq. All Data Report 3/26/2015, 2:01:10 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	0.1746	ppb	0.1617	92.6	39.7340	0.17463
Cu 324.754	-0.3706	ppb	0.2190	59.1	379.615	-0.37059
Fe 271.441	-0.6882	ppb	1.9361	281.3	7.0221	-0.68822
K 766.491	-3.0129	ppb	0.1554	5.2	302.532	-3.01294
Mg 279.078	1.0151	ppb	1.7387	171.3	25.2877	1.01507
Mn 257.610	0.0707	ppb	0.0108	15.2	91.4208	0.07073
Mo 202.032	-0.2131	ppb	0.1716	80.5	6.3959	-0.21305
Na 330.237	34.5887	ppb	31.8130	92.0	36.9178	34.58873
Ni 231.604	0.3590	ppb	0.0930	25.9	-2.2634	0.35903
Pb 220.353	1.1842	ppb	0.4166	35.2	11.2002	1.18424
Sb 206.834	2.4777	ppb	0.9762	39.4	4.7010	2.47771
Se 196.026	4.9569	ppb	3.4836	70.3	2.4779	4.95689
Sn 189.925	-0.4047	ppb	0.8943	221.0	-6.0919	-0.40472
Sr 216.596	-0.1767	ppb	0.1626	92.0	0.8667	-0.17674
Ti 334.941	0.1110	ppb	0.0352	31.7	7.8395	0.11099
Tl 190.794	1.1417	ppb	1.8256	159.9	-8.7333	1.14173
V 292.401	0.0709	ppb	0.1428	201.5	-4.3747	0.07087
Zn 206.200	-1.3114	ppb	0.8562	65.3	0.7286	-1.31143

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Batch Number: 375688 Batch Start Date: 03/23/15 10:46 Batch Analyst: West, Ryan

Batch Method: 3010A Batch End Date: 03/23/15 16:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00032	MS_LCS1_WK 00018	MS_LCS2_wk 00173
MB 680-375688/1		3010A, 6010C			50 mL	50 mL			
LCS 680-375688/2		3010A, 6010C			50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-110788-A-2	25LM20114	3010A, 6010C	T	<2	50 mL	50 mL			
680-110788-A-2	25LM20114MS	3010A, 6010C	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
MS 680-110788-A-2	25LM20114MSD	3010A, 6010C	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
MSD 680-110788-A-1	25LM20113	3010A, 6010C	T	<2	50 mL	50 mL			
680-110788-A-3	25LM20115	3010A, 6010C	T	<2	50 mL	50 mL			
680-110788-A-4	25LM00112	3010A, 6010C	T	<2	50 mL	50 mL			

Batch Notes	
First End time	1630
Lot # of hydrochloric acid	3959043
Lot # of Nitric Acid	3953070
Hot Block ID number	HB7
Oven, Bath or Block Temperature 1	96 Degrees C
pH Paper Lot Number	224012
Pipette ID	ME8
First Start time	1109
ID number of the thermometer	ME Prep 11
Digestion Tube/Cup Lot #	3825343
Uncorrected Temperature	95 Degrees C
Vendor of Reagent used	Macron

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-110788-1

SDG No.: _____

Project: SEAD-25 Long Term Monitoring

Client Sample ID	Lab Sample ID
<u>25LM20113</u>	<u>680-110788-1</u>
<u>25LM20114</u>	<u>680-110788-2</u>
<u>25LM20115</u>	<u>680-110788-3</u>
<u>25LM00112</u>	<u>680-110788-4</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG ID.: _____

Matrix: Water

Date Sampled: 03/18/2015 11:00

Reporting Basis: WET

Date Received: 03/19/2015 08:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	1.3	0.050	0.010	mg/L			1	353.2
14797-65-0	Nitrite as N	ND	0.050	0.010	mg/L			1	353.2

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG ID.: _____

Matrix: Water

Date Sampled: 03/18/2015 12:15

Reporting Basis: WET

Date Received: 03/19/2015 08:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.69	0.050	0.010	mg/L			1	353.2
14797-65-0	Nitrite as N	ND	0.050	0.010	mg/L			1	353.2

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG ID.:

Matrix: Water

Date Sampled: 03/18/2015 12:15

Reporting Basis: WET

Date Received: 03/19/2015 08:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.69	0.050	0.010	mg/L			1	353.2
14797-65-0	Nitrite as N	ND	0.050	0.010	mg/L			1	353.2

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG ID.:

Matrix: Water

Date Sampled: 03/18/2015 14:30

Reporting Basis: WET

Date Received: 03/19/2015 08:19

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	ND	0.050	0.010	mg/L			1	353.2
14797-65-0	Nitrite as N	ND	0.050	0.010	mg/L			1	353.2

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1
 SDG No.: _____
 Analyst: GRX Batch Start Date: 03/19/2015
 Reporting Units: mg/L Analytical Batch No.: 375369

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	15:45	Nitrate as N	0.560	0.500	112			NO3+NO2 ICV_00066
			Nitrite as N	0.495	0.500	99			NO3+NO2 ICV_00066
8	ICB	15:47	Nitrate as N	ND					
			Nitrite as N	ND					
11	CCV	15:50	Nitrate as N	0.562	0.500	112	75-125		NO3/NO2 LCS_00076
			Nitrite as N	0.502	0.500	100	90-110		NO3/NO2 LCS_00076
12	CCB	15:51	Nitrate as N	ND					
			Nitrite as N	ND					
23	ICV	19:28	Nitrate as N	0.572	0.500	114			NO3+NO2 ICV_00066
			Nitrite as N	0.487	0.500	97			NO3+NO2 ICV_00066
24	ICB	19:29	Nitrate as N	ND					
			Nitrite as N	ND					
25	CCV	19:30	Nitrate as N	0.532	0.500	106	75-125		NO3/NO2 LCS_00076
			Nitrite as N	0.473	0.500	95	90-110		NO3/NO2 LCS_00076
26	CCB	19:31	Nitrate as N	ND					
			Nitrite as N	ND					
33	CCV	19:41	Nitrate as N	0.546	0.500	109	75-125		NO3/NO2 LCS_00076
			Nitrite as N	0.478	0.500	96	90-110		NO3/NO2 LCS_00076
34	CCB	19:42	Nitrate as N	ND					
			Nitrite as N	ND					

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah

Job No.: 680-110788-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 375369 Date: 03/19/2015 15:53							
353.2	MB 680-375369/13	Nitrate as N	ND		mg/L	0.050	1
353.2	MB 680-375369/13	Nitrite as N	ND		mg/L	0.050	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 375369 Date: 03/19/2015 19:34											
353.2	680-110788-2	Nitrate as N	0.69		mg/L						
353.2	680-110788-2	Nitrate as N	1.13		mg/L	0.500	89	75-125			
	MS										
353.2	680-110788-2	Nitrite as N	ND		mg/L						
353.2	680-110788-2	Nitrite as N	0.491		mg/L	0.500	98	90-110			
	MS										

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

5-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 375369 Date: 03/19/2015 19:35											
353.2	680-110788-2	Nitrate as N	1.12		mg/L	0.500	86	75-125	2	30	
	MSD										
353.2	680-110788-2	Nitrite as N	0.489		mg/L	0.500	98	90-110	1	10	
	MSD										

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

7A-IN
 LAB CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 375369		Date: 03/19/2015 15:56									
						LCS Source: NO3/NO2 LCS_00076					
353.2	LCS 680-375369/16	Nitrate as N	0.578		mg/L	0.500	116	75-125			
353.2	LCS 680-375369/16	Nitrite as N	0.502		mg/L	0.500	100	90-110			

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-110788-1
SDG Number: _____
Matrix: Water Instrument ID: LACHAT2
Method: 353.2 MDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.05	0.01
Nitrite as N		0.05	0.01

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-110788-1
SDG Number: _____
Matrix: Water Instrument ID: LACHAT2
Method: 353.2 XMDL Date: 01/01/2011 16:03

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.05	0.01
Nitrite as N		0.05	0.01

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Instrument ID: LACHAT2 Method: 353.2

Start Date: 03/19/2015 15:38 End Date: 03/19/2015 19:42

Lab Sample ID	D / F	Type	Time	Analytes															
				N - N O 2	N O 3														
IC 680-375369/1			15:38	X	X														
IC 680-375369/2			15:39	X	X														
IC 680-375369/3			15:41	X	X														
IC 680-375369/4			15:42	X	X														
IC 680-375369/5			15:43	X	X														
IC 680-375369/6			15:44	X	X														
ICV 680-375369/7	1		15:45	X	X														
ICB 680-375369/8	1		15:47	X	X														
ZZZZZZ			15:48																
ZZZZZZ			15:49																
CCV 680-375369/11	1		15:50	X	X														
CCB 680-375369/12	1		15:51	X	X														
MB 680-375369/13	1	T	15:53	X	X														
ZZZZZZ			15:54																
ZZZZZZ			15:55																
LCS 680-375369/16	1	T	15:56	X	X														
IC 680-375369/17			19:21	X	X														
IC 680-375369/18			19:22	X	X														
IC 680-375369/19			19:23	X	X														
IC 680-375369/20			19:24	X	X														
IC 680-375369/21			19:25	X	X														
IC 680-375369/22			19:27	X	X														
ICV 680-375369/23	1		19:28	X	X														
ICB 680-375369/24	1		19:29	X	X														
CCV 680-375369/25	1		19:30	X	X														
CCB 680-375369/26	1		19:31	X	X														
680-110788-2	1	T	19:33	X	X														
680-110788-2 MS	1	T	19:34	X	X														
680-110788-2 MSD	1	T	19:35	X	X														
680-110788-3	1	T	19:36	X	X														
680-110788-4	1	T	19:37	X	X														
680-110788-1	1	T	19:39	X	X														
CCV 680-375369/33	1		19:41	X	X														
CCB 680-375369/34	1		19:42	X	X														

Prep Types
T = Total/NA

Original Run Filename: OM_3-18-2015_18-05-14.OMN Created: 3/18/2015 18:05:14
 Original Run Author's Signature: [rossje]
 Current Run Filename: OM_3-18-2015_18-05-14.OMN Last Modified: 3/18/2015 18:45:35
 Current Run Author's Signature: [rossje]
 Description: 353.2 NITRATE+NITRITE
 LACHAT 2

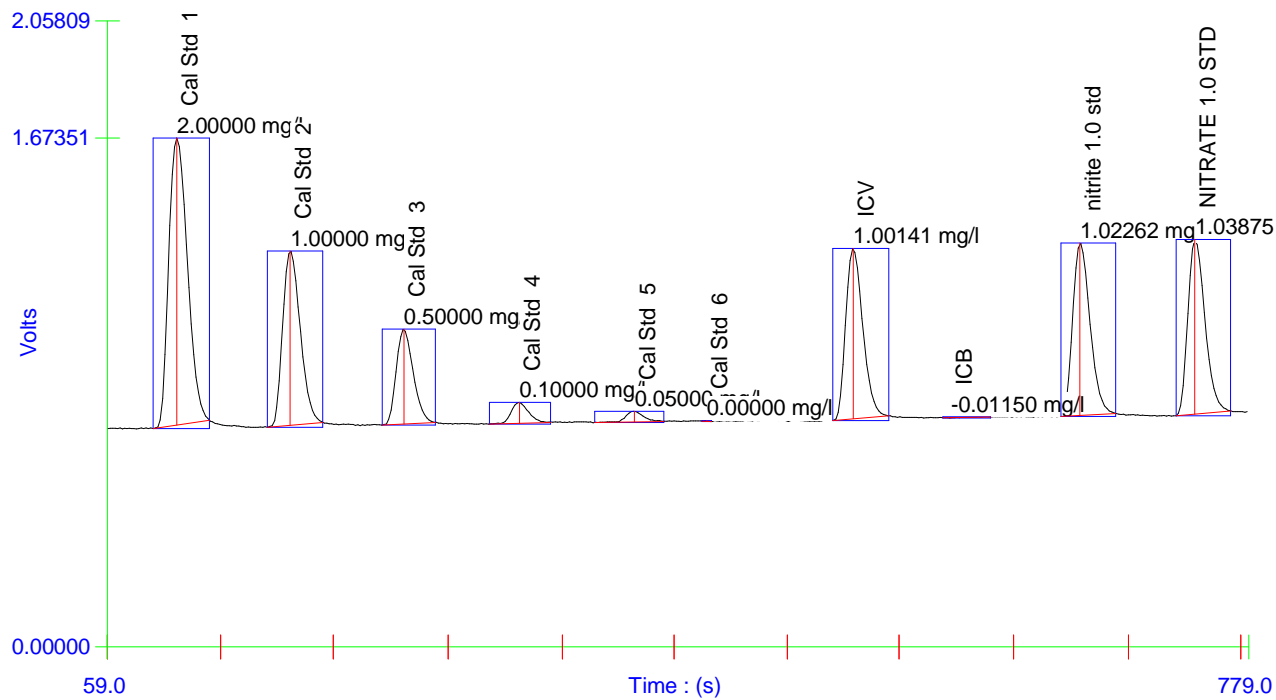
Sample	Cup No.	Channel 1		Channel 2		Detection Time	ADF	MDF
		NO3+NO2		NO2				
		Conc. (mg/l)	Area (V.s)	Conc. (mg/l)	Area (V.s)			
Cal Std 1	S5	2.00000	12.85119	1.00000	13.83653	3/18/2015@18:06:17		
Cal Std 2	S9	1.00000	7.35635	0.50000	6.68730	3/18/2015@18:07:28		
Cal Std 3	S10	0.50000	3.86480	0.25000	3.21332	3/18/2015@18:08:40		
Cal Std 4	S11	0.10000	0.85644	0.05000	0.64741	3/18/2015@18:09:53		
Cal Std 5	S12	0.05000	0.44448	0.02500	0.31912	3/18/2015@18:11:04		
Cal Std 6	S1	0.00000	0.00626	0.00000	0.01613	3/18/2015@18:12:16		
ICV	S3	1.00141	6.97139	0.48790	6.61383	3/18/2015@18:13:27		
Known Conc:		1.00000		0.50000				
Calibration:		Table/Fig. : 1		Table/Fig. : 2				
ICB	S1	-0.01150	0.00928	0.00223	0.01624	3/18/2015@18:14:38		
Known Conc:		0.00000		0.00000				
nitrite 1.0 std	S4	1.02262	7.11722	1.01341	13.75270	3/18/2015@18:15:50		
Known Conc:		1.00000		1.00000				
NITRATE 1.0 STD	S6	1.03875	7.22805	0.00213	0.01498	3/18/2015@18:17:03		
Known Conc:		1.00000		0.00000				
CCV	S2	0.99140	6.90261	0.48954	6.63616	3/18/2015@18:18:14		
Known Conc:		1.00000		0.50000				
CCB	S1	-0.01666	-0.02624	0.00144	0.00560	3/18/2015@18:19:25		
Known Conc:		0.00000		0.00000				
MB	S1	-0.01801	-0.03550	0.00176	0.00994	3/18/2015@18:20:36		
Known Conc:		0.00000		0.00000				
LLCS NO2	S7	0.08710	0.68694	0.04080	0.54024	3/18/2015@18:21:49		
Known Conc:		0.05000		0.05000				
LLCS NO3	S8	0.03769	0.34737	0.02069	0.26701	3/18/2015@18:23:03		
Known Conc:		0.05000		100.00000				
LCS	S2	1.01403	7.05815	0.48870	6.62477	3/18/2015@18:24:14		
Known Conc:		1.00000		0.50000				
680-110728-F-1	1	-0.00055	0.08450	0.00638	0.07259	3/18/2015@18:25:26		
680-110728-F-1 MS	2	1.05876	7.36558	0.51271	6.95093	3/18/2015@18:26:39		
680-110728-F-1 MSD	3	1.05943	7.37020	0.51325	6.95829	3/18/2015@18:27:51		
Spiking Conc:		1.00000		0.50000				
680-110738-G-1	4	-0.22945	-1.48882	0.13740	1.85243	3/18/2015@18:29:03		
680-110738-G-1 DU	4	-0.08483	-0.49479	0.15587	2.10337	3/18/2015@18:30:15		
680-110738-G-2	5	-0.01340	-0.00383	0.02783	0.36403	3/18/2015@18:31:27		
CCV	S2	1.06515	7.40954	0.49070	6.65188	3/18/2015@18:32:39		
Known Conc:		1.00000		0.50000				
CCB	S1	-0.00859	0.02926	0.00157	0.00729	3/18/2015@18:33:50		
Known Conc:		0.00000		0.00000				
680-110742-C-1	6	0.24326	1.76033	0.00158	0.00743	3/18/2015@18:35:02		
680-110742-C-2	7	0.85871	5.99059	0.01338	0.16771	3/18/2015@18:36:14		
680-110742-C-3	8	0.07211	0.58391	0.00566	0.06287	3/18/2015@18:37:26		
680-110738-G-1	4	-0.01489	-0.01407	0.00617	0.06980	3/18/2015@18:38:38		
680-110738-G-1 DU	4	-0.02201	-0.06298	0.00511	0.05546	3/18/2015@18:39:50		
CCV	S2	1.06982	7.44159	0.48991	6.64121	3/18/2015@18:42:36		
Known Conc:		1.00000		0.50000				
CCB	S1	-0.02345	-0.07291	0.00229	0.01712	3/18/2015@18:43:47		
Known Conc:		0.00000		0.00000				

Analyte Properties Table for : OM_3-18-2015_18-05-14.OMN

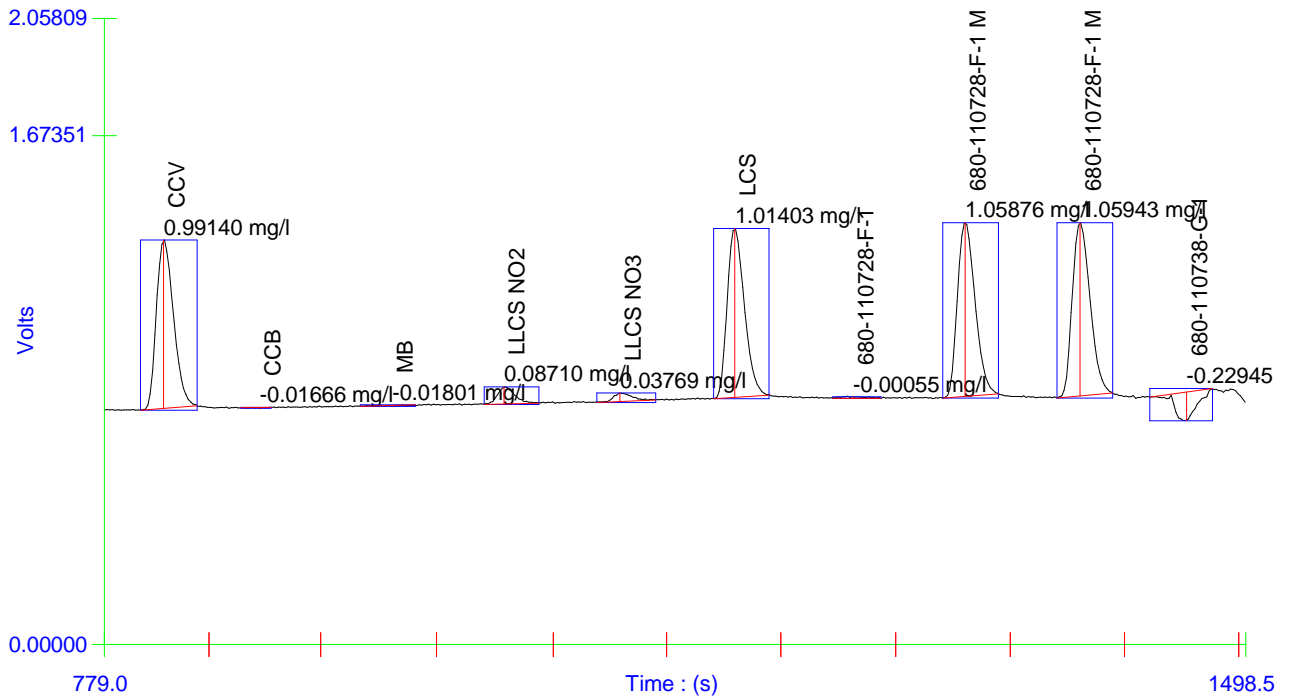
Property	Channel 1	Channel 2
	NO3+NO2	NO2
Concentration Units	mg/l	mg/l
Calibration Fit Type	First Order	First Order
Clear Calibration	No	No
Force through Zero	No	No

Calibration Weighting	1/x	1/x
Auto Dilution Trigger	Yes	Yes
% of High Standard	100	100
Quik Chem Method	10-107-04-1-C	10-107-04-1-C
Chemistry	Direct/Bipolar	Direct/Bipolar
Calibration by Height	No	No
Inject to Peak Start	16	16
Peak Base Width	50	47

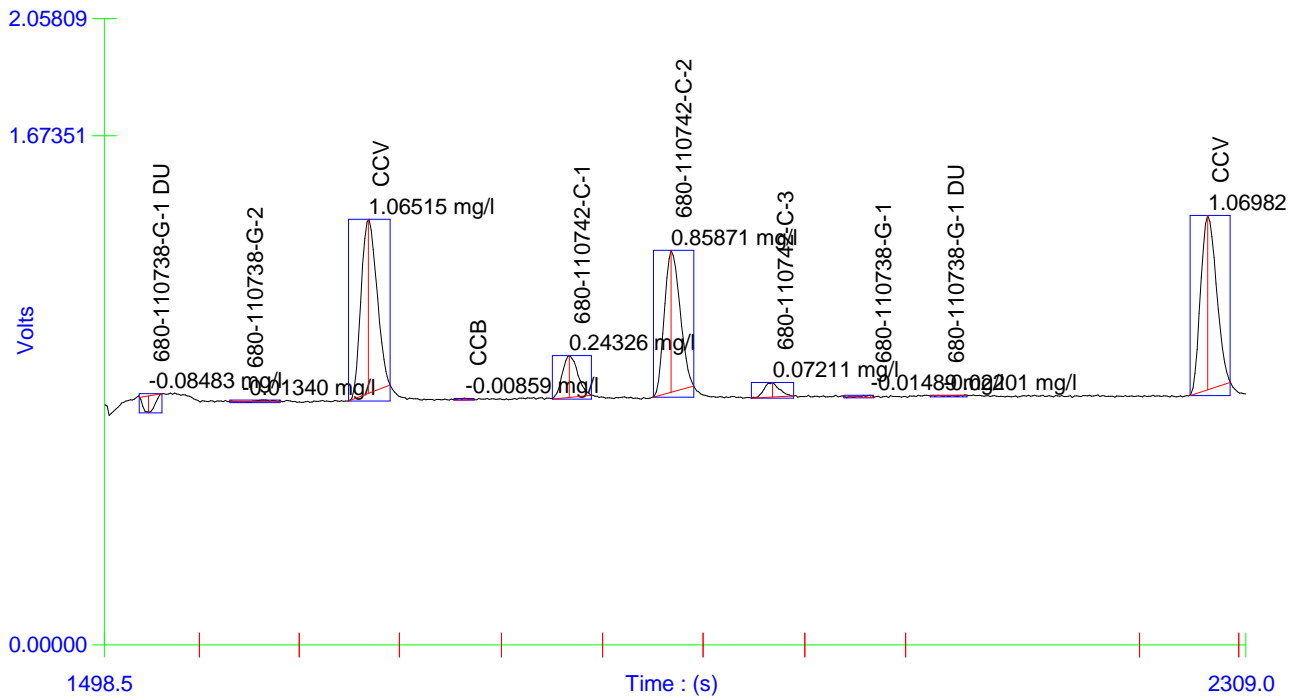
Channel 1 - Set: 1 / 4



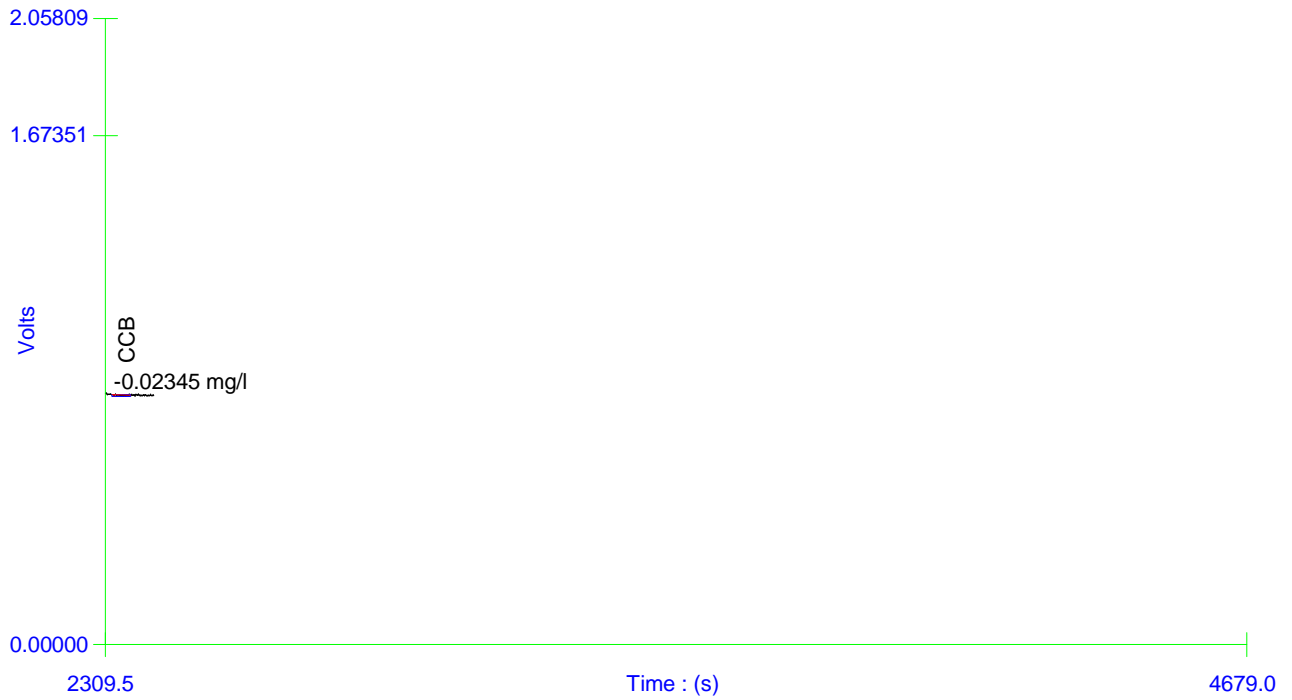
Channel 1 - Set: 2 / 4



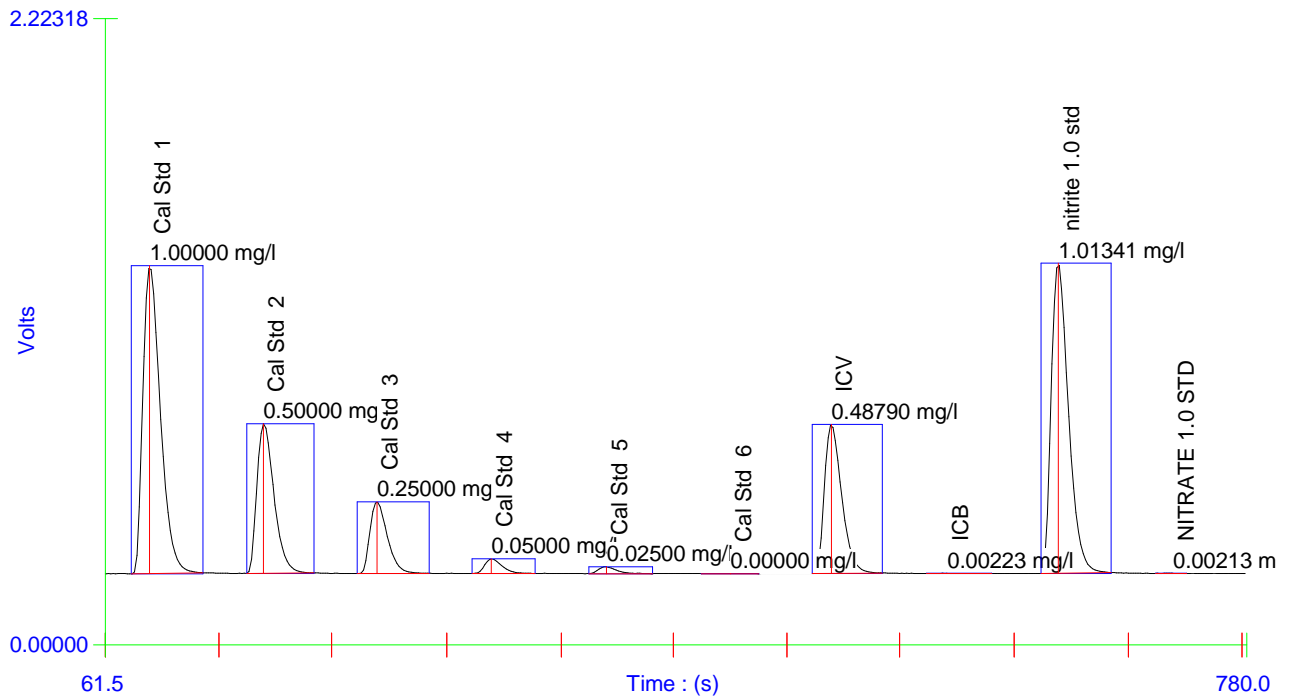
Channel 1 - Set: 3 / 4



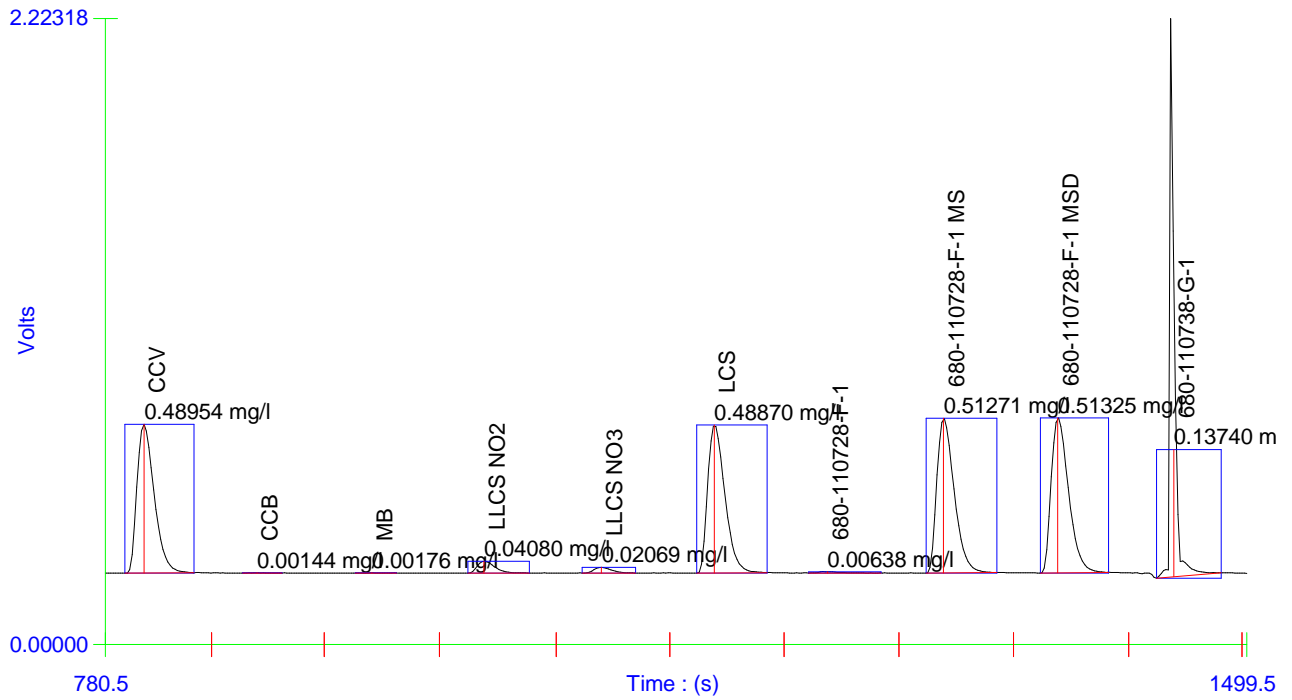
Channel 1 - Set: 4 / 4



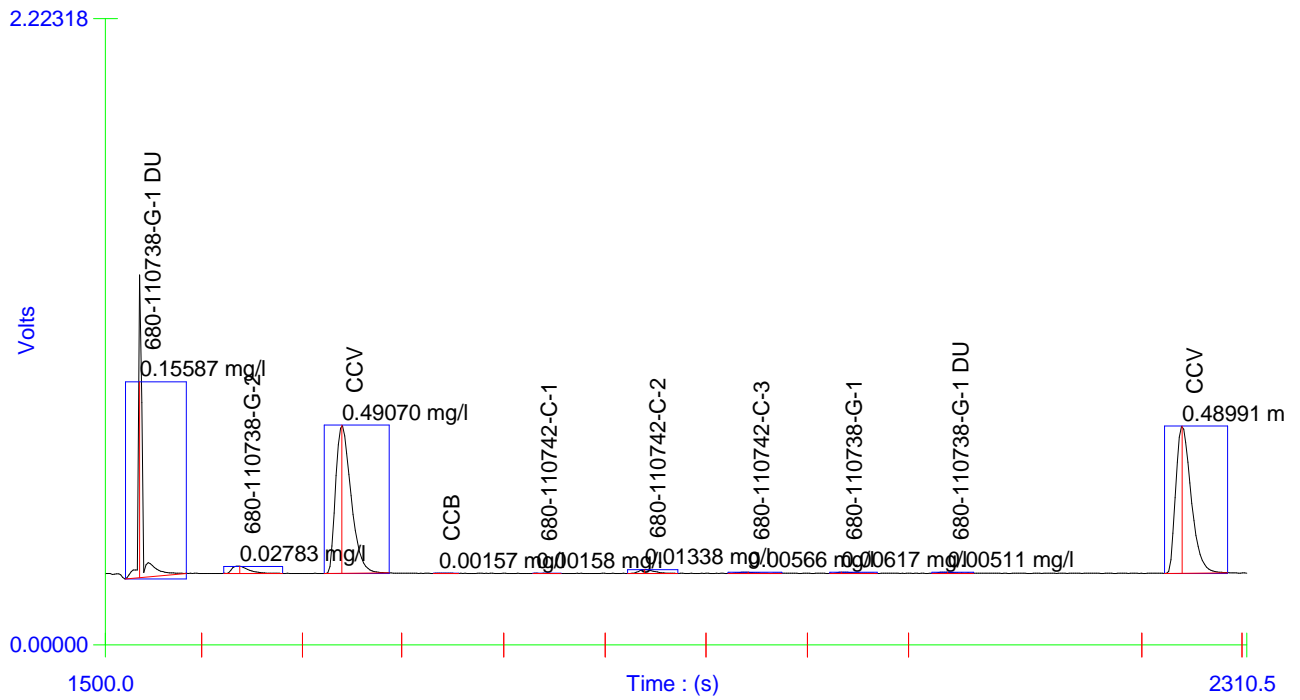
Channel 2 - Set: 1 / 4



Channel 2 - Set: 2 / 4



Channel 2 - Set: 3 / 4



Channel 2 - Set: 4 / 4

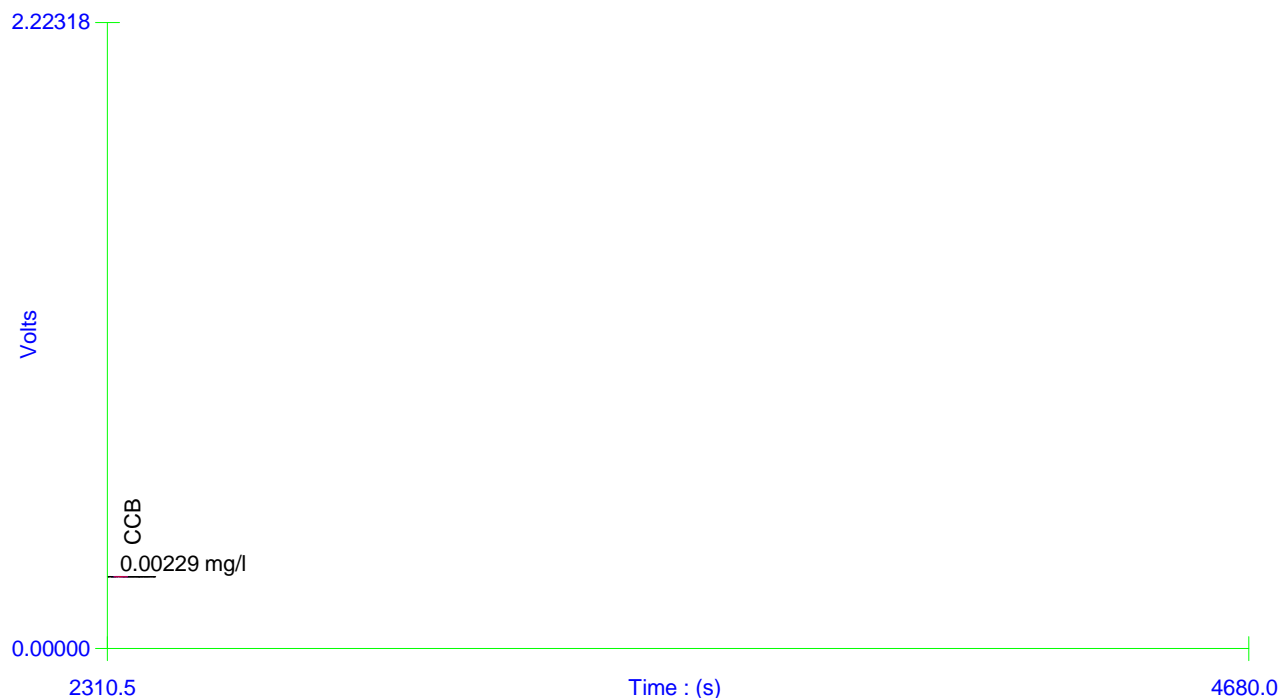


Table : 1 (NO3+NO2)

	Known Conc. (mg/l)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/l)	Detection Date	Detection Time
1	2.00000	1	12.85119	0.94431	0.0	6.5	1.85685	3/18/2015	18:06:17
2	1.00000	1	7.35635	0.57330	0.0	-6.3	1.05741	3/18/2015	18:07:28
3	0.50000	1	3.86480	0.31176	0.0	-10.3	0.54944	3/18/2015	18:08:40
4	0.10000	1	0.85644	0.06882	0.0	-10.5	0.11176	3/18/2015	18:09:53
5	0.05000	1	0.44448	0.03526	0.0	-2.4	0.05182	3/18/2015	18:11:04
6	0.00000	1	0.00626	0.00281			-0.01193	3/18/2015	18:12:16

Figure : 1 (NO3+NO2)

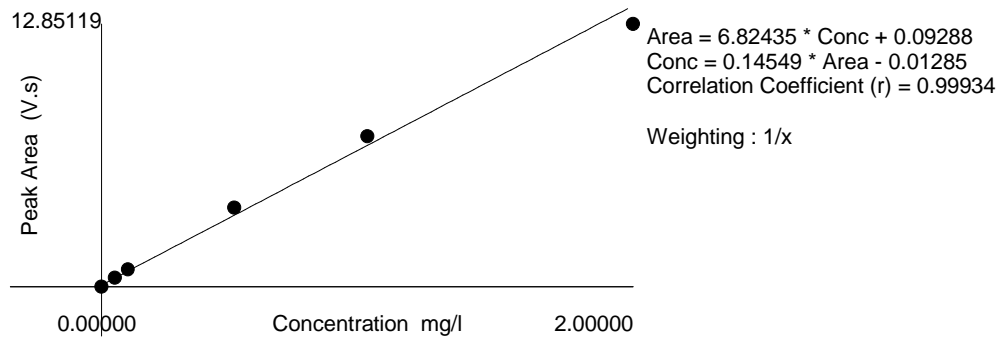
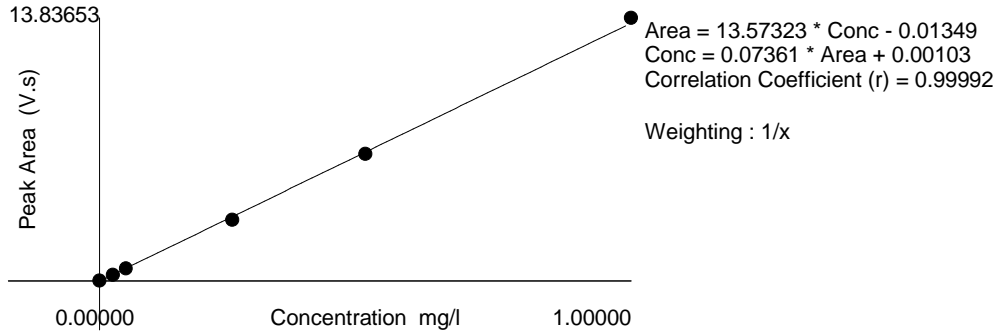


Table : 2 (NO2)

	Known Conc. (mg/l)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/l)	Detection Date	Detection Time
1	1.00000	1	13.83653	1.09330	0.0	-2.0	1.01958	3/18/2015	18:06:20
2	0.50000	1	6.68730	0.53186	0.0	1.3	0.49330	3/18/2015	18:07:32
3	0.25000	1	3.21332	0.25529	0.0	4.9	0.23757	3/18/2015	18:08:43
4	0.05000	1	0.64741	0.05218	0.0	2.7	0.04869	3/18/2015	18:09:55
5	0.02500	1	0.31912	0.02480	0.0	2.1	0.02452	3/18/2015	18:11:07
6	0.00000	1	0.01613	0.00077			0.00222	3/18/2015	18:12:18

Figure : 2 (NO2)



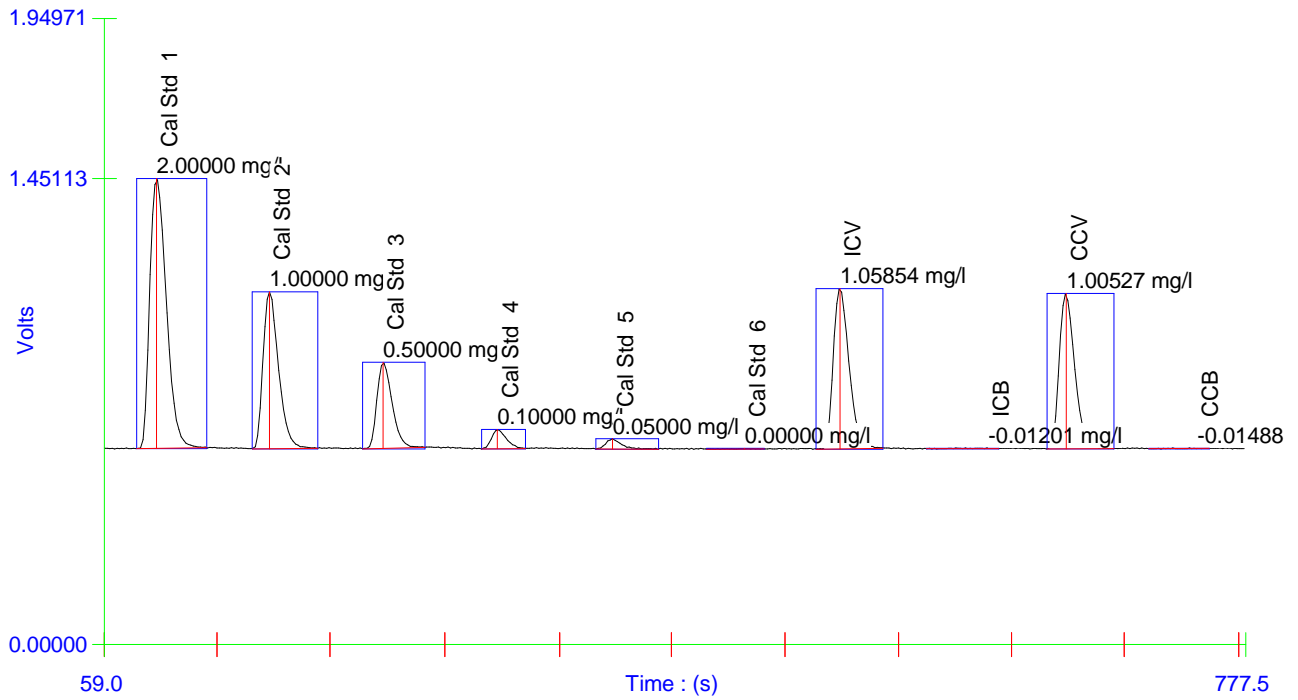
Original Run Filename: OM_3-19-2015_19-20-01.OMN Created: 3/19/2015 19:20:01
 Original Run Author's Signature: [rossje]
 Current Run Filename: OM_3-19-2015_19-20-01.OMN Last Modified: 3/19/2015 19:44:44
 Current Run Author's Signature: [rossje]
 Description: 353.2 NITRATE+NITRITE
 LACHAT 2

Sample	Cup No.	Channel 1		Channel 2		Detection Time	ADF	MDF
		NO3+NO2		NO2				
		Conc. (mg/l)	Area (V.s)	Conc. (mg/l)	Area (V.s)			
Cal Std 1	S5	2.00000	10.09992	1.00000	14.30090	3/19/2015@19:21:04		
Cal Std 2	S9	1.00000	5.59915	0.50000	7.04846	3/19/2015@19:22:17		
Cal Std 3	S10	0.50000	2.93630	0.25000	3.45591	3/19/2015@19:23:26		
Cal Std 4	S11	0.10000	0.63833	0.05000	0.72068	3/19/2015@19:24:38		
Cal Std 5	S12	0.05000	0.34947	0.02500	0.35309	3/19/2015@19:25:50		
Cal Std 6	S1	0.00000	0.00988	0.00000	0.00881	3/19/2015@19:27:01		
ICV	S3	1.05854	5.68283	0.48682	6.90357	3/19/2015@19:28:14		
Known Conc:		1.00000		0.50000				
Calibration:		Table/Fig. : 1		Table/Fig. : 2				
ICB	S1	-0.01201	0.00290	0.00054	0.00980	3/19/2015@19:29:25		
Known Conc:		0.00000		0.00000				
CCV	S2	1.00527	5.40017	0.47282	6.70516	3/19/2015@19:30:36		
Known Conc:		1.00000		0.50000				
CCB	S1	-0.01488	-0.01235	0.00055	0.00995	3/19/2015@19:31:47		
Known Conc:		0.00000		0.00000				
680-110788-b-2	1	0.68777	3.71564	0.00081	0.01366	3/19/2015@19:32:59		
680-110788-b-2MS	2	1.62567	8.69180	0.49137	6.96804	3/19/2015@19:34:12		
680-110788-b-2MSD	3	1.60556	8.58510	0.48885	6.93237	3/19/2015@19:35:24		
Spiking Conc:		1.00000		0.50000				
680-110788-b-3	4	0.68749	3.71418	0.00109	0.01765	3/19/2015@19:36:36		
680-110788-b-4	5	0.00861	0.11231	0.00091	0.01499	3/19/2015@19:37:49		
680-110788-b-1	6	1.31023	7.01822	0.00263	0.03938	3/19/2015@19:39:00		
CCV	S2	1.02390	5.49906	0.47818	6.78104	3/19/2015@19:41:46		
Known Conc:		1.00000		0.50000				
CCB	S1	-0.01460	-0.01084	-0.00041	-0.00373	3/19/2015@19:42:57		
Known Conc:		0.00000		0.00000				

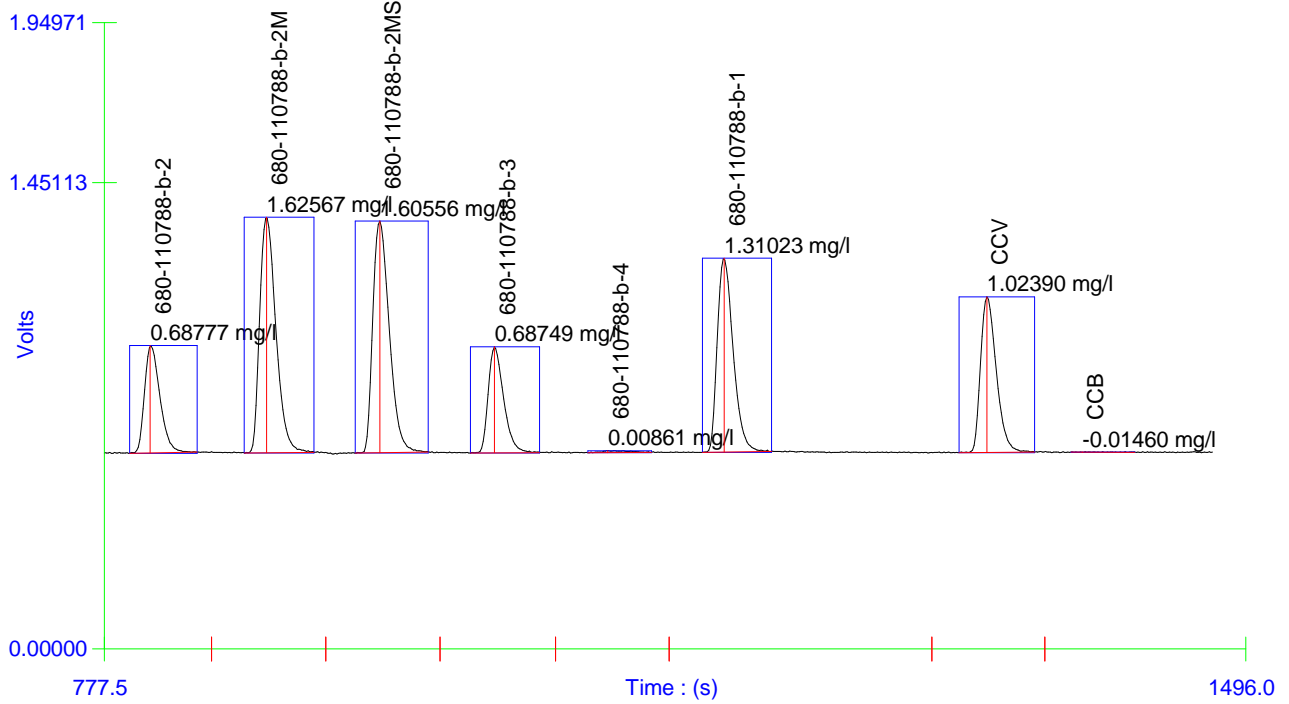
Analyte Properties Table for : OM_3-19-2015_19-20-01.OMN

Property	Channel 1	Channel 2
	NO3+NO2	NO2
Concentration Units	mg/l	mg/l
Calibration Fit Type	First Order	First Order
Clear Calibration	No	No
Force through Zero	No	No
Calibration Weighting	1/x	1/x
Auto Dilution Trigger	Yes	Yes
% of High Standard	100	100
Quik Chem Method	10-107-04-1-C	10-107-04-1-C
Chemistry	Direct/Bipolar	Direct/Bipolar
Calibration by Height	No	No
Inject to Peak Start	16	16
Peak Base Width	50	47

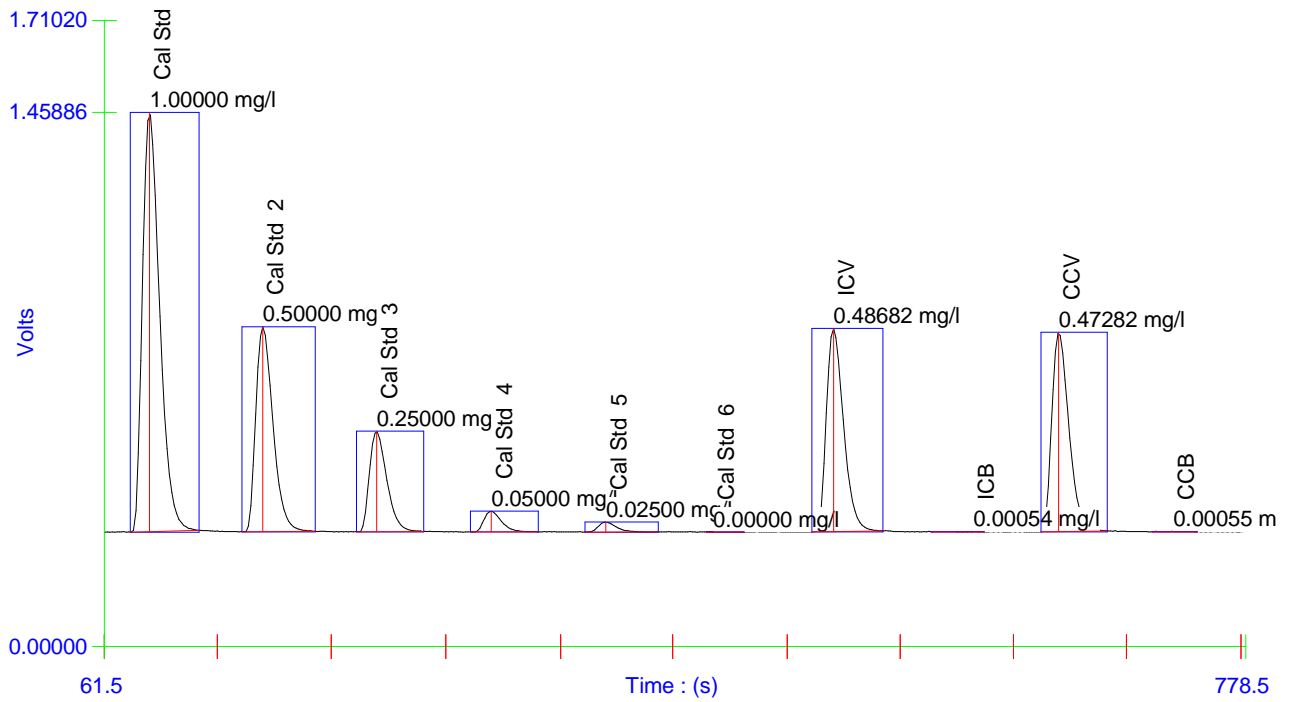
Channel 1 - Set: 1 / 2



Channel 1 - Set: 2 / 2



Channel 2 - Set: 1 / 2



Channel 2 - Set: 2 / 2

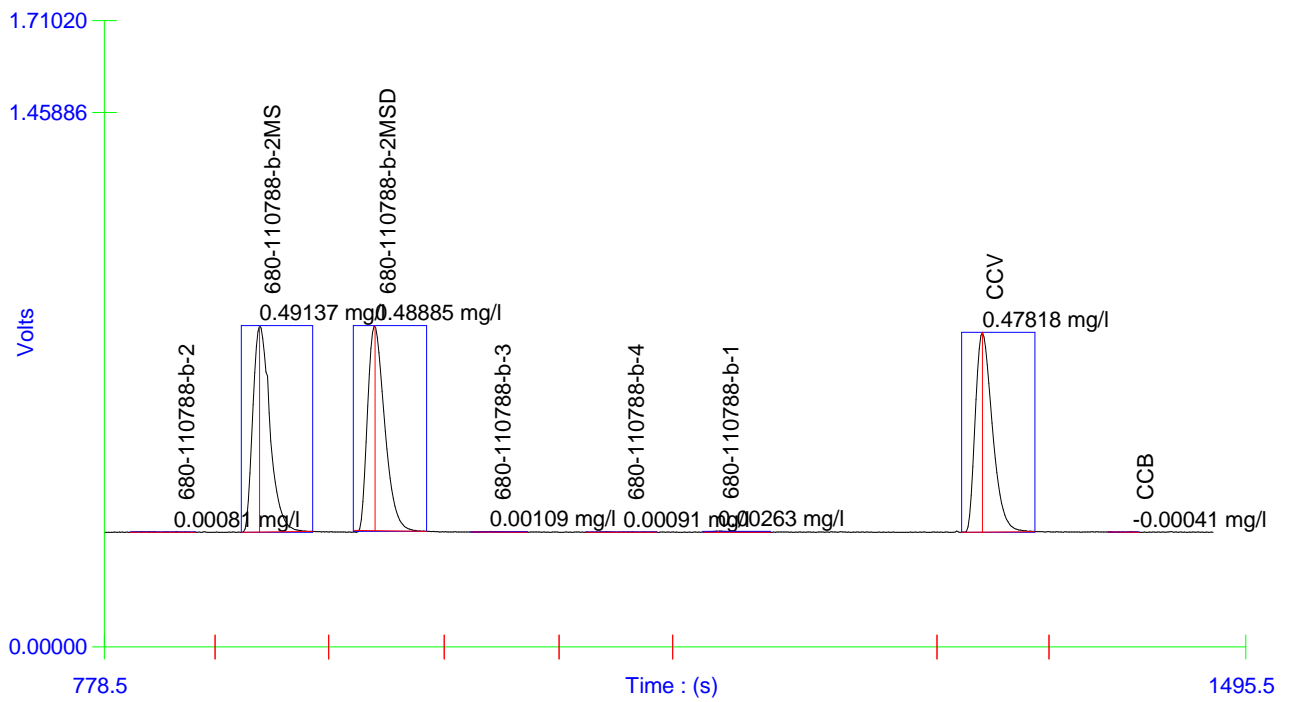


Table : 1 (NO3+NO2)

	Known Conc. (mg/l)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/l)	Detection Date	Detection Time
1	2.00000	1	10.09992	0.84045	0.0	5.0	1.89107	3/19/2015	19:21:04
2	1.00000	1	5.59915	0.48863	0.0	-4.6	1.04277	3/19/2015	19:22:15
3	0.50000	1	2.93630	0.26824	0.0	-8.4	0.54088	3/19/2015	19:23:26
4	0.10000	1	0.63833	0.06029	0.0	-6.9	0.10776	3/19/2015	19:24:38
5	0.05000	1	0.34947	0.03204	0.0	-5.0	0.05331	3/19/2015	19:25:50
6	0.00000	1	0.00988	0.00204			-0.01069	3/19/2015	19:27:01

Figure : 1 (NO3+NO2)

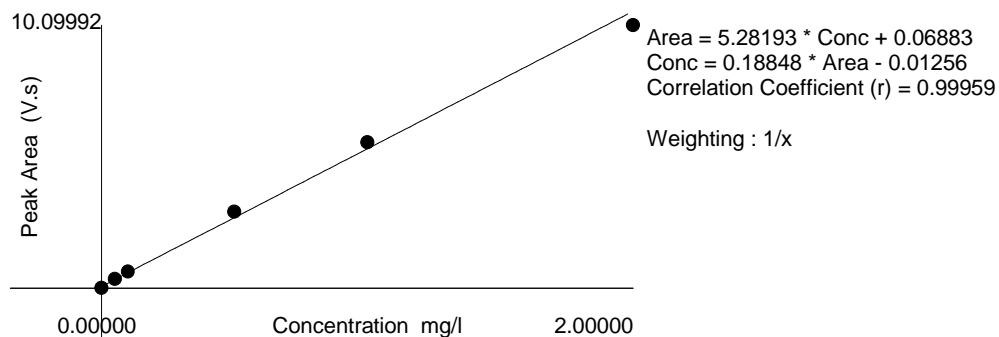
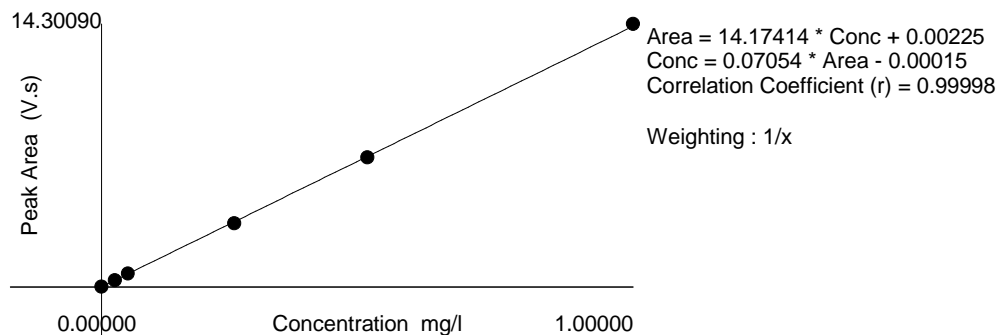


Table : 2 (NO2)

	Known Conc. (mg/l)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/l)	Detection Date	Detection Time
1	1.00000	1	14.30090	1.14500	0.0	-0.9	1.00862	3/19/2015	19:21:06
2	0.50000	1	7.04846	0.55973	0.0	0.6	0.49704	3/19/2015	19:22:17
3	0.25000	1	3.45591	0.27473	0.0	2.5	0.24363	3/19/2015	19:23:29
4	0.05000	1	0.72068	0.05700	0.0	-1.4	0.05069	3/19/2015	19:24:41
5	0.02500	1	0.35309	0.02762	0.0	1.0	0.02476	3/19/2015	19:25:53
6	0.00000	1	0.00881	0.00093			0.00047	3/19/2015	19:27:04

Figure : 2 (NO2)



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Batch Number: 375369 Batch Start Date: 03/19/15 15:38 Batch Analyst: Xiang, George R

Batch Method: 353.2 Batch End Date: 03/19/15 19:42

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NO3+NO2 ICV 00066	NO3/NO2 LCS 00076	NO3/NO2 Std 00002	
ICV 680-375369/7		353.2		2 mL	2 mL	2 mL			
ICB 680-375369/8		353.2		2 mL	2 mL				
CCV 680-375369/11		353.2		2 mL	2 mL		2 mL		
CCB 680-375369/12		353.2		2 mL	2 mL				
MB 680-375369/13		353.2		2 mL	2 mL				
LCS 680-375369/16		353.2		2 mL	2 mL		2 mL		
ICV 680-375369/23		353.2		2 mL	2 mL	2 mL			
ICB 680-375369/24		353.2		2 mL	2 mL				
CCV 680-375369/25		353.2		2 mL	2 mL		2 mL		
CCB 680-375369/26		353.2		2 mL	2 mL				
680-110788-B-2	25LM20114	353.2	T	2 mL	2 mL				
680-110788-B-2 MS	25LM20114MS	353.2	T	25 mL	25 mL			0.25 mL	
680-110788-B-2 MSD	25LM20114MSD	353.2	T	25 mL	25 mL			0.25 mL	
680-110788-B-3	25LM20115	353.2	T	2 mL	2 mL				
680-110788-B-4	25LM00112	353.2	T	2 mL	2 mL				
680-110788-B-1	25LM20113	353.2	T	2 mL	2 mL				
CCV 680-375369/33		353.2		2 mL	2 mL		2 mL		
CCB 680-375369/34		353.2		2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-110788-1

SDG No.: _____

Batch Number: 375369 Batch Start Date: 03/19/15 15:38 Batch Analyst: Xiang, George R

Batch Method: 353.2 Batch End Date: 03/19/15 19:42

Batch Notes	
Buffer Lot #	3964350
Color Reagent Lot #	3964345
First End time	03/19/15 19:42
Pipette ID	ge1
First Start time	03/19/15 15:38

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

353.2

STL JOBLOG #
Possible Hazards: Unknown
Sample Disposal: Lab Disposal

TestAmerica
 5102 LaRoche Avenue
 Savannah, GA 31404
 Ph: 912-354-7858
 Fax:
 Website: www.st-inc.com

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
TestAmerica

PROJECT & CLIENT INFORMATION
 PROJECT NO. 748662-30001
 SEAD-25 Long-Term Monitoring
 LAB PROJECT MANAGER Linda Wolfe
 CLIENT (SITE) PM Cris Grill/Brendan Baranek-Olmstead
 CLIENT NAME Parisons
 CLIENT ADDRESS 100 High Street, 4th Floor, Boston, MA 02110
 Samplers Signature & Initials

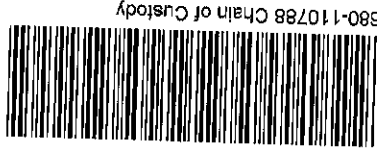
SAMPLED ON DATE	TIME	SAMPLE IDENTIFICATION	LABORATORY SAMPLE ID		SAMPLE TYPE	FIELD FILTERED	MATRIX	REQUIRED ANALYSES				REMARKS	
			353.2 Nitrite and Nitrate (as separate analytes)	300.1 Sulfate and Chloride (as separate analytes)				RSK-175 - MEE	SW 6010C - Iron / Sodium	1	3		8
3/18/2015	1100	25LM20113			N	GW		3	1	1	3	1	
3/18/2015	1215	25LM20114			N	GW		3	1	1	3	1	
3/18/2015	1215	25LM20114MS			N	GW		3	1	1	3	1	
3/18/2015	1215	25LM20114MSD			N	GW		3	1	1	3	1	
3/18/2015	1215	25LM20115			N	GW		3	1	1	3	1	
3/18/2015	1430	25LM00112			N	GW		3	1	1	3	1	
3/18/2015	1430	25LM00027			N	GW		2					

Please use sample (25LM20114) and its associated MS/MSD for QA/QC analyses.

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
<i>[Signature]</i>	3/18/15	1521			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) *[Signature]* **DATE** 03/19/15 **TIME** 0809
LABORATORY SEAL NO. 8
LABORATORY USE ONLY
RECEIVED BY: (SIGNATURE) *[Signature]* **DATE** 03/19/15 **TIME** 0809
REMARKS: 680-110788 1.8cc / 1.5cc



680-110788 Chain of Custody

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 680-110788-1

Login Number: 110788

List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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	
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?	N/A	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-110788-1

Client Project/Site: SEAD-25 Long Term Monitoring

For:

Parsons Corporation

100 High Street

4th Floor

Boston, Massachusetts 02110-1713

Attn: Cris Grill

Linda A. Wolfe

Authorized for release by:

3/31/2015 3:09:18 PM

Linda Wolfe, Project Manager II

(912)354-7858 e.3005

linda.wolfe@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	5
Method Summary	6
Definitions	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	17
QC Sample Results	18
QC Association	32
Chronicle	34
Chain of Custody	36
Receipt Checklists	37
Certification Summary	38

Case Narrative

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Job ID: 680-110788-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Parsons Corporation

Project: SEAD-25 Long Term Monitoring

Report Number: 680-110788-1

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

RECEIPT

The samples were received on 03/19/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.5 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 25LM20113 (680-110788-1), 25LM20114 (680-110788-2), 25LM20115 (680-110788-3), 25LM00112 (680-110788-4) and 25LM00027 (680-110788-5) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/30/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 376701.

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

DISSOLVED GASES

Samples 25LM20113 (680-110788-1), 25LM20114 (680-110788-2), 25LM20115 (680-110788-3) and 25LM00112 (680-110788-4) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 03/24/2015.

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

METALS (ICP)

Samples 25LM20113 (680-110788-1), 25LM20114 (680-110788-2), 25LM20115 (680-110788-3) and 25LM00112 (680-110788-4) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared and analyzed on 03/23/2015.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples 25LM20113 (680-110788-1), 25LM20114 (680-110788-2), 25LM20115 (680-110788-3) and 25LM00112 (680-110788-4) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 03/26/2015 and 03/27/2015.

Samples 25LM20114 (680-110788-2)[2X] and 25LM20115 (680-110788-3)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

NITRATE-NITRITE AS NITROGEN

Case Narrative

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Job ID: 680-110788-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Samples 25LM20113 (680-110788-1), 25LM20114 (680-110788-2), 25LM20115 (680-110788-3) and 25LM00112 (680-110788-4) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 03/19/2015.

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Sample Summary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-110788-1	25LM20113	Water	03/18/15 11:00	03/19/15 08:19
680-110788-2	25LM20114	Water	03/18/15 12:15	03/19/15 08:19
680-110788-3	25LM20115	Water	03/18/15 12:15	03/19/15 08:19
680-110788-4	25LM00112	Water	03/18/15 14:30	03/19/15 08:19
680-110788-5	25LM00027	Water	03/18/15 14:30	03/19/15 08:19

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Method Summary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Definitions/Glossary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.64	J	1.0	0.43	ug/L	1		8260B	Total/NA
Methane	4.2		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	0.74		0.50	0.20	mg/L	1		300.0	Total/NA
Sulfate	24		1.0	0.40	mg/L	1		300.0	Total/NA
Iron	340		100	50	ug/L	1		6010C	Total/NA
Sodium	2500		1000	500	ug/L	1		6010C	Total/NA
Nitrate as N	1.3		0.050	0.010	mg/L	1		353.2	Total/NA

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	1.7		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	1.1		0.50	0.20	mg/L	1		300.0	Total/NA
Sulfate	70		2.0	0.80	mg/L	2		300.0	Total/NA
Sodium	6000		1000	500	ug/L	1		6010C	Total/NA
Nitrate as N	0.69		0.050	0.010	mg/L	1		353.2	Total/NA

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	2.0		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	1.1		0.50	0.20	mg/L	1		300.0	Total/NA
Sulfate	68		2.0	0.80	mg/L	2		300.0	Total/NA
Sodium	5800		1000	500	ug/L	1		6010C	Total/NA
Nitrate as N	0.69		0.050	0.010	mg/L	1		353.2	Total/NA

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	35		10	7.0	ug/L	1		8260B	Total/NA
Methane	0.79		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	0.26	J	0.50	0.20	mg/L	1		300.0	Total/NA

Client Sample ID: 25LM00027

Lab Sample ID: 680-110788-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.5	J	10	7.0	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Date Collected: 03/18/15 11:00

Matrix: Water

Date Received: 03/19/15 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/30/15 19:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/30/15 19:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/30/15 19:54	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/30/15 19:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/15 19:54	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/30/15 19:54	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/30/15 19:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/30/15 19:54	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/30/15 19:54	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/30/15 19:54	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/30/15 19:54	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/30/15 19:54	1
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/30/15 19:54	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/15 19:54	1
2-Butanone	ND		10	3.4	ug/L			03/30/15 19:54	1
2-Hexanone	ND		10	2.0	ug/L			03/30/15 19:54	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/30/15 19:54	1
Acetone	ND		10	7.0	ug/L			03/30/15 19:54	1
Benzene	0.64	J	1.0	0.43	ug/L			03/30/15 19:54	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/30/15 19:54	1
Bromoform	ND		1.0	0.43	ug/L			03/30/15 19:54	1
Bromomethane	ND		5.0	2.5	ug/L			03/30/15 19:54	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/30/15 19:54	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/30/15 19:54	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/30/15 19:54	1
Chloroethane	ND		5.0	2.5	ug/L			03/30/15 19:54	1
Chloroform	ND		1.0	0.50	ug/L			03/30/15 19:54	1
Chloromethane	ND		1.0	0.40	ug/L			03/30/15 19:54	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/30/15 19:54	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/30/15 19:54	1
Cyclohexane	ND		1.0	0.39	ug/L			03/30/15 19:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/15 19:54	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/30/15 19:54	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/30/15 19:54	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/30/15 19:54	1
Methyl acetate	ND		5.0	1.8	ug/L			03/30/15 19:54	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/30/15 19:54	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/30/15 19:54	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/30/15 19:54	1
Styrene	ND		1.0	0.27	ug/L			03/30/15 19:54	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/30/15 19:54	1
Toluene	ND		1.0	0.48	ug/L			03/30/15 19:54	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/30/15 19:54	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/30/15 19:54	1
Trichloroethene	ND		1.0	0.48	ug/L			03/30/15 19:54	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/30/15 19:54	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/30/15 19:54	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/30/15 19:54	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Date Collected: 03/18/15 11:00

Matrix: Water

Date Received: 03/19/15 08:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		03/30/15 19:54	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/30/15 19:54	1
Dibromofluoromethane (Surr)	96		70 - 130		03/30/15 19:54	1
4-Bromofluorobenzene (Surr)	93		70 - 130		03/30/15 19:54	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		1.1	0.55	ug/L			03/24/15 15:06	1
Ethene	ND		1.0	0.50	ug/L			03/24/15 15:06	1
Methane	4.2		0.58	0.29	ug/L			03/24/15 15:06	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.74		0.50	0.20	mg/L			03/26/15 20:05	1
Sulfate	24		1.0	0.40	mg/L			03/26/15 20:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	340		100	50	ug/L		03/23/15 10:46	03/23/15 22:33	1
Sodium	2500		1000	500	ug/L		03/23/15 10:46	03/23/15 22:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.3		0.050	0.010	mg/L			03/19/15 19:39	1
Nitrite as N	ND		0.050	0.010	mg/L			03/19/15 19:39	1

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Collected: 03/18/15 12:15

Matrix: Water

Date Received: 03/19/15 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/30/15 20:17	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/30/15 20:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/30/15 20:17	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/30/15 20:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/15 20:17	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/30/15 20:17	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/30/15 20:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/30/15 20:17	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/30/15 20:17	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/30/15 20:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/30/15 20:17	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/30/15 20:17	1
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/30/15 20:17	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/15 20:17	1
2-Butanone	ND		10	3.4	ug/L			03/30/15 20:17	1
2-Hexanone	ND		10	2.0	ug/L			03/30/15 20:17	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/30/15 20:17	1
Acetone	ND		10	7.0	ug/L			03/30/15 20:17	1
Benzene	ND		1.0	0.43	ug/L			03/30/15 20:17	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Collected: 03/18/15 12:15

Matrix: Water

Date Received: 03/19/15 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.44	ug/L			03/30/15 20:17	1
Bromoform	ND		1.0	0.43	ug/L			03/30/15 20:17	1
Bromomethane	ND		5.0	2.5	ug/L			03/30/15 20:17	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/30/15 20:17	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/30/15 20:17	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/30/15 20:17	1
Chloroethane	ND		5.0	2.5	ug/L			03/30/15 20:17	1
Chloroform	ND		1.0	0.50	ug/L			03/30/15 20:17	1
Chloromethane	ND		1.0	0.40	ug/L			03/30/15 20:17	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/30/15 20:17	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/30/15 20:17	1
Cyclohexane	ND		1.0	0.39	ug/L			03/30/15 20:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/15 20:17	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/30/15 20:17	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/30/15 20:17	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/30/15 20:17	1
Methyl acetate	ND		5.0	1.8	ug/L			03/30/15 20:17	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/30/15 20:17	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/30/15 20:17	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/30/15 20:17	1
Styrene	ND		1.0	0.27	ug/L			03/30/15 20:17	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/30/15 20:17	1
Toluene	ND		1.0	0.48	ug/L			03/30/15 20:17	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/30/15 20:17	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/30/15 20:17	1
Trichloroethene	ND		1.0	0.48	ug/L			03/30/15 20:17	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/30/15 20:17	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/30/15 20:17	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/30/15 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130					03/30/15 20:17	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					03/30/15 20:17	1
Dibromofluoromethane (Surr)	101		70 - 130					03/30/15 20:17	1
4-Bromofluorobenzene (Surr)	93		70 - 130					03/30/15 20:17	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		1.1	0.55	ug/L			03/24/15 15:45	1
Ethene	ND		1.0	0.50	ug/L			03/24/15 15:45	1
Methane	1.7		0.58	0.29	ug/L			03/24/15 15:45	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1		0.50	0.20	mg/L			03/26/15 20:52	1
Sulfate	70		2.0	0.80	mg/L			03/27/15 13:13	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	50	ug/L		03/23/15 10:46	03/23/15 22:05	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Collected: 03/18/15 12:15

Matrix: Water

Date Received: 03/19/15 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	6000		1000	500	ug/L		03/23/15 10:46	03/23/15 22:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.69		0.050	0.010	mg/L			03/19/15 19:33	1
Nitrite as N	ND		0.050	0.010	mg/L			03/19/15 19:33	1

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Collected: 03/18/15 12:15

Matrix: Water

Date Received: 03/19/15 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/30/15 20:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/30/15 20:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/30/15 20:40	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/30/15 20:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/15 20:40	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/30/15 20:40	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/30/15 20:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/30/15 20:40	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/30/15 20:40	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/30/15 20:40	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/30/15 20:40	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/30/15 20:40	1
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/30/15 20:40	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/15 20:40	1
2-Butanone	ND		10	3.4	ug/L			03/30/15 20:40	1
2-Hexanone	ND		10	2.0	ug/L			03/30/15 20:40	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/30/15 20:40	1
Acetone	ND		10	7.0	ug/L			03/30/15 20:40	1
Benzene	ND		1.0	0.43	ug/L			03/30/15 20:40	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/30/15 20:40	1
Bromoform	ND		1.0	0.43	ug/L			03/30/15 20:40	1
Bromomethane	ND		5.0	2.5	ug/L			03/30/15 20:40	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/30/15 20:40	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/30/15 20:40	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/30/15 20:40	1
Chloroethane	ND		5.0	2.5	ug/L			03/30/15 20:40	1
Chloroform	ND		1.0	0.50	ug/L			03/30/15 20:40	1
Chloromethane	ND		1.0	0.40	ug/L			03/30/15 20:40	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/30/15 20:40	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/30/15 20:40	1
Cyclohexane	ND		1.0	0.39	ug/L			03/30/15 20:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/15 20:40	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/30/15 20:40	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/30/15 20:40	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/30/15 20:40	1
Methyl acetate	ND		5.0	1.8	ug/L			03/30/15 20:40	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/30/15 20:40	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Collected: 03/18/15 12:15

Matrix: Water

Date Received: 03/19/15 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND		1.0	0.43	ug/L			03/30/15 20:40	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/30/15 20:40	1
Styrene	ND		1.0	0.27	ug/L			03/30/15 20:40	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/30/15 20:40	1
Toluene	ND		1.0	0.48	ug/L			03/30/15 20:40	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/30/15 20:40	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/30/15 20:40	1
Trichloroethene	ND		1.0	0.48	ug/L			03/30/15 20:40	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/30/15 20:40	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/30/15 20:40	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/30/15 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					03/30/15 20:40	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130					03/30/15 20:40	1
Dibromofluoromethane (Surr)	97		70 - 130					03/30/15 20:40	1
4-Bromofluorobenzene (Surr)	94		70 - 130					03/30/15 20:40	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		1.1	0.55	ug/L			03/24/15 15:19	1
Ethene	ND		1.0	0.50	ug/L			03/24/15 15:19	1
Methane	2.0		0.58	0.29	ug/L			03/24/15 15:19	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1		0.50	0.20	mg/L			03/26/15 21:38	1
Sulfate	68		2.0	0.80	mg/L			03/27/15 13:59	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	50	ug/L		03/23/15 10:46	03/23/15 22:38	1
Sodium	5800		1000	500	ug/L		03/23/15 10:46	03/23/15 22:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.69		0.050	0.010	mg/L			03/19/15 19:36	1
Nitrite as N	ND		0.050	0.010	mg/L			03/19/15 19:36	1

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Date Collected: 03/18/15 14:30

Matrix: Water

Date Received: 03/19/15 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/30/15 21:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/30/15 21:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/30/15 21:02	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/30/15 21:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/15 21:02	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/30/15 21:02	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Date Collected: 03/18/15 14:30

Matrix: Water

Date Received: 03/19/15 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/30/15 21:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/30/15 21:02	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/30/15 21:02	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/30/15 21:02	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/30/15 21:02	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/30/15 21:02	1
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/30/15 21:02	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/15 21:02	1
2-Butanone	ND		10	3.4	ug/L			03/30/15 21:02	1
2-Hexanone	ND		10	2.0	ug/L			03/30/15 21:02	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/30/15 21:02	1
Acetone	35		10	7.0	ug/L			03/30/15 21:02	1
Benzene	ND		1.0	0.43	ug/L			03/30/15 21:02	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/30/15 21:02	1
Bromoform	ND		1.0	0.43	ug/L			03/30/15 21:02	1
Bromomethane	ND		5.0	2.5	ug/L			03/30/15 21:02	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/30/15 21:02	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/30/15 21:02	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/30/15 21:02	1
Chloroethane	ND		5.0	2.5	ug/L			03/30/15 21:02	1
Chloroform	ND		1.0	0.50	ug/L			03/30/15 21:02	1
Chloromethane	ND		1.0	0.40	ug/L			03/30/15 21:02	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/30/15 21:02	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/30/15 21:02	1
Cyclohexane	ND		1.0	0.39	ug/L			03/30/15 21:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/15 21:02	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/30/15 21:02	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/30/15 21:02	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/30/15 21:02	1
Methyl acetate	ND		5.0	1.8	ug/L			03/30/15 21:02	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/30/15 21:02	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/30/15 21:02	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/30/15 21:02	1
Styrene	ND		1.0	0.27	ug/L			03/30/15 21:02	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/30/15 21:02	1
Toluene	ND		1.0	0.48	ug/L			03/30/15 21:02	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/30/15 21:02	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/30/15 21:02	1
Trichloroethene	ND		1.0	0.48	ug/L			03/30/15 21:02	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/30/15 21:02	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/30/15 21:02	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/30/15 21:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					03/30/15 21:02	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					03/30/15 21:02	1
Dibromofluoromethane (Surr)	97		70 - 130					03/30/15 21:02	1
4-Bromofluorobenzene (Surr)	94		70 - 130					03/30/15 21:02	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Date Collected: 03/18/15 14:30

Matrix: Water

Date Received: 03/19/15 08:19

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		1.1	0.55	ug/L			03/24/15 15:32	1
Ethene	ND		1.0	0.50	ug/L			03/24/15 15:32	1
Methane	0.79		0.58	0.29	ug/L			03/24/15 15:32	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.26	J	0.50	0.20	mg/L			03/26/15 21:53	1
Sulfate	ND		1.0	0.40	mg/L			03/26/15 21:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	50	ug/L		03/23/15 10:46	03/23/15 22:43	1
Sodium	ND		1000	500	ug/L		03/23/15 10:46	03/23/15 22:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	0.010	mg/L			03/19/15 19:37	1
Nitrite as N	ND		0.050	0.010	mg/L			03/19/15 19:37	1

Client Sample ID: 25LM00027

Lab Sample ID: 680-110788-5

Date Collected: 03/18/15 14:30

Matrix: Water

Date Received: 03/19/15 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/30/15 17:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/30/15 17:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/30/15 17:16	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/30/15 17:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/15 17:16	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/30/15 17:16	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/30/15 17:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/30/15 17:16	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/30/15 17:16	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/30/15 17:16	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/30/15 17:16	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/30/15 17:16	1
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/30/15 17:16	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/15 17:16	1
2-Butanone	ND		10	3.4	ug/L			03/30/15 17:16	1
2-Hexanone	ND		10	2.0	ug/L			03/30/15 17:16	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/30/15 17:16	1
Acetone	9.5	J	10	7.0	ug/L			03/30/15 17:16	1
Benzene	ND		1.0	0.43	ug/L			03/30/15 17:16	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/30/15 17:16	1
Bromoform	ND		1.0	0.43	ug/L			03/30/15 17:16	1
Bromomethane	ND		5.0	2.5	ug/L			03/30/15 17:16	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/30/15 17:16	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/30/15 17:16	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/30/15 17:16	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM00027

Lab Sample ID: 680-110788-5

Date Collected: 03/18/15 14:30

Matrix: Water

Date Received: 03/19/15 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		5.0	2.5	ug/L			03/30/15 17:16	1
Chloroform	ND		1.0	0.50	ug/L			03/30/15 17:16	1
Chloromethane	ND		1.0	0.40	ug/L			03/30/15 17:16	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/30/15 17:16	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/30/15 17:16	1
Cyclohexane	ND		1.0	0.39	ug/L			03/30/15 17:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/15 17:16	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/30/15 17:16	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/30/15 17:16	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/30/15 17:16	1
Methyl acetate	ND		5.0	1.8	ug/L			03/30/15 17:16	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/30/15 17:16	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/30/15 17:16	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/30/15 17:16	1
Styrene	ND		1.0	0.27	ug/L			03/30/15 17:16	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/30/15 17:16	1
Toluene	ND		1.0	0.48	ug/L			03/30/15 17:16	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/30/15 17:16	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/30/15 17:16	1
Trichloroethene	ND		1.0	0.48	ug/L			03/30/15 17:16	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/30/15 17:16	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/30/15 17:16	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/30/15 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130		03/30/15 17:16	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/30/15 17:16	1
Dibromofluoromethane (Surr)	100		70 - 130		03/30/15 17:16	1
4-Bromofluorobenzene (Surr)	95		70 - 130		03/30/15 17:16	1

Surrogate Summary

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (70-130)	12DCE (70-130)	DBFM (70-130)	BFB (70-130)
680-110788-1	25LM20113	101	94	96	93
680-110788-2	25LM20114	102	95	101	93
680-110788-2MS	25LM20114MS	99	93	97	97
680-110788-2MSD	25LM20114MSD	100	96	99	96
680-110788-3	25LM20115	100	96	97	94
680-110788-4	25LM00112	101	95	97	94
680-110788-5	25LM00027	106	94	100	95
LCS 680-376701/4	Lab Control Sample	95	98	101	93
LCS 680-376775/3	Lab Control Sample	88	84	88	85
LCSD 680-376701/5	Lab Control Sample Dup	92	97	96	93
LCSD 680-376775/4	Lab Control Sample Dup	88	83	87	85
MB 680-376701/9	Method Blank	100	98	99	92
MB 680-376775/7	Method Blank	100	93	97	94

Surrogate Legend

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

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Lab Sample ID: MB 680-376701/9

Matrix: Water

Analysis Batch: 376701

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/30/15 15:04	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/30/15 15:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/30/15 15:04	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/30/15 15:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/15 15:04	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/30/15 15:04	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/30/15 15:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/30/15 15:04	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/30/15 15:04	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/30/15 15:04	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/30/15 15:04	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/30/15 15:04	1
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/30/15 15:04	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/15 15:04	1
2-Butanone	ND		10	3.4	ug/L			03/30/15 15:04	1
2-Hexanone	ND		10	2.0	ug/L			03/30/15 15:04	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/30/15 15:04	1
Acetone	ND		10	7.0	ug/L			03/30/15 15:04	1
Benzene	ND		1.0	0.43	ug/L			03/30/15 15:04	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/30/15 15:04	1
Bromoform	ND		1.0	0.43	ug/L			03/30/15 15:04	1
Bromomethane	ND		5.0	2.5	ug/L			03/30/15 15:04	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/30/15 15:04	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/30/15 15:04	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/30/15 15:04	1
Chloroethane	ND		5.0	2.5	ug/L			03/30/15 15:04	1
Chloroform	ND		1.0	0.50	ug/L			03/30/15 15:04	1
Chloromethane	ND		1.0	0.40	ug/L			03/30/15 15:04	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/30/15 15:04	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/30/15 15:04	1
Cyclohexane	ND		1.0	0.39	ug/L			03/30/15 15:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/15 15:04	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/30/15 15:04	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/30/15 15:04	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/30/15 15:04	1
Methyl acetate	ND		5.0	1.8	ug/L			03/30/15 15:04	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/30/15 15:04	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/30/15 15:04	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/30/15 15:04	1
Styrene	ND		1.0	0.27	ug/L			03/30/15 15:04	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/30/15 15:04	1
Toluene	ND		1.0	0.48	ug/L			03/30/15 15:04	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/30/15 15:04	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/30/15 15:04	1
Trichloroethene	ND		1.0	0.48	ug/L			03/30/15 15:04	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/30/15 15:04	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/30/15 15:04	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/30/15 15:04	1

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Lab Sample ID: MB 680-376701/9

Matrix: Water

Analysis Batch: 376701

Client Sample ID: Method Blank

Prep Type: Total/NA

<i>Surrogate</i>	<i>MB</i> <i>%Recovery</i>	<i>MB</i> <i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	100		70 - 130		03/30/15 15:04	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		70 - 130		03/30/15 15:04	1
<i>Dibromofluoromethane (Surr)</i>	99		70 - 130		03/30/15 15:04	1
<i>4-Bromofluorobenzene (Surr)</i>	92		70 - 130		03/30/15 15:04	1

Lab Sample ID: LCS 680-376701/4

Matrix: Water

Analysis Batch: 376701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCS</i> <i>Result</i>	<i>LCS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	74 - 128
1,1,1,2-Tetrachloroethane	50.0	53.0		ug/L		106	72 - 128
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.8		ug/L		106	65 - 131
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	79 - 125
1,1-Dichloroethane	50.0	47.4		ug/L		95	80 - 120
1,1-Dichloroethene	50.0	48.7		ug/L		97	74 - 125
1,2,4-Trichlorobenzene	50.0	49.9		ug/L		100	77 - 131
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	59 - 141
1,2-Dibromoethane	50.0	51.5		ug/L		103	77 - 131
1,2-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	49.9		ug/L		100	75 - 130
1,2-Dichloropropane	50.0	51.7		ug/L		103	80 - 123
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120
2-Butanone	250	262		ug/L		105	75 - 133
2-Hexanone	250	224		ug/L		90	70 - 141
4-Methyl-2-pentanone	250	242		ug/L		97	75 - 135
Acetone	250	241		ug/L		96	60 - 154
Benzene	50.0	50.8		ug/L		102	73 - 131
Bromodichloromethane	50.0	51.7		ug/L		103	77 - 129
Bromoform	50.0	53.8		ug/L		108	69 - 135
Bromomethane	50.0	58.2		ug/L		116	20 - 180
Carbon disulfide	50.0	54.5		ug/L		109	73 - 127
Carbon tetrachloride	50.0	51.0		ug/L		102	75 - 130
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120
Chloroethane	50.0	48.7		ug/L		97	50 - 151
Chloroform	50.0	49.0		ug/L		98	79 - 122
Chloromethane	50.0	52.3		ug/L		105	63 - 126
cis-1,2-Dichloroethene	50.0	51.7		ug/L		103	80 - 122
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	80 - 133
Cyclohexane	50.0	51.9		ug/L		104	69 - 130
Dibromochloromethane	50.0	52.0		ug/L		104	71 - 136
Dichlorodifluoromethane	50.0	50.1		ug/L		100	51 - 140
Ethylbenzene	50.0	51.1		ug/L		102	80 - 120
Isopropylbenzene	50.0	50.8		ug/L		102	80 - 120
Methyl acetate	250	244		ug/L		98	66 - 134
Methyl tert-butyl ether	50.0	51.5		ug/L		103	74 - 135

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Lab Sample ID: LCS 680-376701/4

Matrix: Water

Analysis Batch: 376701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	50.0	51.0		ug/L		102	75 - 127
Methylene Chloride	50.0	47.9		ug/L		96	76 - 129
Styrene	50.0	51.0		ug/L		102	80 - 122
Tetrachloroethene	50.0	50.2		ug/L		100	77 - 123
Toluene	50.0	47.3		ug/L		95	80 - 122
trans-1,2-Dichloroethene	50.0	50.0		ug/L		100	78 - 123
trans-1,3-Dichloropropene	50.0	51.2		ug/L		102	74 - 140
Trichloroethene	50.0	49.3		ug/L		99	80 - 123
Trichlorofluoromethane	50.0	50.2		ug/L		100	58 - 145
Vinyl chloride	50.0	46.0		ug/L		92	68 - 132
Xylenes, Total	100	99.0		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 680-376701/5

Matrix: Water

Analysis Batch: 376701

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	50.3		ug/L		101	74 - 128	0	20
1,1,1,2-Tetrachloroethane	50.0	53.0		ug/L		106	72 - 128	0	20
1,1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.7		ug/L		105	65 - 131	0	30
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	79 - 125	2	20
1,1-Dichloroethane	50.0	46.6		ug/L		93	80 - 120	2	20
1,1-Dichloroethene	50.0	48.2		ug/L		96	74 - 125	1	20
1,2,4-Trichlorobenzene	50.0	50.2		ug/L		100	77 - 131	0	20
1,2-Dibromo-3-Chloropropane	50.0	49.3		ug/L		99	59 - 141	2	30
1,2-Dibromoethane	50.0	49.7		ug/L		99	77 - 131	4	30
1,2-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120	1	20
1,2-Dichloroethane	50.0	48.3		ug/L		97	75 - 130	3	20
1,2-Dichloropropane	50.0	50.4		ug/L		101	80 - 123	3	20
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	80 - 120	2	20
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120	0	20
2-Butanone	250	261		ug/L		104	75 - 133	1	30
2-Hexanone	250	217		ug/L		87	70 - 141	3	40
4-Methyl-2-pentanone	250	235		ug/L		94	75 - 135	3	30
Acetone	250	232		ug/L		93	60 - 154	4	40
Benzene	50.0	49.8		ug/L		100	73 - 131	2	30
Bromodichloromethane	50.0	50.7		ug/L		101	77 - 129	2	20
Bromoform	50.0	54.3		ug/L		109	69 - 135	1	20
Bromomethane	50.0	56.1		ug/L		112	20 - 180	4	40
Carbon disulfide	50.0	53.6		ug/L		107	73 - 127	2	20
Carbon tetrachloride	50.0	50.4		ug/L		101	75 - 130	1	20

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Lab Sample ID: LCSD 680-376701/5

Matrix: Water

Analysis Batch: 376701

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chlorobenzene	50.0	50.7		ug/L		101	80 - 120	1	20	
Chloroethane	50.0	45.1		ug/L		90	50 - 151	8	30	
Chloroform	50.0	48.0		ug/L		96	79 - 122	2	20	
Chloromethane	50.0	50.5		ug/L		101	63 - 126	3	30	
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 122	2	20	
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	80 - 133	2	20	
Cyclohexane	50.0	51.9		ug/L		104	69 - 130	0	30	
Dibromochloromethane	50.0	50.6		ug/L		101	71 - 136	3	20	
Dichlorodifluoromethane	50.0	50.1		ug/L		100	51 - 140	0	40	
Ethylbenzene	50.0	51.2		ug/L		102	80 - 120	0	20	
Isopropylbenzene	50.0	51.2		ug/L		102	80 - 120	1	20	
Methyl acetate	250	237		ug/L		95	66 - 134	3	30	
Methyl tert-butyl ether	50.0	50.4		ug/L		101	74 - 135	2	20	
Methylcyclohexane	50.0	50.6		ug/L		101	75 - 127	1	30	
Methylene Chloride	50.0	46.6		ug/L		93	76 - 129	3	20	
Styrene	50.0	50.9		ug/L		102	80 - 122	0	20	
Tetrachloroethene	50.0	49.5		ug/L		99	77 - 123	1	20	
Toluene	50.0	46.5		ug/L		93	80 - 122	2	20	
trans-1,2-Dichloroethene	50.0	49.5		ug/L		99	78 - 123	1	20	
trans-1,3-Dichloropropene	50.0	49.8		ug/L		100	74 - 140	3	20	
Trichloroethene	50.0	48.4		ug/L		97	80 - 123	2	20	
Trichlorofluoromethane	50.0	49.4		ug/L		99	58 - 145	2	30	
Vinyl chloride	50.0	45.3		ug/L		91	68 - 132	1	30	
Xylenes, Total	100	100		ug/L		100	80 - 120	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 680-376775/7

Matrix: Water

Analysis Batch: 376775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.37	ug/L			03/30/15 20:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.62	ug/L			03/30/15 20:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.36	ug/L			03/30/15 20:03	1
1,1,2-Trichloroethane	ND		1.0	0.33	ug/L			03/30/15 20:03	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/15 20:03	1
1,1-Dichloroethene	ND		1.0	0.36	ug/L			03/30/15 20:03	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ug/L			03/30/15 20:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.1	ug/L			03/30/15 20:03	1
1,2-Dibromoethane	ND		1.0	0.44	ug/L			03/30/15 20:03	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			03/30/15 20:03	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			03/30/15 20:03	1
1,2-Dichloropropane	ND		1.0	0.67	ug/L			03/30/15 20:03	1

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Lab Sample ID: MB 680-376775/7

Matrix: Water

Analysis Batch: 376775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3-Dichlorobenzene	ND		1.0	0.43	ug/L			03/30/15 20:03	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/15 20:03	1
2-Butanone	ND		10	3.4	ug/L			03/30/15 20:03	1
2-Hexanone	ND		10	2.0	ug/L			03/30/15 20:03	1
4-Methyl-2-pentanone	ND		10	2.1	ug/L			03/30/15 20:03	1
Acetone	ND		10	7.0	ug/L			03/30/15 20:03	1
Benzene	ND		1.0	0.43	ug/L			03/30/15 20:03	1
Bromodichloromethane	ND		1.0	0.44	ug/L			03/30/15 20:03	1
Bromoform	ND		1.0	0.43	ug/L			03/30/15 20:03	1
Bromomethane	ND		5.0	2.5	ug/L			03/30/15 20:03	1
Carbon disulfide	ND		2.0	1.0	ug/L			03/30/15 20:03	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			03/30/15 20:03	1
Chlorobenzene	ND		1.0	0.26	ug/L			03/30/15 20:03	1
Chloroethane	ND		5.0	2.5	ug/L			03/30/15 20:03	1
Chloroform	ND		1.0	0.50	ug/L			03/30/15 20:03	1
Chloromethane	ND		1.0	0.40	ug/L			03/30/15 20:03	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/L			03/30/15 20:03	1
cis-1,3-Dichloropropene	ND		1.0	0.40	ug/L			03/30/15 20:03	1
Cyclohexane	ND		1.0	0.39	ug/L			03/30/15 20:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/15 20:03	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			03/30/15 20:03	1
Ethylbenzene	ND		1.0	0.33	ug/L			03/30/15 20:03	1
Isopropylbenzene	ND		1.0	0.35	ug/L			03/30/15 20:03	1
Methyl acetate	ND		5.0	1.8	ug/L			03/30/15 20:03	1
Methyl tert-butyl ether	ND		10	0.30	ug/L			03/30/15 20:03	1
Methylcyclohexane	ND		1.0	0.43	ug/L			03/30/15 20:03	1
Methylene Chloride	ND		5.0	2.5	ug/L			03/30/15 20:03	1
Styrene	ND		1.0	0.27	ug/L			03/30/15 20:03	1
Tetrachloroethene	ND		1.0	0.74	ug/L			03/30/15 20:03	1
Toluene	ND		1.0	0.48	ug/L			03/30/15 20:03	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			03/30/15 20:03	1
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/30/15 20:03	1
Trichloroethene	ND		1.0	0.48	ug/L			03/30/15 20:03	1
Trichlorofluoromethane	ND		1.0	0.42	ug/L			03/30/15 20:03	1
Vinyl chloride	ND		1.0	0.50	ug/L			03/30/15 20:03	1
Xylenes, Total	ND		1.0	0.23	ug/L			03/30/15 20:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	100		70 - 130		03/30/15 20:03	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		03/30/15 20:03	1
Dibromofluoromethane (Surr)	97		70 - 130		03/30/15 20:03	1
4-Bromofluorobenzene (Surr)	94		70 - 130		03/30/15 20:03	1

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Lab Sample ID: LCS 680-376775/3

Matrix: Water

Analysis Batch: 376775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	45.2		ug/L		90	74 - 128
1,1,2,2-Tetrachloroethane	50.0	44.7		ug/L		89	72 - 128
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.2		ug/L		90	65 - 131
1,1,2-Trichloroethane	50.0	43.2		ug/L		86	79 - 125
1,1-Dichloroethane	50.0	43.4		ug/L		87	80 - 120
1,1-Dichloroethene	50.0	42.7		ug/L		85	74 - 125
1,2,4-Trichlorobenzene	50.0	44.6		ug/L		89	77 - 131
1,2-Dibromo-3-Chloropropane	50.0	48.3		ug/L		97	59 - 141
1,2-Dibromoethane	50.0	43.5		ug/L		87	77 - 131
1,2-Dichlorobenzene	50.0	44.2		ug/L		88	80 - 120
1,2-Dichloroethane	50.0	42.6		ug/L		85	75 - 130
1,2-Dichloropropane	50.0	43.7		ug/L		87	80 - 123
1,3-Dichlorobenzene	50.0	44.2		ug/L		88	80 - 120
1,4-Dichlorobenzene	50.0	43.0		ug/L		86	80 - 120
2-Butanone	250	219		ug/L		88	75 - 133
2-Hexanone	250	222		ug/L		89	70 - 141
4-Methyl-2-pentanone	250	221		ug/L		89	75 - 135
Acetone	250	219		ug/L		88	60 - 154
Benzene	50.0	43.1		ug/L		86	73 - 131
Bromodichloromethane	50.0	45.3		ug/L		91	77 - 129
Bromoform	50.0	47.2		ug/L		94	69 - 135
Bromomethane	50.0	44.5		ug/L		89	20 - 180
Carbon disulfide	50.0	41.4		ug/L		83	73 - 127
Carbon tetrachloride	50.0	45.8		ug/L		92	75 - 130
Chlorobenzene	50.0	43.9		ug/L		88	80 - 120
Chloroethane	50.0	44.7		ug/L		89	50 - 151
Chloroform	50.0	44.5		ug/L		89	79 - 122
Chloromethane	50.0	40.4		ug/L		81	63 - 126
cis-1,2-Dichloroethene	50.0	43.1		ug/L		86	80 - 122
cis-1,3-Dichloropropene	50.0	45.6		ug/L		91	80 - 133
Cyclohexane	50.0	43.9		ug/L		88	69 - 130
Dibromochloromethane	50.0	45.0		ug/L		90	71 - 136
Dichlorodifluoromethane	50.0	42.6		ug/L		85	51 - 140
Ethylbenzene	50.0	44.5		ug/L		89	80 - 120
Isopropylbenzene	50.0	45.4		ug/L		91	80 - 120
Methyl acetate	250	215		ug/L		86	66 - 134
Methyl tert-butyl ether	50.0	43.5		ug/L		87	74 - 135
Methylcyclohexane	50.0	45.0		ug/L		90	75 - 127
Methylene Chloride	50.0	43.5		ug/L		87	76 - 129
Styrene	50.0	45.4		ug/L		91	80 - 122
Tetrachloroethene	50.0	43.8		ug/L		88	77 - 123
Toluene	50.0	44.3		ug/L		89	80 - 122
trans-1,2-Dichloroethene	50.0	43.5		ug/L		87	78 - 123
trans-1,3-Dichloropropene	50.0	45.4		ug/L		91	74 - 140
Trichloroethene	50.0	42.8		ug/L		86	80 - 123
Trichlorofluoromethane	50.0	47.6		ug/L		95	58 - 145
Vinyl chloride	50.0	44.1		ug/L		88	68 - 132

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Lab Sample ID: LCS 680-376775/3

Matrix: Water

Analysis Batch: 376775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	100	90.8		ug/L		91	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	88		70 - 130
1,2-Dichloroethane-d4 (Surr)	84		70 - 130
Dibromofluoromethane (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 680-376775/4

Matrix: Water

Analysis Batch: 376775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	45.3		ug/L		91	74 - 128	0	20
1,1,2,2-Tetrachloroethane	50.0	44.4		ug/L		89	72 - 128	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.4		ug/L		91	65 - 131	0	30
1,1,2-Trichloroethane	50.0	43.5		ug/L		87	79 - 125	1	20
1,1-Dichloroethane	50.0	43.2		ug/L		86	80 - 120	0	20
1,1-Dichloroethene	50.0	42.4		ug/L		85	74 - 125	1	20
1,2,4-Trichlorobenzene	50.0	44.9		ug/L		90	77 - 131	1	20
1,2-Dibromo-3-Chloropropane	50.0	47.6		ug/L		95	59 - 141	2	30
1,2-Dibromoethane	50.0	43.9		ug/L		88	77 - 131	1	30
1,2-Dichlorobenzene	50.0	44.3		ug/L		89	80 - 120	0	20
1,2-Dichloroethane	50.0	42.8		ug/L		86	75 - 130	0	20
1,2-Dichloropropane	50.0	43.6		ug/L		87	80 - 123	0	20
1,3-Dichlorobenzene	50.0	44.5		ug/L		89	80 - 120	1	20
1,4-Dichlorobenzene	50.0	43.9		ug/L		88	80 - 120	2	20
2-Butanone	250	222		ug/L		89	75 - 133	1	30
2-Hexanone	250	222		ug/L		89	70 - 141	0	40
4-Methyl-2-pentanone	250	220		ug/L		88	75 - 135	1	30
Acetone	250	228		ug/L		91	60 - 154	4	40
Benzene	50.0	43.3		ug/L		87	73 - 131	0	30
Bromodichloromethane	50.0	45.7		ug/L		91	77 - 129	1	20
Bromoform	50.0	47.0		ug/L		94	69 - 135	0	20
Bromomethane	50.0	43.5		ug/L		87	20 - 180	2	40
Carbon disulfide	50.0	42.5		ug/L		85	73 - 127	3	20
Carbon tetrachloride	50.0	45.6		ug/L		91	75 - 130	0	20
Chlorobenzene	50.0	43.7		ug/L		87	80 - 120	0	20
Chloroethane	50.0	44.5		ug/L		89	50 - 151	0	30
Chloroform	50.0	43.9		ug/L		88	79 - 122	1	20
Chloromethane	50.0	39.9		ug/L		80	63 - 126	1	30
cis-1,2-Dichloroethene	50.0	42.5		ug/L		85	80 - 122	1	20
cis-1,3-Dichloropropene	50.0	45.2		ug/L		90	80 - 133	1	20
Cyclohexane	50.0	43.6		ug/L		87	69 - 130	1	30
Dibromochloromethane	50.0	45.5		ug/L		91	71 - 136	1	20
Dichlorodifluoromethane	50.0	42.7		ug/L		85	51 - 140	0	40
Ethylbenzene	50.0	44.7		ug/L		89	80 - 120	0	20

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Lab Sample ID: LCSD 680-376775/4

Matrix: Water

Analysis Batch: 376775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	50.0	45.1		ug/L		90	80 - 120	1	20
Methyl acetate	250	214		ug/L		86	66 - 134	0	30
Methyl tert-butyl ether	50.0	43.5		ug/L		87	74 - 135	0	20
Methylcyclohexane	50.0	44.6		ug/L		89	75 - 127	1	30
Methylene Chloride	50.0	43.3		ug/L		87	76 - 129	0	20
Styrene	50.0	45.1		ug/L		90	80 - 122	1	20
Tetrachloroethene	50.0	43.7		ug/L		87	77 - 123	0	20
Toluene	50.0	43.9		ug/L		88	80 - 122	1	20
trans-1,2-Dichloroethene	50.0	43.5		ug/L		87	78 - 123	0	20
trans-1,3-Dichloropropene	50.0	44.9		ug/L		90	74 - 140	1	20
Trichloroethene	50.0	42.8		ug/L		86	80 - 123	0	20
Trichlorofluoromethane	50.0	47.8		ug/L		96	58 - 145	1	30
Vinyl chloride	50.0	44.0		ug/L		88	68 - 132	0	30
Xylenes, Total	100	89.9		ug/L		90	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	88		70 - 130
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
Dibromofluoromethane (Surr)	87		70 - 130
4-Bromofluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 680-110788-2MS

Matrix: Water

Analysis Batch: 376775

Client Sample ID: 25LM20114MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		50.0	53.1		ug/L		106	74 - 128
1,1,1,2,2-Tetrachloroethane	ND		50.0	48.1		ug/L		96	72 - 128
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	53.2		ug/L		106	65 - 131
1,1,2-Trichloroethane	ND		50.0	47.1		ug/L		94	79 - 125
1,1-Dichloroethane	ND		50.0	49.6		ug/L		99	80 - 120
1,1-Dichloroethene	ND		50.0	50.9		ug/L		102	74 - 125
1,2,4-Trichlorobenzene	ND		50.0	47.0		ug/L		94	77 - 131
1,2-Dibromo-3-Chloropropane	ND		50.0	50.1		ug/L		100	59 - 141
1,2-Dibromoethane	ND		50.0	47.1		ug/L		94	77 - 131
1,2-Dichlorobenzene	ND		50.0	49.7		ug/L		99	80 - 120
1,2-Dichloroethane	ND		50.0	48.1		ug/L		96	75 - 130
1,2-Dichloropropane	ND		50.0	49.5		ug/L		99	80 - 123
1,3-Dichlorobenzene	ND		50.0	49.9		ug/L		100	80 - 120
1,4-Dichlorobenzene	ND		50.0	49.4		ug/L		99	80 - 120
2-Butanone	ND		250	231		ug/L		92	75 - 133
2-Hexanone	ND		250	234		ug/L		94	70 - 141
4-Methyl-2-pentanone	ND		250	239		ug/L		96	75 - 135
Acetone	ND		250	239		ug/L		96	60 - 154
Benzene	ND		50.0	49.4		ug/L		99	73 - 131
Bromodichloromethane	ND		50.0	51.0		ug/L		102	77 - 129
Bromoform	ND		50.0	51.2		ug/L		102	69 - 135

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Lab Sample ID: 680-110788-2MS

Matrix: Water

Analysis Batch: 376775

Client Sample ID: 25LM20114MS

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Bromomethane	ND		50.0	49.5		ug/L		99	20 - 180
Carbon disulfide	ND		50.0	51.2		ug/L		102	73 - 127
Carbon tetrachloride	ND		50.0	53.8		ug/L		108	75 - 130
Chlorobenzene	ND		50.0	49.7		ug/L		99	80 - 120
Chloroethane	ND		50.0	53.9		ug/L		108	50 - 151
Chloroform	ND		50.0	50.4		ug/L		101	79 - 122
Chloromethane	ND		50.0	50.2		ug/L		100	63 - 126
cis-1,2-Dichloroethene	ND		50.0	48.7		ug/L		97	80 - 122
cis-1,3-Dichloropropene	ND		50.0	48.9		ug/L		98	80 - 133
Cyclohexane	ND		50.0	51.6		ug/L		103	69 - 130
Dibromochloromethane	ND		50.0	50.4		ug/L		101	71 - 136
Dichlorodifluoromethane	ND		50.0	58.6		ug/L		117	51 - 140
Ethylbenzene	ND		50.0	50.9		ug/L		102	80 - 120
Isopropylbenzene	ND		50.0	51.3		ug/L		103	80 - 120
Methyl acetate	ND		250	219		ug/L		88	66 - 134
Methyl tert-butyl ether	ND		50.0	47.5		ug/L		95	74 - 135
Methylcyclohexane	ND		50.0	51.3		ug/L		103	75 - 127
Methylene Chloride	ND		50.0	49.3		ug/L		99	76 - 129
Styrene	ND		50.0	50.4		ug/L		101	80 - 122
Tetrachloroethene	ND		50.0	50.0		ug/L		100	77 - 123
Toluene	ND		50.0	50.2		ug/L		100	80 - 122
trans-1,2-Dichloroethene	ND		50.0	49.2		ug/L		98	78 - 123
trans-1,3-Dichloropropene	ND		50.0	47.7		ug/L		95	74 - 140
Trichloroethene	ND		50.0	48.8		ug/L		98	80 - 123
Trichlorofluoromethane	ND		50.0	59.6		ug/L		119	58 - 145
Vinyl chloride	ND		50.0	55.1		ug/L		110	68 - 132
Xylenes, Total	ND		100	102		ug/L		102	80 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 680-110788-2MSD

Matrix: Water

Analysis Batch: 376775

Client Sample ID: 25LM20114MSD

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1-Trichloroethane	ND		50.0	54.0		ug/L		108	74 - 128	2	20
1,1,2,2-Tetrachloroethane	ND		50.0	49.7		ug/L		99	72 - 128	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	52.6		ug/L		105	65 - 131	1	30
1,1,2-Trichloroethane	ND		50.0	49.6		ug/L		99	79 - 125	5	20
1,1-Dichloroethane	ND		50.0	50.3		ug/L		101	80 - 120	1	20
1,1-Dichloroethene	ND		50.0	51.1		ug/L		102	74 - 125	0	20
1,2,4-Trichlorobenzene	ND		50.0	48.0		ug/L		96	77 - 131	2	20
1,2-Dibromo-3-Chloropropane	ND		50.0	51.2		ug/L		102	59 - 141	2	30

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

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

Lab Sample ID: 680-110788-2MSD

Client Sample ID: 25LM20114MSD

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 376775

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,2-Dibromoethane	ND		50.0	49.5		ug/L		99	77 - 131	5	30
1,2-Dichlorobenzene	ND		50.0	49.9		ug/L		100	80 - 120	0	20
1,2-Dichloroethane	ND		50.0	50.1		ug/L		100	75 - 130	4	20
1,2-Dichloropropane	ND		50.0	50.2		ug/L		100	80 - 123	2	20
1,3-Dichlorobenzene	ND		50.0	49.9		ug/L		100	80 - 120	0	20
1,4-Dichlorobenzene	ND		50.0	48.7		ug/L		97	80 - 120	2	20
2-Butanone	ND		250	243		ug/L		97	75 - 133	5	30
2-Hexanone	ND		250	245		ug/L		98	70 - 141	4	40
4-Methyl-2-pentanone	ND		250	248		ug/L		99	75 - 135	3	30
Acetone	ND		250	239		ug/L		96	60 - 154	0	40
Benzene	ND		50.0	50.5		ug/L		101	73 - 131	2	30
Bromodichloromethane	ND		50.0	52.5		ug/L		105	77 - 129	3	20
Bromoform	ND		50.0	53.4		ug/L		107	69 - 135	4	20
Bromomethane	ND		50.0	55.7		ug/L		111	20 - 180	12	40
Carbon disulfide	ND		50.0	51.2		ug/L		102	73 - 127	0	20
Carbon tetrachloride	ND		50.0	54.6		ug/L		109	75 - 130	1	20
Chlorobenzene	ND		50.0	50.1		ug/L		100	80 - 120	1	20
Chloroethane	ND		50.0	53.8		ug/L		108	50 - 151	0	30
Chloroform	ND		50.0	51.1		ug/L		102	79 - 122	1	20
Chloromethane	ND		50.0	51.0		ug/L		102	63 - 126	2	30
cis-1,2-Dichloroethene	ND		50.0	48.6		ug/L		97	80 - 122	0	20
cis-1,3-Dichloropropene	ND		50.0	50.6		ug/L		101	80 - 133	3	20
Cyclohexane	ND		50.0	51.8		ug/L		104	69 - 130	0	30
Dibromochloromethane	ND		50.0	51.9		ug/L		104	71 - 136	3	20
Dichlorodifluoromethane	ND		50.0	58.4		ug/L		117	51 - 140	0	40
Ethylbenzene	ND		50.0	51.2		ug/L		102	80 - 120	1	20
Isopropylbenzene	ND		50.0	51.6		ug/L		103	80 - 120	1	20
Methyl acetate	ND		250	229		ug/L		91	66 - 134	4	30
Methyl tert-butyl ether	ND		50.0	49.3		ug/L		99	74 - 135	4	20
Methylcyclohexane	ND		50.0	51.8		ug/L		104	75 - 127	1	30
Methylene Chloride	ND		50.0	50.8		ug/L		102	76 - 129	3	20
Styrene	ND		50.0	51.1		ug/L		102	80 - 122	2	20
Tetrachloroethene	ND		50.0	50.5		ug/L		101	77 - 123	1	20
Toluene	ND		50.0	51.2		ug/L		102	80 - 122	2	20
trans-1,2-Dichloroethene	ND		50.0	50.6		ug/L		101	78 - 123	3	20
trans-1,3-Dichloropropene	ND		50.0	49.4		ug/L		99	74 - 140	3	20
Trichloroethene	ND		50.0	49.4		ug/L		99	80 - 123	1	20
Trichlorofluoromethane	ND		50.0	60.0		ug/L		120	58 - 145	1	30
Vinyl chloride	ND		50.0	55.3		ug/L		111	68 - 132	1	30
Xylenes, Total	ND		100	103		ug/L		103	80 - 120	0	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-375719/7

Matrix: Water

Analysis Batch: 375719

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		1.1	0.55	ug/L			03/24/15 12:49	1
Ethene	ND		1.0	0.50	ug/L			03/24/15 12:49	1
Methane	ND		0.58	0.29	ug/L			03/24/15 12:49	1

Lab Sample ID: LCS 680-375719/5

Matrix: Water

Analysis Batch: 375719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	315		ug/L		109	75 - 125
Ethene	269	300		ug/L		111	75 - 125
Methane	154	174		ug/L		113	75 - 125

Lab Sample ID: LCSD 680-375719/6

Matrix: Water

Analysis Batch: 375719

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	332		ug/L		115	75 - 125	5	30
Ethene	269	313		ug/L		116	75 - 125	4	30
Methane	154	181		ug/L		118	75 - 125	4	30

Lab Sample ID: 680-110788-2MS

Matrix: Water

Analysis Batch: 375719

Client Sample ID: 25LM20114MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	ND		288	220		ug/L		76	75 - 125
Ethene	ND		269	208		ug/L		77	75 - 125
Methane	1.7		154	152		ug/L		97	75 - 125

Lab Sample ID: 680-110788-2MSD

Matrix: Water

Analysis Batch: 375719

Client Sample ID: 25LM20114MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	ND		288	224		ug/L		78	75 - 125	2	30
Ethene	ND		269	214		ug/L		79	75 - 125	3	30
Methane	1.7		154	154		ug/L		99	75 - 125	2	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-376322/2

Matrix: Water

Analysis Batch: 376322

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.20	mg/L			03/26/15 14:11	1
Sulfate	ND		1.0	0.40	mg/L			03/26/15 14:11	1

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-376322/3

Matrix: Water

Analysis Batch: 376322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 680-376322/4

Matrix: Water

Analysis Batch: 376322

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	30
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	30

Lab Sample ID: 680-110788-2MS

Matrix: Water

Analysis Batch: 376322

Client Sample ID: 25LM20114MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.1		10.0	11.3		mg/L		102	80 - 120

Lab Sample ID: 680-110788-2MSD

Matrix: Water

Analysis Batch: 376322

Client Sample ID: 25LM20114MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.1		10.0	11.4		mg/L		103	80 - 120	1	30

Lab Sample ID: MB 680-376449/2

Matrix: Water

Analysis Batch: 376449

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.40	mg/L			03/27/15 11:25	1

Lab Sample ID: LCS 680-376449/3

Matrix: Water

Analysis Batch: 376449

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.6		mg/L		106	90 - 110

Lab Sample ID: LCSD 680-376449/4

Matrix: Water

Analysis Batch: 376449

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.6		mg/L		106	90 - 110	0	30

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-110788-2MS

Matrix: Water

Analysis Batch: 376449

Client Sample ID: 25LM20114MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	70		20.0	89.5		mg/L		97	80 - 120

Lab Sample ID: 680-110788-2MSD

Matrix: Water

Analysis Batch: 376449

Client Sample ID: 25LM20114MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	70		20.0	89.2		mg/L		96	80 - 120	0	30

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-375688/1-A

Matrix: Water

Analysis Batch: 375799

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 375688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	50	ug/L		03/23/15 10:46	03/23/15 21:22	1
Sodium	ND		1000	500	ug/L		03/23/15 10:46	03/23/15 21:22	1

Lab Sample ID: LCS 680-375688/2-A

Matrix: Water

Analysis Batch: 375799

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 375688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5000	4990		ug/L		100	80 - 120
Sodium	5000	4910		ug/L		98	80 - 120

Lab Sample ID: 680-110788-2MS

Matrix: Water

Analysis Batch: 375799

Client Sample ID: 25LM20114MS

Prep Type: Total/NA

Prep Batch: 375688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	ND		5000	4880		ug/L		98	75 - 125
Sodium	6000		5000	10700		ug/L		94	75 - 125

Lab Sample ID: 680-110788-2MSD

Matrix: Water

Analysis Batch: 375799

Client Sample ID: 25LM20114MSD

Prep Type: Total/NA

Prep Batch: 375688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	ND		5000	5300		ug/L		106	75 - 125	8	20
Sodium	6000		5000	10800		ug/L		96	75 - 125	1	20

TestAmerica Savannah

QC Sample Results

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-375369/13

Matrix: Water

Analysis Batch: 375369

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	0.010	mg/L			03/19/15 15:53	1
Nitrite as N	ND		0.050	0.010	mg/L			03/19/15 15:53	1

Lab Sample ID: LCS 680-375369/16

Matrix: Water

Analysis Batch: 375369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.500	0.578		mg/L		116	75 - 125
Nitrite as N	0.500	0.502		mg/L		100	90 - 110

Lab Sample ID: 680-110788-2MS

Matrix: Water

Analysis Batch: 375369

Client Sample ID: 25LM20114MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.69		0.500	1.13		mg/L		89	75 - 125
Nitrite as N	ND		0.500	0.491		mg/L		98	90 - 110

Lab Sample ID: 680-110788-2MSD

Matrix: Water

Analysis Batch: 375369

Client Sample ID: 25LM20114MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Nitrate as N	0.69		0.500	1.12		mg/L		86	75 - 125	2	30
Nitrite as N	ND		0.500	0.489		mg/L		98	90 - 110	1	10

QC Association Summary

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

GC/MS VOA

Analysis Batch: 376701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110788-1	25LM20113	Total/NA	Water	8260B	
680-110788-2	25LM20114	Total/NA	Water	8260B	
680-110788-3	25LM20115	Total/NA	Water	8260B	
680-110788-4	25LM00112	Total/NA	Water	8260B	
680-110788-5	25LM00027	Total/NA	Water	8260B	
LCS 680-376701/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-376701/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-376701/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 376775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110788-2MS	25LM20114MS	Total/NA	Water	8260B	
680-110788-2MSD	25LM20114MSD	Total/NA	Water	8260B	
LCS 680-376775/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-376775/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-376775/7	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 375719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110788-1	25LM20113	Total/NA	Water	RSK-175	
680-110788-2	25LM20114	Total/NA	Water	RSK-175	
680-110788-2MS	25LM20114MS	Total/NA	Water	RSK-175	
680-110788-2MSD	25LM20114MSD	Total/NA	Water	RSK-175	
680-110788-3	25LM20115	Total/NA	Water	RSK-175	
680-110788-4	25LM00112	Total/NA	Water	RSK-175	
LCS 680-375719/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-375719/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 680-375719/7	Method Blank	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 376322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110788-1	25LM20113	Total/NA	Water	300.0	
680-110788-2	25LM20114	Total/NA	Water	300.0	
680-110788-2MS	25LM20114MS	Total/NA	Water	300.0	
680-110788-2MSD	25LM20114MSD	Total/NA	Water	300.0	
680-110788-3	25LM20115	Total/NA	Water	300.0	
680-110788-4	25LM00112	Total/NA	Water	300.0	
LCS 680-376322/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-376322/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-376322/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 376449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110788-2	25LM20114	Total/NA	Water	300.0	
680-110788-2MS	25LM20114MS	Total/NA	Water	300.0	
680-110788-2MSD	25LM20114MSD	Total/NA	Water	300.0	

TestAmerica Savannah

QC Association Summary

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

HPLC/IC (Continued)

Analysis Batch: 376449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110788-3	25LM20115	Total/NA	Water	300.0	
LCS 680-376449/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-376449/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-376449/2	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 375688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110788-1	25LM20113	Total/NA	Water	3010A	
680-110788-2	25LM20114	Total/NA	Water	3010A	
680-110788-2MS	25LM20114MS	Total/NA	Water	3010A	
680-110788-2MSD	25LM20114MSD	Total/NA	Water	3010A	
680-110788-3	25LM20115	Total/NA	Water	3010A	
680-110788-4	25LM00112	Total/NA	Water	3010A	
LCS 680-375688/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-375688/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 375799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110788-1	25LM20113	Total/NA	Water	6010C	375688
680-110788-2	25LM20114	Total/NA	Water	6010C	375688
680-110788-2MS	25LM20114MS	Total/NA	Water	6010C	375688
680-110788-2MSD	25LM20114MSD	Total/NA	Water	6010C	375688
680-110788-3	25LM20115	Total/NA	Water	6010C	375688
680-110788-4	25LM00112	Total/NA	Water	6010C	375688
LCS 680-375688/2-A	Lab Control Sample	Total/NA	Water	6010C	375688
MB 680-375688/1-A	Method Blank	Total/NA	Water	6010C	375688

General Chemistry

Analysis Batch: 375369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-110788-1	25LM20113	Total/NA	Water	353.2	
680-110788-2	25LM20114	Total/NA	Water	353.2	
680-110788-2MS	25LM20114MS	Total/NA	Water	353.2	
680-110788-2MSD	25LM20114MSD	Total/NA	Water	353.2	
680-110788-3	25LM20115	Total/NA	Water	353.2	
680-110788-4	25LM00112	Total/NA	Water	353.2	
LCS 680-375369/16	Lab Control Sample	Total/NA	Water	353.2	
MB 680-375369/13	Method Blank	Total/NA	Water	353.2	

Lab Chronicle

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM20113

Lab Sample ID: 680-110788-1

Date Collected: 03/18/15 11:00

Matrix: Water

Date Received: 03/19/15 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	376701	03/30/15 19:54	JD1	TAL SAV
		Instrument ID: CMSAC								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	375719	03/24/15 15:06	AJMC	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	300.0		1	5 mL	5 mL	376322	03/26/15 20:05	AJO	TAL SAV
		Instrument ID: CICH								
Total/NA	Prep	3010A			50 mL	50 mL	375688	03/23/15 10:46	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	375799	03/23/15 22:33	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	353.2		1	2 mL	2 mL	375369	03/19/15 19:39	GRX	TAL SAV
		Instrument ID: LACHAT2								

Client Sample ID: 25LM20114

Lab Sample ID: 680-110788-2

Date Collected: 03/18/15 12:15

Matrix: Water

Date Received: 03/19/15 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	376701	03/30/15 20:17	JD1	TAL SAV
		Instrument ID: CMSAC								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	375719	03/24/15 15:45	AJMC	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	300.0		1	5 mL	5 mL	376322	03/26/15 20:52	AJO	TAL SAV
		Instrument ID: CICH								
Total/NA	Analysis	300.0		2	5 mL	5 mL	376449	03/27/15 13:13	AJO	TAL SAV
		Instrument ID: CICH								
Total/NA	Prep	3010A			50 mL	50 mL	375688	03/23/15 10:46	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	375799	03/23/15 22:05	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	353.2		1	2 mL	2 mL	375369	03/19/15 19:33	GRX	TAL SAV
		Instrument ID: LACHAT2								

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Collected: 03/18/15 12:15

Matrix: Water

Date Received: 03/19/15 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	376701	03/30/15 20:40	JD1	TAL SAV
		Instrument ID: CMSAC								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	375719	03/24/15 15:19	AJMC	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	300.0		1	5 mL	5 mL	376322	03/26/15 21:38	AJO	TAL SAV
		Instrument ID: CICH								

TestAmerica Savannah

Lab Chronicle

Client: Parsons Corporation
 Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Client Sample ID: 25LM20115

Lab Sample ID: 680-110788-3

Date Collected: 03/18/15 12:15

Matrix: Water

Date Received: 03/19/15 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	5 mL	5 mL	376449	03/27/15 13:59	AJO	TAL SAV
Instrument ID: CICH										
Total/NA	Prep	3010A			50 mL	50 mL	375688	03/23/15 10:46	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	375799	03/23/15 22:38	BCB	TAL SAV
Instrument ID: ICPE										
Total/NA	Analysis	353.2		1	2 mL	2 mL	375369	03/19/15 19:36	GRX	TAL SAV
Instrument ID: LACHAT2										

Client Sample ID: 25LM00112

Lab Sample ID: 680-110788-4

Date Collected: 03/18/15 14:30

Matrix: Water

Date Received: 03/19/15 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	376701	03/30/15 21:02	JD1	TAL SAV
Instrument ID: CMSAC										
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	375719	03/24/15 15:32	AJMC	TAL SAV
Instrument ID: CVGU										
Total/NA	Analysis	300.0		1	5 mL	5 mL	376322	03/26/15 21:53	AJO	TAL SAV
Instrument ID: CICH										
Total/NA	Prep	3010A			50 mL	50 mL	375688	03/23/15 10:46	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	375799	03/23/15 22:43	BCB	TAL SAV
Instrument ID: ICPE										
Total/NA	Analysis	353.2		1	2 mL	2 mL	375369	03/19/15 19:37	GRX	TAL SAV
Instrument ID: LACHAT2										

Client Sample ID: 25LM00027

Lab Sample ID: 680-110788-5

Date Collected: 03/18/15 14:30

Matrix: Water

Date Received: 03/19/15 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	376701	03/30/15 17:16	JD1	TAL SAV
Instrument ID: CMSAC										

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

PROJECT & CLIENT INFORMATION PROJECT REFERENCE NAME: SEAD-25 Long-Term Monitoring LAB PROJECT MANAGER: Linda Wolfe CLIENT (SITE) PM: Chris Grill/Brendan Baranek-Olmstead CLIENT NAME: Parsons CLIENT ADDRESS: 100 High Street, 4th Floor, Boston, MA 02110 Samplers Signature & Initials:		Project State: NY CONTRACT/Quote NO: 748662-30001 P.O. NUMBER: 748662-30001 CLIENT PHONE: 617-285-6821 (BBO cell) CLIENT FAX: 617-946-9777 CLIENT EMAIL: Brendan.Baranek-Olmstead@parsons.com		TestAmerica 5102 LaRoche Avenue Savannah, GA 31404 Ph: 912-354-7858 Fax: Website: www.stl-inc.com		Possible Hazards: Unknown Sample Disposal: Lab Disposal Final Report Type: ASP2000 Category B EDD 30 calendar days TAT/ DATE DUE 30 calendar days EXPEDITED REPORT (circle one) EMAIL or FAX TAT/ DATE DUE NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1	
LABORATORY SAMPLE ID SAMPLE TYPE FIELD FILTERED MATRIX				REQUIRED ANALYSES 353.2 Nitrate and Nitrite (as separate analytes) 300.1 Sulfate and Chloride (as separate analytes) RSK-175 - MEE SW6010C - Iron / Sodium SW 8260B - VOC			
SAMPLED ON DATE TIME		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED		REMARKS	
3/18/2015 1100		25LM20113		3 1 1 3 1		1. Please run a straight sample analysis (without dilution) for every sample. 2. Please select sample VOA for analyst with the no (or least amount) of solids. 3. Please use project samples for all QC analysis for MEE, nitrate, nitrite, sulfate, chloride, iron, and sodium analyses. 4. Notify Client PM immediately if there are any problems/issues with the analysis 5. Use 25LM20114 as QA/QC sample for all analyses.	
3/18/2015 1215		25LM20114		3 1 1 3 1			
3/18/2015 1215		25LM20114MS		3 1 1 3 1			
3/18/2015 1215		25LM20114MSD		3 1 1 3 1			
3/18/2015 1215		25LM20115		3 1 1 3 1			
3/18/2015 1430		25LM00112		3 1 1 3 1			
3/18/2015 1430		25LM00027		2		Preservative 1 HCL 2 HNO3 3 H2SO4 8 Ice	
Please use sample (25LM20114) and its associated MS/MSD for QA/QC analyses.				RELINQUISHED BY: (SIGNATURE) DATE: 3/18/15 TIME: 1521 RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE) DATE: TIME RECEIVED BY: (SIGNATURE)	
RECEIVED FOR LABORATORY BY: [Signature] DATE: 3/19/15 TIME: 0800 CUSTODY INTACT: YES				LABORATORY SEAL NO. 680-110788 REMARKS: 1.8ccf 1.5cc		LABORATORY USE ONLY RECEIVED BY: (SIGNATURE) DATE: TIME	



860-110788 Chain of Custody



Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 680-110788-1

Login Number: 110788

List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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	
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?	N/A	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Parsons Corporation
Project/Site: SEAD-25 Long Term Monitoring

TestAmerica Job ID: 680-110788-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10842	03-31-16

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

APPENDIX C

HISTORIC GROUNDWATER ELEVATIONS (EVENTS 1 THROUGH 12)

Appendix C
Historic Groundwater Elevations (Events 1 through 12)
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft) ³	Well Depth (ft)	Event 1 - January 2006				Event 1 - April 2006				Event 2 - August 2006			
					Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	1/20/06	2.10	5.67	737.33	4/12/06	1.97	5.80	737.20	8/9/06	2.12	5.65	737.35
MW25-2	746.36	11.31	746.36	11.31	1/20/06		NA		4/12/06	6.06	5.25	741.11	8/9/06	6.51	4.8	741.56
MW25-3	745.76	9.00	746.34	9.58	1/20/06	4.50	4.50	741.26	4/12/06	3.35	5.65	740.11	8/9/06	3.55	5.45	740.31
MW25-6	744.44	14.27	744.44	14.27	1/20/06	10.02	4.25	740.19	4/12/06	8.77	5.50	738.94	8/9/06	8.57	5.7	738.74
MW25-8	742.46	5.47	742.46	5.47	1/20/06	3.67	1.80	740.66	4/12/06	2.67	2.80	739.66	8/9/06	2.27	3.2	739.26
MW25-9	742.36	5.42	742.36	5.42	1/20/06	3.64	1.78	740.58	4/12/06	2.57	2.85	739.51	8/9/06	1.62	3.8	738.56
MW25-10	743.01	6.20	743.01	6.20	1/20/06	3.02	3.18	739.83	4/12/06	1.95	4.25	738.76	8/9/06	1.60	4.6	738.41
MW25-11	740.25	7.00	740.25	7.00	1/20/06	3.70	3.30	736.95	4/12/06	2.55	4.45	735.80	8/9/06	1.95	5.05	735.20
MW25-13	739.64	5.53	739.64	5.53	1/20/06	2.09	3.44	736.20	4/12/06	1.63	3.90	735.74	8/9/06	0.98	4.55	735.09
MW25-15	741.00	7.20	741.00	7.20	1/20/06	4.09	3.11	737.89	4/12/06	3.15	4.05	736.95	8/9/06	2.60	4.6	736.40
MW25-17	743.94	11.27	743.94	11.27	1/20/06	8.02	3.25	740.69	4/12/06	7.07	4.20	739.74	8/9/06	6.92	4.35	739.59
MW25-18	744.35	11.22	744.35	11.22	1/20/06	6.33	4.89	739.46	4/12/06				8/9/06	5.52	5.7	738.65
MW25-19	741.95	12.00	741.95	12.00	1/20/06	8.35	3.65	738.30	4/12/06				8/9/06	6.25	5.75	736.20

Notes:

1. Bedrock wells are not included as part of the LTM program and are not included in this table.
2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels after 8/27/2008 were adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 12)
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft) ³	Well Depth (ft)	Event 3 - June 2007				Event 4 - February 2008				Event 5 - April 2009			
					Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	6/4/07	1.27	6.50	736.50	2/26/08	1.88	5.89	737.11	4/27/09	1.68	6.09	736.91
MW25-2	746.36	11.31	746.36	11.31	6/4/07	3.49	7.82	738.54	2/26/08	6.56	4.75	741.61	4/27/09	5.20	6.11	740.25
MW25-3	745.76	9.00	746.34	9.58	6/4/07	0.82	8.18	737.58	2/26/08	4.41	4.59	741.17	4/27/09	3.39	6.19	740.15
MW25-6	744.44	14.27	744.44	14.27	6/4/07	5.72	8.55	735.89	2/26/08	9.73	4.54	739.90	4/27/09	7.84	6.43	738.01
MW25-8	742.46	5.47	742.46	5.47	6/4/07	0.47	5.00	737.46	2/26/08	3.15	2.32	740.14	4/27/09	1.73	3.74	738.72
MW25-9	742.36	5.42	742.36	5.42	6/4/07	0.41	5.01	737.35	2/26/08	3.17	2.25	740.11	4/27/09	1.23	4.19	738.17
MW25-10	743.01	6.20	743.01	6.20	6/4/07		dry		2/26/08	2.46	3.74	739.27	4/27/09	0.29	5.91	737.10
MW25-11	740.25	7.00	740.25	7.00	6/4/07	0.15	6.85	733.40	2/26/08	2.91	4.09	736.16	4/27/09	1.42	5.58	734.67
MW25-13	739.64	5.53	739.64	5.53	6/4/07	0.48	5.05	734.59	2/26/08	1.71	3.82	735.82	4/27/09	0.49	5.04	734.60
MW25-15	741.00	7.20	741.00	7.20	6/4/07		dry		2/26/08	3.77	3.43	737.57	4/27/09	1.75	5.45	735.55
MW25-17	743.94	11.27	743.94	11.27	6/4/07	3.82	7.45	736.49	2/26/08	7.99	3.28	740.66	4/27/09	6.19	5.08	738.86
MW25-18	744.35	11.22	744.35	11.22	6/4/07	4.00	7.22	737.13	2/26/08	11.07	0.15	744.20	4/27/09	5.22	6.00	738.35
MW25-19	741.95	12.00	741.95	12.00	6/4/07	2.97	9.03	732.92	2/26/08	8.00	4.00	737.95	4/27/09	6.50	5.50	736.45

Notes:

1. Bedrock wells are not included as part of the LTM program and are not included in this table.
2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels after 8/27/2008 were adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 12)
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft) ³	Well Depth (ft)	Event 6 - January 2010				Event 7 - August 2010				Event 8 - February 2011			
					Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	1/11/10	1.79	5.98	737.02	8/2/10	1.18	6.59	736.41	2/7/11	1.79	5.98	737.02
MW25-2	746.36	11.31	746.36	11.31	1/11/10	5.94	5.37	740.99	8/2/10	4.92	6.39	739.97	2/7/11	4.50	6.81	739.55
MW25-3	745.76	9.00	746.34	9.58	1/11/10	4.44	5.14	741.20	8/2/10	2.00	7.58	738.76	2/7/11	2.70	6.88	739.46
MW25-6	744.44	14.27	744.44	14.27	1/11/10	7.84	6.43	738.01	8/2/10	5.76	8.51	735.93	2/7/11	6.36	7.91	736.53
MW25-8	742.46	5.47	742.46	5.47	1/11/10	2.62	2.85	739.61	8/2/10	0.40	5.07	737.39	2/7/11	0.31	5.16	737.30
MW25-9	742.36	5.42	742.36	5.42	1/11/10	2.92	2.50	739.86	8/2/10	0.44	4.98	737.38	2/7/11	0.83	4.59	737.77
MW25-10	743.01	6.20	743.01	6.20	1/11/10	1.94	4.26	738.75	8/2/10	0.16	6.04	736.97	2/7/11	0.11	6.09	736.92
MW25-11	740.25	7.00	740.25	7.00	1/11/10	1.39	5.61	734.64	8/2/10	0.33	6.67	733.58	(removed during Well Abandonment Fall 2010)			
MW25-13	739.64	5.53	739.64	5.53	1/11/10	0.62	4.91	734.73	8/2/10	0.47	5.06	734.58	2/7/11	0.43	5.10	734.54
MW25-15	741.00	7.20	741.00	7.20	1/11/10	3.02	4.18	736.82	8/2/10	0.30	6.90	734.10	2/7/11	0.63	6.57	734.43
MW25-17	743.94	11.27	743.94	11.27	1/11/10	6.25	5.02	738.92	8/2/10	3.93	7.34	736.60	2/7/11	4.60	6.67	737.27
MW25-18	744.35	11.22	744.35	11.22	1/11/10	5.31	5.91	738.44	8/2/10	4.10	7.12	737.23	2/7/11	4.64	6.58	737.77
MW25-19	741.95	12.00	741.95	12.00	1/11/10	5.79	6.21	735.74	8/2/10	3.21	8.79	733.16	2/7/11	3.89	8.11	733.84

Notes:

1. Bedrock wells are not included as part of the LTM program and are not included in this table.
2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels after 8/27/2008 were adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 12)
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft) ³	Well Depth (ft)	Event 9 - February 2012				Event 10 - May 2013				Event 11 - June 2014			
					Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW25-1	743.00	7.77	743.00	7.77	2/27/12	1.80	7.73	737.07	5/6/13	1.48	6.23	736.77	6/17/14	1.16	6.57	736.43
MW25-2	746.36	11.31	746.36	11.31	2/27/12	6.20	11.26	741.30	5/6/13	5.28	5.97	740.39	6/17/14	4.35	6.91	739.45
MW25-3	745.76	9.00	746.34	9.58	2/27/12	4.86	9.79	741.41	5/6/13	3.64	6.16	740.18	6/17/14	2.01	7.79	738.55
MW25-6	744.44	14.27	744.44	14.27	2/27/12	8.64	14.23	738.85	5/6/13	7.81	6.45	737.99	6/17/14	6.37	7.93	736.51
MW25-8	742.46	5.47	742.46	5.47	2/27/12	2.52	5.41	739.57	5/6/13	1.60	3.83	738.63	6/17/14	0.38	5.04	737.42
MW25-9	742.36	5.42	742.36	5.42	2/27/12	2.59	5.39	739.56	5/6/13	1.48	3.91	738.45	6/17/14	0.45	4.95	737.41
MW25-10	743.01	6.20	743.01	6.20	2/27/12	1.37	6.36	738.02	5/6/13	0.58	5.80	737.21	6/17/14	0.26	6.13	736.88
MW25-11	740.25	7.00	740.25	7.00												
MW25-13	739.64	5.53	739.64	5.53	2/27/12	1.33	4.13	735.51	5/6/13	0.30	5.18	734.46	6/17/14	0.33	5.15	734.49
MW25-15	741.00	7.20	741.00	7.20	2/27/12	2.56	7.19	736.37	5/6/13	1.53	5.65	735.35	6/17/14	0.23	6.97	734.03
MW25-17	743.94	11.27	743.94	11.27	2/27/12	7.14	11.23	739.85	5/6/13	6.36	4.89	739.05	6/17/14	4.48	6.78	737.16
MW25-18	744.35	11.22	744.35	11.22	2/27/12	5.74	11.15	738.94	5/6/13	5.23	5.97	738.38	6/17/14	4.28	6.90	737.45
MW25-19	741.95	12.00	741.95	12.00	2/27/12	6.70	11.98	736.67	5/6/13	6.13	5.87	736.08	6/17/14	3.54	8.46	733.49

Notes:

1. Bedrock wells are not included as part of the LTM program and are not included in this table.
2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels after 8/27/2008 were adjusted to reflect the change in well total depth.

Appendix C
Historic Groundwater Elevations (Events 1 through 12)
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Monitoring Well	Top of Risor Elevation (ft)	Well Depth (ft)	4/29/09 Revised Top of Risor Elevation (ft) ³	Well Depth (ft)	Event 12 - March 16, 2015				Historical Data ¹		
					Measured Well Depth (ft) ⁴	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Groundwater Elevation (ft)		
									Maximum	Minimum	Range
MW25-1	743.00	7.77	743.00	7.77	7.71	2.88	4.83	738.17	738.17	736.41	1.76
MW25-2	746.36	11.31	746.36	11.31	11.25	7.37	3.88	742.48	742.48	738.54	3.94
MW25-3	745.76	9.00	746.34	9.58	9.80	6.71	3.09	743.25	743.25	737.58	5.67
MW25-6	744.44	14.27	744.44	14.27	14.27	11.34	2.93	741.51	741.51	735.89	5.62
MW25-8	742.46	5.47	742.46	5.47	5.44	3.93	1.51	740.95	740.95	737.30	3.65
MW25-9	742.36	5.42	742.36	5.42	5.40	4.07	1.33	741.03	741.03	737.35	3.68
MW25-10	743.01	6.20	743.01	6.20	6.38	5.00	1.38	741.63	741.63	736.88	4.75
MW25-11	740.25	7.00	740.25	7.00					736.95	733.40	3.55
MW25-13	739.64	5.53	739.64	5.53	7.20	4.54	2.66	736.98	736.98	734.46	2.52
MW25-15	741.00	7.20	741.00	7.20	11.24	9.27	1.97	739.03	739.03	734.03	5.00
MW25-17	743.94	11.27	743.94	11.27	12.01	10.29	1.72	742.22	742.22	736.49	5.73
MW25-18	744.35	11.22	744.35	11.22	11.16	7.84	3.32	741.03	744.20	737.13	7.07
MW25-19	741.95	12.00	741.95	12.00	12.01	7.87	4.14	737.81	738.30	732.92	5.38

Notes:

1. Bedrock wells are not included as part of the LTM program and are not included in this table.
2. Well MW25-3 total depth increased from 9 feet on 8/27/2008 to 9.58 feet on 4/29/2009. Groundwater levels after 8/27/2008 were adjusted to reflect the change in well total depth.

GROUNDWATER ELEVATION REPORT									
PARSONS					CLIENT:			DATE: 12/20/16	
PROJECT: SEAD-25 LTA							PROJECT NO:		
LOCATION: SEDA							INSPECTOR: EBO		
MONITORING EQUIPMENT:					WATER LEVEL INDICATOR:			COMMENTS: Snowy, wetty dusty, of sacc on ground Temp 33°F	
INSTRUMENT	DETECTOR	BGD	TIME	REMARKS	INSTRUMENT	CORRECTION FACTOR			
WELL	TIME	DEPTH TO WATER	DEPTH TO PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC GRAV	WELL STATUS / COMMENTS <small>(Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of riser, concrete, protective casing, etc.)</small>	
MW25-1	934	5.99							
25-13	938	4.18'							
25-15	939	4.45'							
25-19	940	5.39							
25-6	941	6.09'							
25-18	942	5.67							
25-17	945	4.69							south of MW25-6, west of MW25-18
25-8	946	2.75							west of MW25-3, PVC lofted?
25-9	948	3.03							
25-10	949	4.81							no well cap
25-3	950	5.11							
25-2	951	5.09							

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

GROUNDWATER ELEVATION REPORT									
PARSONS			CLIENT:				DATE: 2/7/2011		
PROJECT: SEAD-25 LTM Round 8						PROJECT NO:			
LOCATION: Seneca Army Depot						INSPECTOR: BBO/SD			
MONITORING EQUIPMENT:					WATER LEVEL INDICATOR:			COMMENTS:	
INSTRUMENT	DETECTOR	BGD	TIME	REMARKS	INSTRUMENT	CORRECTION FACTOR			
					Pa # 14043			~8 inches of snow over whole site	
WELL	TIME	WELL WATER	DEPTH TO WELL PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC GRAV	WELL STATUS / COMMENTS <small>(Leak?, Well IP, Surface Disturbance?, Riser marked?, Condition of riser, concrete, protective casing, etc.)</small>	
25-1	1539	5.98	7.74						
25-13	1542	5.10	5.48						
25-15	1544	6.57	7.20						
25-9	1546	4.57	5.40						
25-19	1549	8.11	12.0						
25-8	1552	5.16	5.46						
25-6	1554	7.91	14.22						
25-17	1556	6.67	11.30'						
25-10	1558	6.09'	6.37'						
25-2	1600	6.81	11.28					no well cap	
25-3	1601	6.88	9.80						
25-18	1602	6.58	11.18						

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

GROUNDWATER ELEVATION REPORT

PARSONS		CLIENT:				DATE: 5/6/13				
PROJECT:						PROJECT NO:				
LOCATION:						INSPECTOR: BBO & SD				
MONITORING EQUIPMENT:					WATER LEVEL INDICATOR:			COMMENTS:		
INSTRUMENT	DETECTIOR	BGD	TIME	REMARKS	INSTRUMENT		CORRECTION FACTOR			
WELL	TIME	DEPTH TO <i>Well Dept</i>		CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC. GRAV.	WELL STATUS / COMMENTS <small>(Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of riser, concrete, protective casing, etc.)</small>		
		WATER	PRODUCT							
25-1	749	6.23	7.71					Locked & bee		
-13	755	5.18	5.48					Locked & bees		
-15	756	5.65	7.18					Locked & Ants		
-19	800	5.87	12.0					Locked &		
-6	803	6.45	14.26					Locked		
-18	806	5.97	11.20					"		
-8	809	3.83	5.43					"		
-9	812	3.91	5.39					"		
-10	815	5.80	6.38					"		
-17	818	4.89	11.25					"		
-3	820	6.16	9.80					" & wasp nest		
-2	823	5.97	11.25					Locked & bees, no well cap		

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

Section No. Appendix C
 Revision No. 0
 Date: 6/15/2005
 Page C-23

GROUNDWATER ELEVATION REPORT

PARSONS		CLIENT:		DATE: 6/17/14	
PROJECT: SEAD-25 LTM Round 11				PROJECT NO.:	
LOCATION:				INSPECTOR:	
MONITORING EQUIPMENT:			WATER LEVEL INDICATOR:		
INSTRUMENT	DETECTOR	BGD	TIME	REMARKS	CORRECTION FACTOR

WELL	TIME	DEPTH TO		CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC. GRAV.	WELL STATUS / COMMENTS <small>(Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of riser, concrete, protective casing, etc.)</small>
		WATER	Well PRODUCT					
25-1	1302	6.57	7.73					
25-13	1305	5.15	5.48					lock difficult to open, PVC may have lots very difficult to open
25-15	1318	6.97	7.20					
25-19	1328	8.46	12.0					
25-6	1333	7.93	14.30					
25-17	1337	6.78	11.26					
25-18	1340	6.90	11.18					
25-8	1346	4.99 5.04	5.42					ants
25-9	1348	4.95	5.40					
25-10	1352	6.13	6.39					
25-3	1355	7.79	9.80					
25-2	1400	6.91	11.26					

near old ball field
by road

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

GROUNDWATER ELEVATION REPORT

PARSONS		CLIENT:				DATE: 3/16/2015			
PROJECT: SEAD-25 LTM Round 12						PROJECT NO:			
LOCATION: Romeus, NY						INSPECTOR: BBO/SD			
MONITORING EQUIPMENT:					WATER LEVEL INDICATOR:			COMMENTS: Show covered gravel partially retracted	
INSTRUMENT	DETECTOR	BGD	TIME	REMARKS	INSTRUMENT	CORRECTION FACTOR			
WELL	TIME	DEPTH TO Well		CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC. GRAV.	WELL STATUS / COMMENTS <small>(Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of riser, concrete, protective casing, etc.)</small>	
		WATER	PRODUCT						
25-1	1432	4.83	7.71					locked, difficult to open	
25-13	1437	2.66	5.47					locked, difficult to open	
25-15	1442	1.97	7.20					locked, stiff to open	
25-18	1453	3.32	11.16					locked, stiff to open	
25-19	1504	4.14	12.01					sprayed lock w/ WD40 to open	
25-16	1508	2.93	14.27					sprayed lock w/ WD40 to open	
25-17	1514	1.72	11.24					locked	
25-10	1518	1.38	6.38					locked	
25-9	1523	1.33	5.40					locked	
25-8	1525	1.51	5.44					locked	
25-3	1527	3.09	9.80					locked	
25-2	1530	3.88	11.25					locked	

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

APPENDIX D

COMPLETE LTM GROUNDWATER ANALYTICAL DATA (EVENTS 1 THROUGH 12)

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25 MW25-2 GROUNDWATER	SEAD-25 MW25-2 GROUNDWATER	SEAD-25 MW25-2 GROUNDWATER	SEAD-25 MW25-2 GROUNDWATER	SEAD-25 MW25-2 GROUNDWATER	SEAD-25 MW25-2 GROUNDWATER	SEAD-25 MW25-2 GROUNDWATER	SEAD-25 MW25-2 GROUNDWATER	SEAD-25 MW25-2 GROUNDWATER	SEAD-25 MW25-2 GROUNDWATER
										25LM20000 4/12/2006 SA LTM 1 Total	25LM20010 8/9/2006 SA LTM 2 Total	25LM20014 8/9/2006 DU LTM 2 Total	25LM20020 6/6/2007 SA LTM 3 Total	25LM20031 3/4/2008 SA LTM 4 Total	25LM20042 4/29/2009 SA LTM 5 Total	25LM20048 4/29/2009 DU LTM 5 Total	25LM20053 1/11/2010 SA LTM 6 Total	25LM20054 1/11/2010 DU LTM 6 Total	25LM20064 8/3/2010 SA LTM 7 Total
Inorganics																			
	Iron	UG/L	15,700	85%	GA	300	53	79	93	2,510 J	606	727	2,600 J	711	14,400	15,700	2,900	2,410	1,660
	Sodium	UG/L	58,100	100%	GA	20,000	14	93	93	4,730	5,690 J	5,510 J	6,000 J	3,460	7,100	7,100	7,880	7,720	10,300
Wet Chemistry - MEE																			
	Chloride	MG/L	97.9	77%	GA	250	0	72	94	6.5	2.2 J	2.2 J	4	0.2 U	2.2	2.2	0.5 U	2.8	3
	Ethane	UG/L	1.1	5%				5	98	2 U	10 U	10 U	0.24	1 U	1 U	1 U	0.16 U	0.16 U	0.16 U
	Ethene	UG/L	4.6	5%				5	98	2 U	10 U	10 U	4.2	1 U	1 U	1 U	0.17 U	0.17 U	0.17 U
	Methane	UG/L	170	55%				54	98	80 J	36	35	170	3.2 J	68	64	20	22	120
	Nitrate	MG/L	6.4	65%	GA	10	0	39	60				0.5 J		0.05 U	0.05 U	0.199 J	0.05 UJ	
	Nitrate Nitrogen	MG/L	1	45%				13	29	0.05 U	0.05 U	0.05 U		0.305 J					
	Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25					0.305			0.199 J	0.003 UJ	0.013 UJ
	Nitrite	MG/L	0.73	28%	GA	1	0	17	60				0.5		0.01 U	0.01 U	0.007 UJ	0.007 UJ	
	Nitrite Nitrogen	MG/L	0.087	3%				1	29	0.05 U	0.05 U	0.05 U		0.01 UJ					
	Sulfate	MG/L	182	100%	GA	250	0	94	94	39.6	33.2	31	22	31.1	75.8	82.6	64.4 J	64.8 J	40.3
Field Measurement - Hach Kit																			
	Conductivity	S/m	1.26	100%				84	84	0.551	0.562	0.562	0.454	0.64	0.702	0.702	0.573	0.573	1.09
	Conductivity (post)	S/m	0.844	100%				3	3										
	Conductivity (pre)	S/m	0.83	100%				3	3										
	Dissolved Oxygen	MG/L	12.6	100%				80	80	6.29	0.3	0.3	0.07	1.35	0.11	0.11	0.41	0.41	0.02
	Dissolved Oxygen (post)	MG/L	5.17	100%				3	3										
	Dissolved Oxygen (pre)	MG/L	5.36	100%				3	3										
	Nitrate Nitrogen	MG/L	0.5	100%				3	3										
	Nitrite Nitrogen	MG/L	0.5	100%				3	3										
	ORP	mV	259	100%				84	84	-11	-82	-82	-92	-60	-115	-115	-151	-151	-230
	ORP (post)	mV	197	100%				3	3										
	ORP (pre)	mV	193	100%				3	3										
	pH	Std units	7.81	100%				84	84	7.17	6.93	6.93	7.11	7.15	6.84	6.84	7.25	7.25	6.79
	pH (post)	Std units	7.38	100%				3	3										
	pH (pre)	Std units	7.38	100%				3	3										
	Sulfide	MG/L	1.04	88%				66	75	0.01	0.15	0.15		0.01 U	0.04	0.04	0.16	0.16	
	Temperature	DEG C	26.55	100%				87	87	10.5	26.55	26.55	12.4	3.2	8.1	8.1	6.3	6.3	21.2
	Turbidity	NTU	195	100%				84	84	16.1	2.3	2.3	11	2.78	0.9	0.9	1.06	1.06	3.4
	Turbidity (post)	NTU	7.6	100%				2	2										
	Turbidity (pre)	NTU	5.7	100%				1	1										

Notes:
1. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
ND = Non-detect

SA = Sample
DU = Duplicate

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25		
										GR	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
									Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	
									Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	
	Volatile Organic Compounds																				
	1,1,1-Trichloroethane	UG/L	0.62	2%	GA	5	0	2	101	1.6 U		0.2 UJ		0.2 UJ		0.2 U		0.5 U		0.5 U	
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	101	0.45 U		0.38 UJ		0.38 UJ		0.38 U		0.18 U		0.18 U	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	96	2 U		0.31 U		0.31 U		0.31 UJ		0.5 U		0.5 U	
	1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	101	1 U		0.33 UJ		0.33 UJ		0.33 U		0.13 U		0.13 U	
	1,1-Dichloroethane	UG/L	3.5	10%	GA	5	0	10	101	2.8 J		1.5 J		1.4 J		0.21 U		1.2		1.4	
	1,1-Dichloroethane	UG/L	0	0%	GA	5	0	0	101	1.9 U		0.35 UJ		0.35 UJ		0.35 U		0.11 U		0.11 U	
	1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	96	0.95 U		0.37 UJ		0.37 UJ		0.37 U		0.25 UJ		0.25 UJ	
	1,2,4-Trimethylbenzene	UG/L	0.45	7%	GA	5	0	2	30			0.4 J		0.45 J		0.19 U					
	1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	96	2.2 U		0.5 U		0.5 U		0.44 U		0.44 U		0.44 U	
	1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	101	0.9 U		0.22 UJ		0.22 UJ		0.22 U		0.25 U		0.25 U	
	1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	2 U		0.15 UJ		0.15 UJ		0.15 U		0.21 U		0.21 U	
	1,2-Dichloroethane	UG/L	0.49	3%	GA	0.6	0	3	101	0.71 U		0.2 UJ		0.2 UJ		0.2 U		0.32 J		0.1 U	
	1,2-Dichloroethane (total)	UG/L	15	15%	GA	5	2	3	20			15 J		11 J		0.76 J					
	1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	101	0.75 U		0.25 UJ		0.25 UJ		0.25 U		0.13 U		0.13 U	
	1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	30			0.2 UJ		0.2 UJ		0.2 U					
	1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	1.8 U		0.26 UJ		0.26 UJ		0.26 U		0.25 U		0.25 U	
	1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	1.8 U		0.24 UJ		0.24 UJ		0.24 U		0.28 U		0.28 U	
	Acetone	UG/L	11	7%				7	101	8 U		9.5		8.6		2.2 U		11 J		8.7 J	
	Benzene	UG/L	62	29%	GA	1	18	29	101	57 J		14 J		12 J		0.99 J		19		20	
	Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	101	0.86 U		0.33 UJ		0.33 UJ		0.33 U		0.25 U		0.25 U	
	Bromoform	UG/L	0	0%	MCL	80	0	0	101	1 U		0.23 UJ		0.23 UJ		0.23 U		0.5 UJ		0.5 UJ	
	Carbon disulfide	UG/L	0.61	2%				2	101	1.8 U		0.61 J		0.56 J		0.25 U		0.6 U		0.6 U	
	Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	101	1.8 U		0.22 UJ		0.22 UJ		0.22 U		0.5 UJ		0.5 UJ	
	Chlorobenzene	UG/L	0	0%	GA	5	0	0	101	1.3 U		0.22 UJ		0.22 UJ		0.22 U		0.25 U		0.25 U	
	Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	101	0.55 U		0.3 UJ		0.3 UJ		0.3 U		0.1 UJ		0.1 UJ	
	Chloroethane	UG/L	0.67	2%	GA	5	0	2	101	1.1 U		0.55 U		0.55 U		0.55 U		2 UJ		2 UJ	
	Chloroform	UG/L	0.32	1%	GA	7	0	1	101	0.8 U		0.32 J		0.32 UJ		0.32 U		0.14 U		0.14 U	
	Cis-1,2-Dichloroethane	UG/L	19	15%	GA	5	4	15	101	16 J		15 J		11 J		0.76 J		2.8		2.9	
	Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	101	0.71 U		0.19 UJ		0.19 UJ		0.19 UJ		0.11 U		0.11 U	
	Cyclohexane	UG/L	8.6	11%				11	96	2.2 J		1.9 J		1.8 J		0.31 U		1.7		1.8	
	Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	76	0.9 U								0.25 U		0.25 U	
	Diisopropyl Ether	UG/L	0	0%				0	20			0.21 U		0.21 U		0.21 U					
	Ethyl benzene	UG/L	26	17%	GA	5	12	17	101	25 J		8.1 J		6.5 J		0.47 J		10		11	
	Isopropylbenzene	UG/L	2.6	10%	GA	5	0	10	101	1.8 U		0.49 J		0.4 J		0.23 U		1		1.1	
	Meta/Para Xylene	UG/L	19	11%	GA	5	4	7	61	19		6.5 J		5.1 J		0.59 U				1.2	
	Methyl Acetate	UG/L	0	0%				0	96	2.4 U		0.53 U		0.53 U		0.53 U		0.19 UJ		0.19 UJ	
	Methyl bromide	UG/L	0	0%	GA	5	0	0	101	2 U		0.49 U		0.49 U		0.49 UJ		2 U		2 U	
	Methyl butyl ketone	UG/L	1.9	1%				1	101	2 U		1.7 U		1.7 U		1.7 U		1.9 J		1 U	
	Methyl chloride	UG/L	0	0%	GA	5	0	0	101	0.9 U		0.36 U		0.36 U		0.36 U		0.33 U		0.33 U	
	Methyl cyclohexane	UG/L	4.2	7%				7	96	0.8 U		0.52 J		0.46 J		0.3 U		0.1 U		0.1 U	
	Methyl ethyl ketone	UG/L	9	11%				11	101	5 U		3.2 J		2.3 J		1.3 U		3.8 J		2.9 J	
	Methyl isobutyl ketone	UG/L	0	0%				0	101	1.8 U		1.3 U		1.3 U		1.3 U		1 U		1 U	
	Methyl Tertbutyl Ether	UG/L	0	0%				0	101	0.65 U		0.36 U		0.36 U		0.36 U		0.2 U		0.2 U	
	Methylene chloride	UG/L	0	0%	GA	5	0	0	101	0.65 U		1.1 U		1.1 U		1.1 U		1 U		1 U	
	Naphthalene	UG/L	0.23	4%				1	25			0.3 UJ		0.3 UJ		0.3 U					
	n-Butylbenzene	UG/L	0	0%	GA	5	0	0	20			0.23 UJ		0.23 UJ		0.23 U					
	Ortho Xylene	UG/L	6.4	8%	GA	5	3	5	61	6.4		5.6 J		4.3 J		0.25 U					
	p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10												
	Propylbenzene	UG/L	0	0%	GA	5	0	0	10												
	sec-Butylbenzene	UG/L	0	0%	GA	5	0	0	20			0.21 UJ		0.21 UJ		0.21 U					
	Styrene	UG/L	0	0%	GA	5	0	0	101	1.8 U		0.23 UJ		0.23 UJ		0.23 U		0.11 U		0.11 U	
	tert-Butylbenzene	UG/L	0	0%	GA	5	0	0	20			0.31 UJ		0.31 UJ		0.31 U					
	Tetrachloroethane	UG/L	0	0%	GA	5	0	0	101	2.1 U		0.4 U		0.4 U		0.4 U		0.15 U		0.15 U	
	Toluene	UG/L	14	12%	GA	5	5	12	101	6.5		7.4 J		5.4 J		0.27 U		0.91 J		0.87 J	
	Total Xylenes	UG/L	62	12%	GA	5	3	7	60			12 J		9.4 J		0.25 U		1 J		1 J	
	Trans-1,2-Dichloroethane	UG/L	0	0%	GA	5	0	0	101	0.8 U		0.25 U		0.25 U		0.25 U		0.2 U		0.2 U	
	Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	101	0.86 U		0.2 UJ		0.2 UJ		0.2 UJ		0.21 U		0.21 U	
	Trichloroethane	UG/L	2	11%	GA	5	0	11	101	1.6 J		2 J		1.8 J		0.45 J		1.7		1.7	
	Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	96	0.8 U		0.24 U		0.24 U		0.24 U		0.25 U		0.25 U	
	Vinyl chloride	UG/L	2.6	6%	GA	2	2	6	101	2.4 J		0.79 J		0.25 U		0.25 U		0.66 J		0.67 J	

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	
									GR	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Parameter	Unit	Value	of	Source	Level	of	of	of	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	
Semivolatile Organic Compounds																			
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18										9 U	10 U
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18										9 U	10 U
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18										9 U	10 U
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18										9 U	10 U
2,4-Dimethylphenol	UG/L	0	0%				0	18										9 U	10 U
2,4-Dinitrophenol	UG/L	0	0%				0	18										47 U	48 U
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18										9 U	10 U
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18										9 U	10 U
2-Chloronaphthalene	UG/L	0	0%				0	18										9 U	10 U
2-Chlorophenol	UG/L	0	0%				0	18										9 U	10 U
2-Methylnaphthalene	UG/L	0	0%				0	18										9 U	10 U
2-Methylphenol	UG/L	0	0%				0	18										9 U	10 U
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18										47 U	48 U
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18										9 U	10 U
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18										19 U	19 U
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18										47 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18										47 U	48 U
4-Bromophenyl phenyl ether	UG/L	0	0%				0	18										9 U	10 U
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18										9 U	10 U
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18										9 U	10 U
4-Chlorophenyl phenyl ether	UG/L	0	0%				0	18										9 U	10 U
4-Methylphenol	UG/L	0	0%				0	18										9 U	10 U
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18										47 U	48 U
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18										47 U	48 U
Acenaphthene	UG/L	0.5	6%				1	18										9 U	10 U
Acenaphthylene	UG/L	2	22%				4	18										9 U	10 U
Acetophenone	UG/L	0	0%				0	18										9 U	10 U
Anthracene	UG/L	1	6%				1	18										9 U	10 U
Atrazine	UG/L	0	0%	GA	7.5	0	0	18										9 U	10 U
Benzaldehyde	UG/L	0	0%				0	18										47 U	48 U
Benzo(a)anthracene	UG/L	0	0%				0	18										9 U	10 U
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18										9 U	10 U
Benzo(b)fluoranthene	UG/L	0	0%				0	18										9 U	10 U
Benzo(g)h)perylene	UG/L	0.6	6%				1	18										9 U	10 U
Benzo(k)fluoranthene	UG/L	0	0%				0	18										9 U	10 U
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18										9 U	10 U
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18										9 U	10 U
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18										9 U	10 U
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18										9 U	10 U
Butylbenzylphthalate	UG/L	2	6%				1	18										9 U	10 U
Caprolactam	UG/L	0	0%				0	18										9 U	10 U
Carbazole	UG/L	0	0%				0	18										9 U	10 U
Chrysene	UG/L	0	0%				0	18										9 U	10 U
Dibenz(a,h)anthracene	UG/L	0	0%				0	18										9 U	10 U
Dibenzofuran	UG/L	0	0%				0	18										9 U	10 U
Diethyl phthalate	UG/L	0	0%				0	18										9 U	10 U
Dimethylphthalate	UG/L	0	0%				0	18										9 U	10 U
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18										9 U	10 U
Di-n-octylphthalate	UG/L	0	0%				0	18										9 U	10 U
Fluoranthene	UG/L	0	0%				0	18										9 U	10 U
Fluorene	UG/L	0	0%				0	18										9 U	10 U
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18										9 U	10 U
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18										9 U	10 U
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18										42 U	44 U
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18										9 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	0	0%				0	18										9 U	10 U
Isophorone	UG/L	0	0%				0	18										9 U	10 U
Naphthalene	UG/L	2	6%				1	18										9 U	10 U
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18										9 U	10 U
N-Nitroso-di-n-propylamine	UG/L	0	0%				0	18										9 U	10 U
N-Nitrosodiphenylamine	UG/L	0	0%				0	18										9 U	10 U
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18										47 U	48 U
Phenanthrene	UG/L	0	0%				0	18										9 U	10 U
Phenol	UG/L	0	0%	GA	1	0	0	18										9 U	10 U
Pyrene	UG/L	0	0%				0	18										9 U	10 U

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25		
										GR	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
										25LM20071	25LM20079	25LM20080	25LM20091	25LM20101	25LM20102	25LM20109	25LM20113	25LM20001	25LM20002		
										8/3/2010	2/8/2011	2/8/2011	3/1/2012	5/8/2013	5/8/2013	6/18/2014	3/18/2015	1/31/2006	1/31/2006		
										DU	SA	DU	SA	SA	DU	SA	SA	DU	SA		
										LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM		
										7	8	8	9	10	10	11	12	1	1		
										Total	Total	Total	Total	Total	Total	Total	Total	Total	Total		
										Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
	Inorganics																				
	Iron	UG/L	15,700	85%	GA	300	53	79	93												
	Sodium	UG/L	58,100	100%	GA	20,000	14	93	93												
	Wet Chemistry - MEE																				
	Chloride	MG/L	97.9	77%	GA	250	0	72	94	2.8	5.8		0.9 J	1.8 J	1.7 J	1.9	0.74		2.1	2.3	
	Ethane	UG/L	1.1	5%				5	98	0.16 U	0.58 U	0.58 U	0.58 U	4 U	4 U	0.55 U	0.55 U		2 U	2 U	
	Ethene	UG/L	4.6	5%				5	98	0.17 U	0.69 U	0.69 U	0.69 U	3 U	3 U	0.5 U	0.5 U		2 U	2 U	
	Methane	UG/L	170	55%				54	98	130	32	59	31 J	22	25	0.32 J	4.2		2 U	2 U	
	Nitrate	MG/L	6.4	65%	GA	10	0	39	60		0.0152 U		0.0152 U	0.01 U	0.027 J	0.059	1.3				
	Nitrate Nitrogen	MG/L	1	45%				13	29										0.05 U	0.05 U	
	Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25	0.013 UJ											
	Nitrite	MG/L	0.73	28%	GA	1	0	17	60		0.00321 U		0.036 J	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U	
	Nitrite Nitrogen	MG/L	0.087	3%				1	29										0.05 U	0.05 U	
	Sulfate	MG/L	182	100%	GA	250	0	94	94	45.3	45 J		52 J	160 J	150 J	10	24		39.9	39.8	
	Field Measurement - Hach Kit																				
	Conductivity	S/m	1.26	100%				84	84	1.09	0.806	0.806	0.681	0.907	0.907		0.411		0.49	0.49	
	Conductivity (post)	S/m	0.844	100%				3	3												
	Conductivity (pre)	S/m	0.83	100%				3	3												
	Dissolved Oxygen	MG/L	12.6	100%				80	80	0.02	0.24	0.24	0.24	0.11	0.11		8.84		1.19	1.19	
	Dissolved Oxygen (post)	MG/L	5.17	100%				3	3												
	Dissolved Oxygen (pre)	MG/L	5.36	100%				3	3												
	Nitrate Nitrogen	MG/L	0.5	100%				3	3												
	Nitrite Nitrogen	MG/L	0.5	100%				3	3												
	ORP	mV	259	100%				84	84	-230	-148	-148	-106	-350	-350		44		79	79	
	ORP (post)	mV	197	100%				3	3												
	ORP (pre)	mV	193	100%				3	3												
	pH	Std units	7.81	100%				84	84	6.79	6.98	6.98	6.79	7.2	7.2		7.57		7.1	7.1	
	pH (post)	Std units	7.38	100%				3	3												
	pH (pre)	Std units	7.38	100%				3	3												
	Sulfide	MG/L	1.04	88%				66	75				0.2	0.15	0.15		0		0.04	0.04	
	Temperature	DEG C	26.55	100%				87	87	21.2	5.08	5.08	5.3	8.4	8.4		3.3		4.3	4.3	
	Turbidity	NTU	195	100%				84	84	3.4	0.6	0.6	5.38	3.11	3.11		1.48		2.2	2.2	
	Turbidity (post)	NTU	7.6	100%				2	2												
	Turbidity (pre)	NTU	5.7	100%				1	1												

Notes:
1. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
ND = Non-detect

SA = Sample
DU = Duplicate

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25		
									GR	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
									25LM20011	25LM20036	25LM20046	25LM20060	25LM20068	25LM20075	25LM20086	25LM20087	25LM20097	25LM20110		
									8/1/2006	3/4/2008	4/29/2009	1/12/2010	8/4/2010	2/8/2011	2/29/2012	2/29/2012	5/9/2013	6/18/2014		
									SA	SA	SA	SA	SA	SA	SA	SA	SA	SA		
									LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM		
									2	4	5	6	7	8	9	9	10	11		
									Total	Total	Total	Total	Total	Total	Total	Total	Total	Total		
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Semivolatile Organic Compounds																				
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18	10	U										
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10	U										
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10	U										
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18	10	U										
2,4-Dimethylphenol	UG/L	0	0%					18	10	U										
2,4-Dinitrophenol	UG/L	0	0%					18	48	U										
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10	U										
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10	U										
2-Chloronaphthalene	UG/L	0	0%					18	10	U										
2-Chlorophenol	UG/L	0	0%					18	10	U										
2-Methylnaphthalene	UG/L	0	0%					18	10	U										
2-Methylphenol	UG/L	0	0%					18	10	U										
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48	U										
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	10	U										
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18	19	U										
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48	U										
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18	48	U										
4-Bromophenyl phenyl ether	UG/L	0	0%					18	10	U										
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18	10	U										
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18	10	U										
4-Chlorophenyl phenyl ether	UG/L	0	0%					18	10	U										
4-Methylphenol	UG/L	0	0%					18	10	U										
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48	U										
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	48	U										
Acenaphthene	UG/L	0.5	6%					18	10	U										
Acenaphthylene	UG/L	2	22%					4	18	U										
Acetophenone	UG/L	0	0%					18	10	U										
Anthracene	UG/L	1	6%					1	18	U										
Atrazine	UG/L	0	0%	GA	7.5	0	0	18	10	U										
Benzaldehyde	UG/L	0	0%					18	48	U										
Benzo(a)anthracene	UG/L	0	0%					18	10	U										
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18	10	U										
Benzo(b)fluoranthene	UG/L	0	0%					18	10	U										
Benzo(ghi)perylene	UG/L	0.6	6%					1	18	U										
Benzo(k)fluoranthene	UG/L	0	0%					18	10	U										
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18	10	U										
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18	10	U										
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18	10	U										
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18	10	U										
Butylbenzylphthalate	UG/L	2	6%					1	18	U										
Caprolactam	UG/L	0	0%					18	10	U										
Carbazole	UG/L	0	0%					18	10	U										
Chrysene	UG/L	0	0%					18	10	U										
Dibenz(a,h)anthracene	UG/L	0	0%					18	10	U										
Dibenzofuran	UG/L	0	0%					18	10	U										
Diethyl phthalate	UG/L	0	0%					18	10	U										
Dimethylphthalate	UG/L	0	0%					18	10	U										
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18	10	U										
Di-n-octylphthalate	UG/L	0	0%					18	10	U										
Fluoranthene	UG/L	0	0%					18	10	U										
Fluorene	UG/L	0	0%					18	10	U										
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18	10	U										
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18	10	U										
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18	43	U										
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18	10	U										
Indeno(1,2,3-cd)pyrene	UG/L	0	0%					18	10	U										
Isophorone	UG/L	0	0%					18	10	U										
Naphthalene	UG/L	2	6%					1	18	U										
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18	10	U										
N-Nitroso-di-n-propylamine	UG/L	0	0%					18	10	U										
N-Nitrosodiphenylamine	UG/L	0	0%					18	10	U										
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18	48	U										
Phenanthrene	UG/L	0	0%					18	10	U										
Phenol	UG/L	0	0%	GA	1	0	0	18	10	U										
Pyrene	UG/L	0	0%					18	10	U										

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
										GR	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
										25LM20011	25LM20036	25LM20046	25LM20060	25LM20068	25LM20075	25LM20086	25LM20087	25LM20097	25LM20110
										8/11/2006	3/4/2008	4/29/2009	1/12/2010	8/4/2010	2/8/2011	2/29/2012	2/29/2012	5/9/2013	6/18/2014
										SA	SA	SA	SA	SA	SA	SA	DU	SA	SA
										LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM
										2	4	5	6	7	8	9	9	10	11
										Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
										Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
Inorganics																			
	Iron	UG/L	15,700	85%	GA	300	53	79	93	3,820	107	1,570	702		463	458 J	530 J	2,200	
	Sodium	UG/L	58,100	100%	GA	20,000	14	93	93	11,300 J	5,540	9,000	7,370		7,990	5,980	5,960	8,900	
Wet Chemistry - MEE																			
	Chloride	MG/L	97.9	77%	GA	250	0	72	94	1.5 J	2.66	3.3	2.8		3.2	1.5 J	1.4 J	1 U	
	Ethane	UG/L	1.1	5%				5	98	2 U	1 U	1 U	0.16 U	0.16 U	0.58 U	0.58 U	0.58 U	0.55 U	0.55 U
	Ethene	UG/L	4.6	5%				5	98	2 U	1 U	1 U	0.17 U	0.17 U	0.69 U	0.69 U	0.69 U	0.5 U	0.5 U
	Methane	UG/L	170	55%				54	98	2 U	0.34 J	13	0.14 U	12	1.5 J	18 J	18 J	0.29 U	11
	Nitrate	MG/L	6.4	65%	GA	10	0	39	60			0.05 U	0.05 UJ		0.057	0.0152 U	0.0152 U	0.019 J	
	Nitrate Nitrogen	MG/L	1	45%				13	29		0.098 J								
	Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25				0.003 UJ						
	Nitrite	MG/L	0.73	28%	GA	1	0	17	60			0.01 U	0.007 UJ		0.00321 U	0.022 J	0.023 J	0.01 U	
	Nitrite Nitrogen	MG/L	0.087	3%				1	29		0.05 U	0.01 UJ							
	Sulfate	MG/L	182	100%	GA	250	0	94	94	44.9	100	122	182 J		110 J	50 J	50 J	100	
Field Measurement - Hach Kit																			
	Conductivity	S/m	1.26	100%				84	84	0.686	0.675	0.627	0.741	1.26	0.851	0.766	0.766	0.808	
	Conductivity (post)	S/m	0.844	100%				3	3										
	Conductivity (pre)	S/m	0.83	100%				3	3										
	Dissolved Oxygen	MG/L	12.6	100%				80	80	3.6	0.87	0.19	1.78	0	0.37	0.1	0.1	0.25	
	Dissolved Oxygen (post)	MG/L	5.17	100%				3	3										
	Dissolved Oxygen (pre)	MG/L	5.36	100%				3	3										
	Nitrate Nitrogen	MG/L	0.5	100%				3	3										
	Nitrite Nitrogen	MG/L	0.5	100%				3	3										
	ORP	mV	259	100%				84	84	77.9	124	-102	-63	-124	-85	-141	-141	-79	
	ORP (post)	mV	197	100%				3	3										
	ORP (pre)	mV	193	100%				3	3										
	pH	Std units	7.81	100%				84	84	7.02	7.15	7.03	6.51	6.84	6.99	6.94	6.94	6.99	
	pH (post)	Std units	7.38	100%				3	3										
	pH (pre)	Std units	7.38	100%				3	3										
	Sulfide	MG/L	1.04	88%				66	75	0.03	0.01	0.42	0.04		0.46	0.46	0.46	0.03	
	Temperature	DEG C	26.55	100%				87	87	21.54	3.5	7.9	4.9	20.6	4.5	4.6	4.6	7.8	
	Turbidity	NTU	195	100%				84	84	1.2	2	0.35	3	2.37	3.31	1.99	1.99	1.5	
	Turbidity (post)	NTU	7.6	100%				2	2										
	Turbidity (pre)	NTU	5.7	100%				1	1										

Notes:
1. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
ND = Non-detect

SA = Sample
DU = Duplicate

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area	Loc ID	Matrix	Sample ID	Sample Date	QC Type	Study ID	Sample Round	Filtered	SEAD-25 MW25-3 GROUNDWATER 25LM20114 3/18/2015 SA LTM 12 Total	SEAD-25 MW25-3 GROUNDWATER 25LM20115 3/18/2015 DU LTM 12 Total	SEAD-25 MW25-8 GROUNDWATER 25LM20003 1/31/2006 SA LTM 1 Total	SEAD-25 MW25-8 GROUNDWATER 25LM20012 8/11/2006 SA LTM 2 Total	SEAD-25 MW25-8 GROUNDWATER 25LM20037 3/4/2008 SA LTM 4 Total	SEAD-25 MW25-8 GROUNDWATER 25LM20047 4/29/2009 SA LTM 5 Total	SEAD-25 MW25-8 GROUNDWATER 25LM20059 1/13/2010 SA LTM 6 Total	SEAD-25 MW25-8 GROUNDWATER 25LM20092 2/29/2012 SA LTM 9 Total	SEAD-25 MW25-8 GROUNDWATER 25LM20103 5/7/2013 SA LTM 10 Total	SEAD-25 MW25-9 GROUNDWATER 25LM20004 1/31/2006 SA LTM 1 Total										
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual								
Volatile Organic Compounds																												
1,1,1-Trichloroethane	UG/L	0.62	2%	GA	5	0	2	101	0.37	U	0.37	U	1	U	1	U	1	U	0.32	U	0.2	U	0.5	UJ	0.62	J		
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	101	0.62	U	0.62	U	1	U	1	U	1	U	0.09	U	0.38	U	0.18	U	1	U		
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	96	0.36	U	0.36	U	1	U	1	U	1	U	0.4	U	0.31	UJ	0.5	U	1	U		
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	101	0.33	U	0.33	U	1	U	1	U	1	U	0.2	U	0.33	U	0.13	U	1	U		
1,1-Dichloroethane	UG/L	3.5	10%	GA	5	0	10	101	0.38	U	0.38	U	1	U	1	U	1	U	0.14	U	0.21	U	0.25	U	1	U		
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	101	0.36	U	0.36	U	1	U	1	U	1	U	0.37	U	0.35	U	0.11	U	1	U		
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	96	2.5	U	2.5	U	1	U	1	U	1	U	0.19	U	0.37	U	0.25	U	1	U		
1,2,4-Trimethylbenzene	UG/L	0.45	7%	GA	5	0	2	30																				
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	96	1.1	U	1.1	U	1	U	2	U	2	U	0.43	U	0.5	U	0.44	U	1	U		
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	101	0.44	U	0.44	U	1	U	1	U	1	U	0.18	U	0.22	U	0.25	U	1	U		
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	0.37	U	0.37	U	1	U	1	U	1	U	0.4	U	0.15	U	0.21	U	1	U		
1,2-Dichloroethane	UG/L	0.49	3%	GA	0.6	0	3	101	0.5	U	0.5	U	1	U	1	U	1	U	0.4	U	0.2	U	0.1	U	0.49	J		
1,2-Dichloroethene (total)	UG/L	15	15%	GA	5	2	3	20																				
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	101	0.67	U	0.67	U	1	U	1	U	1	U	0.15	U	0.21	UJ	0.13	U	1	U		
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	30																				
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	0.43	U	0.43	U	1	U	1	U	1	U	0.36	U	0.26	U	0.25	U	1	U		
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	0.46	U	0.46	U	1	U	1	U	1	U	0.34	U	0.24	U	0.28	U	1	U		
Acetone	UG/L	11	7%				7	101	7	U	7	U	5	U	10	UJ	10	U	5	U	2.2	U	5	U	5	U		
Benzene	UG/L	62	29%	GA	1	18	29	101	0.43	U	0.43	U	1	U	1	U	1	U	0.18	U	0.26	U	0.25	U	33			
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	101	0.44	U	0.44	U	1	U	1	U	1	U	0.17	U	0.33	U	0.25	UJ	1	U		
Bromoform	UG/L	0	0%	MCL	80	0	0	101	0.43	U	0.43	U	1	U	1	UJ	1	U	0.2	U	0.23	U	0.5	U	1	U		
Carbon disulfide	UG/L	0.61	2%				2	101	1	U	1	U	1	U	1	U	1	U	0.36	U	0.25	U	0.6	U	1	U		
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	101	0.33	U	0.33	U	1	U	1	U	1	U	0.36	U	0.22	U	0.5	UJ	1	U		
Chlorobenzene	UG/L	0	0%	GA	5	0	0	101	0.26	U	0.26	U	1	U	1	U	1	U	0.26	U	0.22	U	0.25	U	1	U		
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	101	0.32	U	0.32	U	1	U	1	U	1	U	0.11	U	0.3	U	0.1	U	1	U		
Chloroethane	UG/L	0.67	2%	GA	5	0	2	101	2.5	U	2.5	U	1	U	2	U	1	U	0.21	U	0.55	U	2	U	1	U		
Chloroform	UG/L	0.32	1%	GA	7	0	1	101	0.5	U	0.5	U	1	U	1	U	1	U	0.16	U	0.32	U	0.14	U	1	U		
Cis-1,2-Dichloroethene	UG/L	19	15%	GA	5	4	15	101	0.41	U	0.41	U	1	U	1	U	1	U	0.14	U	0.21	U	0.15	U	2.8			
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	101	0.4	U	0.4	U	1	U	1	U	1	U	0.14	U	0.19	UJ	0.11	U	1	U		
Cyclohexane	UG/L	8.6	11%				11	96	0.39	U	0.39	U	1	U	1	U	1	U	0.14	U	0.31	U	0.25	U	8	J		
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	76	0.6	U	0.6	U	1	UJ	1	U	1	U	0.18	U	0.25	U	0.25	U	1	UJ		
Diisopropyl Ether	UG/L	0	0%				0	20																				
Ethyl benzene	UG/L	26	17%	GA	5	12	17	101	0.33	U	0.33	U	1	U	1	U	1	U	0.42	U	0.21	U	0.11	U	15			
Isopropylbenzene	UG/L	2.6	10%	GA	5	0	10	101	0.35	U	0.35	U	1	U	1	U	1	U	0.34	U	0.23	U	0.1	U	2.6			
Meta/Para Xylene	UG/L	19	11%	GA	5	4	7	61																				
Methyl Acetate	UG/L	0	0%				0	96	1.8	U	1.8	U	1	U	10	U	2	U	0.81	U	0.59	U	0.53	U	0.19	U	1	U
Methyl bromide	UG/L	0	0%	GA	5	0	0	101	2.5	U	2.5	U	1	UJ	2	U	1	UJ	0.4	U	0.49	UJ	2	U	1	U		
Methyl butyl ketone	UG/L	1.9	1%				1	101	2	U	2	U	5	U	5	U	5	U	0.4	U	1.7	U	1	U	5	U		
Methyl chloride	UG/L	0	0%	GA	5	0	0	101	0.4	U	0.4	U	1	U	2	U	1	U	0.18	U	0.36	U	0.33	U	1	U		
Methyl cyclohexane	UG/L	4.2	7%				7	96	0.43	U	0.43	U	1	U	1	U	1	U	0.16	U	0.3	U	0.1	U	1.9	J		
Methyl ethyl ketone	UG/L	9	11%				11	101	3.4	U	3.4	U	5	U	5	U	2.3	J	1	U	1.3	U	1	U	5	U		
Methyl isobutyl ketone	UG/L	0	0%				0	101	2.1	U	2.1	U	5	U	5	U	5	U	0.34	U	1.3	U	1	U	5	U		
Methyl Tertbutyl Ether	UG/L	0	0%				0	101	0.3	U	0.3	U	1	U	1	U	1	U	0.13	U	0.36	U	0.2	U	1	U		
Methylene chloride	UG/L	0	0%	GA	5	0	0	101	2.5	U	2.5	U	1	U	1	U	1	U	0.13	U	1.1	U	1	U	1	U		
Naphthalene	UG/L	0.23	4%				1	25																				
n-Butylbenzene	UG/L	0	0%	GA	5	0	0	20																				
Ortho Xylene	UG/L	6.4	8%	GA	5	3	5	61																				
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10																				
Propylbenzene	UG/L	0	0%	GA	5	0	0	10																				
sec-Butylbenzene	UG/L	0	0%	GA	5	0	0	20																				
Styrene	UG/L	0	0%	GA	5	0	0	101	0.27	U	0.27	U	1	U	1	U	1	U	0.36	U	0.23	U	0.11	U	1	U		
tert-Butylbenzene	UG/L	0	0%	GA	5	0	0	20																				
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	101	0.74	U	0.74	U	1	U	1	U	1	U	0.42	U	0.4	U	0.15	U	1	U		
Toluene	UG/L	14	12%	GA	5	5	12	101	0.48	U	0.48	U	1	U	1	U	1	U	0.21	U	0.27	U	0.33	U	14			
Total Xylenes	UG/L	62	12%	GA	5	3	7	60	0.23	U	0.23	U	3	U	3	U	3	U	0.25	U	0.25	U	0.2	U	62			
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	101	0.37	U	0.37	U	1	U	1	U	1	U	0.16	U	0.25	U	0.2	U	1	U		
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	101	0.42	U	0.42	U	1	U	1	U	1	U	0.17	U	0.2	UJ	0.21	UJ	1	U		
Trichloroethene	UG/L	2	11%	GA	5	0	11	101	0.48	U	0.48	U	1	U	1	U	1	U	0.19	U	0.28	U	0.13	U	0.53	J		
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	96	0.42	U	0.42	U	1	UJ	1	U	1	U	0.16	U	0.24	U	0.25	U	1	UJ		
Vinyl chloride	UG/L	2.6	6%	GA	2	2	6	101	0.5	U	0.5	U	1	U	1	U	1	U	0.22	U	0.25	U	0.18	U	1	U		

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	GR	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	
		MW25-3	MW25-3	MW25-8	MW25-8	MW25-8	MW25-8	MW25-8	MW25-8	MW25-8	MW25-8	MW25-8	MW25-8	MW25-9			
Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
25LM20114	25LM20115	25LM20003	25LM20012	25LM20037	25LM20047	25LM20059	25LM20092	25LM20103	25LM20004								
3/18/2015	3/18/2015	1/31/2006	8/11/2006	3/4/2008	4/29/2009	1/13/2010	2/29/2012	5/7/2013	1/31/2006								
SA	DU	SA	SA	SA	SA	SA	SA	SA	SA								
LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM								
12	12	1	2	4	5	6	9	10	1								
Total	Total	Total	Total	Total	Total	Total	Total	Total	Total								
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
Semivolatile Organic Compounds																	
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18			9 U	10 U					10 U
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18			9 U	10 U					10 U
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18			9 U	10 U					10 U
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18			9 U	10 U					10 U
2,4-Dimethylphenol	UG/L	0	0%					18			9 U	10 U					10 U
2,4-Dinitrophenol	UG/L	0	0%					18			47 U	49 U					48 U
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18			9 U	10 U					10 U
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18			9 U	10 U					10 U
2-Chloronaphthalene	UG/L	0	0%					18			9 U	10 U					10 U
2-Chlorophenol	UG/L	0	0%					18			9 U	10 U					10 U
2-Methylnaphthalene	UG/L	0	0%					18			9 U	10 U					10 U
2-Methylphenol	UG/L	0	0%					18			9 U	10 U					10 U
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U	49 U					48 U
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18			9 U	10 U					10 U
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18			19 U	20 U					19 U
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U	49 U					48 U
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18			47 U	49 U					48 U
4-Bromophenyl phenyl ether	UG/L	0	0%					18			9 U	10 U					10 U
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18			9 U	10 U					10 U
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18			9 U	10 U					10 U
4-Chlorophenyl phenyl ether	UG/L	0	0%					18			9 U	10 U					10 U
4-Methylphenol	UG/L	0	0%					18			9 U	10 U					10 U
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18			47 U	49 U					48 U
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18			47 U	49 U					48 U
Acenaphthene	UG/L	0.5	6%				1	18			0.5 J	10 U					10 U
Acenaphthylene	UG/L	2	22%				4	18			2 J	10 U					1 J
Acetophenone	UG/L	0	0%					18			9 U	10 U					10 U
Anthracene	UG/L	1	6%					18			1 J	10 U					10 U
Atrazine	UG/L	0	0%	GA	7.5	0	0	18			9 U	10 U					10 U
Benzaldehyde	UG/L	0	0%					18			47 U	49 U					48 U
Benzo(a)anthracene	UG/L	0	0%					18			9 U	10 U					10 U
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18			9 U	10 U					10 U
Benzo(b)fluoranthene	UG/L	0	0%					18			9 U	10 U					10 U
Benzo(ghi)perylene	UG/L	0.6	6%				1	18			0.6 J	10 U					10 U
Benzo(k)fluoranthene	UG/L	0	0%					18			9 U	10 U					10 U
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18			9 U	10 U					10 U
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18			9 U	10 U					10 U
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18			9 U	10 U					10 U
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18			9 U	10 U					10 U
Butylbenzylphthalate	UG/L	2	6%				1	18			9 U	10 U					10 U
Caprolactam	UG/L	0	0%					18			9 U	10 U					10 U
Carbazole	UG/L	0	0%					18			9 U	10 U					10 U
Chrysene	UG/L	0	0%					18			9 U	10 U					10 U
Dibenz(a,h)anthracene	UG/L	0	0%					18			9 U	10 U					10 U
Dibenzofuran	UG/L	0	0%					18			9 U	10 U					10 U
Diethyl phthalate	UG/L	0	0%					18			9 U	10 U					10 U
Dimethylphthalate	UG/L	0	0%					18			9 U	10 U					10 U
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18			9 U	10 U					10 U
Di-n-octylphthalate	UG/L	0	0%					18			9 U	10 U					10 U
Fluoranthene	UG/L	0	0%					18			9 U	10 U					10 U
Fluorene	UG/L	0	0%					18			9 U	10 U					10 U
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18			9 U	10 U					10 U
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18			9 U	10 U					10 U
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18			42 U	44 U					43 U
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18			9 U	10 U					10 U
Indeno(1,2,3-cd)pyrene	UG/L	0	0%					18			9 U	10 U					10 U
Isophorone	UG/L	0	0%					18			9 U	10 U					10 U
Naphthalene	UG/L	2	6%				1	18			9 U	10 U					2 J
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18			9 U	10 U					10 U
N-Nitroso-di-n-propylamine	UG/L	0	0%					18			9 U	10 U					10 U
N-Nitrosodiphenylamine	UG/L	0	0%					18			9 U	10 U					10 U
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18			47 U	49 U					48 U
Phenanthrene	UG/L	0	0%					18			9 U	10 U					10 U
Phenol	UG/L	0	0%	GA	1	0	0	18			9 U	10 U					10 U
Pyrene	UG/L	0	0%					18			9 U	10 U					10 U

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25 MW25-3 GROUNDWATER		SEAD-25 MW25-3 GROUNDWATER		SEAD-25 MW25-8 GROUNDWATER		SEAD-25 MW25-8 GROUNDWATER		SEAD-25 MW25-8 GROUNDWATER		SEAD-25 MW25-8 GROUNDWATER		SEAD-25 MW25-8 GROUNDWATER		SEAD-25 MW25-9 GROUNDWATER		
										Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value
	Inorganics																									
	Iron	UG/L	15,700	85%	GA	300	53	79	93	50 U	50 U	329 J	667	349	620	408	411 J	4,200							56.9 J	
	Sodium	UG/L	58,100	100%	GA	20,000	14	93	93	6,000	5,800	5,110	7,060 J	4,180	6,000	9,740	6,650	8,100							14,500	
	Wet Chemistry - MEE																									
	Chloride	MG/L	97.9	77%	GA	250	0	72	94	1.1	1.1	1.4	0.73 J	0.2 U	3.2	0.5 U	1.3 J	1 U	1.1						1.1	
	Ethane	UG/L	1.1	5%				5	98	0.55 U	0.55 U	2 U	2 U	1 U	1 U	0.16 U	0.58 U	0.81 U	2 U						2 U	
	Ethene	UG/L	4.6	5%				5	98	0.5 U	0.5 U	2 U	2 U	1 U	1 U	0.17 U	0.69 U	0.73 U	2 U						2 U	
	Methane	UG/L	170	55%				54	98	1.7	2	2 U	2 U	0.36 J	16	0.14 U	4.7 J	1.1 J	29							
	Nitrate	MG/L	6.4	65%	GA	10	0	39	60	0.69	0.69				0.05 U	0.05 UJ	0.017 J	0.041 J								
	Nitrate Nitrogen	MG/L	1	45%				13	29			0.05 U	0.13	0.607 J											0.05 U	
	Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25					0.607												
	Nitrite	MG/L	0.73	28%	GA	1	0	17	60	0.01 U	0.01 U				0.016	0.007 UJ	0.022 J	0.01 U								
	Nitrite Nitrogen	MG/L	0.087	3%				1	29			0.05 U	0.05 U	0.01 UJ											0.05 U	
	Sulfate	MG/L	182	100%	GA	250	0	94	94	70	68	19.5	28.2	17.3	20.7	35.2 J	12 J	12	21.8							
	Field Measurement - Hach Kit																									
	Conductivity	S/m	1.26	100%				84	84	0.686	0.686	0.494	0.72	0.427		0.342	0.462	0.506	0.535							
	Conductivity (post)	S/m	0.844	100%				3	3																	
	Conductivity (pre)	S/m	0.83	100%				3	3																	
	Dissolved Oxygen	MG/L	12.6	100%				80	80	4.06	4.06	0.84	2.92	2.21		2.67	0.16	0.08	5.33							
	Dissolved Oxygen (post)	MG/L	5.17	100%				3	3																	
	Dissolved Oxygen (pre)	MG/L	5.36	100%				3	3																	
	Nitrate Nitrogen	MG/L	0.5	100%				3	3																	
	Nitrite Nitrogen	MG/L	0.5	100%				3	3																	
	ORP	mV	259	100%				84	84	189	189	-70	33.4	61		230	-133	-31	91							
	ORP (post)	mV	197	100%				3	3																	
	ORP (pre)	mV	193	100%				3	3																	
	pH	Std units	7.81	100%				84	84	7.29	7.29	7.3	6.97	7.46		7.36	7.29	7.35	7.15							
	pH (post)	Std units	7.38	100%				3	3																	
	pH (pre)	Std units	7.38	100%				3	3																	
	Sulfide	MG/L	1.04	88%				66	75	0	0	0.04	0.09	0.03	0.01	0.03	0.03	0.09	0.02						0.02	
	Temperature	DEG C	26.55	100%				87	87	3.1	3.1	4.1	25.01	2.7		4.7	3.9	8.9	4.8							
	Turbidity	NTU	195	100%				84	84	1.79	1.79	2.4	8.7	5.1		2.2	0.8	1.74	2.49							
	Turbidity (post)	NTU	7.6	100%				2	2																	
	Turbidity (pre)	NTU	5.7	100%				1	1																	

Notes:
1. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
ND = Non-detect

SA = Sample
DU = Duplicate

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
Loc ID	MW25-9	MW25-9	MW25-9	MW25-9	MW25-9	MW25-9	MW25-9	MW25-9	MW25-9	MW25-9	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10
Matrix	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample ID	25LM20013	25LM20038	25LM20049	25LM20058	25LM20082	25LM20093	25LM20104	25LM20116	25LM20005	25LM20015	25LM20005	25LM20015	25LM20005	25LM20015	25LM20015	25LM20015
Sample Date	8/9/2006	3/4/2008	4/29/2009	1/12/2010	2/9/2011	2/29/2012	5/7/2013	3/17/2015	1/31/2006	3/17/2015	1/31/2006	3/17/2015	1/31/2006	3/17/2015	1/31/2006	3/17/2015
QC Type	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM
Sample Round	2	4	5	6	8	9	10	12	1	1	1	1	1	1	1	1
Filtered																
Parameter	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
Semivolatile Organic Compounds																
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18	10 U						10 U	10 U
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U						10 U	10 U
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18	10 U						10 U	10 U
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18	10 U						10 U	10 U
2,4-Dimethylphenol	UG/L	0	0%				0	18	10 U						10 U	10 U
2,4-Dinitrophenol	UG/L	0	0%				0	18	48 U						48 U	48 U
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U						10 U	10 U
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18	10 U						10 U	10 U
2-Chloronaphthalene	UG/L	0	0%				0	18	10 U						10 U	10 U
2-Chlorophenol	UG/L	0	0%				0	18	10 U						10 U	10 U
2-Methylnaphthalene	UG/L	0	0%				0	18	10 U						10 U	10 U
2-Methylphenol	UG/L	0	0%				0	18	10 U						10 U	10 U
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U						48 U	48 U
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	10 U						10 U	10 U
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18	19 U						19 U	19 U
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U						48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18	48 U						48 U	48 U
4-Bromophenyl phenyl ether	UG/L	0	0%				0	18	10 U						10 U	10 U
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18	10 U						10 U	10 U
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18	10 U						10 U	10 U
4-Chlorophenyl phenyl ether	UG/L	0	0%				0	18	10 U						10 U	10 U
4-Methylphenol	UG/L	0	0%				0	18	10 U						10 U	10 U
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18	48 U						48 U	48 U
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18	48 U						48 U	48 U
Acenaphthene	UG/L	0.5	6%				1	18	10 U						10 U	10 U
Acenaphthylene	UG/L	2	22%				4	18	10 U						1 J	10 U
Acetophenone	UG/L	0	0%				0	18	10 U						10 U	10 U
Anthracene	UG/L	1	6%				1	18	10 U						10 U	10 U
Atrazine	UG/L	0	0%	GA	7.5	0	0	18	10 U						10 U	10 U
Benzaldehyde	UG/L	0	0%				0	18	48 U						48 U	48 U
Benzo(a)anthracene	UG/L	0	0%				0	18	10 U						10 U	10 U
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18	10 U						10 U	10 U
Benzo(b)fluoranthene	UG/L	0	0%				0	18	10 U						10 U	10 U
Benzo(ghi)perylene	UG/L	0.6	6%				1	18	10 U						10 U	10 U
Benzo(k)fluoranthene	UG/L	0	0%				0	18	10 U						10 U	10 U
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18	10 U						10 U	10 U
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18	10 U						10 U	10 U
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18	10 U						10 U	10 U
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18	10 U						10 U	10 U
Butylbenzylphthalate	UG/L	2	6%				1	18	10 U						10 U	10 U
Caprolactam	UG/L	0	0%				0	18	10 U						10 U	10 U
Carbazole	UG/L	0	0%				0	18	10 U						10 U	10 U
Chrysene	UG/L	0	0%				0	18	10 U						10 U	10 U
Dibenz(a,h)anthracene	UG/L	0	0%				0	18	10 U						10 U	10 U
Dibenzofuran	UG/L	0	0%				0	18	10 U						10 U	10 U
Diethyl phthalate	UG/L	0	0%				0	18	10 U						10 U	10 U
Dimethylphthalate	UG/L	0	0%				0	18	10 U						10 U	10 U
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18	10 U						10 U	10 U
Di-n-octylphthalate	UG/L	0	0%				0	18	10 U						10 U	10 U
Fluoranthene	UG/L	0	0%				0	18	10 U						10 U	10 U
Fluorene	UG/L	0	0%				0	18	10 UJ						10 U	10 UJ
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18	10 U						10 U	10 U
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18	10 U						10 U	10 U
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18	43 U						43 U	43 U
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18	10 U						10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	0	0%				0	18	10 U						10 U	10 U
Isophorone	UG/L	0	0%				0	18	10 U						10 U	10 U
Naphthalene	UG/L	2	6%				1	18	10 U						10 U	10 U
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18	10 U						10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	0	0%				0	18	10 U						10 U	10 U
N-Nitrosodiphenylamine	UG/L	0	0%				0	18	10 U						10 U	10 U
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18	48 U						48 U	48 U
Phenanthrene	UG/L	0	0%				0	18	10 U						10 U	10 U
Phenol	UG/L	0	0%	GA	1	0	0	18	10 U						10 U	10 U
Pyrene	UG/L	0	0%				0	18	10 U						10 U	10 U

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
										MW25-9 GROUNDWATER 25LM20013 8/9/2006 SA LTM 2 Total	MW25-9 GROUNDWATER 25LM20038 3/4/2008 SA LTM 4 Total	MW25-9 GROUNDWATER 25LM20049 4/29/2009 SA LTM 5 Total	MW25-9 GROUNDWATER 25LM20058 1/12/2010 SA LTM 6 Total	MW25-9 GROUNDWATER 25LM20082 2/9/2011 SA LTM 8 Total	MW25-9 GROUNDWATER 25LM20093 2/29/2012 SA LTM 9 Total	MW25-9 GROUNDWATER 25LM20104 5/7/2013 SA LTM 10 Total	MW25-9 GROUNDWATER 25LM20116 3/17/2015 SA LTM 12 Total	MW25-10 GROUNDWATER 25LM20005 1/31/2006 SA LTM 1 Total	MW25-10 GROUNDWATER 25LM20015 8/9/2006 SA LTM 2 Total
Inorganics										12 U	100 U	9,440	916	3,580	2,080 J	3,000	92 J	62.8 J	358
Iron	UG/L	15,700	85%	GA	300	53	79	93											
Sodium	UG/L	58,100	100%	GA	20,000	14	93	93	16,400 J	8,380	26,000	16,500	29,600	45,300	34,000	14,000	8,870	6,530 J	
Wet Chemistry - MEE										0.99 J	0.2 U	2.7	0.5 U	1.6 J	0.55 J	1 U	2.3	0.73	0.71 J
Chloride	MG/L	97.9	77%	GA	250	0	72	94											
Ethane	UG/L	1.1	5%				5	98	2 U	1 U	1 U	0.16 U	0.58 U	0.58 U	0.81 U	0.55 U	2 U	2 U	2 U
Ethene	UG/L	4.6	5%				5	98	2 U	1 U	1 U	0.17 U	0.69 U	0.69 U	0.73 U	0.5 U	2 U	2 U	2 U
Methane	UG/L	170	55%				54	98	2 U	2.4 J	3.5	0.14 U	5.4 J	4 J	0.45 U	0.8	2 U	2 U	2 U
Nitrate	MG/L	6.4	65%	GA	10	0	39	60			0.05 U	0.05 UJ	0.0152 U	0.018 J	0.033 J	0.85			
Nitrate Nitrogen	MG/L	1	45%				13	29	0.1	0.05 UJ							0.05 U	0.05 U	0.05 U
Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25		0.05 U			0.003 UJ						
Nitrite	MG/L	0.73	28%	GA	1	0	17	60			0.01 U	0.007 UJ	0.00321 U	0.022 J	0.01 U	0.013 J			
Nitrite Nitrogen	MG/L	0.087	3%				1	29	0.05 U	0.01 UJ							0.05 U	0.05 U	0.05 U
Sulfate	MG/L	182	100%	GA	250	0	94	94	25.3	24.8	39.7	35.3 J	32 J	26 J	28	25	18.1	18.4	18.4
Field Measurement - Hach Kit										0.718	0.59		0.427		0.555	0.502	0.423	0.464	0.701
Conductivity	S/m	1.26	100%				84	84											
Conductivity (post)	S/m	0.844	100%				3	3											
Conductivity (pre)	S/m	0.83	100%				3	3											
Dissolved Oxygen	MG/L	12.6	100%				80	80	5.22	2.02				1.77	0.16	10.97	4.22	4.23	4.23
Dissolved Oxygen (post)	MG/L	5.17	100%				3	3											
Dissolved Oxygen (pre)	MG/L	5.36	100%				3	3											
Nitrate Nitrogen	MG/L	0.5	100%				3	3											
Nitrite Nitrogen	MG/L	0.5	100%				3	3											
ORP	mV	259	100%				84	84	62.5	99		-72		-129	-90	192	107	138.8	138.8
ORP (post)	mV	197	100%				3	3											
ORP (pre)	mV	193	100%				3	3											
pH	Std units	7.81	100%				84	84	7.15	7.33		6.73		7.41	7.5	7.73	6.97	6.56	6.56
pH (post)	Std units	7.38	100%				3	3											
pH (pre)	Std units	7.38	100%				3	3											
Sulfide	MG/L	1.04	88%				66	75	0.45	0.01 U	0.12	0.01			0.03	0.02	0.1	0.28	0.28
Temperature	DEG C	26.55	100%				87	87	23.11	3.3		3.62		4.1	9.1	2.2	5	21.56	21.56
Turbidity	NTU	195	100%				84	84	3.38	1.3		2.8		2.74	2.57	4.81	1.09	195	195
Turbidity (post)	NTU	7.6	100%				2	2											
Turbidity (pre)	NTU	5.7	100%				1	1											

Notes:
1. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
ND = Non-detect

SA = Sample
DU = Duplicate

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25 MW25-10 GROUNDWATER 25LM20039		SEAD-25 MW25-10 GROUNDWATER 25LM20061		SEAD-25 MW25-10 GROUNDWATER 25LM20083		SEAD-25 MW25-10 GROUNDWATER 25LM20094		SEAD-25 MW25-10 GROUNDWATER 25LM20105		SEAD-25 MW25-10 GROUNDWATER 25LM20117		SEAD-25 MW25-13 GROUNDWATER 25LM20006		SEAD-25 MW25-13 GROUNDWATER 25LM20016		SEAD-25 MW25-13 GROUNDWATER 25LM20040		SEAD-25 MW25-13 GROUNDWATER 25LM20095		
										Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value
Volatile Organic Compounds																														
1,1,1-Trichloroethane	UG/L	0.62	2%	GA	5	0	2	101	1	U	0.32	U	0.2	UJ	0.2	U	0.5	UJ	0.37	U	1	U	1	U	1	U	1	U	0.2	U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	101	1	U	0.09	U	0.38	UJ	0.38	U	0.18	U	0.62	U	1	U	1	U	1	U	1	U	0.38	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	96	1	U	0.4	U	0.31	U	0.31	UJ	0.5	U	0.36	U	1	UJ	1	U	1	U	1	U	0.31	UJ
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	101	1	U	0.2	U	0.33	UJ	0.33	U	0.13	U	0.33	U	1	U	1	U	1	U	1	U	0.33	U
1,1-Dichloroethane	UG/L	3.5	10%	GA	5	0	10	101	1	U	0.14	U	0.21	UJ	0.21	U	0.25	U	0.38	U	1	U	1	U	1	U	1	U	0.21	U
1,1-Dichloroethane	UG/L	0	0%	GA	5	0	0	101	1	U	0.37	U	0.35	UJ	0.35	U	0.11	U	0.36	U	1	U	1	U	1	U	1	U	0.35	U
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	96	1	U	0.19	U	0.37	UJ	0.37	U	0.25	U	2.5	U	1	U	1	U	1	U	1	U	0.37	U
1,2,4-Trimethylbenzene	UG/L	0.45	7%	GA	5	0	2	30			0.19	UJ	0.19	U																
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	96	2	U	0.43	U	0.5	U	0.5	U	0.44	U	1.1	U	1	U	1	U	2	U	0.5	U		
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	101	1	U	0.18	U	0.22	UJ	0.22	U	0.25	U	0.44	U	1	U	1	U	1	U	0.22	U		
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	1	U	0.4	U	0.15	UJ	0.15	U	0.21	U	0.37	U	1	U	1	U	1	U	0.15	U		
1,2-Dichloroethane	UG/L	0.49	3%	GA	0.6	0	3	101	1	U	0.14	U	0.2	UJ	0.2	U	0.1	U	0.5	U	1	U	1	U	1	U	0.2	U		
1,2-Dichloroethane (total)	UG/L	15	15%	GA	5	2	3	20			0.21	UJ	0.21	UJ																
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	101	1	U	0.15	U	0.25	UJ	0.25	U	0.13	U	0.67	U	1	U	1	U	1	U	0.25	UJ		
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	30			0.2	UJ	0.2	U																
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	1	U	0.36	U	0.26	UJ	0.26	U	0.25	U	0.43	U	1	U	1	U	1	U	0.26	U		
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	1	U	0.34	U	0.24	UJ	0.24	U	0.28	U	0.46	U	1	U	1	U	1	U	0.24	U		
Acetone	UG/L	11	7%				7	101	10	UJ	5	U	2.2	U	2.2	U	5	U	7	U	5	U	7.8	UJ	10	UJ	2.2	U		
Benzene	UG/L	62	29%	GA	1	18	29	101	1	U	0.18	U	0.26	UJ	0.26	U	0.25	U	0.43	U	1	U	1	U	1	U	0.26	U		
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	101	1	U	0.17	U	0.33	UJ	0.33	U	0.25	UJ	0.44	U	1	U	1	U	1	U	0.33	U		
Bromoform	UG/L	0	0%	MCL	80	0	0	101	1	UJ	0.2	U	0.23	UJ	0.23	U	0.5	U	0.43	U	1	U	1	U	1	UJ	0.23	U		
Carbon disulfide	UG/L	0.61	2%				2	101	1	U	0.36	U	0.25	UJ	0.25	U	0.6	U	1	U	1	U	1	U	1	U	0.25	U		
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	101	1	U	0.36	U	0.22	UJ	0.22	U	0.5	UJ	0.33	U	1	U	1	U	1	U	0.22	U		
Chlorobenzene	UG/L	0	0%	GA	5	0	0	101	1	U	0.26	U	0.22	UJ	0.22	U	0.25	U	0.26	U	1	U	1	U	1	U	0.22	U		
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	101	1	U	0.11	U	0.3	UJ	0.3	U	0.1	U	0.32	U	1	U	1	U	1	U	0.3	U		
Chloroethane	UG/L	0.67	2%	GA	5	0	2	101	2	U	0.21	U	0.55	U	0.55	U	2	U	2.5	U	1	U	1	UJ	2	U	0.55	U		
Chloroform	UG/L	0.32	1%	GA	7	0	1	101	1	U	0.16	U	0.32	UJ	0.32	U	0.14	U	0.5	U	1	U	1	U	1	U	0.32	U		
Cis-1,2-Dichloroethane	UG/L	19	15%	GA	5	4	15	101	1	U	0.14	U	0.21	UJ	0.21	U	0.15	U	0.41	U	1	U	1	U	1	U	0.21	U		
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	101	1	U	0.14	U	0.19	UJ	0.19	UJ	0.11	U	0.4	U	1	U	1	U	1	U	0.19	UJ		
Cyclohexane	UG/L	8.6	11%				11	96	1	U	0.14	U	0.31	UJ	0.31	U	0.25	U	0.39	U	1	UJ	1	U	1	U	0.31	U		
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	76	1	UJ	0.18	U					0.25	U	0.6	UJ	1	U	1	U	1	UJ				
Diisopropyl Ether	UG/L	0	0%				0	20					0.21	U	0.21	U														
Ethyl benzene	UG/L	26	17%	GA	5	12	17	101	1	U	0.42	U	0.21	UJ	0.21	U	0.11	U	0.33	U	1	U	1	U	1	U	0.21	U		
Isopropylbenzene	UG/L	2.6	10%	GA	5	0	10	101	1	U	0.34	U	0.23	UJ	0.23	U	0.1	U	0.35	U	1	U	1	U	1	U	0.23	U		
Meta/Para Xylene	UG/L	19	11%	GA	5	4	7	61	1	U	0.81	U	0.59	UJ	0.59	U														
Methyl Acetate	UG/L	0	0%				0	96	10	U	0.48	U	0.53	U	0.53	U	0.19	U	1.8	U	1	U	1	U	10	U	0.53	U		
Methyl bromide	UG/L	0	0%	GA	5	0	0	101	2	U	0.4	U	0.49	U	0.49	UJ	2	U	2.5	UJ	1	U	1	U	2	U	0.49	UJ		
Methyl butyl ketone	UG/L	1.9	1%				1	101	5	U	0.4	U	1.7	U	1.7	U	1	U	2	U	5	U	5	U	5	U	1.7	U		
Methyl chloride	UG/L	0	0%	GA	5	0	0	101	2	U	0.18	U	0.36	U	0.36	UJ	0.33	U	0.4	U	1	U	1	U	2	U	0.36	UJ		
Methyl cyclohexane	UG/L	4.2	7%				7	96	1	U	0.16	U	0.3	U	0.3	U	0.1	U	0.43	U	1	U	1	U	1	U	0.3	U		
Methyl ethyl ketone	UG/L	9	11%				11	101	5	U	1	U	1.3	U	1.3	U	1	U	3.4	U	5	U	5	UJ	5	U	1.3	U		
Methyl isobutyl ketone	UG/L	0	0%				0	101	5	U	0.34	U	1.3	U	1.3	U	1	U	2.1	U	5	U	5	U	5	U	1.3	U		
Methyl Tertbutyl Ether	UG/L	0	0%				0	101	1	U	0.13	U	0.36	U	0.36	U	0.2	U	0.3	U	1	U	1	U	1	U	0.36	U		
Methylene chloride	UG/L	0	0%	GA	5	0	0	101	1	U	0.13	U	1.1	U	1.1	U	1	U	2.5	U	1	U	1	UJ	1	U	1.1	U		
Naphthalene	UG/L	0.23	4%				1	25					0.3	UJ	0.3	U														
n-Butylbenzene	UG/L	0	0%	GA	5	0	0	20					0.23	UJ	0.23	U														
Ortho Xylene	UG/L	6.4	8%	GA	5	3	5	61	1	U	0.4	U					0.25	UJ												
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10																						
Propylbenzene	UG/L	0	0%	GA	5	0	0	10																						
sec-Butylbenzene	UG/L	0	0%	GA	5	0	0	20					0.21	UJ	0.21	U														
Styrene	UG/L	0	0%	GA	5	0	0	101	1	U	0.36	U	0.23	UJ	0.23	U	0.11	U	0.27	U	1	U	1	U	1	U	0.23	U		
tert-Butylbenzene	UG/L	0	0%	GA	5	0	0	20					0.31	UJ	0.31	U														
Tetrachloroethene	UG/L	0	0%	GA	5	0	0	101	1	U	0.42	U	0.4	U	0.4	U	0.15	U	0.74	U	1	U	1	U	1	U	0.4	U		
Toluene	UG/L	14	12%	GA	5	5	12	101	1	U	0.21	U	0.27	UJ	0.27	U	0.33	U	0.48	U	1	U	1	U	1	U	0.27	U		
Total Xylenes	UG/L	62	12%	GA	5	3	7	60					0.25	UJ	0.25	U	0.2	U	0.23	U	3	U	3	U	3	U	0.25	U		
Trans-1,2-Dichloroethene	UG/L	0	0%	GA	5	0	0	101	1	U	0.16	U	0.25	U	0.25	U	0.2	U	0.37	U	1	U	1	U	1	U	0.25	U		
Trans-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	101	1	U	0.17	U	0.2	UJ	0.2	UJ	0.21	UJ	0.42	U	1	U	1	U	1	U	0.2	UJ		
Trichloroethene	UG/L	2	11%	GA	5	0	11	101	1	U	0.19	U	0.28	UJ	0.28	U	0.13	U	0.48	U	1	U	1	U	1	U	0.28	U		
Trichlorofluoromethane	UG/L	0	0%	GA	5	0	0	96																						

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
									25LM20039	25LM20061	25LM20083	25LM20094	25LM20105	25LM20117	25LM20006	25LM20016	25LM20040	25LM20095	
Parameter		Value							Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
Semivolatile Organic Compounds																			
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18											9 U
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18											9 U
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18											9 U
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18											9 U
2,4-Dimethylphenol	UG/L	0	0%				0	18											9 U
2,4-Dinitrophenol	UG/L	0	0%				0	18											47 U
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18											9 U
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18											9 U
2-Chloronaphthalene	UG/L	0	0%				0	18											9 U
2-Chlorophenol	UG/L	0	0%				0	18											9 U
2-Methylnaphthalene	UG/L	0	0%				0	18											9 U
2-Methylphenol	UG/L	0	0%				0	18											9 U
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18											47 U
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18											9 U
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18											19 U
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18											47 U
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18											47 U
4-Bromophenyl phenyl ether	UG/L	0	0%				0	18											9 U
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18											9 U
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18											9 U
4-Chlorophenyl phenyl ether	UG/L	0	0%				0	18											9 U
4-Methylphenol	UG/L	0	0%				0	18											9 U
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18											47 U
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18											47 U
Acenaphthene	UG/L	0.5	6%				1	18											9 U
Acenaphthylene	UG/L	2	22%				4	18											9 U
Acetophenone	UG/L	0	0%				0	18											9 U
Anthracene	UG/L	1	6%				1	18											9 U
Atrazine	UG/L	0	0%	GA	7.5	0	0	18											9 U
Benzaldehyde	UG/L	0	0%				0	18											47 U
Benzo(a)anthracene	UG/L	0	0%				0	18											9 U
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18											9 U
Benzo(b)fluoranthene	UG/L	0	0%				0	18											9 U
Benzo(ghi)perylene	UG/L	0.6	6%				1	18											9 U
Benzo(k)fluoranthene	UG/L	0	0%				0	18											9 U
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18											9 U
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18											9 U
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18											9 U
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18											9 U
Butylbenzylphthalate	UG/L	2	6%				1	18											9 U
Caprolactam	UG/L	0	0%				0	18											9 U
Carbazole	UG/L	0	0%				0	18											9 U
Chrysene	UG/L	0	0%				0	18											9 U
Dibenz(a,h)anthracene	UG/L	0	0%				0	18											9 U
Dibenzofuran	UG/L	0	0%				0	18											9 U
Diethyl phthalate	UG/L	0	0%				0	18											9 U
Dimethylphthalate	UG/L	0	0%				0	18											9 U
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18											9 U
Di-n-octylphthalate	UG/L	0	0%				0	18											9 U
Fluoranthene	UG/L	0	0%				0	18											9 U
Fluorene	UG/L	0	0%				0	18											9 U
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18											9 U
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18											9 U
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18											42 U
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18											9 U
Indeno(1,2,3-cd)pyrene	UG/L	0	0%				0	18											9 U
Isophorone	UG/L	0	0%				0	18											9 U
Naphthalene	UG/L	2	6%				1	18											9 U
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18											9 U
N-Nitroso-di-n-propylamine	UG/L	0	0%				0	18											9 U
N-Nitrosodiphenylamine	UG/L	0	0%				0	18											9 U
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18											47 U
Phenanthrene	UG/L	0	0%				0	18											9 U
Phenol	UG/L	0	0%	GA	1	0	0	18											9 U
Pyrene	UG/L	0	0%				0	18											9 U

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
										MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-10	MW25-13	MW25-13	MW25-13	MW25-13
GR	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
25LM20039	25LM20061	25LM20083	25LM20094	25LM20105	25LM20117	25LM20006	25LM20016	25LM20040	25LM20095	3/4/2008	1/13/2010	2/9/2011	2/28/2012	5/7/2013	3/17/2015	1/30/2006	8/9/2006	3/3/2008	2/28/2012
SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM
4	6	8	9	10	12	1	2	4	9	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Inorganics																			
Iron	UG/L	15,700	85%	GA	300	53	79	93	100 U	508		231 J	200 J	200	320 J				2,320 J
Sodium	UG/L	58,100	100%	GA	20,000	14	93	93	6,090	6,420		5,040	4,800 J	9,100	40,600				16,100
Wet Chemistry - MEE																			
Chloride	MG/L	97.9	77%	GA	250	0	72	94	0.2 U	2.1		0.45 J	1 U	2.1	2.5				0.54 J
Ethane	UG/L	1.1	5%				5	98	1 U	0.21 U		0.58 U	0.81 U	0.55 U	2 U				0.58 U
Ethene	UG/L	4.6	5%				5	98	1 U	0.22 U		0.69 U	0.73 U	0.5 U	2 U				0.69 U
Methane	UG/L	170	55%				54	98	2 U	0.14 U		1.2 J	0.45 U	0.54 J	2 U				1.2 J
Nitrate	MG/L	6.4	65%	GA	10	0	39	60		0.05 UJ		0.02 J	0.026 J	0.066					0.051
Nitrate Nitrogen	MG/L	1	45%				13	29	0.102 J						0.05 U				
Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25	0.102	0.003 UJ									
Nitrite	MG/L	0.73	28%	GA	1	0	17	60		0.007 UJ									0.015 J
Nitrite Nitrogen	MG/L	0.087	3%				1	29	0.01 UJ			0.015 J	0.01 U	0.01 U		0.05 U			
Sulfate	MG/L	182	100%	GA	250	0	94	94	12.9	27.1 J		14 J	14 J	4.2	15.6				18 J
Field Measurement - Hach Kit																			
Conductivity	S/m	1.26	100%				84	84	0.473	0.396				0.365	0.492	0.699	0.639		
Conductivity (post)	S/m	0.844	100%				3	3											
Conductivity (pre)	S/m	0.83	100%				3	3											
Dissolved Oxygen	MG/L	12.6	100%				80	80	3.65					12.6	0.94	4.1	4.79		
Dissolved Oxygen (post)	MG/L	5.17	100%				3	3											
Dissolved Oxygen (pre)	MG/L	5.36	100%				3	3											
Nitrate Nitrogen	MG/L	0.5	100%				3	3											
Nitrite Nitrogen	MG/L	0.5	100%				3	3											
ORP	mV	259	100%				84	84	130	230				165	38	-22.2	97		
ORP (post)	mV	197	100%				3	3											
ORP (pre)	mV	193	100%				3	3											
pH	Std units	7.81	100%				84	84	7.31	7.19				7.64	7.27	6.98	7.52		
pH (post)	Std units	7.38	100%				3	3											
pH (pre)	Std units	7.38	100%				3	3											
Sulfide	MG/L	1.04	88%				66	75	0.02	0.09			0.01	0.01	0.02			0.01 U	
Temperature	DEG C	26.55	100%				87	87	3.6	5.6				2.7	3.8	23.42	3		
Turbidity	NTU	195	100%				84	84	2.36	3.3				3.66	21	100	16.4		
Turbidity (post)	NTU	7.6	100%				2	2											
Turbidity (pre)	NTU	5.7	100%				1	1											

Notes:
1. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
ND = Non-detect

SA = Sample
DU = Duplicate

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	GR	SEAD-25 MW25-15 GROUNDWATER 25LM20007		SEAD-25 MW25-15 GROUNDWATER 25LM20017		SEAD-25 MW25-15 GROUNDWATER 25LM20041		SEAD-25 MW25-15 GROUNDWATER 25LM20052		SEAD-25 MW25-15 GROUNDWATER 25LM20063		SEAD-25 MW25-15 GROUNDWATER 25LM20085		SEAD-25 MW25-15 GROUNDWATER 25LM20096		SEAD-25 MW25-15 GROUNDWATER 25LM20107		SEAD-25 MW25-17 GROUNDWATER 25LM20008		SEAD-25 MW25-17 GROUNDWATER 25LM20018										
		1/31/2006	8/14/2006	3/3/2008	4/29/2009	1/13/2010	2/9/2011	2/28/2012	5/7/2013	1/30/2006	8/11/2006	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA									
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual								
Volatile Organic Compounds																														
1,1,1-Trichloroethane	UG/L	0.62	2%	GA	5	0	2	101	1	U	1	U	1	U	1	U	0.32	U	0.2	UJ	0.2	U	0.5	UJ	1	U	1	U		
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	101	1	U	1	U	1	U	1	U	0.09	U	0.38	UJ	0.38	U	0.18	U	1	U	1	U		
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	96	1	U	1	U	1	U	1	U	0.4	U	0.31	U	0.31	UJ	0.5	U	1	UJ	1	U		
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	101	1	U	1	U	1	U	1	U	0.2	U	0.33	UJ	0.33	U	0.13	U	1	U	1	U		
1,1-Dichloroethane	UG/L	3.5	10%	GA	5	0	10	101	1	U	1	U	1	U	1	U	0.14	U	0.21	UJ	0.21	U	0.25	U	1	U	1	U		
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	101	1	U	1	U	1	U	1	U	0.37	U	0.35	UJ	0.35	U	0.11	U	1	U	1	U		
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	96	1	U	1	U	1	U	1	U	0.19	U	0.37	UJ	0.37	U	0.25	U	1	U	1	U		
1,2,4-Trimethylbenzene	UG/L	0.45	7%	GA	5	0	2	30											0.19	UJ	0.19	U								
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	96	1	U	1	U	2	U	2	U	0.43	U	0.5	U	0.5	U	0.44	U	1	U	1	U		
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	101	1	U	1	U	1	U	1	U	0.18	U	0.22	UJ	0.22	U	0.25	U	1	U	1	U		
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	1	U	1	U	1	U	1	U	0.4	U	0.15	UJ	0.15	U	0.21	U	1	U	1	U		
1,2-Dichloroethane	UG/L	0.49	3%	GA	0.6	0	3	101	1	U	1	U	1	U	1	U	0.14	U	0.2	UJ	0.2	U	0.1	U	1	U	1	U		
1,2-Dichloroethene (total)	UG/L	15	15%	GA	5	2	3	20											0.21	UJ	0.21	UJ								
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	101	1	U	1	U	1	U	1	U	0.15	U	0.25	UJ	0.25	U	0.13	U	1	U	1	U		
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	30											0.2	UJ	0.2	U								
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	1	U	1	U	1	U	1	U	0.36	U	0.26	UJ	0.26	U	0.25	U	1	U	1	U		
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	1	U	1	U	1	U	1	U	0.34	U	0.24	UJ	0.24	U	0.28	U	1	U	1	U		
Acetone	UG/L	11	7%				7	101	5	U	12	UJ	10	UJ	5	U	2.2	U	2.2	U	2.2	U	5	U	5	U	5	U		
Benzene	UG/L	62	29%	GA	1	18	29	101	1	U	1	U	1	U	1	U	0.18	U	0.26	UJ	0.26	U	0.25	U	1	U	1	U		
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	101	1	U	1	U	1	U	1	U	0.17	U	0.33	UJ	0.33	U	0.25	UJ	1	U	1	U		
Bromoform	UG/L	0	0%	MCL	80	0	0	101	1	U	1	U	1	UJ	1.2	U	0.2	U	0.23	UJ	0.23	U	0.5	U	1	U	1	U		
Carbon disulfide	UG/L	0.61	2%				2	101	1	U	1	U	1	U	1	U	0.36	U	0.25	U	0.25	U	0.6	U	1	U	1	U		
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	101	1	U	1	U	1	U	1	U	0.36	U	0.22	UJ	0.22	U	0.5	UJ	1	U	1	U		
Chlorobenzene	UG/L	0	0%	GA	5	0	0	101	1	U	1	U	1	U	1	U	0.26	U	0.22	UJ	0.22	U	0.25	U	1	U	1	U		
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	101	1	U	1	U	1	U	1	U	0.11	U	0.33	UJ	0.3	U	0.1	U	1	U	1	U		
Chloroethane	UG/L	0.67	2%	GA	5	0	2	101	1	U	1	U	2	U	1	U	0.21	U	0.55	U	0.55	U	2	U	1	U	1	U		
Chloroform	UG/L	0.32	1%	GA	7	0	1	101	1	U	1	U	1	U	1	U	0.16	U	0.32	UJ	0.32	U	0.14	U	1	U	1	U		
Cis-1,2-Dichloroethene	UG/L	19	15%	GA	5	4	15	101	1	U	1	U	1	U	1	U	0.14	U	0.21	UJ	0.21	U	0.15	U	1	U	1	U		
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	101	1	U	1	U	1	U	1	U	0.14	U	0.19	UJ	0.19	UJ	0.11	U	1	U	1	U		
Cyclohexane	UG/L	8.6	11%				11	96	1	U	1	U	1	U	1	U	0.14	U	0.31	UJ	0.31	U	0.25	U	1	UJ	1	U		
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	76	1	UJ	1	U	1	UJ	1	U	0.18	U				0.25	U	1	U	1	U	1	U	
Diisopropyl Ether	UG/L	0	0%				0	20											0.21	U	0.21	U								
Ethyl benzene	UG/L	26	17%	GA	5	12	17	101	1	U	1	U	1	U	1	U	0.42	U	0.21	UJ	0.21	U	0.11	U	1	U	1	U		
Isopropylbenzene	UG/L	2.6	10%	GA	5	0	10	101	1	U	1	U	1	U	1	U	0.34	U	0.23	UJ	0.23	U	0.1	U	1	U	1	U		
Meta/Para Xylene	UG/L	19	11%	GA	5	4	7	61											0.81	U	0.59	UJ	0.59	U						
Methyl Acetate	UG/L	0	0%				0	96	1	U	1	U	10	U	2	U	0.48	U	0.53	U	0.53	U	0.19	U	1	U	1	U		
Methyl bromide	UG/L	0	0%	GA	5	0	0	101	1	U	1	UJ	2	U	1	UJ	0.4	U	0.49	U	0.49	UJ	2	U	1	U	1	UJ		
Methyl butyl ketone	UG/L	1.9	1%				1	101	5	U	5	U	5	U	5	U	0.4	U	1.7	U	1.7	U	1	U	5	U	5	U		
Methyl chloride	UG/L	0	0%	GA	5	0	0	101	1	U	1	U	2	U	1	U	0.18	U	0.36	U	0.36	UJ	0.33	U	1	U	1	U		
Methyl cyclohexane	UG/L	4.2	7%				7	96	1	U	1	U	1	U	1	U	0.16	U	0.3	U	0.3	U	0.1	U	1	U	1	U		
Methyl ethyl ketone	UG/L	9	11%				11	101	5	U	5	U	5	U	5	U	1	U	1.3	U	1.3	U	1	U	5	U	5	U		
Methyl isobutyl ketone	UG/L	0	0%				0	101	5	U	5	U	5	U	5	U	0.34	U	1.3	U	1.3	U	1	U	5	U	5	U		
Methyl Tertbutyl Ether	UG/L	0	0%				0	101	1	U	1	U	1	U	1	U	0.13	U	0.36	U	0.36	U	0.2	U	1	U	1	U		
Methylene chloride	UG/L	0	0%	GA	5	0	0	101	1	U	1	U	1	U	1	U	0.13	U	1.1	U	1.1	U	1	U	1	U	1	U		
Naphthalene	UG/L	0.23	4%				1	25											0.3	UJ	0.3	U								
n-Butylbenzene	UG/L	0	0%	GA	5	0	0	20											0.23	UJ	0.23	U								
Ortho Xylene	UG/L	6.4	8%	GA	5	3	5	61				1	U	1	U	0.4	U													
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10																					1	U
Propylbenzene	UG/L	0	0%	GA	5	0	0	10																					1	U
sec-Butylbenzene	UG/L	0	0%	GA	5	0	0	20												0.21	UJ	0.21	U							
Styrene	UG/L	0	0%	GA	5	0	0	101	1	U	1	U	1	U	1	U	0.36	U	0.23	UJ	0.23	U	0.11	U	1	U	1	U		
tert-Butylbenzene	UG/L	0																												

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
										MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-15	MW25-17	MW25-17	
				GR	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
				25LM20007	25LM20017	25LM20041	25LM20052	25LM20063	25LM20085	25LM20096	25LM20107	25LM20008	25LM20018						
				1/31/2006	8/14/2006	3/3/2008	4/29/2009	1/13/2010	2/9/2011	2/28/2012	5/7/2013	1/30/2006	8/11/2006						
				SA	SA	SA	SA	SA	SA	SA	SA	SA	SA						
				LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM						
				1	2	4	5	6	8	9	10	1	2						
				Total	Total	Total	Total	Total	Total	Total	Total	Total	Total						
				Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Inorganics																			
Iron	UG/L	15,700	85%	GA	300	53	79	93	56 J	850	100 U	30 J	769	3,840 J	530	46.1	8.8 U		
Sodium	UG/L	58,100	100%	GA	20,000	14	93	93	3,080	6,630 J	6,340	3,500	3,620	3,130	2,800	4,240	5,170 J		
Wet Chemistry - MEE																			
Chloride	MG/L	97.9	77%	GA	250	0	72	94	0.66	1.4 J	0.2 U	0.2 U	0.5 U	0.56 J	1 U	0.7	1.4 J		
Ethane	UG/L	1.1	5%				5	98	2 U	2 U	1 U	1 U	0.16 U	0.58 U	0.58 U	0.81 U	2 U	2 U	
Ethene	UG/L	4.6	5%				5	98	2 U	2 U	1 U	1 U	0.17 U	0.69 U	0.69 U	0.73 U	2 U	2 U	
Methane	UG/L	170	55%				54	98	2 U	2 U	2 U	2 U	0.14 U	2.1 J	1.2 J	0.45 U	2 U	2 U	
Nitrate	MG/L	6.4	65%	GA	10	0	39	60	0.05 U	0.05 U	0.16 J	0.05 U	0.05 UJ	0.018 J	0.019 J	0.05 U	0.11		
Nitrate Nitrogen	MG/L	1	45%				13	29			0.16 J					0.05 U	0.11		
Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25			0.16		0.003 UJ						
Nitrite	MG/L	0.73	28%	GA	1	0	17	60				0.01 U	0.007 UJ		0.02 J	0.01 U			
Nitrite Nitrogen	MG/L	0.087	3%				1	29	0.05 U	0.087	0.01 UJ					0.05 U	0.05 U		
Sulfate	MG/L	182	100%	GA	250	0	94	94	14.4	17.9	13.3	20.3	24.8 J	14 J	9.5	17.2	16.3		
Field Measurement - Hach Kit																			
Conductivity	S/m	1.26	100%				84	84	0.36	0.651	0.477		0.38	0.419		0.462	0.593		
Conductivity (post)	S/m	0.844	100%				3	3											
Conductivity (pre)	S/m	0.83	100%				3	3											
Dissolved Oxygen	MG/L	12.6	100%				80	80	2.93	1.99	4.57			1.55		8.46	5.31		
Dissolved Oxygen (post)	MG/L	5.17	100%				3	3											
Dissolved Oxygen (pre)	MG/L	5.36	100%				3	3											
Nitrate Nitrogen	MG/L	0.5	100%				3	3											
Nitrite Nitrogen	MG/L	0.5	100%				3	3											
ORP	mV	259	100%				84	84	82	222.1	139		213	97		68	157		
ORP (post)	mV	197	100%				3	3											
ORP (pre)	mV	193	100%				3	3											
pH	Std units	7.81	100%				84	84	7.2	5.8	7.25		7.23	7		7.69	6.72		
pH (post)	Std units	7.38	100%				3	3											
pH (pre)	Std units	7.38	100%				3	3											
Sulfide	MG/L	1.04	88%				66	75	0.01 U	0.8	0.01 U	0.01 U	0.17	0.05	0.05	0.01	0.01 U		
Temperature	DEG C	26.55	100%				87	87	5.3	18.76	4.7		6.1	5.1		6.3	18.27		
Turbidity	NTU	195	100%				84	84	1.1	27.4	3.58		1.5	4.2		3.4	1.7		
Turbidity (post)	NTU	7.6	100%				2	2											
Turbidity (pre)	NTU	5.7	100%				1	1											

Notes:
1. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
ND = Non-detect

SA = Sample
DU = Duplicate

Appendix D
 SEAD-25 Historic Groundwater Analytical Results
 2015 Annual Long-Term Monitoring Report for SEAD-25
 Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25 MW25-17	SEAD-25 MW25-17	SEAD-25 MW25-17	SEAD-25 MW25-17	SEAD-25 MW25-17	SEAD-25 MW25-17	SEAD-25 MW25-17	SEAD-25 MW25-17	SEAD-25 MW25-17	SEAD-25 MW25-17		
									GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
									25LM20024	25LM20028	25LM20032	25LM20033	25LM20043	25LM20055	25LM20065	25LM20076	25LM20088	25LM20098		
									6/7/2007	6/7/2007	3/4/2008	3/4/2008	4/28/2009	1/14/2010	8/5/2010	2/10/2011	2/28/2012	5/8/2013		
									DU	SA	DU	SA	SA	SA	SA	SA	SA	SA		
									LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM		
									3	3	4	4	5	6	7	8	9	10		
									Total	Total	Total	Total	Total	Total	Total	Total	Total	Total		
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Semivolatile Organic Compounds																				
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18												
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18												
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18												
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18												
2,4-Dimethylphenol	UG/L	0	0%					18												
2,4-Dinitrophenol	UG/L	0	0%					18												
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18												
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18												
2-Chloronaphthalene	UG/L	0	0%					18												
2-Chlorophenol	UG/L	0	0%					18												
2-Methylnaphthalene	UG/L	0	0%					18												
2-Methylphenol	UG/L	0	0%					18												
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18												
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18												
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18												
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18												
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18												
4-Bromophenyl phenyl ether	UG/L	0	0%					18												
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18												
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18												
4-Chlorophenyl phenyl ether	UG/L	0	0%					18												
4-Methylphenol	UG/L	0	0%					18												
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18												
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18												
Acenaphthene	UG/L	0.5	6%					18												
Acenaphthylene	UG/L	2	22%				4	18												
Acetophenone	UG/L	0	0%					18												
Anthracene	UG/L	1	6%					18												
Atrazine	UG/L	0	0%	GA	7.5	0	0	18												
Benzaldehyde	UG/L	0	0%					18												
Benzo(a)anthracene	UG/L	0	0%					18												
Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18												
Benzo(b)fluoranthene	UG/L	0	0%					18												
Benzo(ghi)perylene	UG/L	0.6	6%					18												
Benzo(k)fluoranthene	UG/L	0	0%					18												
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18												
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18												
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18												
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18												
Butylbenzylphthalate	UG/L	2	6%					18												
Caprolactam	UG/L	0	0%					18												
Carbazole	UG/L	0	0%					18												
Chrysene	UG/L	0	0%					18												
Dibenz(a,h)anthracene	UG/L	0	0%					18												
Dibenzofuran	UG/L	0	0%					18												
Diethyl phthalate	UG/L	0	0%					18												
Dimethylphthalate	UG/L	0	0%					18												
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18												
Di-n-octylphthalate	UG/L	0	0%					18												
Fluoranthene	UG/L	0	0%					18												
Fluorene	UG/L	0	0%					18												
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18												
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18												
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18												
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18												
Indeno(1,2,3-cd)pyrene	UG/L	0	0%					18												
Isophorone	UG/L	0	0%					18												
Naphthalene	UG/L	2	6%					18												
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18												
N-Nitroso-di-n-propylamine	UG/L	0	0%					18												
N-Nitrosodiphenylamine	UG/L	0	0%					18												
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18												
Phenanthrene	UG/L	0	0%					18												
Phenol	UG/L	0	0%	GA	1	0	0	18												
Pyrene	UG/L	0	0%					18												

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25 MW25-17 GROUNDWATER 25LM20024		SEAD-25 MW25-17 GROUNDWATER 25LM20028		SEAD-25 MW25-17 GROUNDWATER 25LM20032		SEAD-25 MW25-17 GROUNDWATER 25LM20033		SEAD-25 MW25-17 GROUNDWATER 25LM20043		SEAD-25 MW25-17 GROUNDWATER 25LM20055		SEAD-25 MW25-17 GROUNDWATER 25LM20065		SEAD-25 MW25-17 GROUNDWATER 25LM20076		SEAD-25 MW25-17 GROUNDWATER 25LM20088		SEAD-25 MW25-17 GROUNDWATER 25LM20098		
										Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value
	Inorganics																													
	Iron	UG/L	15,700	85%	GA	300	53	79	93	390 J	490 J	100 U	100 U	160	86.9 J	56.4 J	15.9 J	22.4 J	50 U											
	Sodium	UG/L	58,100	100%	GA	20,000	14	93	93	7,700 J	9,300 J	4,690	4,410	4,700	4,450	5,650	4,470	4,370	5,500 J											
	Wet Chemistry - MEE																													
	Chloride	MG/L	97.9	77%	GA	250	0	72	94	3.5	3.7	0.2 U	0.2 U	0.2 U	2.5	5.3	2.3	0.47 J	1 U											
	Ethane	UG/L	1.1	5%				5	98	0.21	0.25	1 U	1 U	1 U	0.21 U	0.16 U	0.58 U	0.58 U	0.81 U											
	Ethene	UG/L	4.6	5%				5	98	1.2	1.4	1 U	1 U	1 U	0.22 U	0.17 U	0.69 U	0.69 U	0.73 U											
	Methane	UG/L	170	55%				54	98	6.1	7	2 U	2 U	2 U	0.14 U	0.14 U	0.98 J	0.93 J	0.45 U											
	Nitrate	MG/L	6.4	65%	GA	10	0	39	60	6.4 J	0.48 J			0.05 U	0.245 J															
	Nitrate Nitrogen	MG/L	1	45%				13	29			0.798 J	1 J																	
	Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25			0.798	1		0.245 J	0.484 J														
	Nitrite	MG/L	0.73	28%	GA	1	0	17	60	0.73 J	0.5 UJ			0.01 U	0.007 UJ															
	Nitrite Nitrogen	MG/L	0.087	3%				1	29			0.01 UJ	0.01 UJ																	
	Sulfate	MG/L	182	100%	GA	250	0	94	94	19	18	19.6	19.1	17.3	16.7 J	21.7	16 J	11 J	18 J											
	Field Measurement - Hach Kit																													
	Conductivity	S/m	1.26	100%				84	84	0.418	0.418	0.532	0.532	0.379	0.418	0.584														
	Conductivity (post)	S/m	0.844	100%				3	3								0.599													
	Conductivity (pre)	S/m	0.83	100%				3	3								0.547													
	Dissolved Oxygen	MG/L	12.6	100%				80	80	0.31	0.31	8.24	8.24	7.45	6.79	4.1														
	Dissolved Oxygen (post)	MG/L	5.17	100%				3	3								5.17													
	Dissolved Oxygen (pre)	MG/L	5.36	100%				3	3								5.36													
	Nitrate Nitrogen	MG/L	0.5	100%				3	3								0.1													
	Nitrite Nitrogen	MG/L	0.5	100%				3	3								0.004													
	ORP	mV	259	100%				84	84	134	134	155	155	192	211	61														
	ORP (post)	mV	197	100%				3	3								192													
	ORP (pre)	mV	193	100%				3	3								193													
	pH	Std units	7.81	100%				84	84	7.2	7.2	7.3	7.3	7.31	7.29	7.25														
	pH (post)	Std units	7.38	100%				3	3								7.38													
	pH (pre)	Std units	7.38	100%				3	3								7.38													
	Sulfide	MG/L	1.04	88%				66	75	0.06	0.06	0.01	0.01	0.01 U	0	0	0	0	0.01											
	Temperature	DEG C	26.55	100%				87	87	13.2	13.2	6	6	7.2	8.1	17.6	6.4	6.5	7.4											
	Turbidity	NTU	195	100%				84	84	12	12	2.03	2.03	1.2	1.4	2.45														
	Turbidity (post)	NTU	7.6	100%				2	2								0													
	Turbidity (pre)	NTU	5.7	100%				1	1								0													

Notes:
1. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
ND = Non-detect

SA = Sample
DU = Duplicate

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25 MW25-17 GROUNDWATER 25LM20108		SEAD-25 MW25-17 GROUNDWATER 25LM20111		SEAD-25 MW25-17 GROUNDWATER 25LM20112		SEAD-25 MW25-18 GROUNDWATER 25LM20009		SEAD-25 MW25-18 GROUNDWATER 25LM20019		SEAD-25 MW25-18 GROUNDWATER 25LM20029		SEAD-25 MW25-18 GROUNDWATER 25LM20034		SEAD-25 MW25-18 GROUNDWATER 25LM20044		SEAD-25 MW25-18 GROUNDWATER 25LM20056		SEAD-25 MW25-18 GROUNDWATER 25LM20066				
										Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value
	Volatile Organic Compounds																															
	1,1,1-Trichloroethane	UG/L	0.62	2%	GA	5	0	2	101	0.5 U	0.5 U	0.37 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	101	0.18 U	0.18 U	0.62 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.09 U	0.09 U	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	96	0.5 U	0.5 U	0.36 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	0.4 U	
	1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	101	0.13 U	0.13 U	0.33 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	
	1,1-Dichloroethane	UG/L	3.5	10%	GA	5	0	10	101	0.25 U	0.25 U	0.38 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.14 U	0.14 U	
	1,1-Dichloroethane	UG/L	0	0%	GA	5	0	0	101	0.11 U	0.11 U	0.36 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	
	1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	96	0.25 U	0.25 U	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.19 U	0.19 U	
	1,2,4-Trimethylbenzene	UG/L	0.45	7%	GA	5	0	2	30																							
	1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	96	0.44 U	0.44 U	1.1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.43 U	0.43 U	
	1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	101	0.25 U	0.25 U	0.44 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.18 U	
	1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	0.21 U	0.21 U	0.37 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	0.4 U	
	1,2-Dichloroethane	UG/L	0.49	3%	GA	0.6	0	3	101	0.1 U	0.1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.14 U	0.14 U	
	1,2-Dichloroethane (total)	UG/L	15	15%	GA	5	2	3	20																							
	1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	101	0.13 U	0.13 U	0.67 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.15 U	0.15 U	
	1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	30																							
	1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	0.25 U	0.25 U	0.43 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	
	1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	0.28 U	0.28 U	0.46 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	
	Acetone	UG/L	11	7%				7	101	5 U	5 U	7 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.6 U	1.6 U	
	Benzene	UG/L	62	29%	GA	1	18	29	101	0.25 U	0.25 U	0.43 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.18 U	
	Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	101	0.25 U	0.25 U	0.44 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.17 U	0.17 U	
	Bromoform	UG/L	0	0%	MCL	80	0	0	101	0.5 U	0.5 U	0.43 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	
	Carbon disulfide	UG/L	0.61	2%				2	101	0.6 U	0.6 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	
	Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	101	0.5 U	0.5 U	0.33 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	
	Chlorobenzene	UG/L	0	0%	GA	5	0	0	101	0.25 U	0.25 U	0.26 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	
	Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	101	0.1 U	0.1 U	0.32 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.11 U	0.11 U	
	Chloroethane	UG/L	0.67	2%	GA	5	0	2	101	2 U	2 U	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	
	Chloroform	UG/L	0.32	1%	GA	7	0	1	101	0.14 U	0.14 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.16 U	0.16 U	
	Cis-1,2-Dichloroethene	UG/L	19	15%	GA	5	4	15	101	0.15 U	0.15 U	0.41 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.14 U	0.14 U	
	Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	101	0.11 U	0.11 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.14 U	0.14 U	
	Cyclohexane	UG/L	8.6	11%				11	96	0.25 U	0.25 U	0.39 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.14 U	0.14 U	
	Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	76	0.25 U	0.25 U	0.6 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.18 U	
	Diisopropyl Ether	UG/L	0	0%				0	20																							
	Ethyl benzene	UG/L	26	17%	GA	5	12	17	101	0.11 U	0.11 U	0.33 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.42 U	
	Isopropylbenzene	UG/L	2.6	10%	GA	5	0	10	101	0.1 U	0.1 U	0.35 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	
	Meta/Para Xylene	UG/L	19	11%	GA	5	4	7	61																							
	Methyl Acetate	UG/L	0	0%				0	96	0.19 U	0.19 U	1.8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.48 U	0.48 U	
	Methyl bromide	UG/L	0	0%	GA	5	0	0	101	2 U	2 U	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	0.4 U	
	Methyl butyl ketone	UG/L	1.9	1%				1	101	1 U	1 U	2 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	0.4 U	
	Methyl chloride	UG/L	0	0%	GA	5	0	0	101	0.33 U	0.33 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.18 U	
	Methyl cyclohexane	UG/L	4.2	7%				7	96	0.1 U	0.1 U	0.43 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.16 U	0.16 U	
	Methyl ethyl ketone	UG/L	9	11%				11	101	1 U	1 U	3.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	
	Methyl isobutyl ketone	UG/L	0	0%				0	101	1 U	1 U	2.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.34 U	0.34 U	
	Methyl Tertbutyl Ether	UG/L	0	0%				0	101	0.2 U	0.2 U	0.3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.13 U	0.13 U	
	Methylene chloride	UG/L	0	0%	GA	5																										

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-25 MW25-17 GROUNDWATER 25LM20108		SEAD-25 MW25-17 GROUNDWATER 25LM20111		SEAD-25 MW25-17 GROUNDWATER 25LM20112		SEAD-25 MW25-18 GROUNDWATER 25LM20009		SEAD-25 MW25-18 GROUNDWATER 25LM20019		SEAD-25 MW25-18 GROUNDWATER 25LM20029		SEAD-25 MW25-18 GROUNDWATER 25LM20034		SEAD-25 MW25-18 GROUNDWATER 25LM20044		SEAD-25 MW25-18 GROUNDWATER 25LM20056		SEAD-25 MW25-18 GROUNDWATER 25LM20066										
										Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	
	Semivolatile Organic Compounds																																					
	1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18					10 U		10 U																						
	2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18					10 U		10 U																						
	2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18					10 U		10 U																						
	2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18					10 U		10 U																						
	2,4-Dimethylphenol	UG/L	0	0%					18					10 U		10 U																						
	2,4-Dinitrophenol	UG/L	0	0%					18					48 U		48 UJ																						
	2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18					10 U		10 U																						
	2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18					10 U		10 U																						
	2-Chloronaphthalene	UG/L	0	0%					18					10 U		10 U																						
	2-Chlorophenol	UG/L	0	0%					18					10 U		10 U																						
	2-Methylnaphthalene	UG/L	0	0%					18					10 U		10 U																						
	2-Methylphenol	UG/L	0	0%					18					10 U		10 U																						
	2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					48 U		48 U																						
	2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18					10 U		10 U																						
	3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18					19 U		19 U																						
	3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					48 U		48 U																						
	4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18					48 U		48 U																						
	4-Bromophenyl phenyl ether	UG/L	0	0%					18					10 U		10 U																						
	4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18					10 U		10 U																						
	4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18					10 U		10 U																						
	4-Chlorophenyl phenyl ether	UG/L	0	0%					18					10 U		10 U																						
	4-Methylphenol	UG/L	0	0%					18					10 U		10 U																						
	4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18					48 U		48 U																						
	4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18					48 UJ		48 U																						
	Acenaphthene	UG/L	0.5	6%					18					10 U		10 U																						
	Acenaphthylene	UG/L	2	22%					18					10 U		10 U																						
	Acetophenone	UG/L	0	0%					18					10 U		10 U																						
	Anthracene	UG/L	1	6%					18					10 U		10 U																						
	Atrazine	UG/L	0	0%	GA	7.5	0	0	18					10 U		10 U																						
	Benzaldehyde	UG/L	0	0%					18					48 U		48 U																						
	Benzo(a)anthracene	UG/L	0	0%					18					10 U		10 U																						
	Benzo(a)pyrene	UG/L	0	0%	GA	0	0	0	18					10 U		10 U																						
	Benzo(b)fluoranthene	UG/L	0	0%					18					10 U		10 U																						
	Benzo(ghi)perylene	UG/L	0.6	6%					18					10 U		10 U																						
	Benzo(k)fluoranthene	UG/L	0	0%					18					10 U		10 U																						
	Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18					10 U		10 U																						
	Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18					10 U		10 U																						
	Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18					10 U		10 U																						
	Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18					10 U		11																						
	Butylbenzylphthalate	UG/L	2	6%					18					10 U		2 J																						
	Caprolactam	UG/L	0	0%					18					10 U		10 U																						
	Carbazole	UG/L	0	0%					18					10 U		10 U																						
	Chrysene	UG/L	0	0%					18					10 U		10 U																						
	Dibenz(a,h)anthracene	UG/L	0	0%					18					10 U		10 U																						
	Dibenzofuran	UG/L	0	0%					18					10 U		10 U																						
	Diethyl phthalate	UG/L	0	0%					18					10 U		10 U																						
	Dimethylphthalate	UG/L	0	0%					18					10 U		10 U																						
	Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18					10 U		10 U																						
	Di-n-octylphthalate	UG/L	0	0%					18					10 U		10 UJ																						
	Fluoranthene	UG/L	0	0%					18																													

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area	Loc ID	Matrix	SEAD-25 MW25-17	SEAD-25 MW25-17	SEAD-25 MW25-17	SEAD-25 MW25-18	SEAD-25 MW25-18	SEAD-25 MW25-18	SEAD-25 MW25-18	SEAD-25 MW25-18	SEAD-25 MW25-18	SEAD-25 MW25-18	SEAD-25 MW25-18							
Sample ID	Sample Date	QC Type	Study ID	Sample Round	Filtered	GR	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER							
Sample ID	Sample Date	QC Type	Study ID	Sample Round	Filtered		25LM20108	25LM20111	25LM20112	25LM20009	25LM20019	25LM20029	25LM20034							
Sample ID	Sample Date	QC Type	Study ID	Sample Round	Filtered		6/18/2014	6/18/2014	3/17/2015	1/30/2006	8/14/2006	6/6/2007	3/5/2008							
Sample ID	Sample Date	QC Type	Study ID	Sample Round	Filtered		SA	DU	SA	SA	SA	SA	SA							
Sample ID	Sample Date	QC Type	Study ID	Sample Round	Filtered		LTM	LTM	LTM	LTM	LTM	LTM	LTM							
Sample ID	Sample Date	QC Type	Study ID	Sample Round	Filtered		11	11	12	1	2	3	4							
Sample ID	Sample Date	QC Type	Study ID	Sample Round	Filtered		Total	Total	Total	Total	Total	Total	Total							
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual		
Inorganics																				
Iron	UG/L	15,700	85%	GA	300	53	79	93	50	U	50	U	50	U	462	J	357	500	J	
Sodium	UG/L	58,100	100%	GA	20,000	14	93	93	7,500	J	4,900	J	5,200	J	22,300	J	41,900	J	37,000	J
Wet Chemistry - MEE																				
Chloride	MG/L	97.9	77%	GA	250	0	72	94	0.59		0.59		1.2		18.6		55.6		59	
Ethane	UG/L	1.1	5%				5	98	0.55	U	0.55	U	0.55	U	2	U	2	U	0.024	J
Ethene	UG/L	4.6	5%				5	98	0.5	U	0.5	U	0.5	U	2	U	2	U	1	U
Methane	UG/L	170	55%				54	98	0.35	J	0.29	U	0.96		2	U	2	U	2	U
Nitrate	MG/L	6.4	65%	GA	10	0	39	60	0.17		0.17		0.24		1.5	J			0.05	U
Nitrate Nitrogen	MG/L	1	45%				13	29							0.05	U	0.32		0.199	J
Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25											0.199	
Nitrite	MG/L	0.73	28%	GA	1	0	17	60	0.01	U	0.01	U	0.01	U					0.01	U
Nitrite Nitrogen	MG/L	0.087	3%				1	29							0.05	U	0.05	U	0.01	UJ
Sulfate	MG/L	182	100%	GA	250	0	94	94	14		14		16		24.8		30.1		31	
Field Measurement - Hach Kit																				
Conductivity	S/m	1.26	100%				84	84					0.52		0.494		0.858		0.54	
Conductivity (post)	S/m	0.844	100%				3	3												
Conductivity (pre)	S/m	0.83	100%				3	3												
Dissolved Oxygen	MG/L	12.6	100%				80	80					5.59		3.99		6.21		0.96	
Dissolved Oxygen (post)	MG/L	5.17	100%				3	3												
Dissolved Oxygen (pre)	MG/L	5.36	100%				3	3												
Nitrate Nitrogen	MG/L	0.5	100%				3	3												
Nitrite Nitrogen	MG/L	0.5	100%				3	3												
ORP	mV	259	100%				84	84					224		63		46		98	
ORP (post)	mV	197	100%				3	3												
ORP (pre)	mV	193	100%				3	3												
pH	Std units	7.81	100%				84	84					7.51		7.62		7.32		7.15	
pH (post)	Std units	7.38	100%				3	3												
pH (pre)	Std units	7.38	100%				3	3												
Sulfide	MG/L	1.04	88%				66	75					0.01		0.12		0.02		1.04	
Temperature	DEG C	26.55	100%				87	87					5		7.2		24.41		13	
Turbidity	NTU	195	100%				84	84					1.65		31.8		6.22		11	
Turbidity (post)	NTU	7.6	100%				2	2												
Turbidity (pre)	NTU	5.7	100%				1	1												

Notes:
1. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
ND = Non-detect

SA = Sample
DU = Duplicate

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area	Loc ID	Matrix	Sample ID	Sample Date	QC Type	Study ID	Sample Round	Filtered	GR	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25				
										MW25-18	MW25-18	MW25-18	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19		
									GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER				
									25LM20077	25LM20089	25LM20099	25LM20030	25LM20035	25LM20045	25LM20057	25LM20067	25LM20078	25LM20090	25LM20100					
									2/10/2011	2/29/2012	5/8/2013	6/7/2007	3/3/2008	4/28/2009	1/13/2010	8/4/2010	2/9/2011	2/28/2012	5/7/2013					
									SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA					
									LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM	LTM					
									8	9	10	3	4	5	6	7	8	9	10					
									Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total					
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual		
Volatile Organic Compounds																								
1,1,1-Trichloroethane	UG/L	0.62	2%	GA	5	0	2	101	0.2	UJ	0.2	U	0.5	U	1	U	1	U	0.32	U	0.8	U	0.2	UJ
1,1,2,2-Tetrachloroethane	UG/L	0	0%	GA	5	0	0	101	0.38	UJ	0.38	U	0.18	U	1	U	1	U	0.09	U	0.23	U	0.38	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L	0	0%	GA	5	0	0	96	0.31	U	0.31	UJ	0.5	U	1	U	1	U	0.4	U	1	U	0.31	UJ
1,1,2-Trichloroethane	UG/L	0	0%	GA	1	0	0	101	0.33	UJ	0.33	U	0.13	U	1	U	1	U	0.2	U	0.5	U	0.33	UJ
1,1-Dichloroethane	UG/L	3.5	10%	GA	5	0	10	101	0.21	UJ	0.21	U	0.25	U	1	U	1	U	0.14	U	0.36	U	0.21	UJ
1,1-Dichloroethene	UG/L	0	0%	GA	5	0	0	101	0.35	UJ	0.35	U	0.11	U	1	U	1	U	0.37	U	0.93	U	0.35	UJ
1,2,4-Trichlorobenzene	UG/L	0	0%	GA	5	0	0	96	0.37	UJ	0.37	U	0.25	UJ	1	U	1	U	0.19	U	0.48	U	0.37	UJ
1,2,4-Trimethylbenzene	UG/L	0.45	7%	GA	5	0	2	30	0.19	UJ	0.19	U	0.5	U	1	U	1	U	0.43	U	1.1	U	0.5	U
1,2-Dibromo-3-chloropropane	UG/L	0	0%	GA	0.04	0	0	96	0.5	U	0.5	U	0.44	U	2	U	2	U	0.43	U	1.1	U	0.5	U
1,2-Dibromoethane	UG/L	0	0%	GA	0.0006	0	0	101	0.22	UJ	0.22	U	0.25	U	1	U	1	U	0.18	U	0.45	U	0.22	UJ
1,2-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	0.15	UJ	0.15	U	0.21	U	1	U	1	U	0.4	U	1	U	0.15	UJ
1,2-Dichloroethane	UG/L	0.49	3%	GA	0.6	0	3	101	0.2	UJ	0.2	U	0.1	U	1	U	1	U	0.14	U	0.36	U	0.2	UJ
1,2-Dichloroethene (total)	UG/L	15	15%	GA	5	2	3	20	0.21	UJ	0.21	UJ	0.13	U	1	U	1	U	0.21	UJ	0.21	UJ	0.21	UJ
1,2-Dichloropropane	UG/L	0	0%	GA	1	0	0	101	0.25	UJ	0.25	U	0.13	U	1	U	1	U	0.15	U	0.38	U	0.25	UJ
1,3,5-Trimethylbenzene	UG/L	0	0%	GA	5	0	0	30	0.2	UJ	0.2	U	0.25	U	1	U	1	U	0.36	U	0.9	U	0.26	UJ
1,3-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	0.26	UJ	0.26	U	0.25	U	1	U	1	U	0.36	U	0.9	U	0.26	UJ
1,4-Dichlorobenzene	UG/L	0	0%	GA	3	0	0	96	0.24	UJ	0.24	U	0.28	U	1	U	1	U	0.34	U	0.86	U	0.24	UJ
Acetone	UG/L	11	7%	GA	1	18	29	101	2.2	U	2.2	U	5	U	5	U	10	UJ	1.4	J	5	U	4	U
Benzene	UG/L	62	29%	GA	1	18	29	101	0.26	UJ	0.26	U	0.25	U	1	U	1	U	0.18	U	0.45	U	0.26	UJ
Bromodichloromethane	UG/L	0	0%	MCL	80	0	0	101	0.33	UJ	0.33	U	0.25	U	1	U	1	U	0.17	U	0.43	U	0.33	UJ
Bromoform	UG/L	0	0%	MCL	80	0	0	101	0.23	UJ	0.23	U	0.5	UJ	2	U	1	UJ	1	U	0.2	U	0.23	UJ
Carbon disulfide	UG/L	0.61	2%	GA	5	0	2	101	0.25	U	0.25	U	0.6	U	1	U	1	U	0.36	U	0.88	U	0.25	UJ
Carbon tetrachloride	UG/L	0	0%	GA	5	0	0	101	0.22	UJ	0.22	U	0.5	UJ	1	U	1	U	0.36	U	0.9	U	0.22	UJ
Chlorobenzene	UG/L	0	0%	GA	5	0	0	101	0.22	UJ	0.22	U	0.25	U	1	U	1	U	0.26	U	0.65	U	0.22	UJ
Chlorodibromomethane	UG/L	0	0%	MCL	80	0	0	101	0.3	UJ	0.3	U	0.1	UJ	1	U	1	U	0.11	U	0.28	U	0.3	UJ
Chloroethane	UG/L	0.67	2%	GA	5	0	2	101	0.55	U	0.55	U	2	UJ	1	U	2	U	0.21	U	0.53	U	0.55	U
Chloroform	UG/L	0.32	1%	GA	7	0	1	101	0.32	UJ	0.32	U	0.14	U	1	U	1	U	0.16	U	0.4	U	0.32	UJ
Cis-1,2-Dichloroethene	UG/L	19	15%	GA	5	4	15	101	0.21	UJ	0.21	U	0.15	U	0.2	J	1	U	0.14	U	0.36	U	0.21	UJ
Cis-1,3-Dichloropropene	UG/L	0	0%	GA	0.4	0	0	101	0.19	UJ	0.19	UJ	0.11	U	1	U	1	U	0.14	U	0.36	U	0.19	UJ
Cyclohexane	UG/L	8.6	11%	GA	5	0	11	96	0.31	UJ	0.31	U	0.25	U	1	U	1	U	0.14	U	0.36	U	0.31	UJ
Dichlorodifluoromethane	UG/L	0	0%	GA	5	0	0	76	0.25	UJ	0.25	U	0.25	U	1	UJ	1	U	0.18	U	0.45	U	0.31	UJ
Diisopropyl Ether	UG/L	0	0%	GA	5	0	0	20	0.21	U	0.21	U	0.11	U	1	U	1	U	0.42	U	1.1	U	0.21	UJ
Ethyl benzene	UG/L	26	17%	GA	5	12	17	101	0.21	UJ	0.21	U	0.11	U	1	U	1	U	0.42	U	1.1	U	0.21	UJ
Isopropylbenzene	UG/L	2.6	10%	GA	5	0	10	101	0.23	UJ	0.23	U	0.1	U	1	U	1	U	0.34	U	0.86	U	0.23	UJ
Meta/Para Xylene	UG/L	19	11%	GA	5	4	7	61	0.59	UJ	0.59	U	2	U	2	U	2	U	0.81	U	2.1	U	0.59	UJ
Methyl Acetate	UG/L	0	0%	GA	5	0	0	96	0.53	U	0.53	U	0.19	UJ	10	U	2	U	0.48	U	1.2	U	0.53	U
Methyl bromide	UG/L	0	0%	GA	5	0	0	101	0.49	U	0.49	UJ	2	U	1	U	2	U	0.4	U	1	U	0.49	UJ
Methyl butyl ketone	UG/L	1.9	1%	GA	5	0	1	101	1.7	U	1.7	U	1	U	2	U	5	U	0.4	U	1	U	1.7	U
Methyl chloride	UG/L	0	0%	GA	5	0	0	101	0.36	U	0.36	U	0.33	U	1	U	2	U	0.18	U	0.45	U	0.36	UJ
Methyl cyclohexane	UG/L	4.2	7%	GA	5	0	7	96	0.3	U	0.3	U	0.1	U	1	U	1	U	0.16	U	0.4	U	0.3	U
Methyl ethyl ketone	UG/L	9	11%	GA	5	0	11	101	1.3	U	1.3	U	1	U	2	U	5	U	1	U	2.5	U	1.3	U
Methyl isobutyl ketone	UG/L	0	0%	GA	5	0	0	101	1.3	U	1.3	U	1	U	1	U	5	U	0.34	U	0.86	U	1.3	U
Methyl Tertbutyl Ether	UG/L	0	0%	GA	5	0	0	101	0.36	U	0.36	U	0.2	U	1	U	1	U	0.13	U	0.33	U	0.36	UJ
Methylene chloride	UG/L	0	0%	GA	5	0	0	101	1.1	U	1.1	U	1	U	1	U	1	U	0.13	U	0.33	U	1.1	U
Naphthalene	UG/L	0.23	4%	GA	5	0	1	25	0.3	UJ	0.3	U	0.3	U	1	U	1	U	0.3	UJ	0.3	UJ	0.3	UJ
n-Butylbenzene	UG/L	0	0%	GA	5	0	0	20	0.23	UJ	0.23	U	0.23	U	1	U	1	U	0.4	U	1	U	0.23	UJ
Ortho Xylene	UG/L	6.4	8%	GA	5	3	5	61	0.25	UJ	0.25	U	0.25	U	1	U	1	U	0.4	U	1	U	0.25	UJ
p-Isopropyltoluene	UG/L	0	0%	GA	5	0	0	10	0.25	UJ	0.25	U	0.25	U	1	U	1	U	0.4	U	1	U	0.25	UJ
Propylbenzene	UG/L	0	0%	GA	5	0	0	10	0.25	UJ	0.25	U	0.25	U	1	U	1	U	0.4	U	1	U	0.25	UJ
sec-Butylbenzene	UG/L	0	0%	GA	5	0	0	20	0.21	UJ	0.21	U	0.21	U	1	U	1	U	0.36	U	0.88	U	0.21	UJ
Styrene	UG/L	0	0%	GA	5	0	0	101	0.23	UJ	0.23	U	0.11	U	1	U	1	U	0.36	U	0.88	U	0.23	UJ
tert-Butylbenzene	UG/L	0	0%	GA	5	0	0	20	0.31	UJ	0.31	U	0.31	U	1									

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area	Loc ID	Matrix	Sample ID	Sample Date	QC Type	Study ID	Sample Round	Filtered	SEAD-25 MW25-18		SEAD-25 MW25-18		SEAD-25 MW25-18		SEAD-25 MW25-19		SEAD-25 MW25-19		SEAD-25 MW25-19		SEAD-25 MW25-19		SEAD-25 MW25-19			
									GR	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual		
Semivolatile Organic Compounds																										
1,1'-Biphenyl	UG/L	0	0%	GA	5	0	0	18																		
2,4,5-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18																		
2,4,6-Trichlorophenol	UG/L	0	0%	GA	1	0	0	18																		
2,4-Dichlorophenol	UG/L	0	0%	GA	5	0	0	18																		
2,4-Dimethylphenol	UG/L	0	0%				0	18																		
2,4-Dinitrophenol	UG/L	0	0%				0	18																		
2,4-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18																		
2,6-Dinitrotoluene	UG/L	0	0%	GA	5	0	0	18																		
2-Chloronaphthalene	UG/L	0	0%				0	18																		
2-Chlorophenol	UG/L	0	0%				0	18																		
2-Methylnaphthalene	UG/L	0	0%				0	18																		
2-Methylphenol	UG/L	0	0%				0	18																		
2-Nitroaniline	UG/L	0	0%	GA	5	0	0	18																		
2-Nitrophenol	UG/L	0	0%	GA	1	0	0	18																		
3,3'-Dichlorobenzidine	UG/L	0	0%	GA	5	0	0	18																		
3-Nitroaniline	UG/L	0	0%	GA	5	0	0	18																		
4,6-Dinitro-2-methylphenol	UG/L	0	0%	GA	1	0	0	18																		
4-Bromophenyl phenyl ether	UG/L	0	0%				0	18																		
4-Chloro-3-methylphenol	UG/L	0	0%	GA	1	0	0	18																		
4-Chloroaniline	UG/L	0	0%	GA	5	0	0	18																		
4-Chlorophenyl phenyl ether	UG/L	0	0%				0	18																		
4-Methylphenol	UG/L	0	0%				0	18																		
4-Nitroaniline	UG/L	0	0%	GA	5	0	0	18																		
4-Nitrophenol	UG/L	0	0%	GA	1	0	0	18																		
Acenaphthene	UG/L	0.5	6%				1	18																		
Acenaphthylene	UG/L	2	22%				4	18																		
Acetophenone	UG/L	0	0%				0	18																		
Anthracene	UG/L	1	6%				1	18																		
Atrazine	UG/L	0	0%	GA	7.5	0	0	18																		
Benzaldehyde	UG/L	0	0%				0	18																		
Benzo(a)anthracene	UG/L	0	0%				0	18																		
Benzo(a)pyrene	UG/L	0	0%	GA	0		0	18																		
Benzo(b)fluoranthene	UG/L	0	0%				0	18																		
Benzo(ghi)perylene	UG/L	0.6	6%				1	18																		
Benzo(k)fluoranthene	UG/L	0	0%				0	18																		
Bis(2-Chloroethoxy)methane	UG/L	0	0%	GA	5	0	0	18																		
Bis(2-Chloroethyl)ether	UG/L	0	0%	GA	1	0	0	18																		
Bis(2-Chloroisopropyl)ether	UG/L	0	0%	GA	5	0	0	18																		
Bis(2-Ethylhexyl)phthalate	UG/L	11	6%	GA	5	1	1	18																		
Butylbenzylphthalate	UG/L	2	6%				1	18																		
Caprolactam	UG/L	0	0%				0	18																		
Carbazole	UG/L	0	0%				0	18																		
Chrysene	UG/L	0	0%				0	18																		
Dibenz(a,h)anthracene	UG/L	0	0%				0	18																		
Dibenzofuran	UG/L	0	0%				0	18																		
Diethyl phthalate	UG/L	0	0%				0	18																		
Dimethylphthalate	UG/L	0	0%				0	18																		
Di-n-butylphthalate	UG/L	0	0%	GA	50	0	0	18																		
Di-n-octylphthalate	UG/L	0	0%				0	18																		
Fluoranthene	UG/L	0	0%				0	18																		
Fluorene	UG/L	0	0%				0	18																		
Hexachlorobenzene	UG/L	0	0%	GA	0.04	0	0	18																		
Hexachlorobutadiene	UG/L	0	0%	GA	0.5	0	0	18																		
Hexachlorocyclopentadiene	UG/L	0	0%	GA	5	0	0	18																		
Hexachloroethane	UG/L	0	0%	GA	5	0	0	18																		
Indeno(1,2,3-cd)pyrene	UG/L	0	0%				0	18																		
Isophorone	UG/L	0	0%				0	18																		
Naphthalene	UG/L	2	6%				1	18																		
Nitrobenzene	UG/L	0	0%	GA	0.4	0	0	18																		
N-Nitroso-di-n-propylamine	UG/L	0	0%				0	18																		
N-Nitrosodiphenylamine	UG/L	0	0%				0	18																		
Pentachlorophenol	UG/L	0	0%	GA	1	0	0	18																		
Phenanthrene	UG/L	0	0%				0	18																		
Phenol	UG/L	0	0%	GA	1	0	0	18																		
Pyrene	UG/L	0	0%				0	18																		

Appendix D
SEAD-25 Historic Groundwater Analytical Results
2015 Annual Long-Term Monitoring Report for SEAD-25
Seneca Army Depot Activity

Area Loc ID Matrix Sample ID Sample Date QC Type Study ID Sample Round Filtered	GR	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25														
		MW25-18	MW25-18	MW25-18	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19	MW25-19														
Parameter	Unit	Maximum Value	Frequency of Detection	Criteria Source	Criteria Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual										
Inorganics																														
Iron	UG/L	15,700	85%	GA	300	53	79	93	250		446 J		440 J		1,200 J		515		20 J		204		1,310		152		53.8 J		50 U	
Sodium	UG/L	58,100	100%	GA	20,000	14	93	93	41,900		27,300		22,000 J		3,800 J		4,520		3,500		4,350		4,140		3,340		3,980		3,600	
Wet Chemistry - MEE																														
Chloride	MG/L	97.9	77%	GA	250	0	72	94	72		20 J		16		4.5		0.2 U		0.2 U		2.3		3.6		1.7 J		0.72 J		1 U	
Ethane	UG/L	1.1	5%				5	98	0.58 U		0.58 U		4 U		1.1		1 U		1 U		0.16 U		0.16 U		0.58 U		0.58 U		0.81 U	
Ethene	UG/L	4.6	5%				5	98	0.69 U		0.69 U		3 U		4.6		1 U		1 U		0.17 U		0.17 U		0.69 U		0.69 U		0.73 U	
Methane	UG/L	170	55%				54	98	1.3 J		1.9 J		2 U		29		2 U		2 U		0.14 U		0.14 U		1.2 J		0.92 J		0.45 U	
Nitrate	MG/L	6.4	65%	GA	10	0	39	60	0.18		0.13		0.18		1.4 J				0.05 U		0.113 J				0.064		0.094		0.13	
Nitrate Nitrogen	MG/L	1	45%				13	29							0.194 J															
Nitrate/Nitrite Nitrogen	MG/L	1	64%	GA	10	0	16	25							0.194						0.113 J		0.072 J				0.015 J		0.01 U	
Nitrite	MG/L	0.73	28%	GA	1	0	17	60	0.00321 U		0.022 J		0.01 U		0.72 J				0.01 U		0.007 UJ				0.00321 U		0.015 J		0.01 U	
Nitrite Nitrogen	MG/L	0.087	3%				1	29							0.01 UJ															
Sulfate	MG/L	182	100%	GA	250	0	94	94	32 J		21 J		27 J		23		24.3		30.1		31 J		36.7		31 J		22 J		29	
Field Measurement - Hach Kit																														
Conductivity	S/m	1.26	100%				84	84			0.548		0.566		0.427		0.478		0.379		0.445		0.662				0.477		0.423	
Conductivity (post)	S/m	0.844	100%				3	3	0.844														0.592							
Conductivity (pre)	S/m	0.83	100%				3	3	0.83														0.588							
Dissolved Oxygen	MG/L	12.6	100%				80	80			3.89		5.26		0.05		5.84		3.75		4.01		0.03			2.3		2.23		
Dissolved Oxygen (post)	MG/L	5.17	100%				3	3	2.99														2.25							
Dissolved Oxygen (pre)	MG/L	5.36	100%				3	3	3.52														2.84							
Nitrate Nitrogen	MG/L	0.5	100%				3	3	0.5														0.008							
Nitrite Nitrogen	MG/L	0.5	100%				3	3	0.2														0.5							
ORP	mV	259	100%				84	84			70		48		117		161		134		259		63			70		178		
ORP (post)	mV	197	100%				3	3	185														197							
ORP (pre)	mV	193	100%				3	3	187														174							
pH	Std units	7.81	100%				84	84			7.16		7.81		7.04		7.23		7.15		7.08		6.94			6.95		7.48		
pH (post)	Std units	7.38	100%				3	3	7.29														7.22							
pH (pre)	Std units	7.38	100%				3	3	7.3														7.22							
Sulfide	MG/L	1.04	88%				66	75	0.03		0.01		0.05		0.1		0.01		0.02		0.02		0.18		0.03		0.016		0	
Temperature	DEG C	26.55	100%				87	87	6.3		6.7		7.6		13.4		5.8		7.1		8		17.7		6.9		6.6		7.5	
Turbidity	NTU	195	100%				84	84			3.66		7.55		17		16.4		1.3		6.1		1.4			2.35		0.43		
Turbidity (post)	NTU	7.6	100%				2	2	7.6																					
Turbidity (pre)	NTU	5.7	100%				1	1	0																					

Notes:
1. Cleanup goal values are NYSDEC Class GA Groundwater Standards (TOGS 1.1.1, June 1998).
2. Shading indicates concentration above cleanup goal.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
ND = Non-detect

SA = Sample
DU = Duplicate

APPENDIX E
LONG-TERM MONITORING EVENT 2015 DATA VALIDATION SHEETS

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 12
LAB: TestAmerica (TA)
SDG: 680-110742-1
FRACTION: TCL VOC (SW846 8260B)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 4

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS?	Region 2 Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times, Preservation, & Solids Percentage	Yes	Cooler temp < 10°. Samples holding time requirement < 14 days.	Coolers were received at 2.5°C on 3/18/15 by the laboratory. The samples were received in good condition based on the laboratory login report. The samples were analyzed within 14 days from sample collection.	No
System Monitoring Compounds	Yes	Recoveries within limits (70 - 130%) or laboratory established limits	All system monitoring compound recoveries were within the laboratory limits for all samples in this SDG.	No
Matrix Spike/Matrix Spike Duplicates and Laboratory Control Sample Recoveries	No	MS/MSD: 1 per 20 project samples. Recoveries within lab limits (or 70-130%). RPD < lab limit.	MS/MSD samples were not submitted with this SDG. All LCS/LCSD recoveries were within the 70-130%R criteria with the exception of bromomethane (58%R/68%R) and dichlorodifluoromethane (64%R/68%R) associated with all samples. The nondetected results for these compounds were qualified "UJ" for all samples.	Yes
Blanks	Yes	Method blanks: 1 per 20 project samples. No TCL or TICs detected in MB, TB, or EB.	The laboratory method blank associated with the project samples did not contain target VOCs. No TCLs were detected in the trip blank 25LM00026.	No
GC/MS Instrument Performance Check	Yes	Performance check every 12 hours per instrument. Ion abundances normalized to m/z 95.	Checks were performed every 12 hours and the ion abundance was normalized to m/z 95.	No
TCL Analytes	Yes	RRT within 0.06 RRT units of standard RRT in CV.4. Relative intensities of characteristic ions within ± 30% of reference MS.	The major ions are present and the standard relative ion intensities generally agree within 20% for the primary quant ions for the compounds. All RTs within 0.06 RRT units of the standard RRT. No action was taken as the predominant ion intensities were generally consistent with the reference and calibration.	No
Tentatively Identified Compounds	N/A	No TCLs are listed as TIC. Ions in reference MS with relative intensity ≥ 10% present in sample MS. TIC and "best match" standard relative ion intensities agree within ± 20%.	TICs were not reported for this SDG.	NA

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 12
LAB: TestAmerica (TA)
SDG: 680-110742-1
FRACTION: TCL VOC (SW846 8260B)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 4

CRITERIA	Did Analyses Meet all criteria as specified in the SOPs?	Region 2 Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Reported Quantitation Limits	Yes	Quantitation limits adjusted to reflect sample dilutions and moisture.	The lowest calibration standards were reported as reporting limits.	No
GC/MS Initial Calibration	Yes	%RSD \leq 20%. Average RRFs $>$ 0.050.	All initial calibrations associated with the project samples had %RSDs and mean RRFs within the criteria.	No
GC/MS Continuing Calibration	No	CCV performed for every 12 hours per instrument. %D \leq 20%. RRFs \geq 0.05.	The continuing calibration (3/27/15 10:15) associated with all samples exceeded the 40%D criteria for poor performers for bromomethane (-50.3%D). Therefore, results for this compound which were nondetects, were considered estimated and qualified "UJ" for the project samples.	Yes
Internal Standards	Yes	IS areas of samples & blank within (-50% to +100%). RTs $<$ 30 seconds.	Standard recovery area within the QC limits for all standards; and retention times were within 30 seconds of the standard for all samples that were used in this SDG.	No
Field Duplicate	Yes	All % RPD \leq 50%?	A field duplicate sample is not associated with this SDG.	No

RT = Retention Time; %D = Percent Deviation; %RPD = Relative Percent Difference; %RSD = Percent Relative Standard Deviation; RRF = Relative Response Factor;
 TCL = Target Compound List; TIC = Tentatively Identified Compound; CCV = Continuing Calibration Verification

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 12
SDG: 680-110742-1
LAB: TestAmerica (TA)
FRACTION: General Chemistry (sulfate and chloride - Method 300.0; nitrate and nitrite - Method 353.2)
MEDIA: Water

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS?	If no, specify analysis IDs which do not meet criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	YES		Coolers were received at 2.5°C on 3/18/15 by the laboratory. The samples were received in good condition based on the laboratory login report.	NO
Calibration	YES		All instrument calibrations were within specified limits.	NO
Blanks	YES		No contamination was detected in the laboratory blanks.	NO
Laboratory Control Sample	YES		LCS/LCSD recoveries met the specified criteria.	NO
Duplicates	YES		There were no field duplicates associated with this SDG.	NO
Spike Sample Analysis	YES		There were no MS/MSD samples associated with this SDG.	NO

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 12
SDG: 680-110742-1
FRACTION: Metals (iron and sodium)
LAB: Test America - Savannah
MEDIA: Groundwater

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS?	If no, specify analysis IDs which do not meet criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Yes		The cooler temperature was 2.5°C upon receipt by the laboratory. All samples were received in good condition based on the laboratory login report. Holding time met criteria.	No
Calibration	Yes		Calibrations available, taken every ten samples, and within recovery limits (90-110%) for metals. Initial calibration R2 >0.99.	No
Blanks (method blank, prep blank)	Yes		ICB, CCBs, and preparation blank did not contain iron and sodium. No rinsate blank was collected for this SDG.	No
Interference Check Sample	Yes		Met requirements (80-120%) for iron and sodium.	No
CRQL Standard	Yes		CRQL Check Standards performed and within QC limit of 70-130%R.	No
Laboratory Control Sample	Yes		LCS results within limits (i.e., 80-120%) for iron and sodium.	No
Duplicates	Yes		No laboratory or field duplicates are associated with this SDG.	No
Spike Sample Analysis	Yes		No MS/MSD samples are associated with this SDG.	No
ICP Serial Dilution	YES		No ICP serial dilution samples are associated with this SDG.	No
Detection Limits	YES		IDLs available used as reporting limits. IDLs of iron and sodium are less than CRDLs.	No
ICP Linear Range	YES		All results within the ICP linear range.	No

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 12
LABORATORY: TestAmerica (TA)
SDG: 680-110742-1
MEDIA: Groundwater
FRACTION: Methane, Ethane, Ethene (USEPA approved SOP RSK-175)

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS? Yes/No	Meet Criteria?	Comments	Qualifiers Added? Yes/No	Qualifying Actions
Data Package Completeness	All results forms and raw data, Cover Letter, and Case Narrative included? All samples in COC present? All notes in Case Narrative consistent with chemist's review of data package?	Yes		No	
Sample Conditions, Preservations, and Solids Percentage	Cooler temperature between 2°C~6°C? Record sample preservation and problems noted for sample conditions (e.g., bubbles?)	Yes	All samples received within one day of sample collection at 2.5°C	No	
Holding Times	Samples met holding time requirement (non-preserved aqueous - 7 days; preserved aqueous - 14 days; non-aqueous - 14 days)	Yes		No	
Laboratory Control Sample (LCS)	LCS analyzed for every 20 project samples for corresponding matrix? LCS recoveries within laboratory limits (or 70~130% if not available)?	Yes		No	
Matrix Spike/Matrix Spike Duplicates (MS/MSD)	Was one MS/MD or one MS/MSD performed for every 20 project samples? Were recoveries within laboratory limits (or 70~130% if not available)?	Yes	No MS/MSD samples associated with this SDG.	No	

Blanks	1. Method blanks available for every 20 project samples? 2. Were trip blanks, rinsate blanks, and field blanks collected in accordance with QAPP (Table 16)? 3. No analytes should be detected in ICBs, CCBs, method blanks, trip blanks, or rinsate blanks. 4. Was chromatographic performance for laboratory blanks stable?	Yes	All laboratory blanks ND for MEE.	No	
Sample Result Verification	Were results verified with instrument raw data?	Yes		No	
Quantitation Limits	Were quantitation limits correctly calculated based on sample amount/volume and adjusted to reflect sample dilutions and, for soils, sample moisture?	Yes		No	
GC/MS Initial Calibration	1. ICVs analyzed at appropriate frequency with recoveries 90-110%R? 2. Curves linear for FID and TCD detectors?	Yes		No	
GC/MS Calibration Verification (CV)	1. Were CCV at the appropriate frequency with recoveries 90-110%R? 2. Were curves linear for the FID and TCD detectors?	Yes		No	
Field Duplicate	1. Was field duplicates collected for every 20 samples? 2. Were % RPDs \leq 50% (soil) or 30% (aqueous) or difference \leq 2RL (aqueous) or 4RL (soil) when one or both results $<$ 5RL?	Yes	No field duplicate samples are associated with this SDG.	No	

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 12
LAB: TestAmerica (TA)
SDG: 680-110788-1
FRACTION: TCL VOC (SW846 8260B)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 5

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS?	Region 2 Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times, Preservation, & Solids Percentage	Yes	Cooler temp < 10°. Samples holding time requirement < 14 days.	Coolers were received at 1.5°C on 3/19/15 by the laboratory. The samples were received in good condition based on the laboratory login report. The samples were analyzed within 14 days from sample collection.	No
System Monitoring Compounds	Yes	Recoveries within limits (70 - 130%) or laboratory established limits	All system monitoring compound recoveries were within the laboratory limits for all samples in this SDG.	No
Matrix Spike/Matrix Spike Duplicates and Laboratory Control Sample Recoveries	Yes	MS/MSD: 1 per 20 project samples. Recoveries within lab limits (or 70-130%). RPD < lab limit.	Sample 25LM20114 was designated for MS/MSD analyses. All MS/MSD precision and accuracy results were within criteria. All LCS/LCSD recoveries were within the 70-130%R criteria.	No
Blanks	No	Method blanks: 1 per 20 project samples. No TCL or TICs detected in MB, TB, or EB.	The laboratory method blank associated with the project samples did not contain target VOCs. The trip blank 25LM00027 and the equipment blank 25LM00112 associated with all samples in this SDG contained acetone at concentrations of 9.5 J and 35 ug/L, respectively. The project samples did not detect acetone and validation qualification was not required.	No
GC/MS Instrument Performance Check	Yes	Performance check every 12 hours per instrument. Ion abundances normalized to m/z 95.	Checks were performed every 12 hours and the ion abundance was normalized to m/z 95.	No
TCL Analytes	Yes	RRT within 0.06 RRT units of standard RRT in CV.4. Relative intensities of characteristic ions within ± 30% of reference MS.	The major ions are present and the standard relative ion intensities generally agree within 20% for the primary quant ions for the compounds. All RTs within 0.06 RRT units of the standard RRT. No action was taken as the predominant ion intensities were generally consistent with the reference and calibration.	No

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 12
LAB: TestAmerica (TA)
SDG: 680-110788-1
FRACTION: TCL VOC (SW846 8260B)
MEDIA: GROUNDWATER
NUMBER OF SAMPLES: 5

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS?	Region 2 Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Tentatively Identified Compounds	N/A	No TCLs are listed as TIC. Ions in reference MS with relative intensity $\geq 10\%$ present in sample MS. TIC and "best match" standard relative ion intensities agree within $\pm 20\%$.	TICs were not reported for this SDG.	NA
Reported Quantitation Limits	Yes	Quantitation limits adjusted to reflect sample dilutions and moisture.	The lowest calibration standards were reported as reporting limits.	No
GC/MS Initial Calibration	Yes	%RSD $\leq 20\%$. Average RRFs > 0.050 .	All initial calibrations associated with the project samples had %RSDs and mean RRFs within the criteria.	No
GC/MS Continuing Calibration	Yes	CCV performed for every 12 hours per instrument. %D $\leq 20\%$. RRFs ≥ 0.05 .	All continuing calibrations associated with the project samples had %Ds and RRFs within the criteria.	No
Internal Standards	Yes	IS areas of samples & blank within (-50% to +100%). RTs < 30 seconds.	Standard recovery area within the QC limits for all standards; and retention times were within 30 seconds of the standard for all samples that were used in this SDG.	No
Field Duplicate	Yes	All % RPD $\leq 50\%$?	Sample 25LM20115 was collected as the field duplicate sample of 25LM20114. All precision results were within criteria.	No

RT = Retention Time; %D = Percent Deviation; %RPD = Relative Percent Difference; %RSD = Percent Relative Standard Deviation; RRF = Relative Response Factor;
 TCL = Target Compound List; TIC = Tentatively Identified Compound; CCV = Continuing Calibration Verification

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 12
SDG: 680-110788-1
LAB: TestAmerica (TA)
FRACTION: General Chemistry (sulfate and chloride - Method 300.0; nitrate and nitrite - Method 353.2)
MEDIA: Water

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS?	If no, specify analysis IDs which do not meet criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	YES		Coolers were received at 1.5°C on 3/19/15 by the laboratory. The samples were received in good condition based on the laboratory login report.	NO
Calibration	YES		All instrument calibrations were within specified limits.	NO
Blanks	No		No contamination was detected in the laboratory blanks. The equipment blank 25LM00112 contained chloride at a concentration of 0.26 J mg/L. Samples were not affected and validation qualification was not required.	NO
Laboratory Control Sample	YES		LCS/LCSD recoveries met the specified criteria.	NO
Duplicates	YES		Sample 25LM20115 was collected as the field duplicate of 25LM20114. All precision results were less than 30%RPD.	NO
Spike Sample Analysis	YES		Sample 25LM20114 was designated for MS/MSD analyses. All MS/MSD precision and accuracy results were within lab QC limits.	NO

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 12
SDG: 680-110788-1
FRACTION: Metals (iron and sodium)
LAB: Test America - Savannah
MEDIA: Groundwater

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS?	If no, specify analysis IDs which do not meet criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Yes		The cooler temperature was 1.5°C upon receipt by the laboratory. All samples were received in good condition based on the laboratory login report. Holding time met criteria.	No
Calibration	Yes		Calibrations available, taken every ten samples, and within recovery limits (90-110%) for metals. Initial calibration R2 >0.99.	No
Blanks (method blank, prep blank)	Yes		ICB, CCBs, and preparation blank did not contain iron and sodium. The rinsate blank 25LM00112 did not contain iron and sodium.	No
Interference Check Sample	Yes		Met requirements (80-120%) for iron and sodium.	No
CRQL Standard	Yes		CRQL Check Standards performed and within QC limit of 70-130%R.	No
Laboratory Control Sample	Yes		LCS results within limits (i.e., 80-120%) for iron and sodium.	No
Duplicates	Yes		Sample 25LM20115 was the field duplicate sample of 25LM20114. All precision results were less than 30%RPD.	No
Spike Sample Analysis	Yes		Sample 25LM20114 was designated for MS/MSD analyses. All MS/MSD precision and accuracy results were within criteria.	No
ICP Serial Dilution	YES		Sample 25LM20114 was designated for serial dilution analysis. All serial dilution results were less than 10%D.	No
Detection Limits	YES		IDLs available used as reporting limits. IDLs of iron and sodium are less than CRDLs.	No
ICP Linear Range	YES		All results within the ICP linear range.	No

PROJECT NAME/NO. USACE - Seneca Army Depot SEAD-25 LTM Round 12
LABORATORY: TestAmerica (TA)
SDG: 680-110788-1
MEDIA: Groundwater
FRACTION: Methane, Ethane, Ethene (USEPA approved SOP RSK-175)

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS? Yes/No	Meet Criteria?	Comments	Qualifiers Added? Yes/No	Qualifying Actions
Data Package Completeness	All results forms and raw data, Cover Letter, and Case Narrative included? All samples in COC present? All notes in Case Narrative consistent with chemist's review of data package?	Yes		No	
Sample Conditions, Preservations, and Solids Percentage	Cooler temperature between 2°C~6°C? Record sample preservation and problems noted for sample conditions (e.g., bubbles?)	Yes	All samples received within one day of sample collection at 1.5°C	No	
Holding Times	Samples met holding time requirement (non-preserved aqueous - 7 days; preserved aqueous - 14 days; non-aqueous - 14 days)	Yes		No	
Laboratory Control Sample (LCS)	LCS analyzed for every 20 project samples for corresponding matrix? LCS recoveries within laboratory limits (or 70~130% if not available)?	Yes		No	
Matrix Spike/Matrix Spike Duplicates (MS/MSD)	Was one MS/MD or one MS/MSD performed for every 20 project samples? Were recoveries within laboratory limits (or 70~130% if not available)?	Yes	Sample 25LM20114 was designated for MS/MSD analyses. All MS/MSD precision and accuracy results were within criteria.	No	

Blanks	<p>1. Method blanks available for every 20 project samples?</p> <p>2. Were trip blanks, rinsate blanks, and field blanks collected in accordance with QAPP (Table 16)?</p> <p>3. No analytes should be detected in ICBs, CCBs, method blanks, trip blanks, or rinsate blanks.</p> <p>4. Was chromatographic performance for laboratory blanks stable?</p>	No	All laboratory blanks ND for MEE. The rinsate blank 25LM00112 contained methane at a concentration of 0.79 ug/L. Sample results were not affected and validation qualification was not required.	No	
Sample Result Verification	Were results verified with instrument raw data?	Yes		No	
Quantitation Limits	Were quantitation limits correctly calculated based on sample amount/volume and adjusted to reflect sample dilutions and, for soils, sample moisture?	Yes		No	
GC/MS Initial Calibration	<p>1. ICVs analyzed at appropriate frequency with recoveries 90-110%R?</p> <p>2. Curves linear for FID and TCD detectors?</p>	Yes		No	
GC/MS Calibration Verification (CV)	<p>1. Were CCV at the appropriate frequency with recoveries 90-110%R?</p> <p>2. Were curves linear for the FID and TCD detectors?</p>	Yes		No	
Field Duplicate	<p>1. Was field duplicates collected for every 20 samples?</p> <p>2. Were % RPDs \leq 50% (soil) or 30% (aqueous) or difference \leq 2RL (aqueous) or 4RL (soil) when one or both results $<$ 5RL?</p>	Yes	Sample 25LM20115 was collected as the field duplicate sample of 25LM20114. All precision results were less than 30%RPD.	No	